

# CMR INSTITUTE OF TECHNOLOGY

(Affiliated to VTU, Recognized by Govt. of Karnataka, Approved by AICTE, New Delhi)  
132, AECS layout, ITPL main road, kundalahalli, Bengaluru – 560037



## SELF EVALUATION REPORT

**(Volume – 2)**

**February 2017**

**Submitted to**

**National Assessment and Accreditation Council  
(An Autonomous Institution of the University Grants Commission)**

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## Self Evaluation reports

### Electronics and Communication Engineering

1. **Name of the Department: Electronics and Communication Engineering**
2. **Year of Establishment: 2000**
3. **Names of Programme/ Courses offered (UG, PG, M.Phil., PH.D., Integrated masters; Integrated Ph.D., etc.):**

Programme	Course	Affiliated University	Year of Establishment	Initial Intake	Present Intake
UG	B. E in Electronics & Communication	Visvesvaraya Technological University, Belgaum, Karnataka	2000	60	240
PG	M. Tech in Digital Electronics		2008	18	-
PG	M. Tech in VLSI Design and Embedded Systems		2009	18	24
Ph.D	Ph. D and MS by research		2012	8 Scholars / guide	

4. **Names of the Interdisciplinary courses and Departments/units involved: (To be updated)**

Semester	Name of the Course / Subject	Departments Involved
VI	Programming with C++	Computer Science
VI	Operating systems	Computer Science/ Information Science
IV	Control System	EEE
III/IV	Engg. Mathematics III, Mathematics IV	Mathematics
M.Tech (First Semester)	Linear Algebra	Mathematics
M.Tech (First Semester)	Advanced Mathematics	Mathematics
IV	Signal Systems`	Telecommunication
IV	Digital Communications	Telecommunication
IV	Microprocessor	Telecommunication
VI	Advanced Digital Communication Lab	Telecommunication
VIII	Network Security	Telecommunication
VIII	DSS	Telecommunication

III	Analog Electronics Circuits	Telecommunication
III	Analog Electronics Circuits Lab	Telecommunication
III	Digital Electronics	Telecommunication
III	Digital Electronics lab	Telecommunication
V	Digital Signal Processing	Telecommunication
V	Digital Signal Processing lab	Telecommunication
V	Microwave and Radar	Telecommunication
VII	Power Electronics	EEE
VII	Power Electronics Lab	EEE

#### 5. Annual/ Semester/ Choice based credit system (Program wise):

Semester-wise system.

#### 6. Participation of the department in the courses offered by other departments:

Sl. No.	Semester	Subjects handled	Department	Subject Code
1	IV	Field Theory	EEE	10EE36
2	IV	Microprocessor	CSE, TCE	15EC42
3	IV	Microprocessor Lab	CSE, TCE	15ECL47
4	IV	AC LIC LAB	EEE	15ECL48
5	IV	CONTROL SYSTEMS	TCE	15EC43
6	IV	Signal Systems`	TCE	15EC44
7	IV	PCS	TCE	15EC45
8	III	Logic Design	EEE, ISE	15EC33
9	III	Electronic Instrumentation	TCE	15EC35
10	III	Logic Design Lab	TCE, ISE	15ECL38
11	III	Analog Electronics Circuits	EEE, ISE	15EC32
12	III	Analog Electronics Circuits Lab	EEE, ISE	15ECL37
13	V	Digital Signal Processing	TCE	10EC52
14	VI	DSDV	TCE	10EC666
15	VIII	NS	TCE	10EC832
16	VIII	DCN	EEE	10EEA43
17	VIII	MMC	TCE	10EE841
18	M.TECH	ECC	TCE	16ECS22
19	VII	Real Time Systems	TCE	10TC762
20	VII	Computer communication Network Lab	TCE	10TCL78
21	VII	Embedded System Design	TCE	10EC765



22	VII	VLSI Design	EEE	10EE764
23	I/II	Basic Electronics	Basic Science	14ELN25

**7. Courses in collaboration with other universities / industries / foreign institutions, etc:**

Sl no	Event	Industry	Area	Year	Students involved
1	PREPARE Program	Cranes Varsity	Embedded Systems	2013-14	7th sem
2	PREPARE Program	Cranes Varsity	Matlab Training	2013-14	7th sem
3	PREPARE Program	QuanTech	Soft Skills	2014-15	6th sem
4	PREPARE Program	QuanTech	Technical Training	2014-15	6th sem
5	PREPARE Program	QuanTech	Soft Skills	2015-16	6th sem
6	PREPARE Program	QuanTech	Technical Training	2015-16	6th sem
7	PREPARE Program	TIME	Soft Skills	2016-17	6th sem
8	PREPARE Program	TIME+CMRIT	Technical Training	2016-17	6th sem
9	Embedded system training	Cranes Varsity	Technical Training	2016-17	8th sem

**8. Details of courses / programme discontinued (if any) with reasons: M Tech Digital electronics**

### 9. Number of teaching posts:

	Sanctioned	Filled
Professor	5	5
Associate Professors	11	8
Asst. Professors	34+4*	42+4*

\* Four faculty members are assigned for handling basic science department

### 10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.):

Sl. No.	Name	Qualification	Designation	Specialization	No. of years of Experience	No. of PhD students guided for the last 4 years
1.	Dr. Muralishankar	Ph.D., M.Tech. , B.E.	Professor & HOD	Signal Processing	26	3
2.	Dr. Ramesh C	Ph.D., M.Tech. , B.E.	Professor	Information & Communication	17	3
3.	Dr. Sudharshan Shinde	Ph.D., M.Tech. , B.E.	Professor	Electrical Communication Engg.	13	-
4.	Dr. Kalaga Venu Madhav	Ph.D., M.Tech. , B.E.	Professor	Electronics & Communication	18	-
5.	Dr. Benjamin	Ph.D., M.S.	Professor	Communication	20	-
6.	Dr. Binish Fathima	Ph.D., M.Tech. , B.E.,	Assoc. Prof.	Signal Processing	1	-
7.	Dr. Sudhir Routray	Ph.D., M.Tech. , B.E.	Assoc. Prof.	Data Communications	12	-
8.	Dr. Nasir Abdul Quadir	Ph.D., M.Tech. , B.E.	Assoc. Prof.	Electronics and Communication	16	-
9.	Pappa M	M.Tech. , B.E.,	Assoc. Prof.	Digital Electronics	19	-
10.	Suganya S	M.Tech. , B.E.	Assoc. Prof.	Applied Electronics	12	-
11.	Archana N	M.Tech. , B.E.	Assoc. Prof.	VLSI	7	-
12.	Sharmila K P	M.Tech. , B.E.	Assoc. Prof.	Digital Electronics	24	-
13.	Sridevi S	M.Tech. , B.E.	Assoc. Prof.	Communication	10	-

14.	Chetan H	M.Tech., B.E.	Asst. Prof.	VLSI and Embedded Systems	7	-
15.	Sunil Kumar K H	M.Tech., B.E.	Asst. Prof.	VLSI and Embedded Systems	7	-
16.	Abhishek Javali	M.Tech., B.E.	Asst. Prof.	VLSI and Embedded Systems	6	-
17.	Naveen Kumar G N	M.Tech., B.E.	Asst. Prof.	Power Electronics	24	-
18.	Meenakshi M Devikar	M.Tech., B.E.	Asst. Prof.	Digital System & Computer Electronics	10	-
19.	Sophiya Susan	M.Tech., B.E.	Asst. Prof.	Electronics & Communication	10	-
20.	Shailee Sisodia	M.Tech., B.E.	Asst. Prof.	Communication System Engineering	9	-
21.	Satish Mohanty	M.Tech., B.E.,	Asst. Prof.	Electronics & Communication	3	-
22.	Aritri Debnath	M.Tech., B.E.	Asst. Prof.	Advanced Communication	7.5	-
23.	Harsha B K	M.Tech., B.E.	Asst. Prof.	VLSI and Embedded Systems	6	-
24.	Shruthi M L J	M.Tech., B.E.	Asst. Prof.	VLSI and Embedded Systems	6	-
25.	Sowmya R	M.Tech., B.E.	Asst. Prof.	VLSI and Embedded Systems	3	-
26.	Bhumika Narang	M.Tech., B.E.	Asst. Prof.	Electronics & Communication	4	-
27.	Ammu R	M.Tech., B.E.	Asst. Prof.	VLSI Design	3	-
28.	Sharanabasappa	M.Tech., B.E.	Asst. Prof.	VLSI and Embedded systems	5	-
29.	Nini Krishna T	M.Tech., B.E.	Asst. Prof.	RF & Microwave Design	4	-
30.	Nagaratna Shanbhag	M.Tech., B.E.	Asst. Prof.	Electronics	3	-
31.	Madhusudhan Kulkarni	M.Tech., B.E.	Asst. Prof.	Digital Electronics	12	-
32.	Sutapa Sarkar	M.Tech., B.E.	Asst. Prof.	Digital Electronics & Communication	6.5	-
33.	Jyothi M R	M.Tech., B.E.	Asst. Prof.	Digital Electronics	10	-
34.	Manoj Kumar M B	M.Tech., B.E.	Asst. Prof.	VLSI design and embedded system	3	-
35.	Suma Sannamani	M.Tech., B.E.	Asst. Prof.	VLSI and Embedded Systems	6	-
36.	Mahesh S Gour	M.Tech., B.E.	Asst. Prof.	Digital Electronics	3	-
37.	Vinay B K	M.Tech., B.E.	Asst. Prof.	Signal Processing & VLSI Design	3	-
38.	Suganya J	M.Tech., B.E.	Asst. Prof.	Communication Systems	7	-

39.	Surya Varchasvi	M.Tech., B.E.	Asst. Prof.	Applied Electronics	1	-
40.	Sudatta Mohanty	M.Tech., B.E.	Asst. Prof.	VLSI and Embedded Systems	1	-
41.	Preethi A	M.Tech., B.E.	Asst. Prof.	Applied Electronics & Instrumentation	6	-
42.	Amit Jain	(Ph.D) M.Tech., B.E.,	Asst. Prof.	VLSI & Nano-Electronics	2.5	-
43.	Rahul Tiwari	M.Tech., B.E.	Asst. Prof.	RF & Microwave	4	-
44.	Varuna A B	M.Tech., B.E.	Asst. Prof.	RF & Microwave	1	-
45.	Krishna Teja	M.Tech., B.E.	Asst. Prof.	Digital Electronics & Communication	1	-
46.	Prasoon	M.S., B.E.	Asst. Prof.	VLSI Design	6.5	-
47.	Padmaja Srikanth	M.Tech., B.E.	Asst. Prof.	Instrumentation and control	2	-
48.	Jagrati Gupta	M.Tech., B.E.	Asst. Prof.	VLSI Design	1.5	-
49.	Pushpa	M.Tech., B.E.	Asst. Prof.	VLSI and Embedded Systems	2	-
50.	Eisha Akanksha	M.Tech., B.E.	Asst. Prof.	Digital Electronics	6	-
51.	Phaniraj	M.Tech., B.E.	Asst. Prof.	Control Systems	3	-
52.	Anuradha Kala	M.Tech., B.E.	Asst. Prof.	Electronics and Computer Engineering	7	-
53.	Shraddha Sharma	M.Tech., B.E.	Asst. Prof.	VLSI Design	5	-
54.	Monika Singh	M.Tech., B.E.	Asst. Prof.	VLSI Design	7	-
55.	Mrinal Jyoti Sharma	M.Tech., B.E.	Asst. Prof.	Electronics & Communication	0.6	-
56.	Madhukesava	M.Tech., B.E.	Asst. Prof.	Digital Electronics	0.6	-
57.	Naveen	M.Tech., B.E.	Asst. Prof.	VLSI Design and Embedded systems	0.6	-
58.	Jeevana	M.Tech., B.E.	Asst. Prof.	VLSI Design and Embedded systems	0.6	-
59.	Swathi R	M.Tech., B.E.	Asst. Prof.	Communication	0	-

#### 11. List of senior visiting faculty: NIL

#### 12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty:

- All classes are held by regular faculty members.

### 13. Student – Teacher Ratio (Programme wise):

UG Programme:

Year	Sanctioned Intake (No. of students for 2 <sup>nd</sup> year)	No of Faculty	Student Teacher Ratio
2016	660(240+48*)	47	15:1
2015	540(240+48*)	36	15:1
2014	420(180+36*)	28	15:1
2013	360(120+24*)	24	15:1
2012	360(120+24*)	24	15:1
2011	360(120+24*)	24	15:1

\*Lateral entry

PG Program: VLSI Design and Embedded Systems

Year	Sanctioned Intake	No of Faculty	Student Teacher Ratio
2016	24	4	12:1
2015	24	4	12:1
2014	24	4	12:1
2013	24	4	12:1
2012	24	4	12:1
2011	18	3	12:1

PG Program: Digital Electronics

Year	Sanctioned Intake	No of Faculty	Student Teacher Ratio
2016	-	3	-
2015	18	3	12:1
2014	18	3	12:1
2013	18	3	12:1
2012	18	3	12:1
2011	18	3	12:1

### 14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Academic Support Staff	Sanctioned (as per University norms)	Filled
Foreman	1	1

Instructors	11	8
Office Assistant	1	1
Total	13	10

#### 15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:

Sl. No.	Qualification	No. of Faculty
1.	Post Doctorate	2
2.	Ph.D	5
3.	Persuing Ph.D.	21
4.	PG	31

#### 16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

Sl. No.	Title	Principal Investigator	Funding Agency	Sanction (YES/NO)	Year of Sanction	Status
1	Broadband over power line.	Dr. R. Muralishankar & Dr. H.N. Shankar	VTU	YES	2011	Completed

#### 17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc. and total grants received:

Sl. No.	Granting Agency	Year of Sanction	Grant Amount	Duration	Title of Research / Project
1.	VGST DST Govt. of Karnataka	2010-13	60 lakhs	3years	Image & Audio processing 1) Quality Enhancement of Aerial images using weiner filter 2) Land mine detection in a ground penetrating radar radargam

					3) Hardware implementation of lossless image compression on FPGA 4) Parallel architecture for fast image processing 5) Implementation of color image enhancement on FPGA using HSV color space 6) Hardware implementation of shadow Detection algorithm in FPGA 7) Integration of MEMS accelerometer for measuring inclination 8) Image compression algorithm using proposed quantization approach
2.	VTU	2010-12	8 lakhs	2years	Analysis of robustness of end point detection in spectrum of speech packets
3.	VTU	2011-13	13.12lakhs	2years	Broadband over power line.
4.	AICTE	2009-12	15 lakhs	3years	1. Design and implementation of Bit-serial Min sum architectures

					<p>of LDPC decoders</p> <p>2. A High performance unified field cryptonic processor</p> <p>3. ARM based Audio Driver</p> <p>4. Buried object detection from ground penetrating Radar (GPR) radargram</p> <p>5. The structure Design of ternery Dynamic BiCmos circuit and the design methodology</p> <p>6. Low Area and energy efficient routing algorithm using De Bruijn Graph for large network on chip</p> <p>7. FPGA implementation of full fault resilience and relaxed synchronization requirements at the cache memory interface</p> <p>8. A Reversible design of BCD adder</p> <p>9. FPGA implementation of viterbi Decoder using area efficient butterfly and</p>
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					trace back architecture 10. Overview of SEPP implementation to remove impulse noise
5.	CMR Jnanadhara trust	2013	20,000/-	1 Year	In-house project
6.	CMR Jnanadhara trust	2014	20,000/-	1 Year	c-pack cache compression algorithm

#### 18. Research Center/ facility recognized by the University:

Research Center	Sanctioned Year and letter	Name of Supervisor	Research area of Supervisor	No. of Students under each Supervisor
R&D Centre recognized by Visvesvaraya Technological University, Belgaum, Karnataka	2012	G. Indumathi	Low Power Embedded System	8
		Dr. R. Muralishankar	Speech Processing	3
		Dr. Ramesh	Wireless communication	3
		Dr. M. Mahesh	Power electronics	1
		Dr. Y. V. S. Lakshmi, Dr. Navin Kumar	Telecommunication	2
		Dr. Navin Kumar	Telecommunication	3
		Dr. Sudarshan Rao	Wireless communication	1
		Dr. Kumar Padmanabh	Wireless communication	1

## 19. Publications

### \* a) Publication per faculty

Sl. No.	Name	Number of publications					
		2017	2016	2015	2014	2013	2012
1.	Dr. G. Indumathi		-	-	2	3	3
2.	Dr. Muralishankar		4	4		1	
3.	Dr. Sudhir Kumar Routray	2	8				
4.	Ms. Sharmila K. P.	1	4	4		2	
5.	Mrs. Pappa .M		2	2	2		
6.	Ms. Suganya.S		1	2			1
7.	Ms. Kavitha V			1	5		
8.	Ms. Meena Priya Dharshini			2	2	3	
9.	Ms. Sri Ranjini					3	1
10.	Ms. Sridevi S		1	1	2	1	
11.	Ms. Shilpi Banerjee						
12.	Mr. Sunil Kumar K. H.				2	1	
13.	Mr. Chetan H		1	1	1	1	2
14.	Mr. Harsha B. K.			1	2	1	
15.	Ms. Archana A. N.			1			
16.	Ms. Gowthami				1		
17.	Mr. Naveen Kumar G. N.		1	2	4		
18.	Ms. Nagratna				1		
19.	Mr. Sumit Maheshwari			1	2		
20.	Mr. Mahesh G.				1		
21.	Mr. Veerendra				1		
22.	Dr. Binish Fathima				1		
23.	Ms. T.Ninikrishna		2	2	1		
24.	Ms. Devi Meenakshi .C			1			
25.	Ms. Aritri Ghosh					2	
26.	Mrs. Shailee S			1			
27.	Mr. Abhishek Javali	1	2				
<b>Total:</b>		<b>4</b>	<b>26</b>	<b>24</b>	<b>28</b>	<b>18</b>	<b>7</b>

\*Details are given in ANNEXURE 1

**\* Number of papers published in peer reviewed journals (national / international) by faculty and students:**

No. of publications					
2016	2015	2014	2013	2012	2011
7	12	25	7	6	16

\* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): Nil

\* Monographs: Nil

\* Chapter in Books:

- 1) R. Srikanth, **R. Muralishankar** and A. G. Ramakrishnan, "Wavelet-based Estimation of Hemodynamic Response Function", N. R. Pal et. al. (Eds.): ICONIP'04, LNCS 3316, pp. 1285-1291, Springer-Verlag, Berlin, Heidelberg, 2004
- 2) R. Venkatesha Prasad, S. Vijay, H. N. Shankar and **R. Muralishankar**, "Multi-party Audio Conferencing on Wireless Networks," Book Chapter in Broadband Mobile Multimedia: Techniques and Applications, Yan Zhang, Shiwen Mao, Laurence T. Yang, and Thomas M. Chen (Editors), New York, NY: CRC Press, 2008. ISBN-10: 1420051849; ISBN-13: 978-1-4200-5184-1.
- 3) Jayavardhana Rama G. L., **R. Muralishankar** and A. G. Ramakrishnan (accepted for IASTED Conference-SPPRA, Greece, 2002), Segmentation of speech units into consonant and vowel for concatenative speech synthesis, Biomedical Lab Technical Report, Biomedical Lab, Indian Institute of Science, Bangalore, India, 2002.

\* Books Edited: Nil

\* Books with ISBN/ISSN numbers with details of publishers:

Sl. No.	Name	Title	Publisher	ISBN / ISSN	Year of Publication
1	Prof. Manoj Kumar M B	A practical approach of NS2'	Scholar's press	978-3-639-66451-5	2014
2	Prof. Benjamin Premkumar	"Principles of Wireless Communications"	Pearson Education	978-9-810-67986-6	2004
3	Prof. Benjamin Premkumar	"Principles of Wireless Communications data networks"	Prentice Hall	9-810-67626-3	2006
4	Prof. Benjamin Premkumar	"RNS Number Systems: Theory and Implementation"	Imperial College Publishers UK	ISSN: 1549-8328	2007
5	Prof. Sudhir Kumar Routray	Light Years Away: The Whole Creation at a Glance.	iUniverse, Bloomington,IN	ISBN-059533582829	2004
6	Prof. Sudhir Kumar Routray	Wonders and their Scientific Explanation	Trafford Publishing Bloomington, IN	ISBN-1412029678	2005

\* Citation Index:

Sl. No.	Faculty Name	Citation Index
1.	Dr. Muralishankar .R	212
2.	Dr. Kalaga Venu Madhav	76
3.	Dr. Sudhir Kumar Routray	35
4.	Mr. Veerendra	2
5.	Dr. Binish Fathima	4
6.	Mr. Madhusudan Kulkarni	8
7.	Mr. Satish Mohanty	23
8.	Dr. Nasir Abdul Quadir	86

9	Dr. Amit Jain	35
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\* SNIP: NIL

\* SJR: NIL

\* Impact factor:

Sl. No.	Faculty Name	Impact Factor Range
1.	Dr. Muarlishankar R	1.3
2.	Dr. Amit Jain	0.3-1.7
3.	Mr. Sunil Kumar K. H.	3.115
4.	Mr. Chetan H	2.5-5.8
5.	Mr. Naveen Kumar G. N.	1.002
6.	Mr. Sumit Maheshwari	0.72-2.28
7.	Mrs. Kavitha V	1.252
8.	Dr. G. Indumathi	0-5.90

\* h-index:

Sl. No.	Faculty Name	h-index
1.	Dr. Muralishankar .R	8
2.	Dr. Kalaga Venu Madhav	6
3.	Dr. Sudhir Kumar Routray	4
4.	Dr. Binish Fathima	1
5.	Mr. Madhusudan Kulkarni	1
6.	Mr. Satish Mohanty	3
7.	Dr. Nasir Abdul Quadir	6
8	Dr. Amit Jain	3

\* Patents (Granted/Filed):

- **Dr. R. Muralishankar**, S. Vijay, R. Venkatesha Prasad & H.N. Shankar, "Speech Activity Detection using Order Statistics, US Patent No. 8,380,494, ISSUE date Feb. 19,2013, PCT Pub No. WO2008/090564, PCT Pub. Date: July 31, 2008.
- H. N. Shankar, R. Venkatesha Prasad, S. Vijay and **R. Muralishankar**, "Determining presence of a user in an online environment," Filed International Patent application number PCT/IN2008/000875, with priority date 29/12/2008.

- **Prof. Sumit Maheshwari**, “Method and system for real time collaboration on a canvas”, US Patent application number 14/520,552 published on 22/10/2014
- **Prof. Kalaga Venu Madhav**, “Strain and Temperature Discrimination Using Fiber Bragg Gratings in a Cross-Wire Conguration”, Patent No: US 9,267,854 B2, Date:july 12,2012
- **Prof. Kalaga Venu Madhav**, “Oxygen sensor comprising a tip coated optical fibre with a large diameter UK Patent PCT/EP2015/053328 , CA2939975 A1, WO2015121499 A1, Date: Aug 20, 2015
- **Prof. Kalaga Venu Madhav**, “Optical Gas Sensor”,Patent No: US 20160061784 A1, Date: Mar 10, 2016
- **Prof. Nasir Abdul Quadir**, “Transimpedance amplifier”,Patent No: US 7135932 B2, Publication date:Nov 14, 2006
- **Prof. A. Benjamin Premkumar**, “Residue Number System Based Encoding Circuits for Analog to Digital Conversion, (US Provisional patent, June 2011, US 61/502,869)
- **Prof. A. Benjamin Premkumar**, “A System For Performing A Modular Arithmetic Operation of Input Operands”, Patent Cooperation Treaty, Patent No:WO2013039458 A1, Date: May 21 2013,Application Number: PCT/SG2012/000339, Filing date: 30 Nov 2012
- **Prof. A. Benjamin Premkumar**, “A system for RNS Based Analog-to-Digital Conversion and Inner Product Computation”, Patent Cooperation Treaty, Patent No: US 2014/0139365 A1 , Date: May 22, 2014
- **Prof. A. Benjamin Premkumar**, “Method and Apparatus for Thermometer Code Based Modular Arithmetic Operations”, Patent No: US 61/535,995 Date: 18 Sept. 2011.

## 20. Areas of consultancy and income generated:

Company	Consultancy Type	Description	Amount Sanctioned in Rs.	Sum of all Installments Received in Rs.
Concord United products	Product Development	Controller and GUI development for Wire Cut EDM Machine	5,00,000	1,00,000
Fon Ess India Pvt Ltd	Product Development	Development of MRO Power supply	1,00,000	1,00,000

## 21. Faculty as members in

a) National Committees b) International Committees c) Editorial Boards...

Sl. No.	Faculty Name	Name of the Committee / Editorial Boards	Name of Organization/University	Type of Membership
1.	Dr. G Indumathi, H.O.D.	B.O.E.	Visvesvaraya Technological University, Belgaum, Karnataka	Member BOE VTU 2013-14
2.	Dr. R. Muralishankar	Reviewer	IEEE Symposium on Industrial Electronics & Applications, 2012 Technical Program Committee, IEEE Globecomm, 2012	IEEE MEMBER
3.	Prof. Chetan	Reviewer	IWSNSC, IEEE Conference 2015 IELC, 2015, IEEE Conference	IEEE MEMBER

			2015, TEXAS Instruments, design contest	
			COCONET, IEEE Conference, 2015	
4.	Prof. Kavitha	Reviewer	2015 Annual IEEE India Conference (INDICON)	IEEE MEMBER
			2015 Environmental and Civil Engineering Technology International Conference.	
5.	Prof.Kalaga Madhav	Reviewer	IEEE Photonics Technology letters	
			International Journal of Optomechatronics	
			Progress in Electromagnetic research and Journal of electromagnetic waves and applications	
6.	Prof. Benjamin Premkumar	Reviewer	IEEE Transaction on Circuits and Systems Parts I and II	IEEE MEMBER
			IEEE Transaction on Signal Processing	
			IEEE Transaction on VLSI Design	
			IEEE Signal Processing Letters	
			IEEE Transaction on Computer	
			IEEE Communication Letters	
			Journal of VLSI Signal Processing, Springer Verlag	
			Journal of VLSI Signal Processing System for Signal, Image and Video Technology, Kluwer Publications.	
			Journal of Acoustic Society of America.	
			Journal of Acoustic Society of America.	



		Associate editor	Journal of Circuits, Systems and Signal Processing: Springer Recent Patents on Telecommunications: Bentham Science Publishers	Editorial board member
		Technical sessions chair	IEEE Region 10 Conference ICICI, Singapore ICCS, Singapore	IEEE Member
7	Dr.Sudhir.K.Routray	Reviewer & Session Chair	IEEE-International conference on Recent Trends in Electronics,Information and Communication Technology(RTEICT 2016)	IEEE Member
8	Prof.Sharmila.K.P	Reviewer & Session Chair	IEEE-International conference on Recent Trends in Electronics,Information and Communication Technology(RTEICT 2016)	
9	Prof.Pappa.M	Reviewer	Christ University- Syllabus and Question Bank for Antenna & Propagation Question Paper setter- NHCE	
10	Prof Suganya S	Reviewer	The 7th International Conference Sciences of Electronics, Technologies of Information and Telecommunications (SETIT 2016) Hammamet - Tunisia	

			RTCSE 2017, Malaysia	
			Moderator for Department of Electrical Engg, MSR University	
			Moderator for NHCE ,Bangalore	
			Question Paper Setting, SN Warangal University	

## 22. Student projects:

- a) Percentage of students who have done in-house projects including inter-departmental/ Program:

Sl. No.	Academic Year	Percentage in house	
		UG	PG
1.	2015-16	74.28	80
2.	2014-15	64.7	80
3.	2013-14	42.5	78
4.	2012-13	42.5	74
5.	2011-12	31.25	70

UG:

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies:

Sl. No.	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)	
		UG	PG
1.	2015-16	25.72	20
2.	2014-15	35.3	20
3.	2013-14	57.5	22
4.	2012-13	57.5	26
5.	2011-12	68.75	30

### 23. Awards/ recognitions received by faculty and students:

Sl. No.	Name of the faculty	Name of the Award	Name of Agency	Year
1.	Dr. G Indumathi	Center of excellence	Awarded by DST Government of Karnataka	2012
2.	Dr. R. Muralishankar	IEEE Senior Member	Awarded by IEEE	2013
		Best Paper Award	Awarded by IEEE	2008
		Best Paper Award	Anna University, Chennai	2008
		Felicitation	IEEE-Bangalore Section	2007
		One of the most requested articles published between January-August 2004, in Speech Communication Journal.	<a href="http://www.elsevier.com/homepage/sac/downloads/01676393.htm">http://www.elsevier.com/homepage/sac/downloads/01676393.htm</a>	2004
		Research fellowship for doctoral students	IISC, Bangalore	1998 - 2003
		Swayambu Memorial Award	International Travel Support for Research Students	2002
	Second prize in TMA Pai Student paper Competition	National Conference on Biomedical Engineering, Manipal, Karnataka, India	1998	
3.	Prof. Devi Meenakshi	Best paper Award	National Conference @ East west college of Engineering	2011
4.	Prof. Chetan	Texas Innovation Award-2015	TI-University Program	2015
5.		Best Paper Award-	International conference, BMSCE-Bangalore	2012

6.		Texas Instruments Expert Advisory Panel	Texas Instruments - Bangalore	2015
7.		Robotech design innovations-Mentorship award	IIT- Roorke	2014
8.	Prof. Vidya T. V.	Gold Medal for 1 <sup>st</sup> rank in M Tech. (NITK),2006	ISRO Chairman	2006
9.	Prof. Pradip B.	Gold Medal for 1 <sup>st</sup> rank in M Tech. (NITK),2014	NITK	2014
10.	Prof. Harsha & Prof. Shruthi M L J	Best paper award	IEEE-Coimbatore	2013
11.	Prof. Sunil Kumar K H	Texas Innovation Award-2015	TI-University Program	2015
12.		Robotech design innovations-Mentorship award	IIT- Roorke	2014
13.	Prof. Chetan H Prof. Sunil Kumar K H Prof. Sharana Basappa	Secured First place in Volley Ball competition, conducted college level.	CMR Institute of Technology	2014, 2015
<b>VTU Rank holders</b>				
1.	S.Divya	5 <sup>th</sup> rank (UG)	Visvesvaraya Technological University, Belgaum, Karnataka	Year 2015-2016
2.	Shyam Kumar	2 <sup>nd</sup> rank ((UG Program: 8 <sup>th</sup> semester)		Year 2013-14
3.	Mahesh Gour	3 <sup>rd</sup> rank (M. Tech)		Year 2012-13
4.	Salma Abdul Rehman	3 <sup>rd</sup> rank (M. Tech)		
5.	Vidyashree	2 <sup>nd</sup> rank (UG Program: 8 <sup>th</sup> semester)		
6.	Nivedita	3 <sup>rd</sup> rank (UG Program: 8 <sup>th</sup> semester)		
7.	Lavanya	5 <sup>th</sup> rank (UG Program: 8 <sup>th</sup> semester)		
8.	Shyam Kumar R.	7 <sup>th</sup> rank (UG Program: 5 <sup>th</sup> semester)		
9.	Surabhi	15 <sup>th</sup> rank, (UG Program, 3 <sup>rd</sup> Semester)		Year 2011-12
10.	Shabeeb Ahmed	16 <sup>th</sup> rank (UG Program, 3 <sup>rd</sup> Semester)		

11.	Vidyashree	3 <sup>rd</sup> rank (UG Program, 7 <sup>th</sup> Semester)	Year 2010- 11
12.	Lavanya D.	2 <sup>nd</sup> rank (UG Program, 7 <sup>th</sup> Semester)	
13.	Prgati Kulkarni	1 <sup>st</sup> rank, 4 Gold Medals, (UG Program: 8 <sup>th</sup> semester)	
14.	Sushani Shetty	6 <sup>th</sup> rank (UG Program: 8 <sup>th</sup> semester)	
15.	Manjula C.	2 <sup>nd</sup> rank (M. Tech, DE)	
16.	Umarani G.	3 <sup>rd</sup> rank (M. Tech, DE)	
17.	Vidyashree	2 <sup>nd</sup> rank (UG Program: 6 <sup>th</sup> semester)	

### Students Achievements

The awards received by students at state/national level are mentioned in the table below

S.No	Name of the Student	Title of the Event (any cultural, sports or tech event etc)	Conducted by (any organization)	Award (mention prize won if not mention participated)	Year
1.	Parvathi Asokan	Paper presentation in national conference	-	Presented	2014
2.	Jimcy Babu	Paper published in international journal of enhanced research	-	Published	
3.	Neetha G	Paper presentation in IETE conference	-	Presented	
4.	Parvathi Asokan	Paper presentation in IETE conference	-	Presented	

5.	KekaMukhopadhyay a	Paper presentation in IETE conference	-	Presented	2014 - 2015
6.	Deepak Kumar S	Paper published in International Journal IJIRSET	-	Published	
7.	Rowena Gabriella	Course titled Object Oriented Programming using C++	NIIT, New Delhi	Attended	
8.	Rowena Gabriella	Course titled Programming in C	NIIT, New Delhi	Attended	
9.	Kiran B V	Paper published in International Journal IJAIEM	International Journal IJAIEM	Published	
10.	Adith Harindranath	Cricket Tournament	MS Ramaiah Institute of Technology, Bangalore	Participated	
11.	Ruchitha Kumari	Published paper	International Letters of Chemistry, Physics and Astronomy	Published	
12.	Supritha Nalwad	Published paper	Proceedings of International Conference on Developments in Engineering Research	Published	
13.	Rahul Krishna Chowdary E	Robogenesis , Workshop on Advanced Robotics	AIIESEC Delhi IIT	Participated	
14.	Aishwarya C	Robogenesis , Workshop on Advanced Robotics	AIIESEC Delhi IIT	Participated	
15.	Anirudh A	Robogenesis , Workshop on Advanced Robotics	AIIESEC Delhi IIT	Participated	

16.	Dhivya S	Robogenesis , Workshop on Advanced Robotics	AIIESEC Delhi IIT	Participated	
17.	Adwait Ashish Murudkar	Zonal round of RoboTryst-2014	Robosapiens Technologies Pvt. Ltd. In association with Tryst- 2014 IIT Delhi	Participated	
18.	Archana R	Zonal round of RoboTryst-2014	Robosapiens Technologies Pvt. Ltd. In association with Tryst- 2014 IIT Delhi	Participated	
19.	Nishant Aman	Zonal round of RoboTryst-2014	Robosapiens Technologies Pvt. Ltd. In association with Tryst- 2014 IIT Delhi	Participated	
20.	Sai Ganesh V	17th Intercollegiate Athletic Meet at VTU	VTU, Belgaum	Participated	
21.	Murel Sequeira	App Development during Phase Shift 2016	BMS College of Engineering	Participated	
22.	Adith Harindranath	Avishkar at Srushti	ABVP	Participated	
23.	S Sushmitha	Avishkar at Srushti	ABVP	Participated	
24.	Nirish Patil , Anirudh A	Design contest by EFY	EFY	Stood among first 50 & won Cash Prize, Rs. 5,000/-	2015 - 2016
25.	Adith Harindranath	ESPORTIVO, Inter Collegiate Cricket Tournament	Bangalore University	Participated	
26.	Navya P	Fusion dance at CIT	Cambridge Institute of Technology, Bangalore	Second prize	

27.	Navya P	Group Dance at ESTRALIS 2016	Gopalan Colleges	First prize
28.	Navya P	Group dance at MAGNOVITE'16	Christ University	Participated
29.	Ruchita Kumari	ICE Technology Lab – Certification course	ICE Technology Lab	Participated
30.	Sudhee Naryan Bhat	Indian Engineering Olympiad Exam	LogiQuest, GATE FORUM	Participated
31.	Suman B	Indian Engineering Olympiad Exam	LogiQuest, GATE FORUM	Participated
32.	Suraj N	Indian Engineering Olympiad Exam	LogiQuest, GATE FORUM	Participated
33.	Karthik	Kannada Quiz at UTSAV, BMSCE	BMS College of Engineering	Participated
34.	Ramya Bhagirathi S	Mobile Controlled Robotics at IISc, Bangalore	IISc, Bangalore	Participated
35.	Ruchita Kumari	National Conference Eon Applied sciences and Humanities	KS Group of Institutions	Presented
36.	Keka Mukhopadhyaya	Paper presentation in IETE conference	Paper presentation in IETE conference	Presented
37.	Adarsha M	Paper presentation in national conference(NCCVS-14)	Paper presentation in national conference (NCCVS-14)	Presented
38.	Siddhanth Gaonkar	Proposed Automatic Intensive Damage Detection System	Texas Instruments Innovation Challenge India Design contest	Participated
39.	Rohit Neil Ghosh	Proposed Automatic Intensive Damage Detection System	Texas Instruments Innovation Challenge	Participated



			India Design contest	
40.	Naveen Chengappa Cp	Proposed Automatic Intensive Damage Detection System	Texas Instruments Innovation Challenge India Design contest	Participated
41.	M Shoaib Ahmed	Proposed Automatic Intensive Damage Detection System	Texas Instruments Innovation Challenge India Design contest	Participated
42.	Nishant Vivek	Proposed Automatic Intensive Damage Detection System	Texas Instruments Innovation Challenge India Design contest	Participated
43.	Evelyn Richard	Proposed The Quick and Convenient Way to Keep Yourself Safe	Texas Instruments Innovation Challenge India Design contest	Participated
44.	Hiranmai M	Proposed The Quick and Convenient Way to Keep Yourself Safe	Texas Instruments Innovation Challenge India Design contest	Participated
45.	Lavanya A	Proposed The Quick and Convenient Way to Keep Yourself Safe	Texas Instruments Innovation Challenge India Design contest	Participated
46.	Rekha Mohandas	Proposed The Quick and Convenient Way to Keep Yourself Safe	Texas Instruments Innovation Challenge India Design contest	Participated

47.	Shravya G	Proposed The Quick and Convenient Way to Keep Yourself Safe	Texas Instruments Innovation Challenge India Design contest	Participated
48.	Gaurav Gupta	Robo Feast-2015	Revert Technology and IIT ROORKEE	First Prize
49.	Akritikumari	Robo Feast-2015	Revert Technology and IIT ROORKEE	First Prize
50.	Neil Pais	Robo Feast-2015	Revert Technology and IIT ROORKEE	Participated
51.	Shravya G	Robo Feast-2015	Revert Technology and IIT ROORKEE	Participated
52.	Hiranmai M	Robo Feast-2015	Revert Technology and IIT ROORKEE	Participated
53.	Lavanya A	Robo Feast-2015	Revert Technology and IIT ROORKEE	Participated
54.	Dhivya	Robo Feast-2015	Revert Technology and IIT ROORKEE	Participated
55.	Sai Ganesh V	ROBOFEAST 2015	Revert Technology and IIT ROORKEE	Participated
56.	Anjana M S	ROBOFEAST 2015	Revert Technology and IIT ROORKEE	Participated
57.	Rahul Ramesh	Srishti 2015	ABVP	Participated
58.	Ramya Bhagirathi S	Srishti 2015	ABVP	Participated

59.	Aarthi Nair	TI Analog Design contest	Texas Instruments	First Prize
60.	Bhuvaneshwari Selvan	TI Analog Design contest	Texas Instruments	First Prize
61.	Debaditya Mullick	TI Analog Design contest	Texas Instruments	First Prize
62.	Divya Sampath Kumar	TI Analog Design contest	Texas Instruments	First Prize
63.	Ramy Shree	TI Analog Design contest	Texas Instruments	First Prize
64.	Navya P	UDBHAV'16	MS Ramaiah Institute of Technology	Participated
65.	Karthik T K	UDBHAV'16	MS Ramaiah Institute of Technology	Participated
66.	Ruchita Kumari	Workshop on Fixed Wing Micro Aerial Vehicle at IISc Bangalore	IISc, Bangalore	Participated
67.	Tanushree D R	Yuva Sourabh	Kannada and Sanskrit Department, Government of Karnataka	Participated
68.	Kaushal J N Harshavardhan K Joel Keith Pais	Project- Shristi - 2016	ABVP	Consolation Prize
69.	Chandini Singh Bharath Kumar Akshitha Bhanupriya	Project- Avshkar 2016	ABVP	3 <sup>rd</sup> Prize
70.	Deepika R Vandana C Anjali N	Project-ICT 2016	ABVP	1 <sup>st</sup> Prize
71.	Prashanth Pradeep K Shalu Singh Sindhu M	Project-Shristi 2016	ABVP	3 <sup>rd</sup> Prize

**24. List of eminent academicians and scientists/ visitors to the department:**

Sl. No.	Name of Academicians/ Scientists / Visitors	Name of Company	Designation
1	Prof. N. J. Rao	IISC	Professor
2	Dr. Kadaba R. Lakshmikumar	Fellow, IEEE	Professor
3	Dr. Venkatesh Babu	IISC	Professor
4	Dr. Y. S. Kumarswamy	Dept.of MCA (VTU), Dayananda Sagar College of Engineering	Professor
5	Prof. John.H L Hansen	University of Texas	Professor

**25. Seminars/ Conferences/ Workshops organized and the source of funding:**

Sl. No.	Title	Organizer	Year	No. of Participants	Resource Person	Funding Agency
1.	FDP on LIC with PSPICE	ECE Dept	2016-17	20	Prof Surya V D, Prof. Muralishankar	CMRIT
2.	Quad Copter Workshop	Prof. Sunil Kumar K. H.	2014-15	291	Ravi Kumar, Revert technologies	CMR Jnanadhara Trust
3.	LAB VIEW workshop	Prof. Pradeep B.	2014-15	40	Jiyo Mathew, tridenttechlabs	CMR Jnanadhara Trust
4.	Cadence OrCAD workshop	Prof. Mahesh G.	2014-15	28	Manoj Kumar, Entuple technologies	CMR Jnanadhara Trust
5.	Matlab workshop	Prof. G Indumathi	2013-14	12	Ms. Arpitha, National Instruments	CMR Jnanadhara Trust

6.	1-day Workshop on "Speech Processing and Applications Theme: Monitoring Human Behavior: "Who Said What When and How?"	Prof. Muralishnakar	2012-13	100	Prof. John H. L. Hansen & Dr. Abhijeet Sangwan	CMR Jnanadhara Trust, International Speech Communication Association, Baixas, France, IEEE Signal Processing Society, Bangalore Chapter
7.	National workshop, FDP on Analog Design by Texas Instruments	Prof. G Indumathi	2012-13	30	Prof. K. Radhakrishna Rao, Texas Instruments	CMR Jnanadhara Trust

## 26. Student Profile programme / course wise:

Name of the Course/ Program	Year	Applications Received	Selected	Enrolled		Pass Percentage
				*M	*F	
B.E.	2012-16	138	124	74	50	93.55
	2011-15	138	119	80	39	98.4
	2010-14	139	125	76	49	96.2
	2009-13	120	108	66	42	91.8
MTech (DE)	2014-16	18	12	4	8	83.3
	2013-15	18	11	3	8	100
	2012-14	18	17	9	8	100
	2011-13	18	16	9	7	82.4
MTech (VLSI & Embedded Systems)	2014-16	24	17	7	10	94
	2013-15	24	23	4	19	100
	2012-14	24	24	14	10	100
	2011-13	24	18	7	11	100
Ph.D.	2014-16	15	8	2	6	
	2013-15	15	7	2	5	
	2012-14	6	3	1	2	
	2011-13	5	1	1	--	

\*M = Male \*F = Female

### 27. Diversity of students:

Name of the Course		% of students from the same state		% of students from other States		% of students From abroad	
<b>ECE</b>							
<b>UG</b>	2016-17	72.77		27.22			
	2015-16	68.66		31.33			
	2014-15	70.63		28.90		0.47	
	2013-14	79.42		20.58		--	
	2012-13	70.64		28.57		0.79	
	2011-12	65.55		32.77		1.68	
		<b>DE</b>	<b>VLSI</b>	<b>DE</b>	<b>VLSI</b>	<b>DE</b>	<b>VLSI</b>
<b>PG</b>	2016-17	--	100	--	--	--	--
	2015-16	100	95.23	--	4.77	--	--
	2014-15	100	94.11	---	5.89	--	--
	2013-14	100	86.95	---	13.05	--	--
	2012-13	92.30	91.66	7.7	8.34	--	--
	2011-12	81.25	100	18.75	--	--	--

### 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sl. No.	Year	Type of exam (NET, SLET, GATE, Civil services, Defense services, etc.)	No. of students appeared
1.	2016-17	GATE	3
2.	2015-16	GATE/CAT/(MAT/GMAT)/IES	35/12/6/1
3.	2014-15	GATE/ISRO	2/2
4.	2013-14	GATE	3
5.	2012-13	GATE	2

### 29. Student Progression:

Student Progression	Against % Enrolled					
	2008-11	2009-12	2010-13	2011-14	2012-15	2013-16
UG to PG	7.8	8	8.1	24.8	10.1	16
PG to M. Phil.	----					
PG to Ph.D.	2008-11	2009-12	2010-13	2011-14	2012-15	2013-16
	--	1	1	1	--	--
Ph.D. to Post-Doctoral	----					
Employed	2008-11	2009-12	2010-13	2011-14	2012-15	2013-16
•Campus selection	78.1	68.14	69.7	57.3	75.00	62.66
•Other than campus recruitment	11.5	14.56	17.4	31	11.9	12.12
Entrepreneurship / Self-employment	2008-11	2009-12	2010-13	2011-14	2012-15	2013-16
	1	1	1	-	-	-

### 30. Details of Infrastructural Facilities:

#### a) Library:

Sl. No.	Area	No. of books	No. of mono graphs	No. of CDs	No. of journals	No. of reports	*Misc
1.	19SqMtr.	3540	817	20	101	50	1) Magazines: 30 2) Syllabus: VTU 3) Scheme and solutions for all semester, all subjects

*\*includes syllabus, Question Papers, Magazines, Newsletters.*

\*Department level e-newsletter is published as a part of club activities for students.

#### b) Internet facilities for Staff & Students:

- The college has Internet connectivity of 40 Mbps broadband (Bell Tele

services) Metronet and fiber enabled connectivity and 35 access points for Wireless connectivity. Internet facility is provided for both students and staff. Staffs are provided with CMRIT login credentials to access their account.

- Wi-Fi enabled campus

c) Class room with ICT Facility:

Sl. No.	Room No.	Shared / Exclusive	Area in Sqmts	Teaching aids
1.	EC – LH-301	Exclusive	90	Multimedia Projector, OHP Projector
2.	EC-LH-302	Exclusive	90	Multimedia Projector, OHP Projector
3.	EC – LH-303	Exclusive	90	Multimedia Projector
4.	EC – LH-304	Exclusive	90	Multimedia Projector
5.	EC – LH-305	Exclusive	90	Multimedia Projector
6.	EC – LH-306	Exclusive	90	Multimedia Projector
7.	LH-1	Exclusive	90	
8.	LH-2	Exclusive	90	
9.	LH-3	Exclusive	90	
10.	LH-4	Exclusive	90	
11.	LH-5	Exclusive	90	
12.	CIV-403	Exclusive	90	Multimedia Projector
13.	CIV-404	Exclusive	90	Multimedia Projector
14.	CIV-405	Exclusive	90	Multimedia Projector
15.	Seminar Hall	Exclusive	Seating capacity 100	Multimedia Projector, Podium, Air conditioned
16.	MTech classroom EC – LH-307	Exclusive	90	Multimedia Projector



## d) Laboratories:

Sl. No.	Name of the lab	Capacity in number/area in sq mts	Rooms equipped	Investment
1.	Analog Electronics	110	CRO, Power supply Dual, Power supply single, Signal Generator, Pulse generator, DSO, Servo voltage stabilizer DRB, DCB, DIB	9,81,225/-
2.	Logic Design / Microcontroller	110	systems:23, kit: digital ic trainer kit, IC Tester, software keil, flash magic, side51, 8051 microcontroller kit, MSP 430 Evaluation kit, CRO	18,08,400/-
3.	HDL / DSP Lab	110	systems:27, software: xilinx, model sim (all the pc's), kits: FPGA development boards, CPLD and FPGA daughter boards, PGLA, signal generatror, dso, kits: dsp kits, speakers, mike, DSO, Signal Generators, Printer	27,92,820/-
4.	AC & Advanced Communication Lab	120	DSO, Signal Generator, Fixed Power supply, CRO, IC Tester, LabView, OFC Kit, QPSK Mod/Demod, DPSK mod/Demod, BPSK/DPSK/DEPSK Kit, Microwave Test Bench, VSWR Meter, Microwave Source, Power Supply, Antennas (Yagi Dipole Patch Horn), PCM Kit, PCs, IC Tester, CRO, Pulse generator, IC Tester, Microwave devices, Soldering/Desoldering station, Fixed Power supply, LabView, Servo voltage stabilizer	24,97,020/-

5.	Microprocessor & VLSI	100	no of systems:26 software used: masm, als PCI cards installed: 24 pc's kits: keyboard / display, printer, adc, dac, logic controller, graphic card, n/w card: installaed in all the system software: cadence software cadence (installed in all the systems)	22,27,980/-
6.	Power Electronics	120	dso, microcontroller kits, proximity sensors, dc motor, universal motor, computer systems-12 no., single phase ac motor controller, firing circuit module, power circuit module, second order system module, etc.	15,16,475/-
7.	MTech	50	no of systems:18, xilinx, arm kit server: cadence, software orcad, xilinx, kits: CPLD/FPGA, Development board	37,14,172/-
8.	Research Lab	50	Refer Annexure-2	

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Year	No of students receiving financial assistance
2016-17	232
2015-16	60
2014-15	96
2013-14	28
2012-13	12

Scholarship Details for Last Four Years: Dept. of ECE												
Sl. No.	Name of the Institutional Organization	Details	2016-17		2015-16		2014-15		2013-14		2012-13	
			No. of student	Amount in Rs.	No. of	Amount in Rs.	No. of	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.
1.	Social Welfare	SC / ST	10	4,27,760	53	10,74,550/-	17	6,91,860/-	--	--	--	--
2.	Backward Classes	OBC	161	29,47,250	--	--	37	6,69,330/-	3	99610/-	--	--
3.	Directorate of Technical Education	Defence	1	31,545	1	26,445/-	13	4,68,630/-	15	6,01,790/-	--	--
4.	Samaja Kalyan Dept	BCM -other state	-	-	--	--	17	6,91,860/-	--	--	--	--
5.	Taluk Samaj		52	2462300	2	85,420/-	--	--	--	--	--	--
6.	CMR Jnanadhara Trust	CMR Merit Scholarship	8	80,000	--	--	9	90,000	8	80,000	10	1,00,000
7.	City Municipal Council	Merit cum sanction fee conse tion			1	6,000/-	--	--	--	--	--	--
8.	Bangalore urban BBMP block	Merit cum sanction fee conse tion			--	--	1	5000/-	--	--	--	--
9.	CMR Jnanadhara Trust	Frees hips (free seats)			3	4,50,000/- per year	2	2,75,000/- per year	2	2,64,000/- per year	2	2,64,000/- per year

### 32. Details on student enrichment programmes (special lectures / workshops /Seminar) with external experts:

Sl. No.	Name of the program	Guest Speaker	Company Name	Date	No of Students participated
<b>Year 2012-13</b>					
1.	National Robotics Championship	Ritesh Shah	ARK Technosolutions	30-31/03/2013	1
2.	Machine building and robotics	-----	EVOBI automations	15/2/2013	45
3.	Web Technologies	Mr. Nelson Don	Sungard	02/11/2012	70
4.	Embedded Systems	Dr. Muthuveerapan	LRDE labs	17/10/2012	53
5.	Air Bourne RADAR System	Mr. Gopalkrishna	LRDE labs	3/10/2012	55
6.	Seminar by Srinivas	Mr. Srinivas	LAN switching system	13/09/2012	130
<b>Year 2013-14</b>					
1.	Omnipresent Telecom networks	Mr. Ravikiran Annaswamy	IEEE, Bangalore	2/04/2014	10
2.	Mock Interview and group discussion	Mrs. Bhvaneshwari Panda	Omam consultants private limited	22/03/2014	42
3.	Workshop MATLAB Simulink	Ms. Arpita	Cranes software international limited	10-12/03/2014	36
4.	BSNL Gold Certification	-----	BSNL	February 2014 (Every Thursday)	3
<b>YEAR 2014-15</b>					
1.	Data mining	Prof. Kavitha. K. S	Anna University	07/05/2015	60

2.	Animated information Visualization	Dr. Paul Craig	XILTU, China	27/04/2015	98
3.	Cadence OrCAD workshop	Mr. Manoj Kumar	Entuple technologies	16-17/01/2015	28
4.	Spoken Tutorial-C/C++ workshop	Mr. Ranjan Kumar	IIT, Bombay	13/10/2014	19
5.	Robofeast-Quadcopter workshop	Mr. Ravi Kumar	Revert Technology	17-20/09/2014	59
6.	Workshop on SDN	Mr. Anuj Goel	IEEE Bangalore section	22-23/08/2014	02
<b>YEAR 2015-16</b>					
1.	Web Technology Workshop	Amit Roushan	PLAYO	23/03/2016	43
2	Seminar on How to approach a Project	Balaji Agoram	Wipro	19/03/2016	58
3	Seminar- Java, J2EE and RTOS	Mr. Bagwan Prasad	Aura Networks	02/03/2016	32
4	PREPARE Program	Mr. Ananth P Mallya	Quan Tech	Feb 2016	119
<b>YEAR 2016-17</b>					
1	PREPARE Program	TIME	TIME	Feb 2017 -	115

### 33. Teaching methods adopted to improve student learning:

The faculty members aim to deliver their lectures in an effective manner to enrich the knowledge of the students community. Some of the innovative teaching methodologies adopted are:

- Power point presentations which includes presentation of videos for understanding of few topics/ Black board Teaching.
- Lab Instruction sessions for the practical experience with respect to Lab oriented subjects
- Lab Refinement Committee (LRC) has been formed with the aim of monitoring the quality of lab conduction.

- Additional projects and publications based on the projects exist, which helps students to perform innovatively and can be motivated for further research blend.
- 'Analog and Digital Design Lab' has been introduced in order to improve the technical competency and logical thinking for further placement process.
- Expert lectures and workshops are organized by the respective faculty to bridge the gap between the curriculum and industry requirements.
- Individual faculty web pages are created.
- Intensive coaching Programme (ICP) classes are being conducted for the weaker students who are identified through their Internal Assessment test performance.
- Remedial Classes have been conducted for the failed students in the following semester to help them pass the subjects.
- Tutorial classes are provided for analytical courses in every semester as per the scheme
- Industry sponsored projects
- Seminars, lectures
- Home assignments
- Pairing intelligent and dull student

#### **34. Participation in institutional social responsibility (ISR) and extension activities:**

- Flood relief camp
- Blood donation camps.
- Technical service to the society
  - Some of the projects carried out by the students are useful for the betterment of the society like
    - Dynamic control of traffic signals.
    - Security services
    - Home automation
    - Projects to help physically challenged and AUTISTIC children.
    - Women security
    - Computers and furnitures are donated to various government schools.

### 35. SWOC analysis of the department and Future plans:

<b>Strength</b>	<b>Weakness</b>
1) Good Infrastructure 2) Well equipped labs 3) Good R&D activity 4) Well qualified and adequate staff 5) Best practices for better teaching. 6) Academic performance 7) Library resources 8) College support to Faculties for qualification improvement.	1) Non Conducting of Continuing Education Programs (CEP's) and non participation in CEP's 2) Skill improvement training for technical staff. 3) Lack of good number of publications in peer reviewed journals.
<b>Opportunities</b>	<b>Challenges</b>
1) Industry interaction 2) Conduction of skill oriented training. 3) Expert lectures on advanced topics 4) Placement and career guidance for students 5) Skill oriented training for students.	1) Proposals for funding from agencies. 2) Internship and projects from Industries 3) Inviting companies for placement.
<b>Future plans</b>	
1) Establishment of Industry supported labs 2) Collaborative research with different Research Labs 3) Strengthen Industry interaction 4) Additional activities in Research Centre 5) Overall Quality improvement such that the department will be recognized as one of the best department in our country.	

### Annexure 1

<b>Details of Research Publications_2012</b>					
<b>Sl. No.</b>	<b>Faculty Name</b>	<b>Type of Publication</b>	<b>Name of Journal</b>	<b>ISBN No.</b>	<b>Month</b>
1	Dr Indumathi G, Mr Tyson Thomas, Mr Vivek and Mr Samridh	International	Presented in International conference on Evolutionary Trends in Information Technology	ICETIT 2012	October
2	Dr Indumathi G, Mrs Priyadarshini M P and Mr	International	Proceedings of international conference on Radar,	ICRCC 2012	December

	Pradeep Kumar G		communication and computing		
3	Mrs Sreeranjani, Mrs Gowri	Femtocell, National	Proceedings of National Conference on Frontiers of Computer science and Technology (FCST-12),		February 14-15
4	Mrs Suganya	Interfacing an Ultra High Speed ADC to a Low cost FPGA National	Proceedings of National Level Technical Symposium (Technovision) in Bandari's Group of Institutions,	Proceedings of National Level Technical Symposium (Technovision) in Bandari's Group of Institutions,	March 17-18
5	Dr G Indumathi, Mrs Priyadarshini M P	International	Published in Bonfring International Journal	ICET, ISSN: 2250-1053	December
6	Mr Chetan H, Mr Prabhakar Nelaweni	International	<i>Presented International paper held at Mysore (ICEEE Conference-2012 –Mysore) on the topic "Parallel Architecture for fast image processing".</i>		April
7	Mr Chetan H, Mr Sandeep	National	<i>Presented National level Paper at conference held at New Horizon College, Bangalore 2012 on the topic "Gradient Calculation for Edge Detection</i>		April



			Using Prewitt's Operator".		
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Details of Research Publications_2013						
Sl.No.	Faculty Name	Type of Publications	Title of Paper	Presented at /Journal	ISBN No.	Month & Year
1	Mrs P. Meenapriya Darshini	International	Review of Data Transmission	Presented at international conference of Electrical, Electronics and Electronics and Data communications	PUN EED C-1301-027	13th Jan
2	Mrs Sreeranjani N.Y, Mr Saravanan Nagesh	National	Embedded Microcontroller Based Remote Controlled Robot Using DTMF	Symposium on Recent Advances in Telecommunications Technologies		Feb -11 - 12
3	Dr. G. Indumathi, Mrs M.P. Priyadarshini	International	Buried object Discrimination in a ground Penetration radar Radargram	Bonfring International Journal of Advances in Image Processing	ISSN 2277	Mar-13
4	Dr H.N Shankar, Dr R. Muralishankar	International	Recognition of Boundaries between Silence and speech	Proceedings of the International Conference on Pattern Recognition Applications and Techniques	ISBN 978-1-25-905849-3	Mar-13
5	Mrs Ramyashree J & Mrs Meena Priyadarshini	International	Wave-Pipelined Circuit Using bist	International conference on Electronics and communication Engineering	ISBN: 978-93-8158-89-05	24th April

6	Mrs Nagalakshmi G.V, Mr Mahadev, Dr Ramesh	National	Burst Modems for frequency agile Radios	DBIT, Trends in VLSI Design & Technology		2-4May
7	Dr Indumathi, Mr Sathish N, Mr Monoj Bug	National	Digital Pulse Processing and pulse Height Spectrum in X-Ray Spectroscopy using FPGA	DBIT, Trends in VLSI Design & Technology		2-4May
8	Mrs Sreeranjani N.Y, Mrs Shweta Dinnimani, Mrs Lakshmi.T	National	Implementation of fiber Channel Avionics environment Anonymou s Subscriber messaging protocol and Testing	International Journal of Enhanced Research in Science, Technology and Engineering	ISSN 2319-7463	3rd may
9	Mrs Rutuja Kulkarni, Mrs Puja Kumari, Mr Fahirudeen Ali Ahmed	State	Automating P1500 Wrapper Creation for System on Chip	SAMYOG-State level Student Technical symposium		10th&11th May
10	Mr Sunil Kumar.K.H, Ms Monisha. H.S	National	FPGA realization of Image Compression using Folded Lifting 2D-DWT	National Conference on Current Trends in Computer Science & Engineering - CSECONF2013		8th june
11	Mrs Veena H.N, Mrs Aritri	National	Time-Multiplexed online Checking	National Conference on Current Trends in Computer Science		8th june

				& Engineering - CSECONF2013		
12	Mrs Pooja Wadepelli, Mrs Aritri Ghose		Research and Implementa tion of speaker recognition Algorithm based on FPGA			
13	Mr Anil Kumar H.R, Mrs Sree Ranjani	Internatio nal	High Throughput NoC Interface Design for On chip Communic ation with Advanced Functionali ties		ISSN: 2250- 1371	10-Jun
14	Dr. G. Indumathi, Mr Khashif Ahmed	Internatio nal	A Multi- Agent Based Thermal Aware Task migration Scheme in Multi-core Systems	International journal of Innovative research & studies	ISSN 2319- 9725	23-Jul
15	Mrs Shruthi M.L.J, Mr Harsha B.K	Internatio nal	Non- Parametric histogram based Skin Modeling for Skin Detection	International Conference on computation Intelligence and computing research	978- 1- 4799	Dec26-28
16	Mr Chetan H, Ms Sunitha	Internatio nal	Implementa tion of image segmentatio n on FPGA	Proceedings of International conference at Don Bosco,		April

<b>Details of Research Publications _ 2014</b>
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Sl. No.	Faculty Name	Type of Publications	Title of Paper	Presented at /Journal	ISBN No.	Month & Year
1	P. Meena Priya Dharshini	International	Adaptive Reliable Co-operative data Transmission Technique for wireless Body Area network	Fourth International Conference on Information Communication & Embedded systems	978-1-4799-3834-6	27th & 28th feb
2	Kavitha V, Parvathy	International	Techniques for Custom Instruction Generation: A survey	International journal of Enhanced research in Science Technology & Engineering	ISSN:2319-7463	Apr-14
3	Kavitha V, Parvathy	International	Survey on Methods to reconfigure the Instruction Set Processors	International journal of Engineering Research & Technology	ISSN:2278-0181	Apr-14
4	Kavitha V, Jimcy Babu	International	A Survey On Technique to increase Instruction Level Parallism	International journal of Enhanced research in Science Technology & Engineering	ISSN:2319-7463	Apr-14
5	Dr Indumathi G, Mahesh S Gour	National	Implementation of Cloud Detection Followed By DWT Based Compression For Satellite Onboard Application	National Conference on Technological Advances in Electronic Systems Design		25th & 26th April
6	Dr Indumathi, Reshma R.K	International	Design and characterization of Analog Blocks	International journal of Engineering Research & Technology	ISSN: 2278-0181	5th May
5	Kavitha V, Parvathy	National	An Investigation on Processors	National Conference on Design		05-May

			Based on the Dispatch Time Curtailment	Innovation for 3C's Compute-communicate-control		
6	Kavitha V, Parvathy	National	MRPSoC	National Conference on Design Innovation for 3C's Compute-communicate-control		5th May
7	Sunil Kumar	National	FPGA Implementation of Advanced Hardware Architecture for Denorsing	National conference on Communication & Image Processing - NCCIP-14		9th May
8	Sridevi S, Bharat GS	National	FPGA Implementation of Efficient NOC Communication	National Conference on Advanced Communication, VLSI Design & Signal Processing		15th May
9	P. Meenapriya Darshini, Adarsha	National	Implementation of Error Resilience Video Transmission over Noisy Channel Using Wimax	National Conference on advanced Communication, VLSI Design & Signal Processing		15th May
10	Sridevi S, Prashant	International	Techniques for correlation in Neural Networks	International Journal of Engineering Research & technology		31st May
11	Sunil Kumar K H, Kiran B V	International	Hardware Efficient Mean Shift Clustering Algorithm Implementation on FPGA	International Journal of Application or Innovation in Engineering & Management (IJAIEM)	ISSN 2319 - 4847	May-2014

12	Chetan H	International	Implementation of zigbee network to wireless telecomm and telemetry system for satellite communication	International conference on electrical electronics and communication , published at IJEEER and American journal of Engineering research	ISSN(Print): 2250-155X	21st June
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Details of Research Publications _ 2015						
Sl. No	Faculty Name	Type of Publications	Title of Paper	Presented at /Journal	ISBN No.	Month & Year
1	T. Ninikrishna	International	1-Wire Communication Protocol for debugging MODEM chipsets	Conference / Springer Book series	DOI 10.1007/978-81-322-2553-9_49	Aug 2015
2	T. Ninikrishna	International	An Easy Way to Design And Analyze A Microstrip Low Pass Filter Using Ads Forx-Band	International Journal of Advance Engineering and Research Development, @ IJAERD-2015	e-ISSN(O): 2348-4470 p-ISSN(P): 2 348-6406	Apr-2015
3	Devi Meenakshi. C	International	Design of high speed 64 bit MIPS soft core processor	Journal / IJEEEE	ISSN:2348-4748	May-2015
4	Harsha B. K.	International	Reversible logic implementation of effective RC4 stream	Conference / International association of Engineering and Technology	ISSBN:978-1511881-065	Jun-2015

			cyper algorithm			
5	Naveen Kumar G.N	International	Design and Simulation of Optimized colour Interpolation processor for Image and Video Application	Journal / International journal for scientific research & development	ISSN:2321 0613	May-2015
6	Naveen Kumar G.N	International	Design and implementation of pulse-shaping FIR interpolation filter using BCSE algorithm	Journal / International journal for scientific research & development	ISSN:2278-0181	May-2015
7	Dr. Muralishankar	International	Differential entropy driven goodness of-Fit test for spectrum sensing	Conference / CROWNCOM 2015, Doha, Qatar		April-2015
8	Nawandhar, Archana A.	International	Image segmentation using thresholding for cell nuclei detection of colon tissue	Advances in Computing, Communications and Informatics (ICACCI), 2015		Aug 2015
9	Dr. Muralishankar	International (Conference)	Speech Enhancement using Discriminative Random Fields	TENCON 2015		Nov 2015

10	Dr. Muralishankar	International (Conference)	Channel model characterization and validation in a powerline communication system	National conference on emerging trends in engineering & technology and applied research		July 2015
11	Dr. Muralishankar	International (Conference)	Voice Chat Using Broadband over Power Line : A Step Towards Multimedia Communication Over Power Line	National Conference on Emerging Trends in Engineering & Technology and Applied Research		July 2015

Details of Research Publications _ 2016						
Sl. No	Faculty Name	Type of Publications	Title of Paper	Presented at /Journal	ISBN No.	Month & Year
1	Dr. Muralishankar R	International (Journal)	Spectrum Sensing for Cognitive Radios through Differential Entropy	EAI Endorsed Transactions on Cognitive Communications		April 2016
2	Dr. Muralishankar R	International (Conference)	Spectrum sensing in the presence of Cauchy noise through differential entropy	IEEE Discover 2016	978-1-5090-1623-5	Aug 2016
3	Dr. Muralishankar R	International (Conference)	Adaptive attitude control of the spherical drone on SO(3)	IEEE Discover 2016	ISBN: 978-1-5090-1623-5	Aug 2016



4	Dr. SudhirRoutray	International (Conference)	Optical Performance Monitor Placement Using Link Statistical Model	5th IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT)		May, 2016
5	Dr. SudhirRoutray	International (Conference)	Green Initiatives in 5G	2nd IEEE International Conference on Advances in Electrical, Electronics, Information, Communication and Bioinformatics (AEEICB)		Feb, 2016
6	Dr. SudhirRoutray	International (Conference)	4.5G: A Milestone Along the Road to 5G	5th IEEE International Conference on Information, Communication and Embedded Systems (ICICES)		Feb, 2016
7	Pappa. M	International (Journal)	Performance comparison of massive MIMO & conventional MIMO using blind channel estimation technique	International Journal of Innovative Research in Computer and Electronics Engineering	2320-9801	April, 2016
8	Pappa. M	International (Conference)	Implementation Challenges in massive MIMO	IEEE-RTEICT 2016		May 2016
8	Sridevi S	International (Conference)	Inverse Encryption and secure Data Hiding under a noisy channel	International Conference on Computers, Communications, Control and applied Science	2347-2820	May 2016
9	Suganya S	International (Journal)	Fast moving object detection and recognition in Surveillance Videos	International Journal of Innovations in Engineering and Technology	2319-1058	June 2016

10	Chetan H	International (Conference)	Low Power VLSI implementation of Data Compression for Multimedia Devices using CDF m/n DWT Reconfigurable Memories	IEEE-INDIACom 2016	978-93-80544-20-5	March 2016
11	T Ninikrishna	International (Conference)	A framework for integrating IOT and SDN using proposed OF-enabled Management Device	IEEE-ICCPCT 2016		March 2016
12	T Ninikrishna	International (Conference)	An Approach to efficient network Design and Characterization using HDN and Hadoop	IEEE-ICCPCT 2016		March 2016
13	Dr. Sudhir Kumar Routray	Journal	CE-Driven Trends in Global Communications	IEEE Communication Electronics Magazine, (vol 6, No. 1) Jan-2017		Dec 2016
14	Dr. Sudhir Kumar Routray	International Conference	Link Statistical Pattern for Undersea Communication Networks	Springer/ICIECE 2016		July 2016
15	Dr. Sudhir Kumar Routray	International Conference	Analysis of Statistical Patterns in Multihop Cellular Networks	Springer/ICIECE 2016		July 2016
16	Dr. Sudhir Kumar Routray	International Conference	Statistical Analysis and Modeling in Communication Networks	ICATccT - 2016)		July 2016
17	Dr. Sudhir Kumar Routray	International Conference	“Software Defined Networking for	Discover-2016		August 2016

			Optical Networks”			
18	Dr. Sudhir Kumar Routray	International Conference	Stalling speeds in core networks:Revisiting Keck's law	ICICT 2016		August 2016
19	Mrs. Sharmila K P	International Conference	4.5G:A Milestone Along the Road to 5G	ICIES-2016		Feb 16
20	Mrs. Sharmila K P	International Conference	Proximity Services based Device-to-Device Framework Design for Direct Discovery	AEEICB16		Feb 16
21	Mrs. Sharmila K P	International Conference	Green Initiatives in 5G	AEEICB16		Feb 16
22	Mrs. Sharmila K P	International Conference	Sidelink based D2D Communication in LTE-A	4th national conference on Design Innovations for 3Cs		April 16
23	Mrs. Sharmila K P	International Conference	RRC and MAC Call Flow Procedures for D2D Communication through sidelink in LTE-A	RTEICT -2016		May 2016
24	Mr. Abhishek Javali	International Conference	Optical Performance Monitor Placement in OTNs Using Link Statistical Model"	RTEICT-2016		

Sl. No	Faculty Name	Type of Publications	Title of Paper	Presented at /Journal	Month & Year
1	Dr. Sudhir Kumar Routray	International	Software Defined Networking for 5G	IEEE ICACCS	Jan 2017
2	Dr. Sudhir Kumar Routray	International	Latching onto Keck's law: Maintaining High speed trends in optical communication	IEEE ICACCS	Jan 2017
3	Mrs.Sharmila K P	International	Software Defined Networking for 5G	IEEE ICACCS	Jan 2017
4	Mr. Abhishek javali		Latching onto Keck's law: Maintaining High speed trends in optical communication	IEEE ICACCS	Jan 2017

### Annexure 2

Details of Project & Research Lab - 2014				
Department of Electronics & Communication Engineering				
Sl. No.	Particulars	Location	Type of Funding	Month & Year of Purchase
1	Computer System (DELL)	312 - R&DLab	CMRIT	2007
2	Computer System (HP)	312 - R&DLab	CMRIT	2005
3	CRO - 30MHz Scientific - HM203G	312 - R&DLab	CMRIT	2003
4	Universal Development Kit (With FPGA & CPLD Daughter Board)	312 - R&DLab	CMRIT	2003
5	ASLKV2010 Starter Kit -(Texas Instruments) (Texas Complimentary)	312 - R&DLab	CMRIT	2007
6	ASLKV2010 Starter Kit -(Texas Instruments) (Texas	312 - R&DLab	CMRIT	2010

	Complimentary)			
7	ARM 7 Evaluator 7T (HBI-0062B) (VTU Complimentary)	312 - R&DLab	CMRIT	2007
8	Lab View Software V7.1 (VTU Complimentary)	312 - R&DLab	CMRIT	2005
9	Lab View Software V8.0 (Upgradation) (VTU Complimentary)	312 - R&DLab	CMRIT	2006
			CMRIT	
<b>Equipment Purchased Under Grant (VGST_AV)</b>				
10	Computer System (Lenovo)	312 - R&DLab	VGST_AV	2012
11	Computer System (Lenovo)	312 - R&DLab	VGST_AV	2013
12	Digital Signal Generator 2MHz (Hiranki)	312 - R&DLab	VGST_AV	2013
14	DSO 50MHz (GWINSTEK-GVS1052U)	312 - R&DLab	VGST_AV	2013
15	Hp Colour Laser Jet Printer (All in One - CM1415fn) CNF8BB511H	312 - R&DLab	VGST_AV	2011
16	Projector OHP (Focus-JP5000E)	312 - R&DLab	VGST_AV	2011
17	Projector LCD (SONY-VBI EX100)	312 - R&DLab	VGST_AV	2011
18	UPS 5KVA (Static Converter, Batteries-16, Battery Stand)	312 - R&DLab	VGST_AV	2012
19	Television (LED- LW5700)	312 - R&DLab	VGST_AV	2012
20	DVD Blue Ray (LG - BD550)	312 - R&DLab	VGST_AV	2012
21	Air Blower (Black Decker - KTX4000)	312 - R&DLab	VGST_AV	2013
22	Amplifier (Yamaha - AX 497) Y258218RT	312 - R&DLab	VGST_AV	2012
23	Loud Speaker	312 - R&DLab	VGST_AV	2012
24	Audio Mixer (Yamaha) Allen & Heath	312 - R&DLab	VGST_AV	2012
25	Microphone with Stand (Shure PG81)	312 - R&DLab	VGST_AV	2012
26	Transreceiver Shure P12-5211	312 - R&DLab	VGST_AV	2012
27	Wireless Microphone (Shure-SVX1 P12)	312 - R&DLab	VGST_AV	2012
28	Audio Recorder (SONY-ICDUX512F/SC)	312 - R&DLab	VGST_AV	2011
29	Digital Camera (SONY-DSC-W570)	312 - R&DLab	VGST_AV	2011

30	Handy Camera (SONY-HDR-CX 110)	312 - R&DLab	VGST_AV	2011
31	Multimeter-Digital (BEETECH 901-I)	312 - R&DLab	VGST_AV	2013
32	Multimeter-Digital(MS8222H)	312 - R&DLab	VGST_AV	2013
33	Server Rack	312 - R&DLab	VGST_AV	2011
34	Server IBM X3650M3 2u	312 - R&DLab	VGST_AV	2011
35	Monitor for IBM Server (Lenovo)	312 - R&DLab	VGST_AV	2011
36	KeyBoard for IBM Server (Lenovo)	312 - R&DLab	VGST_AV	2011
37	Mouse for IBM Server (Lenovo)	312 - R&DLab	VGST_AV	2011
38	Network switch for IBM Server	312 - R&DLab	VGST_AV	2011
39	Vertex 5 FPGA Board (Xilinx Make-XUPV5-LX110T Evaluation Platform)	312 - R&DLab	VGST_AV	2011
40	Altium Nano Board - 2 [NB2] with Digital Camera (Sony-DSC-W510)	312 - R&DLab	VGST_AV	2012
41	Lab View Software with USB Kit (NI USB 513)	312 - R&DLab	VGST_AV	2012
42	External DVD Drive (Lenovo)	312 - R&DLab	VGST_AV	2012
43	External Hard Disc (WD-500GB)	312 - R&DLab	VGST_AV	2012
44	Code Composor Studio ver3.3 CD	312 - R&DLab	VGST_AV	2011
45	4 Channel Audio Daughter Card	312 - R&DLab	VGST_AV	2011
46	AD-DA Multi Channel Daughtor Board	312 - R&DLab	VGST_AV	2011
47	Image Daughter Board with CCD Camera & Adopter	312 - R&DLab	VGST_AV	2011
48	NI Elvis Board	312 - R&DLab	VGST_AV	2013
49	NI USB 6351	312 - R&DLab	VGST_AV	2013
50	NI Elvis II Prototyping Board with Camera & Lens	312 - R&DLab	VGST_AV	2013
51	Mx6 Quad Development Board CMR-ARM Cortex A9 Processor	312 - R&DLab	VGST_AV	2013
<b>Equipments Purchased Under Grant (AICTE MODROB)</b>				
52	DSO 100MHz (Textronix TDS2012B)	312 - R&DLab	AICTE MODROB	2010
53	Intelligent Universel Programmer (ESA-IUP-UXP)	312 - R&Dlab	AICTE MODROB	2010
54	Bloom with DSP (CD)	312 - R&Dlab	AICTE MODROB	2010

55	Matlab-Simulink V-2010a (Software)	312 - R&Dlab	AICTE MODROB	2010
56	Beagle Board OMAP3 with Accessories	312 - R&Dlab	AICTE MODROB	2010
57	DSP-01: Spartan III based DSP in VLSI protoboard	312 - R&Dlab	AICTE MODROB	2010
58	ARM 7 Trainer Kit Philips LPC2148	312 - R&Dlab	AICTE MODROB	2010
59	Miniarm Evaluation board with LPC2148 with USB	312 - R&Dlab	AICTE MODROB	2010
60	MINIP General Purpose Evaluation Board with P89V51RD2FA	312 - R&Dlab	AICTE MODROB	2010
61	ARM - JTAG - Serial Port Cable	312 - R&Dlab	AICTE MODROB	2010
62	SCARM C-Compiler for ARM 7 with Debger	312 - R&Dlab	AICTE MODROB	2010
63	4 x 4 Matrix Key Board	312 - R&Dlab	AICTE MODROB	2010
64	LCD Display	312 - R&Dlab	AICTE MODROB	2010
65	Simple Digital I/O Card	312 - R&Dlab	AICTE MODROB	2010
66	E-Linux Board Kit with Accessories	312 - R&Dlab	AICTE MODROB	2010

## Electrical and Electronics Engineering

1. **Name of the Department: Electrical and Electronics Engineering (EEE).**
2. **Year of Establishment: 2002.**
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., PH.D., Integrated masters; Integrated Ph.D., etc.)**

The following programmes are offered in the Department of EEE-

Programme	Course	Affiliated University	Year of Establishment	Initial Intake	Present Intake
UG	B.E – EEE	Visvesvaraya Technological University (VTU), Belgaum, Karnataka	2002	60	120
Doctoral	Ph.D – EEE		2014	8 Scholars / Guide	

## 4. Names of interdisciplinary courses and the departments/units involved

The following interdisciplinary courses and the departments involved are listed below.

Semester	Name of the Course / Subject	Departments Involved
III & IV	Engineering Mathematics (10MAT31,10MAT41)	Math's Department
III	Analog Electronic Circuits (10ES32)	ECE/TCE
III	Logic Design (10ES33)	ECE/TCE
IV	Micro Controllers (10ES42)	ECE/TCE
IV	Field Theory (10EE44)	ECE/TCE
V	Management and Entrepreneurship (10AL51)	MBA
V	Signals & System (10EE52)	ECE/TCE
VI	Embedded Systems (10EE665)	ECE/TCE



VI	Object Oriented Programming using C++(10EE664)	CSE
VII	Programmable Logic Controller (10EE752)	ECE/TCE
VII	VLSI Circuits and Designs (10EE764)	ECE/TCE
VIII	Data Communications and Networking (10EE843)	CSE

**5. Annual/Semester/choice based credit system(programme wise)**

Semester wise system.

**6. Participation of the department in the courses offered by the other department**

The Department of EEE is associated with other departments in handling the following courses:

Sl.No.	Semester	Subjects Handled	Department
1	I & II	Basic Electrical Engineering (14ELE25)	BSE
2	III	Logic Design(10ES33)	ECE
3	IV	Control Systems(10ES43)	ECE
4	V	Signal & Systems(10EC44)	ECE
5	V	Information Theory and Coding(10EC55)	ECE
6	VII	Power Electronics(10EC73)	ECE

**7. Courses in collaboration with other universities, industries, foreign institutions,etc - Nil.**

**8. Details of courses/programmes discontinued (if any) with reasons – Nil.**

### 9. Number of Teaching posts

Teaching Posts	Sanctioned	Filled
Professor	2	1
Associate Professor	4	4
Assistant Professor	22	23

### 10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.,)

Faculty details for the current year are provided below.

Sl.No.	Name	Qualification	Designation	Specialization	No of years of experience	No of PhD students guided for the last 4 years
1	Dr. H N Shankar	PhD	Professor, Dean	Adaptive Systems Control	21	4
2	Mrs. Reba Kundu	ME (PhD)	Associate Professor	Power & Energy Systems	11 ½	Nil
3	Mrs Geetanjali U	ME (PhD)	Associate Professor	Power Electronics	10	Nil
4	Dr. Manavaalan	PhD	Associate Professor	Control Systems	6 ½	Nil
5	Mrs. Sanitha Michail. C	M.Tech	Associate Professor	VLSI & Embedded System	12 ½	Nil
6	Mrs. Anju Das	M.Tech	Asst. Professor	Digital Electronics	9	Nil
7	Mr. Kashif Ahmed	M.Tech	Asst. Professor	VLSI & Embedded System	9 ½	Nil

8	Mrs. Nagalakshmi G	M.Tech	Asst. Professor	Digital Electronics	5	Nil
9	Mrs. Chithra M	ME	Asst. Professor	Power Electronics & Drives	5	Nil
10	Mrs Priyanka Priyadarshini Padhi	ME	Asst. Professor	Power Electronics & Drives	5	Nil
11	Mrs Shikha Gupta	ME	Asst. Professor	Power systems Engineering	5	Nil
12	Mrs. Saranya S	ME	Asst. Professor	Applied Electronics-	8	Nil
13	Mrs. Keka Mukhopadhyaya	M.Tech	Asst. Professor	VLSI & Embedded System	7	Nil
14	Mrs. Aruna Kumari	M.Tech	Asst. Professor	Power Electronics & Drives	12	Nil
15	Mrs. Lousha N	M.Tech	Asst. Professor	Power Systems	8	Nil
16	Mr. Varun Kumar	M.Tech	Asst. Professor	Power Systems	12	Nil
17	Ms.Ila Rai	ME	Asst. Professor	Power Systems	7	Nil
18	Mr. Divyateja Raju	M.Tech	Asst. Professor	Electrical Power Systems	5	Nil
19	Ms Aisha S	M.Tech	Asst. Professor	Applied Electronics	3	Nil
20	Ms.Sharen Ranjit	M.Tech	Asst. Professor	Power Systems	5.7	Nil
21	Mr Sudhakar Vitta	B Tech	Asst. Professor	EEE	15	Nil
22	Ms Parvathy Thampi M S	M.Tech	Asst. Professor	Power Electronics	8 ½	Nil
23	Mr Parikshith Savanth	M.Tech	Asst. Professor	Energy Management,	8 months	Nil

				Auditing & Lighting		
24	Mr Jagadish Kumar Patra	M.Tech	Asst. Professor	Power Electronics & Drives	8 months	Nil
25	Mr Anup	M.Tech	Asst. Professor	Engineering Management	8 months	Nil
26	Mr Anand Bhat	M.Tech	Asst. Professor	Computer Aided Industrial Drives	8 months	Nil
27	Ms Tania H M	M.Tech	Asst. Professor	Power Electronics & Drives	8 months	Nil
28	Ms Jeffina	M.Tech	Asst. Professor	Control & Instrumentation	8 months	Nil

### 11. List of senior visiting faculty –

Sl. No.	Name of the Faculty	Subject	Name of the Organization	Year
1	Dr J Barve	Embedded Systems	GE, John F Welch Technology Centre.	2013

### 12. Percentage of lectures delivered and practical classes handled programme wise) by temporary faculty

All classes are handled by regular faculty members.

### 13. Student -Teacher Ratio (programme wise)-15: 1.

Year	Intake	No. of Faculties	Student Teacher Ratio
2016-2017	362	28	13:1
2015-2016	371	24	15:1
2014-2015	326	19	17:1

2013-2014	277	19	15:1
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**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled**

Academic Support Staff	Sanctioned	Filled
Administrative staff	1	1
Technical Staff	5	5
Foreman	1	1
Helper	2	2

**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG.**

Sl. No.	Qualification	No of faculty
1	PhD	2
2	PG	22
3	Pursing PhD	4

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received.**

a) National:

Sl. No	Title	Principal Investigator	Funding Agency	Sanctioned (YES/NO)	Year of Sanction	Status
1	Traffic light control Using ZIGBEE Technology	Dr. H N Shankar	CMRIT Jnanadhara Trust	Yes Rs. 18,000/-	2014	Completed

2	Analysis of robustness of end point detection by recognizing formats in the spectrum of speech packets in non-stationary noisy environment.	Dr. H N Shankar	VTU Research Grant Scheme, VTU, Belgaum	Yes - Rs. 8.00/- Lakhs	2010 - 2011	Completed
3	Broad band interworking of WNM with Broadband on power line (Wireless Mesh Networks).	Dr. H N Shankar	VTU Research Grant Scheme, VTU, Belgaum	Yes – Rs 13.12/- Lakhs	2010 - 2011	On-going
4	Network Control system for Electric vehicle	Dr. Manavaalan G	CMRIT Jnanadhara Trust	Rs. 20,862/-	2014	Ongoing

b) International: Nil.

c) Total Grant Received: Rs. 19.50/- Lakhs.

**17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received**

Sl. No.	Granting Agency	Year of Sanction	Grant Amt	Duration	Title of Research / Project
1	CMRIT Jnanadhara Trust	2013-14	Rs 18000/-	6 months	Traffic light control Using ZIGBEE Technology

2	CMRIT Jnanadhara Trust	2014-15	Rs 20862/-	1 Year (On going)	Network Control system for Electric vehicle
3	VTU Research Grant Scheme, VTU, Belgaum	2010 - 11	Rs. 13.12/- Lakhs	2 Years	Broad band interworking of WNM with Broadband on power line (Wireless Mesh Networks).
4	VTU Research Grant Scheme, VTU, Belgaum	2010 - 11	Rs. 8.00/- Lakhs	1 Year	Analysis of robustness of end point detection by recognizing formats in the spectrum of speech packets in non-stationary noisy environment.

### 18. Research Centre /facility recognized by the University – Yes

Sl.No.	Research Center	Sanctioned Year and letter	Name of Supervisors	Research area of supervisor	No. of students under each supervisor
1	EEE	2014	Dr. H N Shankar	Adaptive systems (Control)	5
2	EEE	2014	Dr Manavaalan G	All-terrain Rovers(Robotics & Control System)	1

### 19. Publications:

❖ a) Papers published by Faculty:

Sl.No	Name	No. of publications					
		2016	2015	2014	2013	2012	2011
1	Dr H N Shankar	5	3	-	1	-	3
2	Mrs. Reba Kundu	-	-	-	-	1	1
3	Mrs. Mamta Agiwal	-	-	-	1	1	1
4	Mrs Geetanjali U	-	-	1	-	-	-
5	Dr. Manavaalan	-	2	-	-	2	-
6	Dr Sanjeev G	-	7	4	-	-	1
7	Mrs. Sanitha Michail. C	1	1	-	-	1	-
8	Mrs. Anju Das	2	2	-	-	-	-
9	Mr. Kashif Ahmed	1	-	3	3	1	-
10	Mrs Suganya S	-	3	-	-	3	2
11	Mrs. Nagalakshmi G	-	-	-	1	-	-
12	Mrs. Chithra M	-	-	-	-	-	1
13	Mrs Anjani G	-	-	-	-	-	2
14	Mrs Priyanka Priyadharshi Padhi	1	-	-	-	3	2



15	Mrs Shikha Gupta	-	-	-	1	-	-
16	Mrs. Saranya S	1	1	-	-	-	2
17	Mrs. Keka Mukhopadhy a	1	1	2	-	-	-
18	Mrs. T Aruna Kumari	1	-	-	-	-	-
19	Mrs. Lousha N	-	-	1	-	-	-
20	Mrs Sana	-	-	-	1	-	-
21	Mr. Varun Kumar	-	-	-	1	-	-
22	Mr Parikshith Savanth	1	-	-	-	-	-
23	Mr Jagadish Kumar Patra	6	2	-	-	-	-
24	Mr Anup	-	1	-	-	-	-
25	Mr Anand Bhat	2	-	-	-	-	-
26	Ms Tania H M	6	2	-	-	-	-
27	Ms Jeffina	1	-	-	-	-	-
<b>Total</b>		<b>29</b>	<b>25</b>	<b>11</b>	<b>9</b>	<b>12</b>	<b>15</b>

- ❖ Number of papers published in peer reviewed journals (national / international) by faculty and students:

No. of Publications					
2016	2015	2014	2013	2012	2011
12	2	-	7	9	6

The details of publications by faculty are given in **ANNEXURE I**.

Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) – Nil.

- ❖ Monographs – Nil.

- ❖ Chapter in Books

S No.	Name	Title	Year of Publication
1	Dr Shankar H N	Cognitive Radio Oriented Wireless Networks 10th International Conference, CROWNCOM	Oct,2015
2	Sanjeev G	Cognitive Radio Oriented Wireless Networks 10th International Conference, CROWNCOM	Oct,2015
3	Sana	AMRITA BIO QUEST 2013	Dec,2013
4	Anup	Ergonomic Intervention in Workplaces: A Human Resource Management Perspective" published in Advanced Management Practices in Business	Oct,2015

- ❖ Books Edited – Nil.
- ❖ Books with ISBN/ISSN numbers with details of publishers – Nil.
- ❖ Citation Index

S no	Name of the Faculty	Citation Index
1	Dr. H N Shankar	19
2	Dr. Manavaalan G	16
3	Dr. Sanjeev G	4
4	Mrs. Chithra M	16
5	Mrs. Priyanka P	6
6	Mrs Anjani G	1

- ❖ SNIP – Nil
- ❖ SJR – Nil
- ❖ Impact factor
- ❖ H-Index

Sl.No.	Name of the Faculty	H - Index
1	Dr. H N Shankar	2
2	Dr. Manavaalan G	1
3	Dr. Sanjeev G	1
4	Mrs. Chithra M	1
5	Mrs. Priyanka P	1
6	Mrs Anjani G	1

## 20. Areas of consultancy and income generated

A few important consultancy services undertaken by the department of Electrical & Electronics are

Sl. No.	Faculty Name	Company	Area (s) of Consultancy	Amount	Year
1	Dr Manavaalan G	Concord United Products Private Limited	Development of Software and Controller Board for WEDM Machine	Rs. 5.5/- Lakhs	2016

2	Dr. H N Shankar	Fon Ess India Pvt Ltd	Development of power supply	Rs. 1.00/- Lakhs	2013
3	Dr. H N Shankar	Meher Energy Ventures Pvt Ltd	Energy Efficiency and Energy storage application (Technical knowledge exchange)	-	2011
4	Dr. H N Shankar	Adinya Technologies	Adaptive control, Intelligent systems and Signal processing(Technical knowledge exchange)	-	2011

**21. Faculty as members in a) National Committees b) international Committees c) Editorial Boards**

Sl. No.	Faculty Name	Name of Committee/Editorial Board	Name of University/Organization	Type of Membership
1	Dr. H N Shankar	Programme Committee	International Conference on Automation, Cognitive Science, Optics, Micro Electro-Mechanical System, and Information Technology,  ICACOMIT'15, Bandung, Indonesia.	Programme Committee Member.
		Jury	Manthan	Jury Member.
		Technical Programme Committee	International Conference on Control Automation & Applied Mechanics ICCAAM'2014, city of Algiers, Algeria.	Technical Programme Committee Member.

		Technical Programme Committee	International Conference on Pattern Recognition Applications and Techniques, Meenakshi College for Women, Chennai	Technical Programme Committee Member.
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## 22. Student projects

### a) Percentage of students who have done in-house projects including inter departmental/programme

Sl. No.	Academic YearBatch wise	Percentage of In house (%)
1	2012-2016	70
2	2011-2015	70
3	2010-2014	60
4	2009-2013	20
5	2008-2012	15

### b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies

Sl. No.	Academic Year Batch wise	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
1	2012-2016	30
2	2011-2015	30
3	2010-2014	40
4	2009-2013	80
5	2008-2012	85

## 23. Awards/Recognitions received by faculty and students.

### • Faculty

Sl. No.	Name of the faculty	Name of the Award	Name of Agency	Year
1	Dr.H N Shankar	Resource Person	One Week National Workshop on "Emerging Trends in VLSI & Signal Processing" (Sponsored TEQIP (Technical	2016

			Education Quality Improvement Program)-II)	
	Dr. H N Shankar	Jury Member	Manthan , FKCCI	2016
2	Dr Manavaalan G	Resource Person	AICTE Sponsored One Week Short Term Course on Modeling and Simulation of Non-Linear Electrical Systems	2016
3	Dr. H N Shankar	Invited as Programme Committee Member	International Conference on Automation, Cognitive Science, Optics, Micro Electro-Mechanical System, and Information Technology,  ICACOMIT'15, Bandung, Indonesia.	2015
		Invited in Deans Summit 2015	Deloitte annual academia event in Hyderabad	2015
		Jury Member	Manthan 2015 at FKCCI on 9 April 2015.	2015
		Invited	BIT's 1 <sup>st</sup> World Congress of Robotics 2015 as a speaker in Forum 1-3: MEMS and Sensor Networks, Shenyang, China.	2015
		Invited Speaker	Technical Conference Converge,IEEE- VIT, Vellore	2015
		Jury Member	SRISHTI	2015
		IEEE Senior Member	IEEE advanced technology for humanity.	2015
		Jury Member	Manthan	2014
		Invited Technical Member	International Conference on Control Automation & Applied Mechanics	2014

			ICCAAM', city of Algiers, Algeria.	
		Jury Member	Manthan	2013
		Invited Speaker	"A key hole view of Adaptive control "Education & Research Unit,Infosys, Bangalore	2013
		Invited Chair (Technical Programme Committee)	International Conference on Pattern Recognition Applications and Techniques 2013, Meenakshi College for Women, Chennai.	2013
		Jury Member	Manthan	2012
		Invited to deliver lecture on "Intelligent Systems"	Sir M Visvesvaraya Frontier Lecture Series organized by KSCST at BMSCE	2012
		Invited keynote speaker and guest of honor	Invited talkon "What does it take to think like a Engineer", at RVCE, Bangalore	
		Best Paper Award	Cardiac Arrhythmia Detection and Classification Based on Warped Discrete Cosine Transform Cepstrum, National Conference on Electric Engineering and Embedded Systems, NCEEE '08, Anna University, Chennai	2008
		Indian Institute of Science research fellowship	Awarded the Indian Institute of Science research fellowship for doctoral students; 1993 – 2000.	2000
4	Mr. Kashif Ahmed	Best Paper Award	"A Multi-Agent Based Thermal Aware Task Migration Scheme in Multi-Core System" in	2013

			the“National Conference on Advanced Communication, VLSI Design and Signal Processing” (NCCVS-13)	
		Chief Coordinator of Magazine Committee.	Appointed as the Chief Coordinator of Magazine Committee. With the team successfully came up with the college magazine “Jnanadhara 2013” which was well received and appreciated	2013
5	Dr. Manavaalan.G	Awarded PhD on “Path tracking control of a moon rover modeling design and implementation”.	IIT Kanpur	2015
		Best Teaching Assistant	Won the best teaching assistant award in IIT Kanpur in	2015
6	Dr. Sanjeev G	Awarded PhD on “Spectrum sensing techniques for cognitive radio applications”.	IISC	2015
		IEEE globecom student grant award	IEEE	2014

• **Students**

Sl. No.	Name of the student	Name of the Award	Name of Agency	Year
<b>Industrial Recognition</b>				
1	Anukesh Lal	Outstanding consistency achievement in the project-Sandvik mining for Sandvik CTS team	MWSD Delivery Excellence Hall of Fame	2015



2	Anukesh Lal	Outstanding consistency achievement in the managing the retail queue of O2 account	GPS SDD Delivery Excellence Hall of Fame	2013
<b>Sports</b>				
1	Kottamanil Kumar	Secured third title in Sai Leo Trophy'14	State Level Inter Engineering Collegiate Kabaddi Tournament Organised by Shridi Sai Engineering College, Bangalore.	2014
2	Manjunatha D	State Panel Umpire	He has passed successfully state panel umpire's / state panel scorer's examination, KSCA	2012
<b>Curricular Activities</b>				
1	Nanditha V	Paper presentation	Advitiya-16	2016
2	Vikash	1 <sup>st</sup> Prize	Idea Conclave for Better Bangalore, Christ University, Bangalore	2016
3	Shashank Romauld Robey	1 <sup>st</sup> Prize	State Level Project Exhibition and competition – "Srishti 2016"	2016
4	Nihal	1 <sup>st</sup> Prize	State Level Project Exhibition and competition – "Srishti 2016"	2016
5	Arjun Kumar	2 <sup>nd</sup> Prize	State Level Project Exhibition and competition – "Srishti 2016"	2016
6	Deep Siddharth	2 <sup>nd</sup> Prize	State Level Project Exhibition and competition – "Srishti 2016"	2016
7	Deepak Kumar R	2 <sup>nd</sup> Prize	State Level Project Exhibition and competition – "Srishti 2016"	2016



8	Amit Kumar	2 <sup>nd</sup> Prize	State Level Project Exhibition and competition – “Srishti 2016”	2016
9	DibyashaMahapatra	4 <sup>th</sup> Place	State Level Project Exhibition and competition – “Srishti 2016”	2016
10	Ishan Gautam	4 <sup>th</sup> Place	State Level Project Exhibition and competition – “Srishti 2016”	2016
11	Dilip. B.S	4 <sup>th</sup> Place	State Level Project Exhibition and competition – “Srishti 2016”	2016
12	Gurupriya Rajendran M V	4 <sup>th</sup> Place	State Level Project Exhibition and competition – “Srishti 2016”	2016
13	Sridar R	Won 2 <sup>nd</sup> Place in Circuit Debugging.	UTSAHA, Organised by BMS Institute of Technology, Bangalore.	2015
14	V Kishore	Won 2 <sup>nd</sup> Place in Circuit Debugging.	UTSAHA, Organised by BMS Institute of Technology, Bangalore.	2015
15	Surabhi K	University Rank Holder	13 <sup>th</sup> Rank in 5 <sup>th</sup> semester.	2014
16	Banupriya E	Best Paper Award	National Conference on Electrical & Electronics Engineering – NCEEE ‘14. HKBK College of Engineering, Bangalore.	2014
17	Niharika Gouda	Best Paper Award	National Conference on Electrical & Electronics Engineering – NCEEE ‘14. HKBK College of Engineering, Bangalore.	2014
18	Bala Maruthi T, Babitha Susan George and Avinash M	Article of their project published in Bangalore Mirror with heading “Students give cops a remote for signals	Project done on control of traffic lights by using a hand-held device.	2014

19	Sahana L	CMR Leadership Award	She has been awarded the prestigious CMR Leadership Award for exemplary behavior and achievement, by CMR Institute of Technology	2013
20	Vibha Gupta	Best Performer in University Examinations	Awarded for excellent performer in university examinations during Jan 2013, by CMR Institute of Technology	2013
21	Vibha Gupta	II Prize in Paper Presentation Event	CMR CULTURA'13, A National Level Intercollegiate, Technical, Cultural and Management Festival	2013
22	Mayuri	II Prize in Paper Presentation Event	CMR CULTURA'13, A National Level Intercollegiate, Technical, Cultural and Management Festival, 2013.	2013
23	Aswini T V	Best Paper Presented	CMR CULTURA'12, A National Level Intercollegiate, Technical, Cultural and Management Festival, 2012.	2012
24	Khushal Sukhadia	CMR Leadership Award	He has been awarded the prestigious CMR Leadership Award for exemplary behavior and achievement, by CMR Institute of Technology	2012
25	Shashi Shekhar	CMR Leadership Award	He has been awarded the prestigious CMR Leadership Award for exemplary behavior and achievement, by CMR Institute of Technology	2011
26	Ashwin S	CMR Leadership Award	He has been awarded the prestigious CMR Leadership Award for exemplary behavior and	2011

			achievement, by CMR Institute of Technology	
<b>Cultural Activities</b>				
1	Neha Kumari	Winner	Clean & Clear Bangalore Times Fresh Face 2012 at Mantri Square Malleswaram	2012
2	Manjunath D	Awarded for successfully conducting CULTURA'14	Cultural Secretary	2014
3	Kushal Sukhadia	Awarded for successfully conducting CULTURA'12	Cultural Secretary	2012
4	Ashwin S and Shashi Shekhar	Awarded for successfully conducting CULTURA'11	Cultural Secretary	2012

**24. List of eminent academicians and scientists / visitors to the department**

Sl. No.	Lectures/Workshops/Seminar	Guest Speaker	Company Name	Details	No. of Students participated
1	Prepare program	Mr Vinayak	T.I.M.E	23/1/2017-11/2/2017 (Soft skills and Technical Sessions –Embedded System)	90
2	Prepare Program	Mr. Padma Reddy	Quantech Origin	9/4/2016: Cloud Computing, DBMS-2, .net,	70

				Sentence Completion	
3	A seminar on “Smart grid & Smart Metering”	Sridhar Pandey	Electrorev	August 2015	50
4	A seminar on “Studying abroad – what are the Options after Engineering(BE/B.Tech)”	Shaista V Baljee	Ivy Aspire	27 <sup>th</sup> March,2015	118
5	Prepare Program	Mr. Ananth	Quantech Origin	Session 1 - 2 – 9 January 2015 Session 2 – 8 and 22 Feb 2015 & 8 and 15 March 2015 Session 3 – 20 <sup>th</sup> July 2015 to 1 <sup>st</sup> August 2015	74
6	Guest lecture on “Global Tech Industry Trends and Career Opportunities”	Mr Upendra Kulkarni	Graphics Software Development and validation at Intel Corporation	3 <sup>rd</sup> September 2014	120
7	Guest lecture on transition to industry	Mr. Ramesh Mathur	Consultant, GE, Bangalore	12 <sup>th</sup> August 2014	120
8	Guest lecture on the scope of embedded systems	Mr. Kishore K	Robert Bosch Engineering and Business Solutions, India	22 <sup>nd</sup> March 2014	115
9	Guest lecture on the role of RFID in supply chain	Mr. Saravanan G	Techspark	15 <sup>th</sup> March 2014	100
10	Prepare Program	Mr. Ananth	Quantech Origin	Session 1 - 5 – 18 July 2014 Session 2 – 21 to 31 July 2014 Session 3 – 7 to 21 August 2014	48



11	Invited talk on Energy Efficiency of amplify and forward distributed estimation systems with amplifier non linearity	Dr. Mahesh K Banavar	Arizona state university	8 <sup>th</sup> August 2013	112
12	Guest lecture on industrial automation and PLC	Mr.H.S.Shiva Shankar	TCS, Bangalore	29 <sup>th</sup> October 2013	115
13	Guest lecture on challenges and oppurtunities in VLSI	Dr. Cyril Prasanna Raj	M.S. Ramaiah school of advanced studies	28 <sup>th</sup> August 2013	112
14	Guest lecture on SCADA	Mr. Shiva Shankar	TCS, Bangalore	19 <sup>th</sup> February 2013	112
15	Guest lecture on load flow analysis in power system	Mr. Avishek Roy	PRDC, Bangalore	27 <sup>th</sup> April 2012	60
16	Guest lecture on cloud services	Mr. M. Raghuraman	TCS, Bangalore	21 <sup>st</sup> April 2012	60
17	Guest lecture on higher education	Mr. Salman Alam	HP, Bangalore	22 <sup>nd</sup> September 2012	55
18	Guest lecture on automation industru	Mr. Anil	Protocol automation technologies Pvt. Ltd, Bangalore	25 <sup>th</sup> August 2012	55
19	Guest lecture on journey through wireless communication	Ms. Uma Kishore	Chief Engineer, Samsung India Software Ltd, Bangalore	17 <sup>th</sup> March 2012	55
20	Guest lecture on careers in energy auditing and demand side management	Mr. Subramanyan	VIT, Vellore	18 <sup>th</sup> February 2011	52
21	Guest lecture on emerging trends in VLSI	Mr. Cyril Prasanna Raj	M.S. Ramaiah school of advanced studies	19 <sup>th</sup> February 2011	52

22	Guest lecture on remote infrastructure management	Mr. Naveen Gajan	CMC Ltd, Bangalore	5 <sup>th</sup> March 2011	50
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## 25. Seminars/ Conferences/Workshops organized & the source of funding

### a) National      b) International

Sl. No.	Title	Organizer	Year	No. of Participants	Resource Person	Funding Agency
1	Faculty Development Program on Linear Integrated Circuits with PSPICE	Jointly organized by EEE,ECE & TCE Dept,CMR IT	2017	25	Dr H N Shankar,EEE Dr Muralishankar,ECE Dr Manavaalan G, EEE Dr Kalaga Madhav ECE Prof Surya, ECE	CMRIT
2	Faculty Development Program on Control Systems with MATLAB	EEE Dept,CMR IT	2016	30	Dr H N Shankar Dr Muralishankar Dr Manavaalan G Prof Surya	CMRIT
3	Two days' workshop: Smart Grid & Smart Metering	Jointly organized by ELECOR EV & EEE Dept,CMR IT	2015	50	Mr C Balasubramanya,Professional Smart Grid and Smart metering Trainer, Retd Sr DGM - BHEL	CMRIT
4	A five day national workshop on "Power System Stability and Control"	Jointly organized by PRDC-VTU Research Center and CMRIT and IEEE-PES	2012	37	1. Dr. R Nagaraja, MD, PRDC 2. Prof. D P Sengupta, Honorary visiting professor, NIAS 3. Prof. Padiyar, Emeritus Professor, IISC	CMRIT

		Bangalore Chapter			4. Mr. M. M. Babu Narayanan, Chief Technical Advisor, PRDC 5. Prof. D Thukaram, IISC 6. Mr. Faraz Zafar Khan, Senior Engineer, PRDC	
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### 26. Student profile programme/course wise:

Sl. No.	Application Received	Selected	Enrolled		Pass Percentage in %
			M	F	
2015-2016	120	93+19	70	42	73.33%
2014-2015	120	108 +23	97	34	59.82%
2013-2014	140	120 +21	101	40	81.58%
2012-2013	150	120 + 21	107	34	88.60%
2011-2012	62	55 +11	46	09	65.00%

\*M = Male \*F = Female

### 27. Diversity of Students

Name of the course	Academic Year	% of students from the same state	% of students from other states	% of students from abroad
B.E	2016-2017	70	30	0
	2015-2016	65	35	0
	2014-2015	73	21	6
	2013-2014	56	44	Nil
	2012-2013	62	38	Nil
	2011-2012	60	40	Nil

### 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.

Sl. No.	Year	Type of exam (NET, SLET, GATE, Civil services, Defense services, etc.)	No. of students cleared



1	2015-16	GATE/CAT	1
2	2014-15	GATE/CAT	3
3	2013-14	GATE/CAT	1
4	2012-13	GATE/CAT	4
5	2011-12	GATE/CAT	12

### 29. Student progression

Student progression	Against % enrolled				
	2011-12	2012-13	2013-14	2014-15	2015-16
UG to PG	5%	5%	12%	8%	5%
PG to M.Phil	-				
PG to Ph.D (No. of students)	-	-	-	-	-
Ph.D. to Post-Doctoral	-				
Employed					
•Campus selection	35%	50%	60%	60%	45%
•Other than campus recruitment	50%	34%	16%	28%	37%
Entrepreneurship/Self-employment	2%	2%	2%	2%	2%

### 30. Details of Infrastructural facilities

#### a) Library

Area	No. of Books	No. of Monographs	No. of CD's	No. of Journals	No. of Reports	Misc.*
19 Sqm	455	-	50	21	40	34

\* Miscellaneous includes syllabus, magazines and newsletters. All Question Papers are in the Digital Library and can be accessed through Internet.

#### b) Internet facilities for Staff & Students

The staff and students of the department have access to the campus wide WiFi connectivity and all department labs. Internet service providers: BSNL 10Mbps and Bell Teleservices 30Mbps.

**c) Class rooms with ICT facility**

Sl. No.	Room No.	Shared / Exclusive	Area in Sqmtr	Teaching aids
1	LH - 101	Exclusive	84.29 sq.m	Fixed LCD Projector, White Screen and CPU.
2	LH - 102	Exclusive	4.29 sq.m	Portable LCD Projector.
3	LH - 103	Exclusive	84.29 sq.m	Portable LCD Projector.
4	LH - 104	Exclusive	91.02 sq.m	-
5	LH - 105	Exclusive	88.90 sq.m	-
6	LH - 106	Exclusive	88.90 sq.m	WiFi.

**d) Laboratories**

All the labs mentioned below are well equipped with latest equipments.

Sl. No.	Name of the Lab	Capacity in Area sq.m	Major Equipments	Total Investment/ Amount
1	Analog Electronic Circuits Laboratory	88.00 sq.m	CROs, Signal Generators, DC Power supply, Small transformers and other components as per the syllabus	Rs. 14,32,628/-
2	Micro-controller/Power System Simulation Laboratory	71.20 sq.m	Keil $\mu$ vision 3, Flash Magic and IAR Embedded work bench/ MiPower Software and Systems.	Rs. 20,72,341/-
3	Logic Design/Computer Aided Electrical Design Laboratory	74.40 sq.m	LogicCircuits kits, ICs/ Computers, Color printer AutoCAD 2011	Rs. 6,06,085/-

4	DC and Synchronous Machine /Transformers & Induction Machine Laboratory	144.69 sq.m	Induction motors (3 phase & 1 phase),3 phase sync. Machines, Transformers,Dc Machines, Variac (3 phase & 1 Phase),3 phase loads	Rs.24,16,425/-
5	Circuit Simulation and Measurements/Control Systems	81.09 sq.m	PSpice software, Bridge circuit kits, Lamp load, Energy meter. Meggar & CT/MATLAB software, Syncro pair kit, AC & DC servomotors, PIC KIT-2 software, DRB, DCB, DIB kits.	Rs. 21,84,295/-
6	High Voltage Laboratory	88.00 sq.m	Relays,Sphere Gap, Transformer oil Testing Kit,Electrolytic Tank, High voltage Transformer panel(100 kV)	Rs. 22,13,466/-
7	Power Electronics Laboratory	110.00 sq.m	CROs, Isolating Transformer, DC Power supply and the modules as per the syllabus	Rs. 14,32,628/-

**31. Number of students receiving financial assistance from college, university, government or other agencies**

Year	No of students receiving financial assistance
2016-17	136
2015-16	80
2014-15	59
2013-14	63
2012-13	25

Sl. No.	Name of the Institutional Organization	Details	2016-17		2015-16		2014-15		2013-14		2012-13	
			No of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.
1	Social welfare	SC/ST	26	10,91,380	9	2,95,100	12	4,30,940	11	2,55,360	4	1,07,620
2	Backward classes	OBC	88	14,42,960	62	10,49,730	16	2,89,440	12	2,14,990	1	16,420
3	Directorate of technical education	Defence	2	62,890	4	1,66,410	3	100,535	5	1,69,400	5	94,335
4	SamajaKalyanDept	Collegiate Edn.	14	6,49,500	-	-	12	4,10,540	21	5,27,800	1	1,00,000
5	Directorate of Collegiate education	Edn.	-	-	-	-	-	-	1	75,100	-	-
6	CMRIT	Merit Scholarship	6	55,000	5	50,000	10	1,00,000	7	70,000	8	80,000
7	CMRIT	Sports Scholarship	-	-	-	-	6	1,50,000	6	1,32,000	6	1,25,000

### 32. Details on student enrichment programmes (special lectures / workshops seminar) with external experts

	Lectures/Workshops/Seminar	Guest Speaker	Company Name	Details	No. of Students participated
1	Prepare program	Mr Vinayak	T.I.M.E	23/1/2017-11/2/2017 (Soft skills and Technical Sessions – Embedded System)	90
2	Prepare Program	Mr. Padma Reddy	Quantech Origin	9/4/2016: Cloud Computing, DBMS-2, .net, Sentence Completion	70
3	A seminar on “Smart grid & Smart Metering”	Sridhar Pandey	Electrorev	August 2015	50
4	A seminar on “Studying abroad – what are the Options after Engineering( BE/B.Tech)”	Shaista V Baljee	Ivy Aspire	27 <sup>th</sup> March, 2015	86
5	Prepare Program	Mr. Ananth	Quantech Origin	Session 1 - 2 – 9 January 2015 Session 2 – 8 and 22 Feb 2015	80

				& 8 and 15 March 2015 Session 3 – 20 <sup>th</sup> July 2015 to 1 <sup>st</sup> August 2015	
6	Guest lecture on “Global Tech Industry Trends and Career Oppurtunities”	Mr Upendra Kulkarni	Graphics Software Development and validation at Intel Corporation	3 <sup>rd</sup> September 2014	59
7	Guest lecture on transition to industry	Mr. Ramesh Mathur	Consultant, GE, Bangalore	12 <sup>th</sup> August 2014	62
8	Guest lecture on the scope of embedded systems	Mr. Kishore K	Robert Bosch Engineering and Business Solutions,India	22 <sup>nd</sup> March 2014	60
9	Guest lecture on the role of RFID in supply chain	Mr. Saravanan G	Techspark	15 <sup>th</sup> March 2014	55
10	Prepare Program	Mr. Ananth	Quantech Origin	Session 1 - 5 – 18 July 2014 Session 2 – 21 to 31 July 2014 Session 3 – 7 to 21 August 2014	
11	Invited talk on Energy Efficiency of amplify and forward	Dr. Mahesh K Banavar	Arizona state university	8 <sup>th</sup> August 2013	60

	distributed estimation systems with amplifier non linearity				
12	Guest lecture on industrial automation and PLC	Mr.H.S.Shiva Shankar	TCS, Bangalore	29 <sup>th</sup> October 2013	60
13	Guest lecture on challenges and oppurtunities in VLSI	Dr. Cyril Prasanna Raj	M.S. Ramaiah school of advanced studies	28 <sup>th</sup> August 2013	125
14	Guest lecture on SCADA	Mr. Shiva Shankar	TCS, Bangalore	19 <sup>th</sup> February 2013	60
15	Guest lecture on load flow analysis in power system	Mr. Avishek Roy	PRDC, Bangalore	27 <sup>th</sup> April 2012	52
16	Guest lecture on cloud services	Mr. M. Raghuraman	TCS, Bangalore	21 <sup>st</sup> April 2012	55
17	Guest lecture on higher education	Mr. Salman Alam	HP, Bangalore	22 <sup>nd</sup> September 2012	45
18	Guest lecture on automation industry	Mr. Anil	Protocol automation technologies Pvt. Ltd, Bangalore	25 <sup>th</sup> August 2012	60
19	Guest lecture on journey through wireless communication	Ms. Uma Kishore	Chief Engineer, Samsung India Software Ltd, Bangalore	17 <sup>th</sup> March 2012	59

20	Guest lecture on careers in energy auditing and demand side management	Mr. Subramanian	VIT, Vellore	18 <sup>th</sup> February 2011	60
21	Guest lecture on emerging trends in VLSI	Mr. Cyril Prasanna Raj	M.S. Ramaiah school of advanced studies	19 <sup>th</sup> February 2011	55
22	Guest lecture on remote infrastructure management	Mr. Naveen Gajan	CMC Ltd, Bangalore	5 <sup>th</sup> March 2011	60

### 33. Teaching methods adopted to improve student learning-

The enthusiastic faculty members of the college aim to deliver their lectures in an effective manner to enrich the knowledge of the student community. They continuously enrich their teaching methodologies. Some of them are:

- Peer Instruction.

Peer instruction as a learning system involves students preparing to learn outside of class by doing pre-class readings and answering questions. Then, in class, the faculty engages students by posing prepared conceptual questions or Concept Tests that are based on student difficulties. The questioning procedure is as follows-

1. Faculty poses question based on students' responses to their pre-class reading
2. Students reflect on the question
3. Students commit to an individual answer
4. Instructor reviews student responses
5. Students discuss their thinking and answers with their peers
6. Students then commit again to an individual answer
7. The instructor again reviews responses and decides whether more explanation is needed before moving on to the next concept.



- Intensive Coaching Program.  
This program is being conducted (every semester) for weaker students who are identified through their performance in the Internal Assessment Test.
- Lab Refinement Committee  
This committee has been formed to improve and to monitor the quality of the lab conduction. Lab theory sessions has also been implemented for better understanding of the concepts.
- Remedial Classes.  
Students who fail in the university examinations are identified and remedial classes have been conducted for them to help them pass the subjects.
- Video & Power Point Presentation.  
To have better understanding of the subjects and to have more clarity, concepts are explained with the help of video lectures.

#### 34. Participation in Institutional Social Responsibility (ISR) and Extension activities

CMRIT advises that, student projects should have social relevance. At CMRIT, we believe students need to take up projects which make a difference to the society. To help students develop leadership activities, service mentality and self-confidence, CMRIT frequently conducts environment awareness programs and blood donation camp and allows the students to lead the activities. All of which contribute to become good citizens. All the relevant student projects listed below.

Name of the students	Department	Project title
Avinash M Babitha Susan G Bala Maruthi T	Electrical and Electronics Department	Wireless Control Of Traffic Light System
Jeffina Stephens S Kalpana S S Nandini Sahana L	Electrical and Electronics Department	Hybrid Solar Inverter
Arpita Banerjee Kalyani Bhushan Shefali Narayanan Shraddha Manju S	Electrical and Electronics Department	Energy Theft Detection Using Power Line Communication
Nishanth S Anil.K	Electrical and Electronics Department	Energy Management Reduction of Energy



Jayita Rajagopal		Consumptions and Improvement of output Efficiency of manufacturing Unit
Ranjitha N Chaithanya Ss Saritha Mohanty Kavyashree.T	Electrical and Electronics Department	Design & Implementation of Closed Loop Boost Converter for Solar Power application
Adithi Raju Gamage Cha	Electrical and Electronics Department	Design of Electrical and Lighting System for A Building Unit
Sheetal Raj Ayyanagouda Basavaraj Nagaraj	Electrical and Electronics Department	Wind and Solar Hybrid System Power Generation for Stand Alone & Remote Areas
Prabhata. M.P Mohd Yasser Shoeb	Electrical and Electronics Department	Integrated Building Management
Sandeep G Sandeep S	Electrical and Electronics Department	D/C DC& DC /AC Converts Control for Hybrid Electric Vehicles Energy Management Ultra capacitors & Fuel Cells
Amitesh Jaiswal Akshay Kumar Bajpai Ashish Ranjan	Electrical and Electronics Department	Solar based led street light with programmable intensity control
Ritu Raj Rajeev Kumar Singh Somesh Shekhar	Electrical and Electronics Department	Home automation
Jolly Kalita Pawi Pandey Supin K	Electrical and Electronics Department	3-Axis solar tracker
Rameez Raja Soumya Dheemankar	Electrical and Electronics Department	Brain Sense-Automated Wheel Chair.
Ashwini Choudary Saurabh Kumar Saket Kumar	Electrical and Electronics Department	Solar power LED street light with intensity controller

Department is having feedback evaluation cell to oversee the feedback mechanism from students to solicit stakeholder perception on the overall performance and quality of the institution. These feedback forms are analyzed for future improvements. Regular interactions are organized between the parent and faculty as per circulated schedule to enable two way interaction and communication of

students' and institutional performance to enrich the quality of teaching and college ambience.

- The Blood donation camp, held in the memory of Late Chikka Muniyappa Reddy took place on 19th Nov 2014. NSS student members, faculty took part in this camp.
- CMRIT employees participated in Blood Donation Camp organised in Whitefield Area Commerce and Industries Association (WACIA) on Friday 10 April 2015 in Association with Rotary TTK.

### 35. SWOC analysis of the department and Future plans

- **Strengths:**
  1. Qualified and experienced faculty.
  2. Well implemented teaching-learning process.
  3. Dedicated and inquisitive faculty.
  4. Good team spirit.
- **Weakness:**
  1. Industry interaction should be enhanced.
  2. Placement efforts need to be geared more towards core industry.
- **Opportunities:**
  1. To get funded projects and research innovations from various organizations.
  2. To have consultancy and other industry involvement.
- **Challenges:**
  1. Tuning syllabus/faculty competency with fast changing technologies.
  2. To improve consultancy work in department.
- **Future Plans:**
  1. To start M.Tech Programme.

**Annexure I:**

<b>DETAILS OF RESEARCH PUBLICATIONS DURING LAST SIX YEARS</b>					
<b>S no</b>	<b>Faculty Name</b>	<b>Type of Publications</b>	<b>Title of Paper</b>	<b>Presented at conference /Journal</b>	<b>ISSN/ISBN No. Month &amp; Year</b>
1	Dr. H N Shankar	International	Adaptive Attitude Control of the Spherical Drone on SO(3)	1st International Conference - 2016 IEEE Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)	14-Aug-2016
		International	Spectrum Sensing in Presence of Cauchy Noise through Differential Entropy	1st International Conference - 2016 IEEE Distributed Computing, VLSI, Electrical Circuits and Robotics (DISCOVER)	14-Aug-2016
		International	Differential Entropy-Driven Spectrum Sensing Under Generalized Gaussian Noise	IEEE Communications Letters, Print ISSN: 1089-7798	July-16, Volume 20, Issue 7
		International	Quantifying Solar Rooftop PV using Helioscope	MAT Journal of Control and Instrumentation Engineering	July-16
		International	Spectrum Sensing for Cognitive Radios Through Differential Entropy	European Alliance for Innovation (EAI) Endorsed Transactions on Cognitive Communications	Apr 2016
		International	Differential Entropy Driven Goodness-of-Fit Test For Spectrum Sensing	Cognitive Radio Oriented Wireless Networks (CROWNCOM),	Doha, Qatar, Apr. 2015
			Speech Enhancement using Discriminative Random Fields	TENCON 2015 IEEE Region 10 Conference	1- 4 Nov 2015 IEEE Publication 7-Jan-2016

		National	Voice Chat Using Broadband over Powerline: A Step Towards Multimedia Communication over Powerline,	National Conference on Emerging Trends in Engineering Technology and Applied Research (NCETAR),	Bangalore, Jul. 2015
		National	Channel Model Characterization and Validation in a Powerline Communication System	National Conference on Emerging Trends in Engineering Technology and Applied Research (NCETAR),	Bangalore, Jul. 2015
		International	Recognition of Boundaries between Silence and Speech	International Conference on Pattern Recognition Applications And Techniques(ICPRAT),Chennai	978-1-25-905849-3 March,2013
		International	Optimal Power Allocation Over a Fading MAC with Varying Observations SNRS in Resuorce constrained Wireless Sensor Network	Koyoto Conference. IEEE ICC ,2011	March,2011
		International	Investigating the Robustness of Detection vis-vis the Detector Threshold in WSN with Fadind MAC and Differing Sensor SNRS	Third International Conference on Emerging Network Intelligence ,2011	978-1-61208-174-8 November,2011
		International	Relative robustness of detection to detector threshold	Annual IEEE India Conference	2011



			across power constraints by joint optimizations in WSN over fading MAC and with differing sensors SNRs		
2	Reba Kundu	National	Capacitive current flow on motor bearings	Electrical India	January 2011
		National	Space vector PWM for multilevel Inverter Fed Induction motor Drive	Electrical India	January 2012
3	Mamta Agiwal	International	Feasibility study of Millimeter Wave Transmission	International Journal of Computer Science and Information Security	
		International	A study of power saving techniques in wireless networks	International Conference on Digital Image Processing	October 2012
			A linear current injection generator for the generation of electrons in a nuclear reactor	Electrical India	November 2011
4	Geetanjali	International	Effect of Spatially Correlated Process Variations on Path Timing	International Conference on Recent Trends in Electrical, Electronics, Computing and Communication (ICRTECC - 2014)	15 and 16 Dec 2014
5	Dr Manavaalan	International	Path Tracking control of a Moon rover	Indian Control Conference, IIT Madras, Chennai	Jan,2015

		National	System identification of dual motor ball beam test bed	National Conference on Recent Innovations in Information, Communication Technology And Management (RIICTEM-2015)	21-22 May 2015
		International	Low-Cost Undergraduate Control Systems Experiments Using Microcontroller-Based Control of a DC Motor	IEEE Trans on Education	Vol. 55, no. 4, pp. 508-516, Nov. 2012.
		International	Kinematics Modeling and Design of Motion Controller for a Moon Rover	The 11th International Symposium on Advanced Vehicle Control, Seoul Korea,	9-12 September 2012.
6	Sanjeev G	International	Multi-dimensional Anderson-Darling Statistic Based Goodness-of-Fit Test for Spectrum Sensing	International Workshop on Signal Design and Its Applications in Communications	July 2015
		National	Voice Chat Using Broadband over Powerline: A Step Towards Multimedia Communication over Powerline,	National Conference on Emerging Trends in Engineering Technology and Applied Research (NCETAR),	Bangalore, Jul. 2015
		International	Narrowband Detection of Underwater Acoustic Signal Under Noise Uncertainties	OCEANS 2015, Genova,	Italy, May 2015.



		International	Differential Entropy Driven Goodness-of-Fit Test For Spectrum Sensing	Cognitive Radio Oriented Wireless Networks (CROWNCOM),	Doha, Qatar, Apr. 2015
		International	Energy-Based Bayesian Spectrum Sensing Over $\eta$ - $\mu$ Fading Channels," International Conference on Electronics, Computing and Communication Technologies	International Conference on Electronics, Computing and Communication Technologies	July 2015
		National	Channel Model Characterization and Validation in a Powerline Communication System	National Conference on Emerging Trends in Engineering Technology and Applied Research (NCETAR),	Bangalore, Jul. 2015
		International	Near-optimal detection thresholds for bayesian spectrum sensing under fading," Bangalore, India,	Proc. International Conference on Signal Processing and Communications (SPCOM),	Jul. 2014
		International	Multi-Dimensional Goodness-of-Fit Tests for Spectrum Sensing Based on Stochastic Distances,"	Proc. International Conference on Signal Processing and Communications (SPCOM),	Bangalore, India, Jul. 2014.
		International	Error Exponent Analysis of Energy-Based Bayesian Spectrum	IEEE Global Communications Conference (GLOBECOM), Houston,	TX, USA, Dec. 2011.



			Sensing Under Fading Channels		
		International	Energy Based Bayesian Spectrum Sensing Over $k-\mu$ and $k-\mu$ extreme Fading Channels	International Conference on Electronics, Computing and Communication Technologies, (CONECCT) Bangalore	978-1-4799-6619-6 July,2015
		National	Zero-Crossings Based Spectrum Sensing Under Noise Uncertainties,"	Proc. National Conference on Communications (NCC), Kanpur, India,	Feb-Mar. 2014.
		International	Spectrum sensing with a frequency-hopping primary: From theory to practice,"	International Conference on Communications	June 2014
7	Sanitha Michail C	National	Design of Navigational Aid for the Visually Impaired using Haptic Feedback	4th National Conference on Design Innovations for 3Cs "Compute-Communicate-Control" (NCDI3C-2016)	21-Apr-2016
		National	Design and Development of electrical Distribution Boards for Metro Cars	National Conference on Futuristic Trends in Power Integration and Computing Techniques	7 Nov 2015
		National	A study of debruijn graph based routing algorithm and comparison with mesh and torus topologies	National conference on Design Innovations for 3C's compute communicate control	May 2012
8	Anju Das	International	Cable Shielding to Minimize	Bonfring International Journal of Power Systems and Integrated Circuits	November-15



			Electromagnetic Interference		
		National		National Conference on Futuristic Trends in Power Integration and Computing Techniques	7 Nov 2015
		International	An Overview on Applications of IoT in Different Fields and Challenges Faced	International Journal of Innovative Research in Electrical, Electronics, Instrumentation and Control Engineering (IJIREEICE)	9-Sep-2016
		International	Li-Fi technology - A Survey on the Applications, Advantages and Limitations	International Journal of Emerging Trends in Science and Technology (IJETST)	8-Aug-2016
9	Kashif Ahmed	International	A Stand-alone Hybrid Renewable Energy System: Simulation, Optimization and Comparison	UPA International Journal of Power Systems and Power Electronics (IJPSP)	April-16
				1st International Conference on Reliable Technologies in Power and Energy Systems (RTPES - 2016)	4-Apr-2016
		National	A study of ESTs for power system applications	National Conference on Electrical and Electronics Engineering, HKBK College, Bangalore	June,2014
		National	Auto intensity control of solar based LED street light	National Conference on Electrical and Electronics Engineering, HKBK College, Bangalore	June,2014
		National	Parametric Evaluation of high voltage switches using high voltage set up	National Conference on Electrical and Electronics Engineering, HKBK College, Bangalore	June,2014
		International	Feasibility study of Millimeter	International Journal of Computer Science and Information Security	

			Wave Transmission		
		National	A multi agent based thermal aware task migration scheme in multi core system	National conference on recent trends in Electronic and communication	
		International	A multi agent based thermal aware task migration scheme in multi core system	International journal of innovative research and studies	July,2013
		International	A study of power saving techniques in wireless networks	International Conference on Digital Image Processing	October 2012
10	Sana M K	International	"Vibrator for maintaining body balance"	International Conference on Biotechnology for Innovative Application.	December,2013
11	Varun Kumar	International	Electronic Load controller for self excited induction generator using fuzzy logic controller	IOSR Journal of Electrical and Electronics Engineering	2320-3331 April 2013
12	Shikha Gupta	International	Fixed head economic load scheduling of hydrothermal system using Genetic Algorithm and Differential Evolution Method	International journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)	2320-3765 October,2013
13	Priyanka P	National	Obstacle Avoiding Autonomous Robot	4th National Conference on Design Innovations for 3Cs "Compute-Communicate-Control" (NCDI3C-2016)	21-Apr-2016



		International	Distributed Generation: An Overview	International Electrical Engineering Journal (IEEJ)	Vol. 3 (2012) No. 1, pp. 607-611
		National	Distributed Generation: Its Impact and Cost analysis	Prospects and Problems in the Development, Adoption and Governance of Sustainable Technologies(REAST) 2012	25/5/2012, KIIT University, Bhubaneshwar, Orissa
		National	Application Of Solar Collector For Hybrid Fiber Optics Lighting System	2 <sup>nd</sup> International Conference on National Solar Mission organized by SESI.	Orissa
		National	Solar Power Generation , Distribution And Storage Using MPPT	National Conference On Efficient Energy Management In Urban And Rural Sector organized by Center For development And Technology Foundation (CDT).	Delhi
		National	Analysis On The Combined Operation Of Solar And Conventional Thermal Power System	Institute Of Engineers ,BBSR 2011	21/06/2011
14	Chithra M	International	Analysis of cascaded H bridge multilevel inveter with photo-voltaic Arrays	International conference (IEEE) on emerging trends in Electrical and computer technology	24-25 March 2011
15	Anjani G	International	System reconfiguration and service restoration of primary distribution systems augmented by capacitors using a new level wise approach	Journal of Electrical and Electronics Engineering Research(JEEER)	Vol 3(3),pp 42-51, march 2011

		National	System reconfiguration and service restoration of primary distribution systems augmented by capacitors using a new level wise approach	Journal of Intelligent system Research	Vol 5(1),pp37-52, Jan-June 2011
16	Saranya S	National	Passive Authentication Systems - Interactive And Behavior Based Security	Journal Of Special Issue On Futuristic Trends In Power Integration And Computing Techniques	Nov, 2015
		International	Wireless Automation System Based on 8051 Microcontroller with Surveillance	International Conference On Chip, Circuitry Current,Coding,Combustion & Composites	10-11 Nov,2016
		National	Personal Authentication Using Hand Vein Triangulation” in the year 2011	‘VVSCON’ at Vidya Vikas College of Engineering, Tamil Nadu.	May 2011
		National	Satellite Image Contrast Enhancement Using Discrete Wavelet Transform and Singular Value Decomposition ” in the year 2011	National Conference on Image Processing at Sathyabhama University, Chennai.	June 2011
17	Keka Mukhopadhyaya	International	Modified Hash Function For Searching DNA Sequence	International Conference On Chip, Circuitry Current,Coding,Combustion & Composites	10-11 Nov,2016



		International	Implementation and Verification of TCAM using System Verilog	Bonfring International Journal of Power Systems and Integrated Circuits	November-15
		National		National Conference on Futuristic Trends in Power Integration and Computing Techniques	7 Nov 2015
		International	A Review on Different Methodologies for Searching Genomic Sequences	7th IETE ICon RFW-2014, HKBK College of Engg., B'lore	8-10 May 2014,
18	T Aruna Kumari	International	CableShielding to Minimize Electromagnetic Interference	Bonfring International Journal of Power Systems and Integrated Circuits	November-15
		National		National Conference on Futuristic Trends in Power Integration and Computing Techniques	7 Nov 2015
19	Lousha N	National	Reactive Power and Harmonic Compensation using Inverterless Shunt Active Power Filter	National Conference on Recent Advancements in Engineering and Technology (nCORETech-2014)	25-26 Feb 2014
20	Parikshit	International	Reduction of Parameters in a Lithium ion Cell Model by Experimental validation of Relationship between OCV and SOC	International conference on Innovations in Information, Embedded and Communication Systems (ICIIECS 16)	17th and 18th March 2016
21	JagadishPatra K	International	"Application of bio-inspired mppt techniques for photovoltaic system".-	Springer, ISSN: 18761100, 18761119	Dec 28,2015
		International	"Four level boost	Springer, ISSN: 18761100, 18761119 3.	Dec 28,2015

			converter for linear loads” . - “		
		International	Analysis and modelling of a lead acid battery for traction applications”.-	International Journal Of Vehicle Structures And Systems ISSN:0975-3060	18 <sup>th</sup> & 19 <sup>th</sup> Feb,2016
		International	.”Parameter optimization of three phase boost inverter using genetic algorithm for linear loads”.-	Energy Procedia	15 <sup>th</sup> & 17 <sup>th</sup> Dec,2015
		International	”Soft switched zero voltage transition pwm dc-dc converter for renewable energy applications”.	Elsevier	17 <sup>th</sup> -19 <sup>th</sup> March,2016
		International	”Practical implementation of a 72v dc microgrid for domiciliary applications”.-	Elsevier	17 <sup>th</sup> -19 <sup>th</sup> March,2016
		International	.”A solar-fed novel dc to ac power electronic conversion system	IEEE explore	20-21 April,2016
		International	”Design Of Dc - Dc Sepic Converter For Solar Pv Applications	IEEE explore	20-21 April,2016
21	Tania H	International	”Application of bio-inspired mppt techniques for photovoltaic system” .-	Springer, ISSN: 18761100, 18761119	Dec 28,2015



		International	“Four level boost converter for linear loads”. - “	Springer, ISSN: 18761100, 18761119 3.	Dec 28,2015
		International	Analysis and modelling of a lead acid battery for traction applications”. -	International Journal Of Vehicle Structures And Systems ISSN:0975-3060	18 & 19 Feb,2016
		International	“design, simulation and implementation of current fed isolated full bridge dc-dc with voltage multiplier for fuel cell grid applications”. -	Energy procedia	15 <sup>th</sup> & 17 <sup>th</sup> Dec,2015
		International	“Soft switched zero voltage transition pwm dc-dc converter for renewable energy applications”. -	Elsevier	17-19 March,2016
		International	“Practical implementation of a 72v dc microgrid for domiciliary applications”. -	Elsevier	17-19 March,2016
		International	“A solar-fed novel dc to ac power electronic conversion system	IEEE Explore	20-21 April,2016
		International	“Design Of Dc - Dc Sepic Converter For Solar Pv Applications	IEEE Explore	20-21 April,2016



22	Anup		Ergonomic Intervention in Workplaces: A Human Resource Management Perspective	Published in Advanced Management Practices in Business	Oct 2015
23	Anand	National	Transformerless SMPS for cost minimization of low power rated LED bulbs	National conference on Emerging trends in engineering & Technology	April,2016
		International	Exploring Energy Auditing in Dairy industry	International Journal of Innovative Research in Electrical,Electronics,Instrumentation and Control Engineering	Vol 4, April 2016
24	Jeffina	International	Feed forward neural network approach in navigation control and PI control of Mobile robot	International Journal of Electrical & Electronics Research	Sep,2016

## Computer Science and Engineering

**1. Name of the Department: Computer Science and Engineering (CSE)**

**2. Year of Establishment: 2000**

**3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated masters; Integrated Ph.D., etc.):**

The following programmes are offered in the Department of CSE

Programme	Course	Affiliated University	Year of Establishment	Initial Intake	Present Intake
UG	B.E- CSE	Visvesvaraya Technological University (VTU), Belgaum, Karnataka	2000	60	180
PG	M.Tech CSE		2008	18	24
	M.Tech- Computer Networking and Engineering (CNE)		2010	18	18
Doctoral	Ph.D and Msc by Research		2012	21 Scholars / Guide	

**4. Names of the Interdisciplinary courses and Departments/units involved:**

The interdisciplinary courses and the departments involved are listed below:

Semester	Name of the Course / Subject	Departments Involved
III/IV	Engineering Mathematics III and IV	Basic Science (BS)
III	Discrete Mathematical Structures	
VI	Operations Research	
IV	Graph Theory	
III	Electronic Circuits	Electronics and Communication Engineering (ECE)

**5. Annual/ Semester/ Choice based credit system (Program wise):**

Choice based credit system and Semester-wise System

**6. Participation of the department in the courses offered by other departments:**

The Department of CSE is associated with other departments in handling the following courses:

Sl. No.	Semester	Subjects handled	Department	Subject Code
1	I/II	Programming in C and Data Structures	BS	15PCD13/ 15PCD23
2	VI	Operating Systems	ECE,TCE	10EC65
3	VI	Object Oriented Programming	Electrical and Electronics Engineering(EEE)	10EE664
4	VIII	Data Communication and Networking	EEE	10EE843
5.	VI	Object Oriented Programming	ECE,TCE	

**7. Courses in collaboration with other universities, industries, foreign institutions, etc:**

Sl. No.	Courses	Industry
1	Campus Connect	Infosys
2.	DataBase Design Course	IIT-Madras
3.	DataBase System Online Course	IIT-Madras
4.	Computer Network Training program	Ericsson Networks & Aryaka Networks

**8. Details of courses / programmes discontinued ( if any) with reasons: NIL**

**9. Number of teaching posts:**

	Sanctioned	Filled
Professor	4	4
Associate Professors	8	8
Asst. Professors	34	27+7*

\* Faculty members assigned for handling courses in BS department.

**10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.):**

Sl. No.	Name	Qualification	Designation	Specialization	No of years of Experience	No. of PhD students guided for the
1	Dr.Sanjay Chitnis	M.Tech, Ph.D	Professor	Electrical Engg	26	5
2	Dr.SrinivasaRao	MS, Ph.D	Professor	Computer Science and Engineering	20	-
3	Dr. Vijayabhaskar	M.Tech, Ph.D	Professor	IT	13	-
4	Dr. Parasnath Singh	M.Tech, Ph.D	Professor	Computer Science and Engineering	33	-
5	Mrs.Swathi	M.Tech, (Ph.D)	Associate Professor	Computer Network Engineering	13.5	-
6	Mrs.Lalitha	M.Tech,	Associate Professor	Computer Science and Engineering	20	-
7	Mr.Sudhakar	M.Tech, (Ph.D)	Associate Professor	Computer Science and Engineering	15	-
8	Mr.Kiran	M.Tech, (Ph.D)	Associate Professor	Computer Network Engineering	9.5	-
9	Mrs.Manjima	M.Tech,	Associate Professor	Computer Science and Engineering	9	-
10	Mrs.Shanthi	M.Tech, (Ph.D)	Associate Professor	Computer Science and Engineering	15	-
11	Ms.Savitha	M.E,(Ph .D)	Assistant Professor	Computer Science and Engineering	8	-
12	Mrs.Sagarika	M.tech (Ph.D)	Associate Professor	Computer Science and Engineering	13	-
13	Mrs.Bhavani	M.tech	Assistant Professor	Computer Science and Engineering	7	-

14	Mrs V Aishwrayalakshmi	M.tech	Assistant Professor	Computer Science and Engineering	6	-
15	Mrs Sahana	M.tech	Assistant Professor	Computer Science and Engineering	5	-
16	Mrs Alekhya	M.tech	Assistant Professor	Computer Science and Engineering	4	-
17	Mr. Shivraj	M.tech	Assistant Professor	Computer Science and Engineering	5	-
18	Mrs Snehal	M.tech	Assistant Professor	Software Engineering	4.5	-
19	Mr. Lohith Raj	M.tech	Assistant Professor	Computer Science and Engineering	3	-
20	Mrs Priya	M.E	Assistant Professor	Computer Science and Engineering	4	-
21	Mrs. Poonam	M.tech	Assistant Professor	System Software	7	-
22	Mrs. Rashmi	M.tech	Assistant Professor	Computer Science and Engineering	5	-
23	Mrs Sherly	M.tech	Assistant Professor	Computer Science and Engineering	7	-
24	Ms. Navaneetha	M.E	Assistant Professor	Software Engineering	3.5	-
25	Ms. Madhuri	M.tech	Assistant Professor	Computer Science and Engineering	5.5	-
26	Poornima H N	M.tech	Assistant Professor	Computer Science and Engineering	11	-
27	Mr. Kartheek	M.tech	Assistant Professor	Computer Science and Engineering	3	-
28	Mr Srinivas	M.tech	Assistant Professor	System Analysis and Computer Application		-

29	Mrs Reshma	M.tech	Assistant Professor	Computer Science and Engineering	4.5	-
30	Mr. Pawan Kumar	M.tech	Assistant Professor	Computer Science and Engineering		-
31	Ms Daminderjit	M.tech	Assistant Professor	Computer Science and Engineering	1.1year	-
32	Mrs.Pinchu	M.tech	Assistant Professor	Computer Science and Engineering	2.1	-
33	Mrs.Swetha K V	M.tech	Assistant Professor	Computer Science and Engineering	1.4	-
34	Mrs. Sonali	M.E	Assistant Professor	Computer Science and Engineering	4	-
35	Mrs.D.Komagal Meenakshi	M.E	Assistant Professor	Software Engineering	3	-
36	Mr.Gourish	M.E	Assistant Professor	Computer Science and Engineering	2	-
37	Mr.Manjul	M.E	Associate Professor	Computer Science and Engineering	17	-
38	Mr. Rajeevalochana	M.S	Assistant Professor	Computer Science and Engineering	1	-
39	Mrs. Salini	M.tech	Assistant Professor	Computer Science and Engineering	3	-
40	Mrs Vasantha M	M.tech	Assistant Professor	Computer Science and Engineering	7.5	-
41	Mrs Kruthika	M.E	Assistant Professor	Computer Science and Engineering	2	-
42	Mrs Richa	M.tech	Assistant Professor	Computer Science and Engineering	3	-

43	Mr Arun	M.tech	Assistant Professor	Computer Science and Engineering		-
44	Mr Raghavendra G	M.tech	Assistant Professor	Computer Science and Engineering	3	-
45	Hari Krishnan R S	M.tech	Assistant Professor	Computer Science and Engineering	2	-
46	Anu Jose	M.tech	Assistant Professor	Computer Science and Engineering		-

### 11. List of senior visiting faculty: NIL

### 12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty:

All Classes are handled by regular faculty.

### 13. Student – Teacher Ratio (Programme wise):

Program: B.E CSE

Year	Sanctioned Intake (Department Students Strength 2 <sup>nd</sup> year Onwards)	No of Faculty	Student Teacher Ratio
2016-17	480	32	15:1
2015-16	420	28	15:1
2014-15	360	24	15:1
2013-14	360	24	15:1
2012-13	360	24	15:1

M.Tech-CSE

Year	Sanctioned Intake	No of Faculty	Student Faculty Ratio
2016-17	48	4	12:1
2015-16	48	4	12:1
2014-15	48	4	12:1
2013-14	48	4	12:1
2012-13	48	4	12:1

## M.Tech-CNE

Year	No of Students	No of Faculty	Student Faculty Ratio
<b>2016-17</b>	<b>36</b>	<b>3</b>	<b>12:1</b>
2015-16	36	3	12:1
2014-15	36	3	12:1
2013-14	36	3	12:1
2012-13	36	3	12:1

**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled.**

**ANNEXURE-I.A.**

Academic Support Staff	Sanctioned	Filled
System Analyst	2	2
Programmer	2	2
Instructor	7	7
Office Executive	1	1
Helper	3	3
Total	15	15

**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:**

Sl. No.	Qualification	No. of Faculty
1	Ph.D	4
2	M.Tech(Ph.D)	7
3	M.Tech	35

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**

NIL



### 17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Sl. No.	Granting Agency	Year of Sanction	Grant Amount	Duration	Title of Research / Project
1	DRDO. Project was for AIEL(Aerial Image Exploitation Lab) group of ADE.	2011	21.2 Lakhs	2 Years Dec 2011- Nov 2013	Tracking multiple objects in Aerial Image Sequence from an Unmanned Aerial Vehicle

### 18. Research Center/ facility recognized by the University:

Research Center	Sanctioned Year and letter	Name of supervisor	Research area of supervisor	No. of Students under each supervisor
CSE	2012, RefNo. VTU/Aca./2012-2013/A-5/3686.	Dr.Sanjay Chitnis	Artificial intelligence	5
		Dr.Jhansi Rani	Soft Computing	5
		Dr.Krishnan R	Computer vision and Software Engg.	5
		Dr.Prem Kumar	Internet of Things	2

### 19. Publications

#### \* a) Publication per faculty

Sl. No.	Name	Number of publications					
		2016	2015	2014	2013	2012	2011
	Dr.Sanjay Chitnis	1	2				
1	Dr. R Krishnan	2	3	9	1	3	-
2	Dr. NP Singh	2	1				
3	Swathi.Y		4	1	1	1	-
4	Manoj Challa			8	9	4	1
5	Manimozhi		3	10	1	4	1

6	Sudhakar K N		4	4	-	1	-
7	Shanthi M B	1	2	-	2	1	-
8	Kiran Babu	1	3	2	2	1	1
9	Aparna		-	2	-	-	-
10	Sagarika		4	-	-	2	1
11	Poonam Tijare	2	-	1	-	-	-
12	Sherly Noel		1	-	-	-	-
13	Shruthi		-	1	-	-	-
14	Sundeep Kumar		-	-	10	2	-
15	Dr.Jitendranath Mungara		-	-	2	16	5
16	Dr.Dinesh Anvekar		-	1	1	-	-
17	Sujatha		-	-	5	-	-
18	Manjima R L		-	-	3	1	-
19	Manjunath		-	-	1	-	-
20	Savitha	1	1	1	-	-	-
21	Mahesh D S		-	1	-	1	-
22	Priyadarshini Mishra		-	-	1	1	-
23	Sridevi K N		-	-	-	2	-
24	Banu Priya		-	1	2	-	-
25	Sahana V		1	-	-	-	-
	Navaneetha		3				
	Pavan		1				
	Damindarjeet Sunner	2					
Total		12	33	46	40	40	12

**ANNEXURE-I.B.**

**\* Number of papers published in peer reviewed journals (national / international) by faculty and students:**

No. of publications					
2016	2015	2014	2013	2012	2011
12	33	46	40	40	12

\* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):

Sl. No.	Faculty Name	International Database
1	Dr. Krishnan	Scopus

\* Monographs: NIL

\* Chapter in Books: 1

Sl. No.	Name	Title	Publisher	Year of Publication
1	<b>Dr.Sanjay Chitnis</b>	"Ethics in communication", Chapter in Book: effective Business Communication	By Sudershan Banerjee et al, Center for Education Growth and Research, ISBN 978-93-85000-82-9, pp 247-254	July 2016

\* Books Edited: NIL

\* Books with ISBN/ISSN numbers with details of publishers:

Sl. No.	Name	Title	Publisher	ISBN / ISSN	Year of Publication
1	Dr.Krishnan	Enhancing the COCOA Framework for Tracking Multiple Objects in the Presence of Occlusion in Aerial Image Sequences	Multimedia Processing, Communication and Computing Applications, Lecture Notes in Electrical Engineering 213,P.P Swamy and D.S. Guru (eds.) ©Springer India	DOI: 10.1007/978-81-322-1143-3_18	2013
2	Aparna Manikonda	Internet and Web Technology	Scitech Publications (India) Pvt. Ltd	97886734523127	2011

\* Citation Index:

Sl. No.	Faculty Name	Citation Index
1	Dr. Jhansi Rani P	6
2	Dr.Krishnan	160
3	Manimozhi.I	6
4	Sudhakar K.N	1
5	Manoj Challa	2
6	Aparna	7

\* SNIP: NIL

\* SJR: NIL

\* Impact factor:

Sl. No.	Faculty Name	Impact Factor Range
1	Dr.Sanjay Chitnis	6.047
2	Dr.NP Singh	4.961

3	Dr.Krishnan R	3.876-5.2
4	Dr. Jhansi	2.353
5	Swathi.Y	1.0142-6.047
6	Manimozhi.I	1.0 - 4.4
7	Sudhakar	4.438
8	Manoj Challa	0.4-5.4
9	Shanthi M.B	4.4-5.4
10	Kiran Babu	3.22
11	Aparna	0.4-1.2
12	Daminderjit	2.87
13	Poonam Tijare	3.468
14	Dr.Dinesh Anvekar	1.0-2.0
15	Sherly Noel	4.45
16	Shruthi	0.4
17	Sujatha	1.04
18	Sahana	6.047
19	Savitha	2.05-4.45
20	Mahesh D S	2.05

\* h-index:

Sl. No.	Faculty Name	h-index
1	Dr.Krishnan R	8
2	Manoj Challa	2
3	Sudhakar K.N	1
4	Manimozhi.I	1
5	Aparna	1

## 20. Areas of consultancy and income generated:

Sl. No.	Faculty Name	Company	Area(s) of Consultancy	Amount	Year
1	Sudhakar K.N	Liviosa	ERP Package Development. End Customer: CMR NPS	20000	2013

## 21. Faculty as members in

a) National Committees b) International Committees c) Editorial Boards...

Sl. No.	Faculty Name	Name of the Committee / Editorial Boards	Name of Organization/University	Type of Membership
1	Dr.Sanjay Chitnis	IEEE International Advanced Computing Conference 2015(IACC-2015)-Reviewer	BMS College of Engineering	International
2	Dr.Sanjay Chitnis	IEEE CCEM Pre conference workshop,Program Chair	Crown Plaza,electronic city,Bangalore,2 <sup>nd</sup> feb 2016	International
3	Dr.Sanjay Chitnis	IEEE International Advanced Computing Conference 2015(IACC-2015)-Reviewer	BMS College of Engineering	International
4	Dr.Sanjay Chitnis	ICSE-2014 Totprians-Program Committee Member	Association for Computing Machinery(ACM)	International
5	Dr.Sanjay Chitnis	LIC Core Committee Member for GIT and SJBIT, March 2015	VTU	Editorial
6	Dr.Krishnan	International Workshop on Computational Testing(IWCT-2015)	Institute of Electrical and Electronics Engineers(IEEE)	International
7	Dr.Krishnan	IEEE CCEM Pre conference workshop,Reviewer	Crown Plaza,electronic city,Bangalore,2 <sup>nd</sup> feb 2016	International
8	Manoj Challa	IEEE International Conference on	IEEE	International

		Computer Communication and Control (IC4-2015)-Reviewer		
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## 22. Student projects:

- a) Percentage of students who have done in-house projects including inter-departmental/ Program:

UG:

Sl. No.	Academic Year	Percentage in house
1	<b>2015-2016</b>	<b>88.88%</b>
2	2014-2015	93.02%
3	2013-2014	94.40%
4	2012-2013	100%
5	2011-2012	100%

PG:

Sl. No.	Academic Year	Percentage in house
1	<b>2015-2016</b>	
2	2014-2015	
3	2013-2014	90%
4	2012-2013	92%
5	2011-2012	100%

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies:

UG:

Sl. No.	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
1	<b>2015-2016</b>	<b>11.12%</b>
2	2014-2015	6.97%
3	2013-2014	5.50%
4	2012-13	0

5	2011-12	0
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PG:

Sl. No.	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
	2015-16	100%*
1	2014-2015	100%*
2	2013-2014	10%
3	2012-13	8%
4	2011-12	0

\*3<sup>rd</sup> sem students are doing internship as a part of curriculum.

## ANNEXURE-I.C

### 23. Awards/ recognitions received by faculty and students:

The awards received by faculty are mentioned in the table below:

Sl. No.	Name of the faculty	Name of the Award/recognition	Name of Agency	Year
1	Dr.Sanjay Chitnis	Won First Prize of Rs.5000 in "Ideas for India" competition	Universe Health, Education and Environment Trust	2014
3	Sudhakar K N	Won Third Prize of Rs.3000 in "Ideas for India" competition	Universe Health, Education and Environment Trust	2014
		Speaker & member for Project Development using PHP	CMR IMS(Institute of Management Studies)	2013
		Panel and board member for Eureka 14	CMR IMS(Institute of Management Studies)	2015
4	Manoj Challa	Won Consolation Prize of Rs.2000 in "Ideas for India" competition	Universe Health, Education and Environment Trust	2014
5	Manimozhi.I	Board Member & Scrutinizer for International storage Systems	CMR IMS(Institute of Management Studies)	2015
6	Shanthi M.B	Academic Associate for Information Storage Management v2.0(ISM)	EMC <sup>2</sup>	2014



7	Sahana.V	Secured Silver partnerships at Inspire Campus connect faculty partnership model & Faculty excellence Award.	Infosys	2015
		Awarded A grade at FEP on Foundation program 4.0	Infosys	2014
8	V.Aishwaryalakshmi	Academic Associate for Information Storage Managementv2.0(ISM)	EMC <sup>2</sup>	2014
9	Alekhya.P	Secured Bronze partnership at Inspire Campus connect faculty partnership model & Faculty excellence Award	Infosys	2015
10	Snehal Karwa	Academic Associate for Information Storage Managementv2.0(ISM)	EMC <sup>2</sup>	2014

**Students:** The awards received by students are mentioned in the table below:

Sl. No.	Name of the Student	Name of the Award/recognition	Name of Agency	Year
1	Priyanka Srivastava	University Innovation Fellows Program	Stanford University	2016
2	Priyanka Srivastava	Grace Hopper Celebration of Women in Computing India(GHCI)2016	GHCI 2016 Conference Leadership	2016
3	AKARSH RAMESH	APL Problem Solving Competition	APL Problem Solving Competition	2016
4	Pawani Tungana	Project Exhibition	Eureka 2015	2015
5	Shruthi Varadhan, Sonali Raj, Nishtha Kumar, V Keerthi Kumar	Won second prize in Project Exhibition	SRISHTI	2016

6	Aben George, Siddharth Krishnamurthi, Sargam Garg	Won Consolation prize in Project Exhibition	SRISHTI	2016
7	Ayush Gupta, B Kamini, Fisba Samreen, Ashish Kumar	Won first prize in Project Exhibition	SRISHTI	2016
8	Nidhi Dokania	Grapevine-CCD Valentines Day Activation	Cafe Coffe Day	2016
9	Nidhi Dokania	Runnerup for Mad Adds	SEA College of Engg	2016
10	Nidhi Dokania	Won first prize for Mad Adds	Gopalan College	2016
11	Nidhi Dokania	Mad Adds	MIME	2016
12	Nidhi Dokania	Won second prize for Cultural Street Play	CMRIT	2016
13	Ron Paul Jackson	Participated in Brain Box Quiz	The Chopras	2016
14	Ron Paul Jackson	Participated in Sweden-India Nobel Memorial Quiz	RVCE	2016
15	Nidhi Dokania	Won first prize for Mad Adds	St. John's Medical College	2016
16	Abhiram	Paper presented in National Conference	CMR IMS	2016
17	Pratith Shetty	Won first prize for Mad Adds	St. John's Medical College	2016
18	Sarangh E R	Won first prize for Mad Adds	NMIT	2016
19	Adithya.S,Sharanya and Vaishali	Second best paper award for Paper Presentation at 29 <sup>th</sup> CSI Karnataka State Student Convention	GSSS Engineering and Technology for Women, Mysore	2016

20	Manasa Patagar	Participated in Metro life Fashion show	Deccan Herald	2016
21	Ameneni Akhila, Venkata Srujana V	Participated in shrusti 2016 under project category	CMRIT	2016
22	Preethika Anand, Samreen Taj K P, Vignesh N	Participated in shrusti 2016 under project category	CMRIT	2016
23	T Vinay Kumar, Shankar Prasad T N, Lekha S, Shwetha M	Participated in shrusti 2016 under project category	CMRIT	2016
24	Samreen taj and Priyanka Prakash	Paper Presented at 29 <sup>th</sup> CSI Karnataka State Student Convention	GSSS Engineering and Technology for Women, Mysore	2016
25	Ashwani Bhati, Amresh Kumar, Nikhilesh	Won first prize at Hackathon	CMRIT	2016
26	Ruthvika R, Smruthi Jain, Rishita kalkata, Sai Mounica	Selected for Microsoft Student Partner(MSP) for India	Microsoft	2016
27	Pratith Shetty	Won second runner up in Clean & Clear Fresh Face	Times of India	2015
28	Madhu Patar	Won second prize at TCS(Tata Consultancy Services) Marathon	SJB Institute of Technology	2015
29	Utsav Halder	Elected as President of Student Council. Awarded Leadership Award	CMRIT(CMR Institute of Technology)	2014
30	Shashank Ganesh	Elected as Secretary of Student Council. Awarded Leadership Award	CMRIT(CMR Institute of Technology)	2014
31	Saman Ahmed	Awarded & elected as Outgoing exchange (Bangalore chapter) of world's largest	AIIESEC(Association Internationals des student & Science economics at commercials)	2014

		youth organization, AIESEC.		
32	Juhi Joseph Sai Aproova	Won first place in Ideas for India a competition	Universe Health, Education and Environment Trust	2014
33	Priyanka M Kavya.K	Won Second place in Ideas for India a competition	Universe Health, Education and Environment Trust	2014
34	Aishwarya Jakka	Won Consolation place in Ideas for India a competition	Universe Health, Education and Environment Trust	2014
		Won a consolation prize & cash award of 10,000rs	MANTHAN's Business plan presentation Awards.	2014
35	Saketh Parashar	Finalist of clean & clean fresh face contest, Runner-up in Bangalore region	Fresh Face Contest	2014
36	Vindhya Venkappa	Finalist of clean & clean fresh face contest, Winner in CMRIT college.	Fresh Face Contest	2015
		Model & Promoter for the novel The Nights of Velvet	Penguins Publications.	2014
37	Rahul Kumar Nipun Jaiswal Sandeep U	Winners of Zonal level Robotics Championship India.	CMRIT(CMR Institute of Technology)	2015
38	Shravya P Sai Mounica Rishitha	Winners of Zonal level Robotics Championship India.	CMRIT(CMR Institute of Technology)	2015
39	Prateek Kumar	Microsoft Awardee for Habsen 5 process project	Microsoft	2013
40	Kruthi K kumar	Awarded with good Citation and Award 2013 for the paper Removal of redundancy and conflicts in distributed firewalls at Inter-science	Open Access	2013

		open access journal-		
41	Manasa KM	Awarded as Young Investigator Award for the research paper Backbone node election in presence of misbehaving node using design approach in MANET at Computer Society of Information Technology	Computer Society of Information Technology	2012
42	Sanchari Saha	VTU 1 <sup>st</sup> Rank holder M.Tech	VTU	2010
43	Geetha	VTU 1 <sup>st</sup> Rank holder M.Tech	VTU	2012

### Sports Achievements:

Name of the student	Name of the Award	Name of Agency	Year
Madhu Patar	Won Second place in TCS(Tata Consultancy Services) Marathon	SJB Institute of Technology	2015
Lekha S, Priyanka, Shweta, Anju Krishnan, Juhi Joseph, Swathi G M, Divya Narayanan, Mounica	Won the fourth place in Inter level College VTU tournament for Women's Hockey	VTU	2015
Syama Krishan	Won Second Place for SFS all India football tournament	SFS(ST. FRANCIS DE SALES COLLEGE)	2014
	Won fourth place in Inter level College VTU tournament	VTU	2014
Sheetal MJ	Won fourth place in Inter level College VTU tournament	VTU	2014
Jinu Thomas George	Won fourth place in Inter level College VTU tournament	VTU	2014
	Won Second Place for SFS all India football tournament	SFS(ST. FRANCIS DE	2014

		SALES COLLEGE)	
Luherie William	Won fourth place in Inter level College VTU tournament	VTU	2014
	Won Second Place for SFS all India football tournament	SFS(ST. FRANCIS DE SALES COLLEGE)	2014
Anand Kumar	Won fourth place in Inter level College VTU tournament	VTU	2015
	Was selected as viewer & player for the practice matches for Mumbai Indians	VTU	2013
Deepu NS Yuvraj Singh Naresh Kumar Deepu S N	Won the third place in Inter college zonal level VTU cricket tournament	VTU	2014
Pradeepa	Zonal level player & won second place in VTU tournament	VTU	2013
Deepu S N Yuvraj Singh Naresh Kumar Anand Kumar	Participated and won the first match against Cambridge Institute of Technology which was held at MSR Institute of Technology for VTU cricket selection, Bangalore	VTU	2013
Deepika Vasudevan Kantha Kumari Manasa Patgar	Won fourth place in Inter zonal level throw ball tournament held in KNS Institute of Technology, Bangalore	VTU	2012

#### 24. List of eminent academicians and scientists/ visitors to the department:

Sl. No.	Name of Academicians/ Scientists / Visitors	Name of Company	Title
1	Prof. Jayant Haritsa,	Senior Professor and Chairman, Dept. of Computer Science, IISc	Workshop on Big Data
2	Mr Anoop Singh,	Infosys	Foundation Program 4.0
3	Dr.Srinivas	PESIT	Workshop Research Methodologies
4	Dr.Nataraj	PESIT	Workshop Research Methodologies

5	Dr. Vandana	ICS,SANMAN	Cancer Awareness Programme
6	Dr. P.Sridhar	ICS,SANMAN	Cancer Awareness Programme
7	Dr. Lipika Phari	ICS,SANMAN	Cancer Awareness Programme
8	Nishant Chandra	Data Sciences	Natural Language Understanding: Modeling the NL product
9	Dayananda Lal	Acharya Inst of Tech	Cloud Computing
10	Mr. Sreeranga Raju	BIT	ZRP Protocols in Adhoc Networks
11	Dr.Basavaraj Patil	BTLIT	Predictive Analytics- Industry Challenges and solutions
12	Dr.Anjaneyalu	Infosys	UML
13	Dr.Syed Naimathullah	BTLIT	Artificial Intelligence
14	Dr. Shivanand Handigund	BIT	A Review of Software Management for selection of best tools and techniques
15	Dr. S. Sreekanth	SITAMS	A Feasible key management scheme in adhoc networks
16	Dr.Venkateshwarulu	TCS	Towards Near Real time Data Warehousing and business Intelligence
17	Dr. Dattatreya P Sharma	Guruprevalis	Machine learning and Natural processing

**1. Seminars/ Conferences/ Workshops organized and the source of funding:**

## a) National Workshops

Sl. No.	Title	Organizer	Year	No. of Participants	Resource Person	Funding Agency
1	Workshop on Big Data	CMRIT, Bangalore, IEEE	2016	150	Prof. Jayant Haritsa, Senior Professor and Chairman, Dept. of Computer Science, IISc	CMRIT
2	Foundation Program 4.0	Infosys	2015	40	Mr Anoop Singh, Infosys	CMRIT
3	Workshop Research Methodologies	CMRIT	2015	60	Dr. Srinivasn, Professor, PESIT, Bangalore Dr. Natrajan S, Professor, Dept. of ISE, PESIT, Bangalore	CMRIT
4	Workshop on Design Thinking	CMRIT	2014	60	Mr. Roopesh Dolle, Internal Strategic Consultant, Mr. Arindam Bhattacharyya, Strategic Consultant Expert, Mr. Krishna, Senior Manager, SAP Productivity Consulting Group – APJ, SAP Labs India, Bangalore	CMRIT



5	Workshop on MS-Office Fundamentals With Google Apps	CMRIT	2015	50	Mr Sudhakar K N and CSE, ISE faculties	CMRIT
6	Workshop on NS-2 Simulator	CMRIT/ Computer Society of India (CSI)	2014	40	Mr. Deepak Nadiga, Director Research and Technology, Solutt Corporation.	CMRIT/ Computer Society of India (CSI)
7	Workshop on Robotics	ARK Techno Solutions	2012	20	Mr. Subhajeet Laga, Technical Associate, ARK Techno Solutions	ARK Techno Solutions

### Seminars

Sl. No.	Title	Organizer	Year	No. of Participants	Resource Person	Funding Agency
1	An Empowering Road Map to Masters and PhD Programs in USA in Fall 2017 and beyond- Prospects, Opportunities and Motivations for Academic and Career fulfillment	CMRIT	2016	30	Mr. Samudranil Chatterjee, Founder Mentor of <i>Educidate</i>	CMRIT
2	Wide Range Air Fuel Sensor	CMRIT	2016	35	Mr Ganesh S, Technical Manager- Powertrain – SW Development and Validation, DELPHI	CMRIT

3	Invited Talk on Computer Networks	CMRIT	2016	300	Mr Aseem Sethi, CISCO	CMRIT
4	IBM Webinar Series - Leader Talk 2	CMRIT	2015	40	Mr Sanjiv Jain Associate Director - HR, IBM India & South Asia	CMRIT
5	Industry perspective on Software Architecture and Design using UML	CMRIT	2015	35	Mr. Lakshminarayana ,Senior architect, Nokia Siemens	CMRIT
6	Dealing with Web Scale Data	CMRIT	2015	50	Mr. Gautham Pai, Mrs, Shreelaxmi Gautham, Mr. Radha Krishna Nayak, Jnaapti	CMRIT
7	Microsoft Azure	CMRIT	2015	50	Mrs. Lavanya Kasarabada, Microsoft Corporation, Redmond. Seattle, USA	CMRIT
8	Indian Cancer Society (Doctors), Sanman Society	CMRIT	2015	20	Sridhar Pillalamarri	CMRIT
9.	The role of entry level engineer in the IT industry	CMRIT	2015	60	Mr.Krishna Venkatachalayya, SAP Labs.	CMRIT
10.	Natural Language Understanding: Modeling the NL product	CMRIT	2014	135	Dr. Nishant Chandra, Associate Director,Data Science, [24]7 Innovation Labs, Bangalore	CMRIT
11.	Challenges Faced in S/w Development of Automotive Infotainment	CMRIT	2014	135	Mr. Rohit and Mr. Sabita, TCS, Bangalore	CMRIT

12.	In-Memory Computing	CMRIT	2014	100	Mr. Sharath Jois and Mr. Sumit Kumar Ghanty, SAP Labs, Bangalore	CMRIT
13.	Cloud Computing	CMRIT	2014	135	Mr. Dayananda Lal. NASst. Professor, Dept. of CSE, Acharya IT, Bangalore	CMRIT
14.	Beyond Boundaries	CMRIT	2014	135	Ms. Binita Parekh Director, Beyond Boundaries, Bangalore	CMRIT
15	Careers Related to Management and Government services	CMRIT	2014	135	Mr. Ashfaq Ahmed Sr. Consultant, Vista Minds	CMRIT
16	Machine learning and Natural processing	CMRIT	2012	60	Mr. DattatreyaP Sharma Technical Architect Guruprevalis, Bangalore	CMRIT
17	Predictive Analytics- Industry Challenges and solutions	CMRIT	2012	60	Dr. Basavaraj Patil Professor and Head, Dept of CSE, BTLIT, Bangalore	CMRIT
18	ZRP Protocols in Adhoc Networks	CMRIT	2011	60	Mr. Sreeranga Raju Professor, BIT, Bangalore	CMRIT
19	Towards Near Real time Data Warehousing and business Intelligence	CMRIT	2011	50	Mr. C. Venkateshwarlu Sr. Business Intelligence Consultant, TCS, Bangalore	CMRIT
20	A Review of Software Management for selection of best tools and techniques	CMRIT	2011	50	Dr. Shivanand Handigund Professor, BIT, Bangalore	CMRIT
21	A Feasible key management scheme in adhoc networks	CMRIT	2011	60	Dr. S. Sreekanth Professor, SITAMS Chittor	CMRIT

b) International: NIL

### 26. Student Profile programme /course wise:

Name of the Course/ Program		Applications Received	Selected	Enrolled		Pass percentag e
				*M	*F	
Computer Science						
B.E CSE	2016-17	190	182	106	76	NA
	2015-16	198	194	112	82	NA
	2014-15	180	167	96	71	NA
	2013-14	130	122	76	46	NA
	2012-13	130	125	70	55	92.75
	2011-12	130	128	80	48	95.39
M.Tech-CSE	2016-17	10	7	3	4	NA
	2015-16	19	19	4	15	NA
	2014-15	19	18	5	13	100%
	2013-14	19	19	8	11	100%
	2012-13	23	22	9	13	100%
	2011-12	19	18	8	10	100%
M.Tech-CNE	2016-17	10	2	0	2	NA
	2015-16	15	11	3	8	NA
	2014-15	18	15	7	8	100%
	2013-14	15	13	4	9	100%
	2012-13	17	16	6	10	100%
	2011-12	20	18	8	10	100%

\*M = Male \*F = Female

### 27. Diversity of students:

Name of the Course		% of students from the same state	% of students from other States	% of students from abroad
UG-CSE	2016-17	75.27	21.97	0.02
	2015-16	72.68	23.19	0.04
	2014-15	65.26	31.13	3.59
	2013-14	72.95	24.5	2.45
	2012-13	68.8	28	3.2
	2011-12	63.28	34.3	2.34
PG-CSE / CNE	2016-17	78.57	21.42	-
	2015-16	94.73	1.05	-
	2014-15	96.96	3.03	-
	2013-14	96.87	3.13	-
	2012-13	97.36	2.63	-
	2011-12	83.33	16.6	-

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

Sl. No.	Year	Type of exam(NET, SLET, GATE, Civil services, Defense services, etc.)	Number Of Students
1	2016	Ph.D Entrance Exam -VTU	-
		GATE	1
2	2015	Ph.D Entrance Exam -VTU	3
		GATE	2
3	2014	Ph.D Entrance Exam -VTU	4
		GATE	4
4	2013	Ph.D Entrance Exam -VTU	3
		GATE	2

**29. Student Progression:**

Student progression	Against % enrolled				
	2015-16	2014-15	2013-14	2012-13	2011-12
<b>UG to PG</b>	2.64	6.62	1	1	1
<b>PG to M.Phil.</b>	-	-	-	-	-
<b>PG to Ph.D.</b>	3	12	9	-	-
<b>Ph.D to Post-</b>		-	-	-	-
<b>Employed</b>					
•Campus selection	83.44	69.5	51.03	40	34
•Other than campus recruitment	2.64	6.62	10.34	30	44
<b>Entrepreneurship/ Self-employment</b>		-	1	1	1
<b>Others</b>		11	11	28	20

**30. Details of Infrastructural Facilities:**

a) Library:

Sl. No.	Area	No. of books	No. of mono graphs	No. of CDs	No. of journals	No. of reports	*Misc
1	24 Sq.mts	361	-	419	93	704	30

\* includes syllabus, Question Papers, Magazines, Newsletters.

b) Internet facilities for Staff & Students:

Staff and student of the department have access to the campus wide Wi-Fi connectivity. Internet service providers: BSNL 10Mbps +Bell Teleservices 30Mbps, making a total of 40 Mbps.

c) Class room with ICT Facility:

Sl. No.	Room No.	Shared / Exclusive	Area in Sqmts	Teaching aids
1.	CSE – LH-501	Exclusive	83.6 Sq. Mtrs	Portable LCD Projector., System, Wifi Enabled.
2.	CSE – LH-502	Exclusive	82.8 Sq. Mtrs	
3.	CSE – LH-503	Exclusive	71.15 Sq. Mtrs	
4.	CSE – LH-504	Exclusive	88 Sq. Mtrs	Fixed LCD Projector, CPU, Wifi Enabled.
5.	CSE – LH-505	Exclusive	88 Sq. Mtrs	Fixed LCD Projector, CPU, Wifi Enabled.
6.	CSE – LH-506	Exclusive	84.66 Sq. Mtrs	Portable LCD Projector., System, Wifi Enabled.
7.	ISE- LH 207	Shared	88 Sq. Mtrs	
8.	CSE – M.Tech (CSE)	Exclusive	60 Sq. Mtrs	
9.	CSE – M.Tech (CNE)	Exclusive	60 Sq. Mtrs	

d) Laboratories:

Sl. No.	Name of Laboratory	Area	Major Equipments	Total Investment/ Amount spent
1.	Data Structure/Project Lab	130 Sq Mtr	HP d290, Intel Pentium 4 Processor, 2 GB RAM, 80 GB HDD, 18" TFT DELL Monitor, Projector	9,28,845.00
2.	Electronic Circuits and Logic Design LAB	110 Sq Mtr	18- Lenovo Think Centre, Intel Core 2 Duo, 4 GB RAM, 320 GB HDD, 18.5" TFT Monitor 6- HP d290, Intel Pentium 4 Processor, 2 GB RAM, 80 GB HDD, 17" TFT Monitor. 14- Oscilloscope (CRO), 24- Digital Trainer Kit, 14- Signal Generator, 7- Digital Multimeter, Rack.	14,84,707.00
3.	Data Base Management System /	110 Sq Mtr	Lenovo Think Centre, Intel Core 2 Duo, 4 GB RAM, 320 GB HDD, 18.5" TFT Monitor, Printer, Projector	8,01,688.00
4.	System Software and Operating System / Algorithms Lab	110 Sq Mtr	Lenovo Think Centre, Intel Core 2 Duo, 4 GB RAM, 320 GB HDD, 18.5" TFT Monitor, Printer	7,67,243.00
	Microprocessor LAB	110 Sq Mtr	18- Lenovo Think Centre, Intel Core 2 Duo, 4 GB RAM, 320 GB HDD, 18.5" TFT Monitor, 6- HP d290, Intel Pentium 4 Processor, 2 GB RAM, 80 GB HDD, 17" TFT Monitor, PCI Cards, I/F Card - Dual Dac, Elevator, Logic control, Matrix Keyboard, Seven Segment, Stepper Motor	825,074.00

5.	Network Lab /Unix System Programming	110 Sq Mtr	Lenovo,Think Centre, Intel Pentium Dual Core,3 GB RAM,160 GB HDD,17" TFT Monitor,Printer	7,34,284.00
6.	WEB Programming /Computer Graphics LAB	110 Sq Mtr	Lenovo,Think Centre, Intel i3 Processor3 GB RAM,5000 GB HDD,18" TFT Monitor,Printer	7,39,296.00
7.	M.Tech CSE lab	70 Sq Mtr	2-HP d290,Intel Pentium 4 Processor, 2 GB RAM,80 GB HDD,18" TFT DELL Monitor,16- HP Dx2480,Intel Core 2 Duo,3 GB RAM,160 GB HDD, 17" TFT Monitor	5,11,800.00
8.	M.Tech CNE lab	70 Sq Mtr	2-HP d290,Intel Pentium 4 Processor,2 GB RAM,80 GB HDD,18" TFT DELL Monitor,16- HP Dx2480,Intel Core 2 Duo,3 GB RAM,160 GB HDD, 17" TFT Monitor	5,13,800.00
9.	Computer Programming Lab1	100 Sq Mtr	Lenovo Edge 72 Hero,Intel Core 2 Duo,4 GB RAM,500 GB HDD,18" TFT Monitor,Projector	10,45,368
10.	Computer Programming Lab2	100 Sq Mtr	Lenovo Edge 72 Hero,Intel Core 2 Duo,4 GB RAM,500 GB HDD,18" TFT Monitor,Projector	10,45,368

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Year	No of students receiving financial assistance
2016-17	171
2015-16	45
2014-15	127



2013-14	86
2012-13	36
2011-12	16

Scholarship Details for Last Four Academic Years														
Sl. No.	Name of the Institutional Organization	Details	2016-17		2015-16		2014-15		2013-14		2012-13		2011-12	
			No. of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.
1	Social Welfare	S C/ S T	3	125060	-	-	08	316750	25	936200	3	48720	3	48720
2	Backward Classes	O B C	75	1317400	20	3090390	36	639310	07	124540				
3	Directorate of Technical Education	D e f e n c e	-	-	1	3090	14	455960	07	236480	5	147225	5	147225
4	State organization-Arivu loan Karnataka aka Minorities Development Corp. Ltd	M i n o r i t y	33	1413050	-	-	-	-	7	141200	12	431100	10	420000

5	Samaja Kalyan Dept	B C M - o t h e r s t a t e	2	8144 0	-	-	40	168 870 0	4	723 60				
6	Taluk Samaj	S C/ S T	2	5162 0 4271 0	13	53031 0								
7	CMRIT		56	5600 00	11	11000 0	20	200 000	16	160 000	10	1000 00	10	100 000
8	AICTE	G A T E							4	384 000				
9	SNQ	C M R I T					9	297 000	6	198 000	6	1980 00	6	198 000

### 32. Details on student enrichment programmes (special lectures / workshops /Seminar) with external experts:

#### Details of Seminars/Expert Lectures:

Sl. No.	Lectures/ Workshops/ Seminar	Guest Speaker	Company Name	Date	No. of Students participated
1	An Empowering Road Map to Masters and PhD Programs in USA in Fall 2017 and beyond Prospects, Opportunities and Motivations	Mr. Samudranil Chatterjee,	Founder Mentor of <i>Educidate</i>	24 <sup>th</sup> September 2016	30

	for Academic and Career fulfillment				
2	Wide Range Air Fuel Sensor	Mr Ganesh S,	Technical Manager- Powertrain – SW Development and Validation, DELPHI	4 <sup>th</sup> August 2016	35
3	Invited Talk on Computer Networks	Mr Aseem Sethi,	CISCO	8 <sup>th</sup> October 2016	300
4	IBM Webinar Series - Leader Talk 2	Mr Sanjiv Jain	Associate Director - HR, IBM India & South Asia	23 <sup>rd</sup> Feb 2016	40
5	Industry perspective on Software Architecture and Design using UML	Mr. Lakshminarayana ,	Senior architect, Nokia Siemens	17 <sup>th</sup> October 2015	35
6	Dealing with Web Scale Data	Mr. Gautham Pai, Mrs, Shreelaxmi Gautham, Mr. Radha Krishna Nayak	Jnaapti	24 <sup>th</sup> August 2015	50
7	Microsoft Azure	Mrs. Lavanya Kasarabada,	Microsoft Corporation, Redmond, Seattle, USA	10 <sup>th</sup> July 2015	50
8	The role of entry level	Mr.Krishna Venkatachalayya	SAP Labs	23 <sup>rd</sup> February 2015	60

	engineer in the IT industry				
9	Natural Language Understanding: Modeling the NL product	Dr. Nishant Chandra Associate Director,	Data Science, [24]7 Innovation Labs, Bangalore	9 <sup>th</sup> Dec 2014	60
10	Challenges Faced in S/w Development of Automotive Infotainment	Mr. Rohit and Mr. Sabita	TCS, Bangalore	11 <sup>th</sup> Oct 2014	50
11.	In-Memory Computing	Mr. Sharath Jois and Mr. Sumit Kumar Ghanty	SAP Labs, Bangalore	12 <sup>th</sup> Aug 2014	70
12.	Cloud Computing	Mr. Dayananda Lal. N Asst. Professor	Dept. of CSE, Acharya IT, Bangalore	11 <sup>th</sup> Aug 2014	50
13.	Careers Related to Management and Government services	Mr. Ashfaq Ahmed Sr. Consultant,	Vista Minds	24 <sup>th</sup> March 2014	60
14	Machine learning and Natural processing	Mr. DattatreyaP Sharma	Technical Architect Guruprevalis , Bangalore	22 <sup>nd</sup> March 2012	70
15	Predictive Analytics- Industry Challenges and solutions	Dr. Basavaraj Patil Professor and Head,	Dept of CSE, BTLIT, Bangalore	8 <sup>th</sup> March 2012	90
16	ZRP Protocols in Adhoc Networks	Mr. Sreeranga Raju Professor	BIT, Bangalore	21 <sup>st</sup> September 2011	90
17	Towards Near Real time Data Warehousing and business Intelligence	Mr. C. Venkateshwarlu	Sr. Business Intelligence Consultant, TCS, Bangalore	20 <sup>th</sup> September 2011	110

18	A Review of Software Management for selection of best tools and techniques	Dr. Shivanand Handigund Professor	BIT, Bangalore	24 <sup>th</sup> August 2011	50
19	A Feasible key management scheme in adhoc networks	Dr. S. Sreekanth Professor	SITAMS Chittor	27 <sup>th</sup> April 2011	70
20	Beyond Boundaries	Ms. Binita Parekh Director	Beyond Boundaries, Bangalore	27 <sup>th</sup> March 2014	80

#### Details of Workshop:

Sl.No	Lectures/ Workshops/ Seminar	Guest Speaker	Company Name	Date	No. of Students Participated
1	Workshop on Big Data	Prof. Jayant Haritsa,	Senior Professor and Chairman, Dept. of Computer Science, IISc	9 <sup>th</sup> -13 <sup>th</sup> feb 2016	40
2	Foundation Program 4.0	Mr Anoop Singh,	Infosys	14 <sup>th</sup> july 2015	50
3	Workshop Research Methodologies	Dr. Srinivasn, Dr. Natrajan S,	Professor, Dept. of ISE, PESIT, Bangalore	14 <sup>th</sup> feb 2015	40
4	Workshop on MS-Office Fundamentals With Google Apps	Mr Sudhakar K N and CSE, ISE faculties	Associate Professor ,Dept of CSE	8 <sup>th</sup> and 9 <sup>th</sup> Jan 2015	60
5	Workshop on Design Thinking	Mr. Roopesh Dolle, Internal Strategic Consultant, Mr. Arindam Bhattacharyya	SAP Productivity	7 <sup>th</sup> November 2014	110

		, Strategic Consultant Expert, Mr. Krishna, Senior Manager			
6	Workshop on NS-2 Simulator	Mr. Deepak Nadiga, Director Research and Technology Solutt	Solutt Corporation.	27 <sup>th</sup> to 28 <sup>th</sup> June 2014	60
7	Workshop on Robotics	Mr. Subhajeet Laga, Technical Associate,	ARK Techno Solutions	2 <sup>nd</sup> to 3 <sup>rd</sup> February 2012	50
8	UML	Dr. Anjaneyulu	Infosys Bangalore	20 <sup>th</sup> January 2012	70
9	Oriented Cloud Computing and the Aneka Platform	Dr. Rajkumar Buyya, Chief Executive Officer, Dr. Manjunath, Project Manager,	Manjrasoft, Melbourne, Australia and Syslog Technologies, Bangalore	23 <sup>rd</sup> September 2011	50
10	Database Applications	Dr. Venkateswarlu,	TCS, Bangalore	25 <sup>th</sup> June 2010	60

### 33. Teaching methods adopted to improve student learning:

The faculty members aim to deliver their lectures in an effective manner to enrich the knowledge of the students community. Some of the innovative teaching methodologies adopted are:

- Power point presentations which includes presentation of videos for understanding of few topics/ Black board Teaching.
- Lab Instruction sessions for the practical experience with respect to Lab

oriented subjects

- Lab Refinement Committee (LRC) has been formed with the aim of monitoring the quality of lab conduction.
- Additional projects and publications based on the projects exist, which helps students to perform innovatively and can be motivated for further research blend.
- 'Programming Lab' has been introduced in order to improve the technical competency and logical thinking for further placement process.
- Expertlectures and workshops are organized by the respective faculty to bridge the gap between the curriculum and industry requirements.
- Individual faculty web pages are created.
- Intensive coaching Programme (ICP) classes are being conducted for the weaker students who are identified through their Internal Assessment test performance.
- Remedial Classes have been conducted for the failed students in the following semester to help them pass the subjects.
- Tutorial classes are provided for analytical courses in every semester as per the scheme
- Industry sponsored projects
- Seminars, lectures
- Home assignments
- Pairing intelligent and dull student
- Faculty Demo
- Crash course

#### **34. Participation in institutional social responsibility (ISR) and extension activities:**

- Volunteered Blood Donation Camp conducted in the college.
- Clean sweep abhayan- by CSE students Team.
- CSE students has won first prize for "Ideas for India", contest.
- CSE Students were runner-ups for "Clean and Clear Face", contest.
- Conducted a workshop on Microsoft office for sister concerned colleges of CMR group.
- Computers donated to various government schools.

#### **35. SWOC analysis of the department and Future plans:**

### **Strengths:**

- Motivated and vibrant faculty pursuing research under guidance of the senior faculty from renowned institutes.
- Strong teaching learning process with an emphasis on continuous improvement, and research to adapt to changing times.
- Excellent infrastructure - Class room, laboratory, staff room etc.
- Very good placement record as the institute was in the midst of IT companies.

### **Weakness:**

- R & D and External consultancy should be strengthened.
- Focus on entrepreneurial ventures to be increased.
- Lack of academic flexibility.

### **Opportunities**

- To get funded projects and research innovations from various organizations.
- To have consultancy and other industry involvement.

### **Challenges**

- To balance academic focus with extra-curricular and all-round development related activities for the students.
- To improve consultancy related work in department.
- Faculty gender ratio to be improved.

### **Future Plan:**

- To achieve academic excellence by getting 100 % result with good number of university ranks in our UG and PG programs.
- To be ranked among the top three Departments in VTU.



**ANNEXURE-I**

- A. Details of academic support staff (technical) and administrative staff; sanctioned and filled

**For the Academic year 2016-2017**

Sl. No.	Name	Designation	Experience
1	Mr. GanapathiShet	System Admin	6 Years
2	Mr. JayaramanR	System Admin	1.5 Years
6	Ms.Namitha	Foremen	2.5 Years
8	Mr.Nirajan M.L	Lab Instructor	
9	Mr. Gopinath	Lab Instructor	3 Years
10	Mr.Prasanna N	Lab Instructor	2 Years
11	Mr.Niranjana ML	Lab Instructor	
12	Mr. Muttu Kumar P	Lab Instructor	
13	Mr.Piyush Kumar jha	Lab Instructor	
14	Mr.Kedar Prasad	Lab Instructor	
15	Mr.Mohammed Farook	Clerk-cum-Typist	3 Years

**For the Academic year 2014-2015**

Sl. No.	Name	Designation	Experience
1	Mr. GanapathiShet	System Analyst	6 Years
2	Mr. JayaramanR	System Analyst	1.5 Years
3	Prakash B	Programmer	3 Years
4	Madhu Chethan	Programmer	8 Years
5	Mr. Pawan G	Lab Instructor	3 Years
6	Ms.Namitha	Lab Instructor	2.5 Years
7	Mr. RamchandraKulkarni	Lab Instructor/Formen	3 Years
8	Mr.Nirajan M.L	Lab Instructor	
9	Mr. Gopinath	Lab Instructor	3 Years
10	Mr.Prasanna N	Lab Instructor	2 Years
11	Ms.Sai Puspha Latha	Lab Instructor	2 Years
12	Mr.Mohammed Parook	Clerk-cum-Typist	3 Years

## B. Faculty Publication Details

July 2016- June 2017				
Sln o.	Name of the faculty	Title of the paper	Name of the conference/journal	Publication Details
1	Dr. Sanjay Chitnis	Intelligent System for VIP Route and Traffic Management	8th Annual KSTA Conference on Science and Technology for GenNext Urban Space	November 2016
2	Dr.Krishnan	A Preliminary Survey on Combinatorial Test Design Modeling Methods"	IJSER Volume 7, Issue 7	July 2016
3	Dr.Krishnan	Regression Test Suite Prioritization using Residual Test Coverage Algorithm and Statistical Techniques 2016.	Published Online in MECS Education and Management Engineering,	September 2016
4	Dr. P. N. Singh	Cyber Bullying- Horrors, analysis & remedies in India	IJRIM,ISSN 2231-4334	July 2016
5	Dr. P. N. Singh	Context Oriented Programming – A better Software Engineering Prospective	104 <sup>th</sup> Indian Science Congress 2017	3 <sup>rd</sup> to 7 <sup>th</sup> Jan 2017
6	Ms. Daminderjit Sunner	Agile: Adapting to need of the hour	IEEE digital library	21-23 July 2016

7	Ms. Daminderjit Sunner	Classification of Functional & Non Functional Requirements in Agile by Cluster Neuro Genetic Approach	International Journal of Software Engineering and its Applications .IJAST	Vol. 10, No. 10 (2016),pp. 129-138
8	Mrs. Shanthi MB	A SURVEY ON RESEARCH CHALLENGES AT THE NETWORK LAYER OF UNDER WATER WIRELESS SENSOR NETWORKS (UW-WSN)	International Journal of Scientific Engineering and Applied Science(IJSEAS)	Volume2,Issue7, July 2016
9	Mrs.Poonam T	A software Defined D-D communication architecture for public safety applications in 5G networks,	National conference NCRTCW-16	September 2016
10	Mrs. Poonam T	“Data Analytics on Traffic Dataset Using Bigdata”	International Journal of Current Trends in Engineering & Research (IJCTER), Vol 2, Issue 8, , pp. 55-69	August 2016
11	Mr.Kiranbabu	On Network Traffic Aggregation and Partition Using Map-reduce for Big Data Applications.	ICACT	August2016
12	Ms.Savitha	Discerning border casting location oriented zone routing-protocol for MANET	International Research Journal of Engineering and Technology(IJRET)	Volume3,Issue 7,July 2016.

July 2015- June 2016				
1	Dr.Sanjay Chitnis	Continuous user authentication using touch gesture statistical images for smartphone	International journal of research in computer applications and robotics issn 2320-7345	July 2015
2	Dr.Sanjay Chitnis	SUPERBLAST: An advanced gene sequencing algorithm for Hadoop platform in Bio-informatics era	International Journal of Advance Research in Computer Science and Management Studies	May 2016
3	Dr.Krishnan	Multi-object Tracking in Aerial Image Sequences using Aerial Tracking Learning and Detection Algorithm, ,	Defence science Journal, Vol. 66, No. 2, pp 122-129	March 2016,
4	Dr.Krishnan	Test Suite Design Methodology using Combinatorial Approach for Internet of Things Operating Systems.	Scientific Research Publishing, Journal of Software Engineering and Application	November 2015
5	Dr.Krishnan	"Broken Kannada Character Recognition- a Neural Network based approach “.	IEEE-ICEEOT-2016, DMI College of Engineering, Chennai.	March 3 - 6,2016
6	Dr. PN.Singh	Adaptive Load Detection Technique for Effective Virtual Machine Consolidation	International Journal of Electrical, Electronics and Computer	June 2016

			Engineering, ISSN No. (Online): 2277- 2626, 5(1): 9- 14(2016)	
7	Mrs. Swathi Y	Implementation of Board Games Using Monte-Carlo Simulation.	International, Journal of Innovative Research in Computer and Communication Engineering(IJI RCCE), Volume 4, Issue4	April 2016
8	Mrs. Swathi Y	Big data Analytics towards guaranteed loan repayment of Corporate Firms.	International Conference on Convergent,  Innovative Technologies,  CITECH	May 2016.
9	Mrs. Swathi Y	Data Analytics Adopting K Nearest Neighbor Techniques for Big Data.	International Journal of Emerging Trends & Technology in Computer Science (IJETTCS), Volume 5, Issue 3, ISSN 22786856	May-June 2016.
10	Mrs. Swathi Y	Multimedia and Text Content Protection through Simple Signature Generation in Cloud Environment,	International Journal of Advanced Research in Computer	May 2016.

			Science and Management Studies(IJARC SMS), Volume 4, Issue 5,	
11	Mr. Kiran Babu	Cost Efficient Algorithm for limiting the number of relays in Delay Tolerant Networks.	ICACT	12th May 2016
12	Mr. Kiran Babu	Avoid Black hole attacks in MANETS using CBDA Approach.	ICACT	June 2016
13	Mr. Kiran Babu	Cost Efficient Algorithm for limiting the number of relays in Delay Tolerant Networks.	ICACT/ AMC Engineering College	June 2016
14	Mrs. Shanthi MB	DYANAMIC CLOUD HOSTING SERVICES, A COST OPTIMIZED SOLUTION FOR STARTUPS	International Journal of Science Engineering and Computing(IJSEC)	ISSN 2321 3361, June 2016
15	Mrs. Shanthi MB	Time Synchronized Fair Data Transmission In Secure UWSNs	International Journal of Science and Research(IJSR)	Volume 4 Issue 6, June 2015
16	Mrs. Sahana	Improving HDFS Storage Efficiency by Implementing Block Level De-Duplication - V4I5,	Volume 4, Issue 5- 0039ISSN: 2321-7782 (Online)Impact Factor:6.047	May 2016
17	Mrs. Sagarika Behera	A Framework, Secure and Trustworthy Assessment for Credibility Based Trust Management for Cloud Services.	IJRITCC, Volume 4, Issue 5	May 2016

18	Mrs. Sagarika Behera	A packet forgery and packet drop attack detection using efficient Encoding and Decoding mechanisms,	IJRITCC, Volume 4, Issue 5.	May 2016
19	Mrs. Sagarika Behera	Cost Efficient Algorithm for limiting the number of relays in Delay Tolerant Networks .	International Conference on Advanced Computing Techniques, AMC Engg College	June 2016
20	Mrs. Sagarika Behera	An Efficient and Dynamic Search Method for Encrypted Data on Cloud,	IEEE Cloud Computing for Emerging Markets Conference	June 2016
21	Mrs. Sherly Noel	SRE-MANet routing protocol with IDS for SDA	International research Journal of Engineering and Technology(IJRET)	Volume3, Issue5, May 2016
22	Ms. Navaneetha	Hiding of virtualization from attacks.	IJARCCCE	11/11/2015
23	Ms. Navaneetha	An enhanced privacy access and accountable security management in wsn,	IJARCCCE	7/03/2016
24	Ms. Navaneetha	An enhanced privacy access and accountable security management in wsn,	Emerging trends in science and technology	4th & 5th MARCH 2016
25	Mr. Pavan Kumar	Predicting and Extending of Sensor Lifetime in Wireless Sensor Networks using Fuzzy Logic	IJSR, Volume 4 Issue 6	June 2015

2011-15

Sl. No.	Name of the Faculty	Title of the paper	Seminar/ Conference	Name of the Journal	Publication Details
1.	Swathi.Y	Game Theory Approach on Security Strategy in Wireless Sensor Networks	International Journal	International Journal of Research in Information Technology(IJRIT)	Volume 2, Issue 6,Pg: 519-523, June 2014
		Multi Channel MAC Protocol Optimization for TDMA multimedia to improve efficiency in wireless adhoc network	International Journal	International Journal of Scientific and Engineering Research(IJSE R)	Volume 3, Issue 8, Aug-13
		A General Framework for System Modeling and Simulation Types	International Journal	International Journal of Advanced Research in Computer Science and Software Engineering(IJARCSSE)	Volume 3 Issue 6, Jun-13
		Improving Routing in Infected Areas of Wsn Using Fuzzy Clustering	International Journal	International Journal of Research in Computer Applications and Robotics(IJRCAR)	Vol.3 Issue.5, Pg.: 56-61 May 2015
		Securing Broker-less Publish/Subscribe System using Fuzzy	International Journal	International Journal of Computer Science and	Vol. 6 (3), 2015, 2823-2826 May 2015



		Identity-Based Encryption		Information Technologies	
2.	Sudhakar.K.N	Real-Time Monitoring of Agricultural Activities Using Wireless Sensor Network	International Journal	International Journal of Science and Research (IJSR)	Volume 4 Issue 5, May-15
		Predicting the Bus Arrival Time using GPS and GSM Technology	International Journal	International Journal of Science and Research (IJSR)	Volume 4 Issue 5, May-15
		Localisaton Using Beacon Points in Wireless Sensor Networks	International Journal	International Journal of Science & Research (IJSR),	April 2015
		A Routing Mechanism for Time Critical applications in VSN`,	International Journal	International Journal of Science & Research (IJSR)	May 2015
		L-MAS:Geo location based mobile advertising system	International Journal	International Journal of Embedded And SoftComputing (IJESC)	DOI 10.4010/2014.204 ISSN-2321 -3361, Jun-14
		RFID Based AutoNavigati on Robot	International Journal	International Journal of Embedded and Soft Computing(IJESC)	DOI 10.4010/2014.215 ISSN-2321 -3361, Jun-14
		Vehicle Number Plate Character	International Journal	International Journal of Embedded and Soft Computing	DOI 10.4010/2014.214 ISSN2321 -3361, Jun-14

		Recognition Based on Pixel Concentration		(IJESC)	
		ZigBee Based Remote Control Automatic Street Light System	International Journal	International Journal of Embedded and Soft Computing (IJESC)	DOI 10.4010/2014.208 ISSN2321 -3361,Jun-14
3.	Manimozhi.I	Quantum Cryptography, its protocol and techniques	International Journal	International Journal of Engineering And Computer Science(IJECS)	Vol 4,issue 6,Jun-15
		ESIC - Embedded Smart ID Card Based on Android Platform	International Journal	International Journal of Research in Computer Applications and Robotics(IJRCAR)	Vol.3 Issue.6, Pg.: 119-124,June-15
		Secured greedy geographic reliable reactive routing for WSN	International Journal	International Journal of Science and Research (IJSR)	ISSN (Online): 2319-7064 Volume 4 Issue 5,May-15
		A Novel approach for reversible data hiding in encrypted image using key based pixel selection	International Journal	International Journal of Computer Science and Engineering Technology(IJCSET)	ISSN: 2229-3345,Vol. 5 No. 06 Jul 2014
		Dynamic of P-coding Schema for network coded mobile	International Journal	International Journal of embedded and soft	DOI 10.4010/2014.227 ISSN-2321 -3361, Jul 2014

		Ad Hoc Network		computing(IJESC)	
		Dynamic BTB Indexing Using Jump Offset Prediction	International Journal	International Journal of Information and Education Technology (IJET)	Vol.2(5): 486-489 ISSN:2010-3689 DOI:10.7763/IJET.2012.V2.186,Oct-12
		A Practical and Efficient Approach of Deadlock Immunity System in Smart Phones	International Conference	International Conference on Emerging Trends in Communications, Control, Signal Processing and Computing Applications	
		Design of One-to-Many Communication in NFMI Hearing Aid	International Journal	International Journal of Mobile and Adhoc Network(IJMAN)	Vol 2,Issue 1,Feb-12
		Energy efficient routing protocol for dynamic nodes in WSN	International Conference	International conference on emerging intelligent sustainable techniques(EISTCON-2012)	May-12
		A study on security in internet enabled TV	International Journal	International journal of mobile and adhoc network(IJMAN)	Vol 1,Issue 2, Aug-11
4.	Manoj Challa	Delay Optimization in Wireless Networks Using Packet Deviation Method	International Journal	International Journal of Science and Research (IJSR)	Volume 4 Issue 6,Jun-15
		Risk Mitigation by	International Journal	International Journal of	Volume No.4, Issue Special 5,May-15

		Overcoming Time Latency during Maternity- An IoT Based Approach		Engineering Research(IJER)	
		Defense against password guessing attacks using QR codes	International Journal	International Journal of Embedded and Soft Computing(IJESC)	DOI 10.4010/2014.277 ISSN-2321 3361,Nov-14
		Preventing Path Tracing Attack in MANET by Anonymous Routing Protocol	International Journal	International Journal Of Embedded and Soft Computing(IJESC)	DOI 10.4010/2014.182 ISSN-2321 -3361, May-14
		Automatic Configuring of Mobile Sink Trail for Data Gathering in Wireless Sensor Network	International Journal	International Journal of Research In Information Technology (IJRIT)	Volume 2, Issue 6, Pg: 642- 647, June 2014
		Distributed Data Security Enhancement in Cloud Computing	International Journal	International Journal of Computer Trends And Technology (IJCTT)	Volume 12 number 3 ISSN: 2231-5381,Jun-14
		Efficient Routing Tree Formation to Reduce Energy in Lightweight Routing in Wireless Sensor Networks	International Journal	International Journal of Computer Science and Information Technologies (IJCSIT)	Vol. 5 (4),4962-4965, Jun-14

		Game Theory Approach on Security Strategy in Wireless Sensor Networks	International Journal	International Journal of Research in Information Technology(IJ RIT)	Volume 2, Issue 6, Pg: 519-523, June 2014
		A Robust Method for Reducing Routing Over head Using High Signal Strength in Manets	International Journal	International Journal of Computer Science Andengineering Technology	ISSN: 2229-3345 Vol. 5 No. 06 Jun 2014
		Secure Authentication Protocol to Detect Sybil Attacks in MANETs	International Journal	International Journal of Computer Science Andengineering Technology(IJ CSET)	ISSN: 2229-3345,Vol. 5 No. 06 Jun 2014
		Towards Secure and Dependent Ticket Based Tracing System for Obtaining Forgery Attacks in WMN	International Journal	International Journal of Computer Science and Mobile Computing	Vol 2,Issue 7,July-13
		An Integrated Approach for Plagiarism Detection System	International Journal	International Journal of Computational Engineering Research(IJCE R)	Vol 3,Issue 7, July-13
		Secure Neighbor Discovery in Wireless Network by	International Journal	International Journal of Computer Science and Mobile	Volume 1,Issue 1, July-13

		Detecting Various Attacks		Application(IJ CSMD)	
		Radio Resource Management for multimedia heterogeneous wireless networks	International Journal	International Journal of Innovative Research in Science, Engineering and Technology	Volume2,Issue 8,Aug-13
		Policy enforcing and revoking Mechanism on Trusted Ad Hoc Networks	International Journal	International Journal of Computer Science and Mobile Computing	Vol 2,Issue 8, Aug-13
		Buffer Management for Efficient Data Dissemination in Vehicular Network	International Journal	International Journal of Scientific and Engineering Research(IJSE R)	Volume 4, Issue 8, Aug-13
		Design and implementation of dynamic load balancer on open flow enabled SDN'S	International Journal	IOSR-Journal of Engineering	ISSN: 2250 3021, ISSN: 22788719 Vol. 3,Aug-13
		Multi Channel MAC Protocol Optimization for TDMA multimedia to improve efficiency in wireless adhoc network		International Journal of Scientific and Engineering Research	Volume 3, Issue 8, Aug-13

		Energy efficient by utilizing link quality and loop breaking in WSN	International Journal	International Journal of Engineering and Advanced Technology(IJ EAT)	Volume 2 Issue 5,Jun-13
		A New Cluster Based Broadcast Protocol for Delay Tolerant Mobile Networks	International Journal	International Journal of Computer Science and Mobile Computing(IJCSMC)	Vol. 2, Issue. 6,Jun-13
		Rate limiting mechanism for wireless mesh networks	International Journal	Journal of Global Research in Computer Science	Volume 4,No 6,Jun-13
		A General Framework for System Modeling and Simulation Types	International Journal	International Journal of Advanced Research in Computer Science and Software Engineering	Volume 3 Issue 6,June-13
		Privacy Preservation Against Global Eavesdropper in Sensor Networks Using Network Coding	International Journal	International Journal of Advanced Research in Computer Science and Software Engineering	Volume 3 Issue 6,Jun-13
		Energy efficient and path manipulation scheme for P2P Network	International Journal	International Journal of Engineering Research And Technology(IJERT)	Vol 1,Issue 6,Aug-12

		using trust management			
		Multilayer Fuzzy Interface Design for Cluster Head Selection in Single Sink Wireless Ad hoc sensor	International Journal	International Journal of Science and Advanced Technology(IJSART)	Vol 2 No 5,May-12
		Speech Processing Algorithm for detection of Parkinson's Disease	International Journal	International Journal of Engineering Research and Technology(IJERT)	Vol.2 - Issue 4, April-13
		Rate optimization Scheme for node level congestion in WSN	National conference	National level conference on information processing(NCIP)	Nov-11
5.	Kiran Babu	Reliable Route Discovery and Secure Routing In Delay Tolerant Network	International Journal	International Journal of Innovative Research in Science, Engineering and Technology(IJIRST)	Vol. 4, Issue 6,Jun-15
		Risk Mitigation by Overcoming Time Latency during Maternity- An IoT Based Approach	International Journal	International Journal of Engineering Research(IJER)	Volume No.4, Issue Special 5,May-15



		Optimal Caching Policy for Achieving Higher Hit Rate	International Journal	International Journal of Embedded and Soft Computing	DOI 10.4010/2014.250 ISSN-2321 -3361Jun-14
		Secure Multipath Route discovery for fault and intrusion tolerance in WSN	International Journal	International Journal of Embedded and Soft Computing	DOI 10.4010/2014.216 ISSN-2321 -3361,Jun-14
		A Comparative Overview of Popular Attacks Relevant to Adhoc-Network	International Journal	International Journal of Innovative Technology and Exploring Engineering(IJITEE)	Volume-3 Issue 7,Dec-13
		Protection Against Online Password Guessing attacks byUsing Graphical Passwords	International Journal	International Journal of Innovative Technology and Exploring Engineering(IJITEE)	Volume-3,Issue-7, Dec-13
		Congestion control using adaptive buffer flow management in WSN	International Journal	International Journal of Scientific and Engineering Research(IJSE R)	Vol 3,Issue 8,Aug-12
		Rate optimization Scheme for node level congestion in WSN	National Conference	National level conference on informatio processing(NCIP)	Nov-11
6.	Shanthi M.B	Secure and energy efficient	International Journal	International Journal of Research in	Volume 3, Issue 5, May-15

		sensor localization scheme using clustering mechanism		Computer Applications and Robotics(IJRC AR)	
		Time Synchronized Fair Data Transmission in Secure UWSNs	International Journal	International Journal of Science and Research (IJSR)	Volume 4 Issue 6, June-15
		Managing Redundancy and Conflicts in Distributed Firewalls	International Journal	International Journal of Computer Science and Informatics(IJCSI)	Volume-3, Issue-2, Jul-13
		A Secure Packet Hiding Technique for preventing Jamming Under an Internal Threat Model	International Journal	International Journal of Smart Sensors and Ad Hoc Networks (IJSSAN)	Vol-3, Issue-1, Jul-13
		Backbone node election in the presence of misbehaving node using mechanism design approach in MANET	International conference	International conference on computer science and information technology	May-12
7.	Sagarika	An Approach for Improving Security and Efficient Data Aggregation in Wireless	International Journal	International Journal of Science and Research (IJSR)	Volume 4 Issue 5, June-15

		Sensor Network			
		Energy balanced dispatch of mobile sensor in hybrid WSN with obstacles	National conference	National conference of frontiers of computer science and technology	Feb-12
		A network conditions aware geographical forwarding protocol for real time app	National conference	National conference on artificial intelligence and software engineering(AI SE-11)	Nov-11
8.	Savitha S	Energy efficient routing technique in mobile sink based WSN using VGA	International Journal	International Journal of Research in Computer Applications and Robotics(IJRCAR)	Vol.3 Issue.5, Pg.:Vol.3 Issue.5, Pg.: 93-99, June-15.5, Pg.: 93-99 May 20159 May 2015
		A Cloud Computing Architecture with Wireless Sensor Networks for Agricultural Applications	International Journal	International Journal of Computer Networks and Communications Security	Vol.2, No.1, Jan 2014
9.	Mahesh D.S	A Cloud Computing Architecture with Wireless Sensor Networks for Agricultural Applications	International Journal	International Journal of Computer Networks and Communications Security	Vol.2, No.1, January 2014
		Idle node real time power saving	International Journal	International journal of	Volume 3, Issue 2, July- September (2012)

		mac layer oriented random routing in WSN		computer engineering and Technology (IJCT)	
10.	Sujatha S.G	Depletion of Selection Nodes and Area Coverage in WSNs using CDS Based Virtual Backbone	International Journal	International Journal of Embedded and Soft Computing	DOI 10.4010/2014.226 ISSN-2321 -3361,Jun-14
		EDCM: Efficient Data Caching Method for Maintaining Cache Consistency in Wireless Mobile Networks	International Journal	International Journal of Embedded and Soft Computing	DOI 10.4010/2014.221 ISSN-2321 -3361,Jun-14
		An Enhanced Intrusion Detection System to Detect Malicious Nodes in MANET	International Journal	International Journal of Embedded and Soft Computing	DOI 10.4010/2014.200 ISSN-2321 -3361,Jun-14
		Protecting Sensitive Files from Unauthorized Network Users Based on Location Proof Criteria	International Journal	International Journal of Embedded and Soft Computing	DOI 10.4010/2014.205 ISSN-2321 -3361,Jun-14
		Secure Route Discovery and Data Transmission on AODV	International Journal	International Journal of Embedded and Soft Computing	DOI 10.4010/2014.217 ISSN-2321 -3361,Jun-14

		Based MANETs			
11.	Sundeep Kumar	Towards Secure and Dependent Ticket Based Tracing System for Obtaining Forgery Attacks in WMN	International Journal	International Journal of Computer Science and Mobile Computing	Vol 2, Issue 7, July-13
		Secure Neighbor Discovery in Wireless Network by Detecting Various Attacks	International Journal	International Journal of Computer Science and Mobile Application	vol 1, Issue 1, July-13
		Buffer Management for Efficient Data Dissemination in Vehicular Network	International Journal	International Journal of Scientific and Engineering Research	Volume 4, Issue 8, Aug-13
		Design and implementation of dynamic load balancer on open flow enabled SDN'S	International Journal	IOSR-Journal of Engineering	Vol. 3, Aug-13
		Energy efficient by utilizing link quality and loop breaking in WSN	International Journal	International Journal of Engineering and Advanced Technology	Vol2, Issue 5, Jun-13
		Multi Channel MAC	International Journal	International Journal of Scientific and	Volume 3, Issue 8, Aug-13

		Protocol Optimization for TDMA multimedia to improve efficiency in wireless adhoc network		Engineering Research	
		A New Cluster Based Broadcast Protocol for Delay Tolerant Mobile Networks	International Journal	International Journal of Computer Science and Mobile Computing	Vol. 2, Issue. 6, Jun-13
		Congestion control using adaptive buffer flow management in WSN	International Journal	International Journal of Scientific and Engineering Research	Vol 3, Issue 8, Aug-12
12.	Dinesh K. Anvekar	A Cloud Computing Architecture with Wireless Sensor Networks for Agricultural Applications	International Journal	International Journal of Computer Networks and Communications Security	VOL.2, NO.1, JANUARY 2014, 34-38 ISSN 2308-9830, Jan-14
		A New Cluster Based Broadcast Protocol for Delay Tolerant Mobile Networks	International Journal	International Journal of Computer Science and Mobile Computing	Vol. 2, Issue. 6, Jun-13
13.	Dr. Jitendranath Mungara	Managing Redundancy and Conflicts in	International Journal	International Journal of Computer	Volume-3, Issue-2, July-13



		Distributed Firewalls		Science and Informatics	
		A Secure Packet Hiding Technique for preventing Jamming Under an Internal Threat Model	International Journal	International Journal of Smart Sensors and Ad Hoc Networks (IJSSAN)	Vol-3, Issue-1, July-13
		Energy efficient by utilizing link quality and loop breaking in WSN	International Journal	International Journal of Engineering and Advanced Technology	Vol2, Issue 5,Jun-13
		Multi Channel MAC Protocol Optimization for TDMA multimedia to improve efficiency in wireless adhoc network	International Journal	International Journal of Scientific and Engineering Research	Volume 3, Issue 8, Aug-13
		Modified Long Lifetime Routing in Unreliable Wireless Sensor Networks	International Journal	International Journal of Advance Innovations, Thoughts and Ideas (IJAITI)	Vol 1, No 5, Sep/Oct 2012
		Dynamic BTB Indexing Using Jump Offset Prediction	International Journal	International Journal of Information and Education Technology (IJET)	Vol.2(5),Oct-12

		Speech Processing Algorithm for detection of Parkinson's Disease	International Journal	International Journal of Engineering Research and Technology	Vol.2 - Issue 4, April-13
		Layered approach of intrusion detection system with efficient alert aggregation for heterogenous networks	International Journal	International Journal of Innovative Technology And Exploring Engineering(IJITEE)	Vol 1, Issue 2, July-12
		Distributed Computing solution for hardware-in-loop simulation of indian satelittles	International Journal	International Journal of Innovative Technology and Exploring Engineering(IJITEE)	Vol 1, Issue 2, July-12
		Efficient routing strategy for prioritized messages in mobile WSN using geographic forwarding protocol	International Journal	International Journal of Computer Technology and Application(IJCTA)	Vol 3, July-12
		Energy efficient and path manipulation scheme for P2P Network using trust management	International Journal	International Journal of Engineering Research and Technology(IJERT)	Vol 1, Issue 6, July-12
		Reputation-based security	International Journal	International Journal of Innovative	Vol 1, Issue 2, July-12



		protocol for MANETs		Technology and Exploring Engineering(IJITEE)	
		Secured public key authentication and energy efficient MAC Implementation in Wireless Sensor Networks	International Journal	International Journal of Computer Science and Network Solutions	Vol 12, No 8, Aug-12
		Secure cooperative caching in wireless P2P networks	International Journal	International Journal of Engineering Research and Development	Vol 2, Issue 9, Aug-12
		Congestion control using adaptive buffer flow management in WSN	International Journal	International Journal of Scientific and Engineering Research	Vol 3, Issue 8, Aug-12
		Multilayer Fuzzy Interface Design for Cluster Head Selection in Single Sink Wireless Ad hoc sensor	International Journal	International Journal of Science and Advanced Technology(IJSAT)	Vol 2, No 5, May-12
		Rate optimization Scheme for node level congestion in WSN	National conference	National Level Conference on Information Processing(NCIP)	Nov-11
		Backbone node election in the presence of	International conference	International Conference on Computer Science and	May-12

		misbehaving node using mechanism design approach in MANET		Information Technology	
		Robust framework for framework evaluating leakages of highly sensitive information in public in public/private domain in enterprise	International conference	International Conference on Emerging Intelligent Sustainable Techniques(EI STCON-2012)	May-12
		Energy efficient routing protocol for dynamic nodes in WSN	International conference	International Conference on Emerging Intelligent Sustainable Techniques(EI STCON-2012)	May-12
		Cylindrical-sector based location management in mobile ad hoc network	International conference	International Conference on Emerging Intelligent Sustainable Techniques(EI STCON-2012)	May-12
		Mobile assisted-adhoc demand distance vector routing	International conference	International Conference on Emerging Intelligent Sustainable Techniques(EI STCON-2012)	May-12
		A study on security in internet enabled TV		International Journal of Mobile And Adhoc Network (IJMAN)	Vol 1, Issue 2, Aug-11

14	Aparna	A Novel Approach for controlling faults in wireless sensor networks using round robin scheduling	International conference	Institute of Electrical and Electronic Engineers (IEEE)	Volume: 57; Issue: 11, AUG 2014
15	Sherly Noel	An approach for improving elasticity in cloud computing using neural network in cloud computing approach	International conference	International Journal of Combined Research and Development(I JCRD)	Volume: 3; Issue: 6, DEC 2014
16	Poonam Tijare	Detection and Prevention of Misbehaving Node using PDA and Enhanced 2ACK Scheme	International conference	International Journal of Science and Research (IJSR)	Volume: 4; Issue: 5, May 15
		An approach for improving elasticity in cloud computing using neural network in cloud computing	International conference	International Journal of Combined Research and Development(I JCRD) approach	Volume: 3; Issue: 6, Dec - 14
17	Shruthi K	An approach for improving elasticity in cloud computing	International conference	International Journal of Combined Research and Development(I JCRD)	Volume: 3; Issue: 6, Dec – 14

		using neural network in cloud computing approach			
18	Manjima R.L	Data embedding method using video pixel pair technique	International Conference	National Conference on Decision Science and Big Data (NCDSBD-13)	April-13
19	Priyadarshi Mishra	Data embedding method using video pixel pair technique	International Conference	International Journal of Science And Research (IJSR)	VOL 2, Issue 7, Jul – 13
		Energy efficient by utilizing link quality and loop breaking in WSN	International conference	International Journal of Engineering and Advanced Technology	VOL 2, Issue 5, Jun – 13
20	Sridevi K.N	Energy efficient and path manipulation scheme for P2P Network using trust management	International Journal	International Journal of Engineering Research and Technology (IJERT)	VOL 1, Issue 6, Aug – 12
		Mobile assisted-adhoc demand distance vector routing	International Conference	International Conference on Emerging Intelligent Sustainable Techniques (EISTCON-2012)	May-12

21	Sahana V	The Aware Home: Data Analytics for Smart Homes, SAHANA V & SACHIN KUMAR,	International Conference	International Journal of Science and Research (IJSR)	May 2015
22	Dr. Krishnan Rangarajan	Test Suite Design Methodology using Combinatorial Approach for Internet of Things Operating Systems	International Conference	Scientific Research Publishing, Journal of Software Engineering and Application,	July 2015
		Integrated Test Environment for Combinatorial Testing	International Conference	IEEE IACC 2015	June 2015
		Re-architecture of Contiki and Cooja Regression Test Suites using Combinatorial Testing Approach	International Conference	ACM SIGSOFT SEN	Volume 40 Issue 2, March 2015
		Statistical Analysis of Couple Chaotic Systems based PRBG (CCS-PRBG)	International Conference	Elsevier	ICCN-2014
		A Survey on classifying the stages of malignancy	National Conference	ICESMART 2015	April 2015

		in breast cancer using mammogram images			
23	Dr. Jhansi Rani	Application of Chaotic Hash Function as an Authentication Field in Ipsec	International Conference	Elsevier	ICC-2014
		Chaotic Pseudo Random Number Generator and Its Application	International Conference	Elsevier	ICC-2014
		Hash Function using Chaotic Maps	International Conference	Elsevier	ICCN-2014
		Design of Secure Chaotic Hash Function based on Logistic and Tent Maps	International Conference	Springer	CNSA-2011
		Chaotic Integrity Check Value	International Conference	Springer	ICC-2011
		Symmetric Encryption using Sierpinski Fractal Geometry	International Conference	IEEE	RAIT-2011
		Symmetric Encryption Using Logistic Map	International Conference	ISI Int'l Conf. on Recent Advances in Information Technology	2012

### C. PROJECT DETAILS

For the academic year 2015-16

GN	TITLE	USN	NAME	Guide
G1	Model Based Design of Autopilot State Transition, verification and optimization of generated autocode for advanced fighting Aircraft	1CR12CS027	DARSHAN T DHANARAJ	Mrs.Sagarika
		1CR12CS047	KAVYASHREE R	
		1CR12CS003	ABHIRAM B S	
		1CR12CS078	S ADITYA	
G2	P3 services in Cloud Computing	1CR12CS014	ANJU KRISHNA K.P	Mrs.Shanthi
		1CR12CS022	BINDIYA.S	
		1CR12CS023	C.HARI PRASAD	
		1CR12CS032	DIVYA NARAYANA.V	
G3	DROPS: Division and Replication of Data in cloud for Optimal Performance and Security	1CR13CS402	CHETHAN KUMAR R	Mrs.Maya krishnan
		1CR13CS404	KANTHA KUMARI K	
		1CR13CS405	NITHIN C S	
G4	A secure and dynamic multi keyword ranked search scheme over encrypted cloud data	1CR12CS004	ABHISHEK B H	Mrs.Sagarika
		1CR12CS018	ARUN KUMAR G	
		1CR12CS055	NARENDRA N	
		1CR13CS407	PRAKASH	
G5	Prevention of data loss in digital video recording	1CR12CS058	NIDEESH K T	Mrs.Poonam
		1CR12CS086	SANJANA GHOSH	
G6	INSTAPP	1CR12CS046	KARTHIK M PATTAR	Mr.Kiranbabu
		1CR12CS104	SUPRIYA B S	
		1CR12CS054	NAGENDRANATH Y R	
		1CR12CS102	SRIVIDHYA M	
G7	TAKE YOUR CUE	1CR12CS030	DEEPTI SONTI	Mrs.Priya
		1CR12CS039	HARIKA P	

		1CR12CS080	S SYAMA KRISHNA	
G8	BLOOD HELPER	1CR12CS096	SHRUTI VARDHAN	Mrs.Swathi. Y
		1CR12CS099	SONALI RAJ	
		1CR12CS114	V KEERTHI KUMAR	
		1CR12CS126	NISTHA KUMAR	
G9	Sentiment analysis on Natural Language	1CR12CS029	DEEPESH KUMAR BARMAT R	Dr.Krishnan
		1CR12CS115	VANISHA	
		1CR12CS028	DEEPAK AGARWAL	
		1CR12CS008	ADITYA KUMAR PRAJABHAT	
G10	Smart Ebill generator	1CR12CS091	SHARANYA GANGADHARAN	MrsSwathi. Y
		1CR12CS088	SAVITHA SHANKAR	
		1CR12CS121	VYSHALI ACHARYA	
		1CR12CS038	GOWRISHANKAR UK	
G11	Sign Language Recognition using OpenCv	1CR12CS094	SHREYA K S	Mrs.Snehal
		1CR12CS095	SHREYA VISHWANATH RAO	
		1CR12CS097	SIDDHARTH BAPAT	
		1CR12CS120	VISHNU RAGHUNATH	
G12	Audit Free Cloud Storage via Deniable Attribute Based Encryption	1CR12CS100	SRAVANI SAI NANDINA	Mr.Gourish
		1CR12CS011	AKSHATHA HEMU D SALIAN	
		1CR12CS070	R.VALLIAMMAI	
		1CR10CS072	RICHA SINHA	
G13	On summerization and timeline generation for evolutionary Tweet Streams	1CR12CS017	ARPITHA N ALUR	Mr.Sudhakar
		1CR12CS031	DEEPTHI M	
		1CR12CS074	RANJITHA B G	
		1CR12CS075	RESHMA V	
G14	Industrial Security System	1CR12CS090	SHALU PRIYA	Mrs.Poonam
		1CR12CS110	THANUSHREE RN	



		1CR12CS064	PRAGYA PRIYADARSHANA	
G15	Intelligent Prediction of the Likelihood of the Occurance of Cancer based on AI Techniques	1CR12CS127	EDNA JOHNSON	Mrs.Maya krishnan
		1CR12CS083	SAI MANASA	
		1CR12CS069	PRIYANKA PRAKASH	
		1CR12IS124	MONISHA RAMESH	
G16	NOVEL DATA STRUCTURE FOR IMAGE FEATURES	1CR12CS107	T SAI APOORVA	Dr.Krishnan
		1CR12CS044	JUHI JOSEPH	
		1CR12CS082	SAGINATHAM MANIDEEPA	
G17	ALUMINI CONNECT Using Android Application	1CR12CS052	MADHURI	Dr.Sanjay
		1CR12CS037	GEETHA .L	
		1CR12CS079	S JAYA SHREE	
		1CR12CS016	APARNA	
G18	Secured online auction for police stations unclaimed / seized vehicles	1CR12CS116	VARUN S REDDY	Mrs.Snehal
		1CR12CS081	SACHIN KUMAR	
		1CR12CS101	SREEDHARA S M	
G19	Voice Recognition car control	1CR13cs416	SHARATH KUMAR	Ms.Savitha
G20	Elliptical Curve Cryptography	1CR12CS111	THARUN	Mrs.Shanthi
		1CR12CS117	VIGNESH T	
G21	A novel method for traffic analysis in MANETS	1CR12CS112	THASSVI SHEETY	Mrs.Sahana
		1CR12CS106	SWATHI G M	
		1CR12CS068	PRIYANKA	
G22	Intelligent Search in legal documents	1CR12CS108	T VINAY KUMAR	Mrs.Alekhya
		1CR13cs415	T.N SHANKAR PRASAD	
		1CR13cs417	SHWETHA M	
		1CR12CS050	LEKHA S	
G23	Pool Express	1CR12CS076	RISHABH TYAGI	Mr.Kiranbabu
		1CR12CS061	NISHANTH SINGH	
		1CR12CS123	KATTIE MICHAEL	
		1CR12CS040	HARSHAD CHOUDHRY	

G24	Search Engine (IRIDIUM)	1CR12CS065	PRATEEK KUMAR	Mr.Gourish
		1CR12CS092	SHARAT GANGADHARAN	
		1CR12CS103	SHRUTHI SURESH	
G25	Network Monitoring System	1CR12CS067	PRITHVI VIHAR R	Dr.Krishnan
		1CR12CS072	RAHUL S SREEDHAR	
G26	Cost Effective Scheme for Resource Allocation in the Cloud for Media Streaming Applications	1CR12IS017	ANIRUDH CHAUHAN	Mr.Shivraj
		1CR12CS012	ANAMIKA	
		11CR12IS043	DHAIRYA CHABBRA	
G27	ALTERDROID:Differential Fault Analysis of Obfuscated Smartphone Malware	1CR12CS049	KUNDAN PRASAD GUPTA	Mr.Harikrishna
		1CR12CS010	AKASH	
		1CR12CS019	BALAR MANTHAN BHARATH BAI	
G28	Emergency Routing and Ambulance Request	1CR12IS016	ANANT MURARKA	Mr.Manjul Gupta
		1CR12CS128	ABHIMANYU CHOUDRY	
		1CR12CS109	TAUHID ALAM	
G29	Smart Medical Assistance	1CR12CS066	PREETHIKA ANAND	Dr.Jhansi Rani
		1CR12CS118	VIGNESH . N	
		1CR12CS084	SAMREEN TAJ K P	
G30	WIFI enabled smart power bar	1CR12CS098	SIDDHARTH K	Mrs.Aishwarya
		1CR12CS087	SARGAM GARG	
		1CR12CS002	ABEN GEORGE	
G31	Simlink Model Coder for Control System Models	1CR12CS021	BHARATHA RAJ	Mr.Sudhakar
		1CR12CS042	JAYANTH H K	
		1CR12CS057	NEEL NEERAJ	
G32	Enabling Cloud Storage Auditing with Key Exposure Resistance	1CR13CS406	PANKAJ SINGH PANWAR	Mr.Gourish
		1CR11CS050	Murugan P	
		1CR11CS047	Manish Gahlot	
		1CR12CS413	PRAKASH KUMAR	
G33	Security through SIP	1CR12CS051	MADHU PATAR	Mrs.Sherly

		1CR12CS056	NATASHA KURIAN	
		1CR12CS043	JINU THOMAS GEORGE	
		1CR12CS060	NISCHITHA K P	
G34	A Secure anti collusion data sharing scheme for dynamic groups in the cloud	1CR12S045	JUNAID AHMED D	Mr.Kartheek
		1CR12CS0119	VINOD R NAYAK	
		1CR12CS063	PRADEEPA M	
		1CR12CS020	BASAVARAJ H M	
G35	Data Access control for Multi-Authority cloud storage	1CR13CS408	PRIYANKA M	Mr.Edukondalu
		1CR13CS421	TEJASHWINI K R	
		1CR12CS420	SHILPA RANI S J	
		1CR12CS417	REHANA M	
G36	Enabling Proof Retrievability of data in cloud	1CR12CS033	DIVYA PRIYA	Mrs.Poornima
		1CR12CS048	KUMARI PRANIDHI	
		1CR12IS024	ARCHANNA KUMARI	
		1CR12IS118	VIBHASH SHIVECHCHHU	
G37	CHARM:A cost efficient Multi-cloud Data Hosting Scheme with High Availability	1CR12CS005	ABHISHEK KUMAR VARMA	Dr.Jhansi Rani
		1CR12CS015	ANKIT	
		1CR12CS036	GAURAV ROY	
G38	OPOR:Enabling Proof of Retrievability in Cloud Computing with Resource Constrained Devices	1CR12CS024	CHANDAN KUMAR	Ms.Madhuri
		1CR12CS062	pradeep TN	
		1CR12CS007	ADARSH KUNAL	
G39	Pattern predictions	1CR12CS013	ANAND KUMAR	Mr.Shivraj
G40	Tracking of stolen vehicle	1CR13CS418	SUDHAKAR	Mrs.Reshma
		1CR13CS422	THOWSIFULLA	
		1CR13CS418	SHABEER KHAN	
G41	Real Time Detection of Traffic from Twitter Stream Analysis	1CR12CS006	ABHISHEK SUMAN	Mrs.Priya
		1CR12IS069	NAVNEET KUMAR	
		1CR12IS 111	Sunny Kumar	
		1CR12IS096	SAGAR KUMAR	

G42	Integrated Lamport's one time password authentication scheme with elliptic curve cryptography"	1CR13CS400	ANIL KUMAR	Mrs.Sahana
		1CR13CS403	GUNDAPPA	
		1CR13CS411	SANTHOSH KUMAR	
		1CR13IS401	MANJUNATH A	
G43	Download Accelerator	1CR12CS041	HEMANTH SHARMA	Mrs.Poornima
		1CR12CS026	ABHILASH CHAITANYA	
		1CR12CS113	UTKASH KAKKAR	
G44	Control cloud data access privilege & Anonymity with fully anonymous attribute based Encryption	1CR12CS073	RAJAN	Mr.Rajeev
		1CR12CS089	SHALINI BASU	
		1CR12CS053	MAYANK SINGH	
		1CR12CS034	FARHEEN FARROOQ	
G45	Interactive Video game Using Unity 3D	1CR12CS093	SHEETAL MJ KRISHNA	Mrs.Poonam

**For the academic year 2014-15**

Sl. No	Project Name	Student	USN	Guide
1	"E-Commerce"(Online Portal for Taxi Booking)	Sonal Himanshu	1CR11CS095	Mrs. Manimozhi I
		Sanjana Rathi	1CR11CS085	
		Sanjay Y	1CR11CS083	
		Vinita Kumari Agrawal	1CR11CS121	
2	Shop@Ease- An Android Application and Website for Targeted Advertisement	Aishwarya Reddy	1CR11CS004	Mrs. Alekhya
		Ipsita	1CR11CS034	
		Mabamba Asman Do Sudi	1CR11CS046	
		Prabesh Khadka	1CR11CS063	
3	"PrivacyPreserving Back Propagation Neural Network Learning Made Practical with Cloud Computing"	Pavan Kumar Kudlekere	1CR11CS061	Mrs. Manimozhi I
		Punitha Mamatha. M	1CR11CS070	
		Vigneshwari M	1CR11CS119	
		Viny Saajan V	1CR11CS122	
4		Aakash Biswas	1CR11CS001	Mr.Manoj Challa
		Aakash Agarwal	1CR11CS006	

	"Embedded Extended Visual Cryptography"	Babitha B	1CR11CS021	
		Kusuma G V	1CR11CS044	
5	"Privacy Preserving Multi Keyword Ranked Search Over Encrypted Cloud Data"	Chaitra S V	1CR11CS026	Mrs. Y Swathi
		Deepa M	1CR11CS027	
		Pooja Kaul	1CR11CS062	
		Punith R Kashi	1CR11CS069	
6	"Aether Analysis"	Suraj Sajeer Kumar	1CR11CS103	Mr.Manjul Gupta
		Vishnu Ajith Kumar	1CR11CS124	
		Luhiriri Mudekereza	1CR11CS128	
		Vinil A	1CR11CS120	
7	"Android Application for The Safety of Women"	Aishwarya Raghu	1CR11CS005	Mrs.Snehal Karwa
		Bhuvaneshwari S	1CR11CS024	
		Hariprabhu Mallyah	1CR11CS032	
		Perna Prasad	1CR11CS067	
8	"Cloud Assisted Mobile Access of Health Data with Privacy And Auditability"	Sowmya Rajkumar	1CR11CS097	Mrs.Shanthi M B
		Bharath Pai	1CR11CS023	
		Rohith	1CR11CS081	
		Vanitha A	1CR11CS114	
9	"The Wall Street Model"	Tonmoy Rakshith	1CR11CS109	Mrs.Sudhakar K N
		Satyajeet Kumar	1CR11CS086	
		Yashaswi Karthik	1CR11CS126	
		Syed Mohamed Izhar Ali Zaidi	1CR11CS107	
10	"Decentralised Access Control with Anonymous Authentication for Data Stored In Clouds"	Nitin K N	1CR12CS411	Mrs.Keerthana
		R Sai Charan Tej	1CR12CS414	
		Raghu M R	1CR12CS415	
		Satish M L	1CR12CS418	
11	"Cold Boot Attack"	Deepak M	1CR11CS028	Mr.Manoj Challa
		Naresh Kumar Tp	1CR11CS052	
		Preethi C A	1CR11CS066	

		Srajan R S	1CR11CS098	
12	"Novel Model for Cooperation and Competetion Among Cloud Providers"	Akash Yadav	1CR11CS007	Mr.Mahesh D S
		Arun Reddy M	1CR11CS011	
		Minmay Upadhyay	1CR11CS049	
13	"Albatross"	Zubin Kareem C	1CR11CS127	Mrs.Sahana
		N A Shashank	1CR11CS090	
		Bhuvanadatta U	1CR05CS012	
14	"Secure Data Aggregation in Wireless Sensor Networks:Filtering Out The Attackers Impact"	Aruna N	1CR10CS019	Mrs.Priya L
		Anitha G V	1CR12CS401	
		Nishel D Silva	1CR11CS057	
15	"Personalised Web Search Using Browsing History and Domain Knowledge"	Gowthami Y S	1CR11CS031	Mrs. Alekhya P
		Akshatha	1CR11CS008	
		Sowmya	1CR10CS102	
		Ashwini	1CR12CS405	
16	"Simplifying Education in Colleges"	Rahul Godhani	1CR11CS073	Dr. Sanjay Chitnis
		Ravi Sanker	1CR11CS076	
		ShashankGanes h	1CR11CS089	
		Utsav Halдар	1CR11CS113	
17	"Electronic Score Board"	Kedar Rao	1CR11CS401	Dr. Sanjay Chitnis
		Arjun L N	1CR12CS403	
18	"GreenNetworking with Packet Processing Engine:Modeling and Optimization"	DineshD	1CR11CS404	Mrs.Savitha S
		Rohit Ravinder	1CR10CS075	
		Prabhakaran G	1CR09CS067	
		Sourav Das	1CR07CS067	
19	"Access Control in Decentralised Online Social Networks"	Parasaram Gautham Saketh	1CR11CS060	Mrs. Savitha S
		Saman A	1CR11CS082	
		AkashR	1CR10CS006	
		PrashanthB	1CR11CS065	
20	"Key Aggregate Crypto Systemfor Scalable Data Sharing in Cloud Storage"	Jagannath	1CR11CS035	Mrs.Snehal Karwa
		Kishore Kumar M	1CR12CS408	
		R Chandan Kumar	1CR11CS071	

21	"Towards Efficient Virtual Appliance Delivery with Minimal Manageable Virtual Appliances"	Gayathri R	1CR11CS077	Mrs. Aishwaryalakshmi V
		Soni V	1CR11CS096	
		Sudharani Y N	1CR11CS100	
		Shakunthala K V	1CR12CS419	
22	"Oruta: Privacy Preserving Public Auditing for Shared Data in Cloud"	Nilesh Kumar Yadav	1CR11CS055	Mrs. Poonam Tijare
		Ranjitha Arulmani	1CR11CS075	
		Trupti G	1CR11CS110	
23	"Performance and Cost Evaluation of an Adaptive Encryption Architecture for Cloud Databases"	Arun J Hiremath	1CR12CS404	Ms. Shirely
		Ambarish N	1CR11CS009	
		Deepu S N	1CR11CS030	
		Naresh Kumar K	1CR12CS410	
24	"Dynamic Resource Allocation Using Virtual Machines for Cloud Computing Environment"	Harshith Kumar B M	1CR12CS407	Mr. Shivaraj V B
		Pradeep Kumar H M	1CR12CS412	
		Banuprakash V	1CR12CS406	
		Manjunath S	1CR11CS048	
25	"Medsapp: Android Based Solutions for Doctor Patient Interactions"	Ankur Chandrakar	1CR10CS014	Mrs.Aparna
		Ntmaah Mahawaththa	1CR10CS121	
		Sadashiv	1CR10CS078	
		Saurav Singh	1CR10CS090	
26	"A System for Denial of Service Attack Detection Based On Multivariate Correlation Analysis"	Anil Kumar K S	1CR12CS400	Mrs.Aishwaryalakshmi V
		Anitha S	1CR12CS402	
		Vanaja K R	1CR12CS422	
27	"On The Use of Side Information"	Tchato Nelly Joniece	1CR10CS124	Mrs.Sagarika Behara
		Deepa Ashok Patil	1CR11CS403	
		Ritika R	1CR11CS419	

28	"Network Node Discovery Using Switch CAM"	Deepika Vasudevan	1CR11CS129	Mrs.Sagarika Behara
		Sushma R	1CR11CS104	
		Tejaswini B S	1CR11CS108	
		Vidya Sri M	1CR11CS118	
29	"Scalable Face Image Retrieval Using Sparse Code Words"	Sunit Kumar Chand	1CR11CS101	Mrs.Aparna
		Robin Kumar Singh	1CR11CS080	
		Vivek Kumar Singh	1CR11CS125	
		Ujjawal Manali	1CR11CS111	
30	"Android Multimedia Military Application"	Balaji L	1CR11CS022	Mr. Manjul Guptha
		Hitesh R	1CR11CS033	
		Joel Peter C	1CR11CS036	
		Karthik Madhavan	1CR11CS038	
31	"Privacy Enhanced Web Service Composition"	Aishwarya Jain	1CR11CS003	Mrs. Sujatha S.G
		Lumena Mukherjee	1CR11CS045	
		Neha	1CR11CS053	
32	"VABKS: Verifiable Attribute Based Keyword Search Over Outsourced Encrypted Data"	Ashutosh Pandey	1CR11CS016	Dr. Deepa Anand
		Bimal Kumar	1CR11CS025	
		Kaushik Dutta	1CR11CS039	
		Nabeel Ahmed	1CR11CS051	
33	"Virtual Doctor"	Saurabh Suman	1CR11CS087	Mrs.Keerthana
		Saurav Raj	1CR11CS088	
		Umar Salman	1CR11CS112	
		Namratha S	1CR09CS061	
34	"Student Information System"	Aditya Kumar	1CR11CS002	Mrs.Richa Mehta
		Abhineel Rai	1CR11IS004	
		Apurva Bansal	1CR11IS016	
		Gowthami G R	1CR11IS033	
35	"Cloud Based Apartment Management"	Ashish Kumar Jalan	1CR11CS014	Mrs.Sherly Noel
		Avinash Kumar	1CR11CS018	
		Nitesh Kumar	1CR11CS058	
36	"Intrusion Detection System"	Anupam Anand	1CR11CS010	Mr. Sudhakar K N
		Rajesh Kumar	1CR11CS074	
		Pankaj Kumar	1CR11CS059	



	and Attack Pattern Analysis in Cloud"	Ashish Sardar	1CR11CS015	
37	"Small Scale Project Bidding System"	Ashish	1CR11CS013	Mr. Kiran Babu T S
		Atla Sai Pranav Reddy	1CR11CS017	
		Manish Gahlot	1CR11CS047	
		Sri Murali	1CR11CS099	
38	"Privacy Preserving and Truthful Detection of Packet Dropping Attacks in Wireless Ad Hoc Network"	Krishna Kumari Y	1CR11CS043	Dr. Deepa Anand
		Shweta B J	1CR11CS092	
		Shweta Shree	1CR11CS093	
		Swapna G O	1CR11CS106	
39	"Misbehaviour Detection and Trust Establishment in DTN"	Kavya H N	1CR11CS040	Mr. Kiran Babu T S
		Nirmala Y	1CR11CS056	
		Sushmitha C	1CR11CS105	
		Veena B	1CR11CS116	
40	"Android Application for Ophthalmologists"	Shiv Biyani	1CR11CS091	Mr. Mahesh D S
		Snehasish Bhowmick	1CR11CS094	
		Suraj Belgaonkar	1CR11CS102	
41	E Commerce Price Comparator	Manoj K	1CR11CS037	Ms.Shruthi K
		Sainath		
		Ngalheiba Leishangthem	1CR11CS054	
42	"Conversion of Natural Language to Formal Specification Using Z"	Rithika R	1CR11CS079	Mrs.Sujatha S G
		Sanjana C	1CR11CS084	
		Varsha Patel	1CR11CS115	
43	"Service Identification in Interorganisational Process Design"	Rishab Mehta	1CR11CS078	Mrs.Shanthi M B
		Priyanka R	1CR11CS068	

### Project list 2013-2014

Sl. No.	Project Name	Student	USN	Guide
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1	Business Intelligence in Retailing	Kavya priyanka	1CR10CS041	Mr.Sudhakar
		Esha singh	1CR10CS034	
2	Secure Computation Over Cloud Using Fully Homomorphic Encryption	Anjana N B	1CR10CS010	Mrs.Shwetha
		Anusha bilakanti	1CR10CS017	
		Divya A	1CR10CS031	
		Divya K	1CR10CS040	
3	Scalable face image retrieval using attributes enhanced sparse code words	Ranjani	1CR10CS069	Mr.Manoj Challa
		vandana	1CR10CS111	
		Renuka	1CR11CS0418	
		Preethi haveri	1CR11CS0414	
4	Simulation and Analysis of RTS/CTS DoS attack variants in 802.11 Networks	Adiya	1CR10CS003	Mr.Mahesh
		Mishra Tanumay	1CR10CS047	
		Shivanshu Shekhar	1CR10CS095	
		Srishti singh	1CR10CS0104	
5	Cloud Cost Reduction Analysis Tool	Sindhuja Dutt	1CR10CS097	Mrs.Shwetha
		Shilpa subbaih	1CR10CS092	
		Shireesha Manchat	1CR10CS093	
6	Scalable and secure sharing in cloud computing using attributes based encryptions	Akash Damodaran	1CR10CS005	Mr.Manojchalla
		Akshay Bhandarai	1CR10CS008	
		Harsha N.Gouda	1CR10CS038	
		Kevin George Julius	1CR10CS042	
7	Image Authentication using stochastic diffusion	Ravindranath D	1CR11CS0417	Mr.Shivaraj
		Rajesh	1CR11CS0416	
		Sribhargav B	1CR10CS103	
		Sankalp R	1CR10CS087	
8	3D Campus Tour	Archana Dev	1CR10CS018	Mrs.Bhavani
		Deepa.N	1CR10CS028	
		Arani N	1CR10CS123	
		M. Muzamil Khan	1CR10CS049	
9	A New Cell Counting Based attack against Tor	Afroz	1CR11CS400	Mrs.Shanthi
		Ganesh.P	1CR11CS0405	
		Mahesh ac	1CR11CS0409	
		Ragavendra D S	1CR11CS0415	
10	Vivara -- Network Connection Scanner	Vibha V Acharya	1CR10CS113	Dr.Guruprasad
		Ragav Krishna.R	1CR10CS065	

		G Vaishnavi	1CR10CS125	
11	Disributed Telescope Control Software and Organization-A Simulation	Sandeep S	1CR10CS085	Dr.Dinesh Anvekar
		Sachin George	1CR10CS077	
		Sanket Nitin Wagh	1CR10CS088	
		Raghavendra Kumar	1CR10CS066	
12	privacy preserving public auditing for secure cloud storage	Manoj M	1CR11CS410	Mrs.Keerthana
		Pankaj	1CR10CS060	
		Poodi abhishek	1CR10CS061	
		Prashanth Kumar	1CR10CS063	
13	Automations of Neidhar Halters	Clement Rakesh	1CR10CS027	Mrs.Vineetha
		Divya.P.Jain	1CR10CS032	
		Manu Mariaraj	1CR10CS045	
		Sowmya.B	1CR10CS100	
14	A Secure Application for spontaneousAd Hoc Networks creation	Tushar Anand	1CR10CS109	Mr.Kiran babu
		Aditya Kaushal	1CR10CS002	
		Anku	1CR10CS013	
		komal kumari	1CR10CS043	
15	Load Balancing model based on cloud Partitioning for Public Cloud	Chaithra.R	1CR11CS402	Mrs.Alekya
		C.Pooja	1CR10CS024	
		Chaithra.S	1CR10CS025	
		Deepika.V	1CR10CS029	
16	Opportunistic MANETs: Mobility Can Make Up for Low Transmission Power	Sarita Patil	1CR11CS420	Mrs.Manjima
		Megha Agarwal	1CR10CS046	
		Nandini S	1CR10CS052	
		Kavya V	1CR11CS407	
17	Semantic Mutation Testing Tool	Akhil Kiran Uchil	1CR10CS007	Mrs.Snehal
		Ashish M	1CR10CS020	
		Impana paalyam	1CR10CS039	
		Oindrila paul	1CR10CS059	
18	Graphical Password	Upasna SMenon	1CR10CS110	Mrs.Ashwini
		Y Shwetha	1CR10CS117	
		Samrudhi Vasant	1CR10CS082	
		T Lakshmi nair	1CR10CS107	
19		Sandeep K	1CR10CS084	Mrs.Sahana

	AMES-Cloud A frame work of adaptive mobile video streaming and efficient video sharing in the clouds	Rakesh N.N	1CR10CS068	
		Sounlal	1CR10CS099	
		Vinay Hegde	1CR10CS115	
20	RMT Pro	Mohan prasad	1CR10CS050	Mrs.Alekya
		Mridul deep s	1CR10CS051	
		Sunil Kumar B.N	1CR10CS105	
		Tejaswini Priyanka	1CR10CS108	
21	Vampire attacks.Draining life from wireless ad hoc sensor network	Gajendra.V	1CR10CS035	Mrs.Keerthana
		Gururaj Ganesh	1CR10CS037	
		Priyanaka Chabbi	1CR10CS064	
22	Omni channel retailing using mobility	Lakshmi Sreeja	1CR10CS022	Mrs.Snehal
		Aishwarya Singh	1CR10CS004	
		D. Deshwani	1CR10CS033	
23	Optimizing clouds resources for delivering IPTV services through virtualizations	Sahana S	1CR10CS079	Mrs.Aishwarya Lakshmi
		Sairam K Raj	1CR10CS080	
		Yavanika A	1CR10CS118	
		Vandana N	1CR11CS422	
24	Towards privacy preserving and collision Resistance in allocation proof updating system	Vinu.B.A	1CR10CS116	Ms.Savitha
		Prasad D	1CR10CS062	
		Anil kumar M N	1CR11CS401	
		Rohith N	1CR10CS076	
25	On the node Clone detection in WSN	Navya B M	1CR10CS054	Mr.Sudhakar
		Nandini S N	1CR10CS053	
		Acharya Nikhil	1CR10CS001	
		Angelica K	1CR10CS009	
26	A Fast clustering based feature subset selection algorithms for high dimensional data	Chetan K S	1CR10CS026	I. Manimozhi
		Anudeep M	1CR10CS015	
		Vinayaka	1CR11CS423	
		Sandeep A	1CR10CS083	
27	using fuzzy logic control to provide intelligent traffic management service for high speed networks	Ayesha Sultana	1CR08CS014	Mr.Mahesh
		Sowmya.R	1CR10CS101	
		Navya K	1CR11CS412	

28	Identity based secure distributed data storage scheme	Ankit shrivatava	1CR10CS012	Mrs.Manimozhi
		Venkatesh Devam	1CR10CS112	
		Rahul Kumar	1CR10CS067	
		Saket kashyap	1CR10CS081	
29	Fault Node Recovery Algorithm for a WSN	Niraj Prasad	1CR10CS056	Mrs.Bhavani
		Nisha kumari	1CR10CS057	
		Nitish Kumar	1CR10CS058	
30	Detection of Energy Draining Attacks using EWMA in Wireless Adhoc Networks	Karthik	1CR11CS406	Mrs. Sujatha
		Mahendra A.C	1CR11CS408	
		Prathvi Raj	1CR11CS413	
		Sharan A M	1CR11CS421	
31	WARNING BIRD: A near real time detection system for suspicious URLs in Twitter stream	Anshu Kumar	1CR10CS016	Mrs.Sahana
		Rishan Chakravarty	1CR10CS073	
		Ravi ranjan	1CR10CS0970	
		Sushobhit Pant	1CR10CS106	
32	NICE: Network intrusion detections and counter measure selections in Virtual network system	vivek ranjan	1CR09CS111	Mrs.Manjima
		krishna kant s	1CR10CS044	
		Gaurav sinha	1CR10CS036	
		Mohammed Faisal	1CR10CS048	
33	Reversible Data Hiding with Optimal Transfer Value	Nikhil Singh	1CR10CS055	Ms.Savitha
		Nageshwar Naik	1CR11CS411	
		Shailendra Singh	1CR10CS091	
		Vikesh Jain	1CR10CS114	
34	Social tubes P2P assisted video sharing in online social Networks	Shiva Kumar.V	1CR10CS094	Mrs.Vasanth
		Saurav Kumar	1CR10CS089	
		Shivi Shekar Singh	1CR10CS096	
		pushpender	1CR08CS069	
35	Doctorlive:Cloud based Solutions for Doctor Patient Interactions	Bedanta Bikash B	1CR10CS023	Mrs.Shanthi
		Ritesh Ranjan	1CR10CS074	
		Ravitej T.H	1CR10CS071	
		SanjeevKumar S	1CR10CS086	
36	cloud mo V- cloud based mobile social TV	Rahul Sinha	1CR08CS072	Mrs. Sujatha
		A. Sunil	1CR09CS001	

### Project list 2012-2013

Sl. No.	Project Name	Student	USN	Guide
1	Secure audio steganography Using LSB Encoding	Mamatha.T	1CR09CS052	Mr.Shantha Kumar
		Manjiri Dhananjaya Patil	1CR09CS055	
		Amrith Singh Chandok	1CR09CS115	
2	NYMBLE: Blocking Misbehaving users in anonymizing networks	Abhay Kumar	1CR09CS003	Ms.V Aiswarya Lakshmi
		K.N.Lakshmi Devi	1CR09CS038	
		Khetaram Kumawat	1CR09CS044	
		Subodh Prakash	1CR10CS414	
3	TAM:Tiered authentication of multicast protocol	Kishore Mohan Raj	1CR09CS046	Mr. Mahesh.D.S
		Manish Sharma	1CR09CS054	
4	Safe and Secure Java as a Pepper Plug-in for Google Chrome	Anuj Sharma	1CR05CS006	Mrs. Vasantha
		Edilbert Fernando	1CR05CS025	
		Shankar.M	1CR09CS416	
5	Elastic Replication Management System	Akash Kumar	1CR09CS005	Mr. Kiran Babu.T.S
		Ashish Kumar	1CR09CS017	
		Arpita Kushwaha	1CR09CS016	
		Divya Narasappa	1CR09CS030	
6	Exploring the design space of social network Based SYBIL defenses	Ayush Agarwal	1CR09CS019	Ms. Savitha S
		Bhanu Pratap Singh	1CR09CS021	
		Brijesh R Krishnan	1CR09CS023	
		Kaustubh Chaudhuri	1CR09CS041	
7	Enhancing security of Android Operating System for Mobile Phones	Ananya Samantarai	1CR09CS011	Mrs.Swathi Y
		Revathi.K	1CR09CS039	
		Kavya LakshmiNarayanan	1CR09CS043	
8		Anvitha Shetty	1CR09CS015	Mr.Manjunath S

	BECAN:Bandwidth efficient cooperative authentication Technique for filtering false injected data in Wireless Sensor Networks	Madhurima Ghosh	1CR09CS050	
		Maria Sneha David	1CR09CS057	
		Rohini Gopinath	1CR08CS081	
9	SPOC: A Secure and Privacy-preserving Opportunistic computing framework for Mobile-Health Care Emergency	Lordwin Thangam	1CR09CS049	Mr. Priyadarshi Mishra
		Kiran.B.P	1CR09CS045	
		F.Barry Anand	1CR09CS032	
10	Geolocation based node detection in cloud computing	Avinash Kiran.S	1CR09CS018	Mrs.Swathi Y
		Bharghavi.R	1CR09CS022	
		Chaitra.R	1CR09CS025	
11	On optimizing the overlay Topologies in unstructured P2P Networks	Akshay Raina	1CR09CS007	Mr.Sudhakar K.N
		Anand Tiwari	1CR09CS010	
		Manik Solanke	1CR09CS053	
		Manoj Sharma	1CR09CS056	
12	Expert System for Diabetes using Fuzzy and Neural Mechanism	Anushree.J.B	1CR09CS014	Mr.Manoj Challa
		Kiran.T	1CR08CS121	
		Kavya Agarwal	1CR09CS042	
		Vijay Govind.S	1CR09CS116	
13	Towards secure and dependable storage services in cloud computing	Abul Ehteaham	1CR09CS004	Mrs. Bhavani Phanisri A
		Dilip Kumar	1CR09CS027	
		Akshay Kumar	1CR09CS006	
		Lokesh Kumar	1CR10CS408	
14	Service Level Agreement for Distributed MutualExclusion in cloud computing	Ashoka.M.V	1CR10CS401	Mr. Shreyas A
		Ashwath Narayan	1CR10CS402	
		Nitin.G.K	1CR07CS405	
		Vishal V Sangolli	1CR10CS416	



15	An Efficient caching scheme and consistency maintenance in hybrid P2P system	Alka Kumari	1CR09CS008	Ms. Savitha S
		Divya	1CR09CS029	
		Manisha Verma	1CR09CS117	
16	Cloud Computing Security: From Single to Multi-clouds	Puja Kumari	1CR09CS073	Mrs. ManiMozhi I
		Shruti Shivaramakrishnan	1CR09CS096	
		Srividya.V	1CR09CS103	
		Supriya.R	1CR09CS104	
17	Energy Aware Resource allocation in multitier virtualized Environment	Peddaveeraiah Sreenivasulu	1CR09CS066	Ms.Sujatha S.G
		Nagendra Babu.L.P	1CR09CS060	
		Ravi Kumar.O	1CR09CS080	
		Yashwantha.D.R	1CR09CS113	
18	Automated E-mail Client with Parsing	Aashik.R	1CR09CS002	Ms.V Aiswarya Lakshmi
		Dabeet.R. Sarvaiya	1CR09CS026	
19	Independent directed Acyclic graph for Resilient Multipath Routing	C.H.Rakesh	1CR09CS024	Mrs. Shrithi G.R
		Kaushik.M	1CR09CS040	
		Malay Raj	1CR09CS051	
20	Multipath Energy Efficient Congestion Control in Wireless Sensor Network	Ambati Spandana	1CR09CS009	Mrs. Sridevi K.N
		Geetha.V	1CR09CS033	
		Hemalatha.R	1CR09CS035	
		Hemalatha.S	1CR09CS036	
21	Balancing the trade-offs between Query delay and data availability in MANETs	Vishwa Ranjan	1CR08CS116	Mr. Mahesh D.S
		Barun Dutta	1CR08CS016	
		Krishna Kant Singh	1CR08CS033	
22	Image Based Mosaic: A Variable construction method	Nupur Shah	1CR09CS064	Mrs. Suma R
		Shilin Elizabeth Josline	1CR09CS092	
		Shirish.R	1CR09CS093	



		Surabhi Dusaj	1CR09CS105	
23	Improved non-local means based on pre clarification and invariant block matching	Mohaseen Khan.M	1CR10CS410	Mr. Shantha Kumar
		Padmanaban.M	1CR09CS065	
		Santhosh Devadiga	1CR09CS088	
		Vinoj.V	1CR09CS110	
24	Distributed packet buffers for high bandwidth switches and routers	Rakesh Kumar Raushan	1CR09CS077	Mrs. Vasantha M
		Nilesh D Babar	1CR09CS062	
		Rohin Sharma	1CR09CS082	
		Subhrajyoti Sen	1CR07CS070	
25	Platform-wide deadlock immunity for Android phones	Nishant A Rawtani	1CR09CS063	Mrs. Manimozhi I
		Sharath P Kaushik	1CR09CS090	
		Sriharshitha.J	1CR09CS102	
		Vivek Vijayan	1CR09CS112	
26	Risk Aware Mitigation for MANET Routing Attacks	Prabhdeep Singh Deol	1CR09CS068	Mrs. Manjima R.L
		Prakhar Sinha	1CR09CS070	
		Shikhar Anand	1CR09CS091	
		Rasika R Dambal	1CR10CS413	
27	Challenges techniques and directions in building XSEEK: An XML Search Engines	Deepika Bastukar	1CR10CS404	Mrs. Bhavani Phanisri
		B.R.Lavanya	1CR09CS020	
		Lakshmi Priya	1CR09CS047	
28	Mitigating insider data theft attacks in the cloud	Dominic Percival Digges	1CR09CS031	Mr. Sundeep Kumar K
		Chaittra Shree.N	1CR09CS058	
		Rahul Raj	1CR06CS091	
29	A Secure Erasure Code- Based cloud storage systemwith secure data forwarding	Harish.V	1CR10CS406	Mr. Priyadarshi Mishra
		Karthik.J	1CR10CS407	
		Manikanta.K	1CR10CS409	

		Muddasir Hussain.D	1CR10CS411	
30	Spectrum aware mobility management in cognitive radio cellular networks	Sagar Datta	1CR09CS086	Mrs. Shanthi M.B
		Shraddha Joshi	1CR09CS094	
		Sooraj Honnappayya Nayak	1CR09CS101	
		Swati Sarma.V	1CR09CS106	
31	Cooperative provable data possession for integrity verification in Multi-Cloud Storage	Rohit Kumar	1CR09CS083	Mrs. Sujatha S.G
		Prakhar Prabhat	1CR09CS069	
		Saurabh Kumar	1CR09CS089	
		Siddhant Sinha	1CR09CS097	
32	Implementation of admission control technique at Edge Routers	Girish.G	1CR09CS034	Mrs. Shanthi M.B
		Vikram Kumar Singh	1CR10CS415	
33	A new approach to Forecasting Stock Price using EKF Data Fusion Method	Shreya Singh	1CR09CS095	Mr. Manoj Challa
		Annupriya	1CR09CS013	
		Sneha Kumari	1CR09CS099	
34	Packet hiding methods for preventing selective jamming attacks	Rohan Gulati	1CR09CS081	Mr. Shreyas A
		Rudrajit Ukil	1CR09CS084	
		Rakesh Kumar	1CR09CS076	
		Sitaraman.R	1CR09CS098	
35	Impulse noise reduction technique using Fuzzy Logic for image processing	Charitha G.R	1CR10CS403	Mr. Manoj Challa
		Praveen.K	1CR08CS404	
		Preeti	1CR09CS412	
36	Defences Against Large scale online password guessing attacks by using persuasive click points	Pranith Kumar.M	1CR09CS413	Mr. Kiran BabuT.S
		Saranya.B	1CR09CS415	

## Information Science and Engineering

**1. Name of the Department: Information Science and Engineering (ISE)**

**2. Year of Establishment: 2000**

**3. Names of Programmes/Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters; Integrated Ph.D., etc.)**

The following programme is offered in the Department of ISE

Sl.No	Programme	Course	Affiliated University	Year of establishment	Initial Intake	Present Intake
1	UG	B.E (ISE)	Visvesvaraya Technological University(VTU), Belgaum, Karnataka	2000	60	120

**4. Names of the Interdisciplinary courses and departments/units involved**

The curriculum of Department of Information Science and Engineering has interdisciplinary courses and is associated with Department of Basic Science and Humanities (BSH) and Department of Electronics and Communication Engineering (ECE) with the following courses listed in the table below

Semester	Names of the Course/Subject	Departments Involved
III	Engineering Mathematics – III	BSH
IV	Engineering Mathematics – IV	
III	Discrete Mathematical Structures	
III	Electronic Circuits	ECE
III	Logic Design	

**5. Annual / semester / choice based credit system (Programme wise):**

Semester wise system & Choice based credit system

**6. Participation of the department in the courses offered by other departments:**

The department of ISE associated with other departments in handling the following courses.

Sl. No.	Semester	Subjects handled	Department	Subject Code
1	VI	Operating Systems	Electronics and Communication Engineering (ECE)	10EC65
2	II(M.Tech ) (CSE)	Artificial Intelligence	Computer Science and Engineering(CSE)	14SCS2
3	I(M.Tech) (CNE)	Advance SAN	Computer Science and Engineering (CSE)	14SCN14

**7. Courses in collaboration with other universities, industries, foreign institutions Etc.**

Sl. No	Courses	Industry
1	Information Storage and Management	EMC <sup>2</sup>
2	Cloud Infrastructure and Services	EMC <sup>2</sup>
3	Storage Area Networks	EMC <sup>2</sup>
4	Infosys Campus Connect	Infosys Technologies Ltd.
5	Database Management Systems	IIT, Madras

**8. Details of courses / programmes discontinued (if any) with reasons- NIL**

**9. Number of teaching posts**

Under Graduate: BE ISE

Post	Sanctioned	Filled
Professors	2	2
Associate Professors	6	6
Assistant Professors	16	16

## 10. Faculty profile with name, qualification, designation, specialization, (B.E/M.Tech/Ph.D)

**For the academic Year 2016-17**

S.NO	Faculty Name	Designation	Qualification	Years of Experience	No. of PhD students guided for last 4 years
1	Dr.Prem Kumar	Professor & HOD	PhD	10.6	2
2	Dr.Jhansi Rani	Professor	PhD	12.5	6
3	Dr.Deepa Anand	Associate Professor	PhD	9	3
4	Mr.Manoj Challa	Associate Professor	M.Tech;(PhD)	14	-
5	Mrs. Shilpa Pande	Associate Professor	M.E	10	-
6	Mr. Anand R	Associate Professor	M.Tech;(PhD)	13	-
7	Ms. Geetha S	Associate Professor	M.Tech (PhD)	10	-
8	Mrs. Danthuluri Sudha	Associate Professor	M.Tech;(PhD)	8	-
9	Ms Sheetal R	Assistant Professor	M.Tech	9	-
10	Mrs. Tulsi Ajwalia	Assistant Professor	M.Tech	6	-
11	Ms. Madhu G	Assistant Professor	M.Tech;(PhD)	5	-
12	Mrs. Divya Singh	Assistant Professor	M.Tech	4	-
13	Mr.Nikhil Joshi	Assistant Professor	MSc;(PhD)	3	-
14	Mrs. Megha Shrama	Assistant Professor	M.Tech	8	-
15	Mrs. Kanthimathi S	Assistant Professor	M.Tech;(PhD)	4	-
16	Ms. Priyanka R	Assistant Professor	M.Tech	4	-
17	Mrs. Febin Vahab	Assistant Professor	M.Tech	8	-
18	Ms.Anisha Kunjan	Assistant Professor	M.Tech	2.5	-
19	Mr.Samrat Chowdhury	Assistant Professor	M.Tech	2	-
20	Prajwala T.R	Assistant Professor	M.Tech	3	-

21	Ms.Samiksha Sharma	Assistant Professor	M.Tech	0.6	-
22	Ms.Esther Priscilla E	Assistant Professor	M.Tech	4	-
23	Mr.Prasad M S	Assistant Professor	M.Tech	0.6	-
24	Ms.Ramya S	Assistant Professor	M.Tech	5	-

**11. List of senior visiting faculty:** NIL

**12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty:** NIL

**13. Student-Teacher Ratio (Programme wise)**

The Department currently has an intake of 120 students in under graduate (UG) programme. The student faculty ratio is as mentioned:

Year	Sanctioned Intake	No. of Faculty	Student Teacher Ratio
2016-17	360	24	15:1
2015-16	360	26	14:1
2014-15	360	26	14:1
2013-14	360	24	15:1
2012-13	360	24	15:1

**14. Number of academic support staff (technical) and administrative staff-)**

The below given table gives the cadre wise structure of academic support: Details are given in **ANNEXURE-I.A.**

Academic Support Staff	Sanctioned	Filled
Administrative Staff	1	1
Technical Staff	5	6
Foreman	1	1
Helper	2	2
Total	9	10

**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:**

Sl. No.	Qualification	No. of Faculty
1.	Ph.D.	3
2.	M.Tech (Ph.D)	7
3.	M.Tech	14

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: NIL****17. Departmental projects funded by DST–FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL****18. Research Centre/facility recognized by the University: NIL****19. Publications:****a) Publication per Faculty**

**Details of the publications are given in ANNEXURE-I.B**

Sl. No	Name	No of publications					
		2016-17	2015-16	2014-15	2013 -14	2012-13	2011-12
1	Dr. Prem Kumar Ramesh	-	2	-	-	-	-
2	Dr.Jhansi Rani	-	4	-	-	-	-
3	Dr.Deepa Anand	-	2	5	-	-	-
4	Dr.Aswatha Kumar M	-	-	-	1	1	-
5	Dr. Loganayagi B	-	-	-	-	-	3
6	Dr. A Srinivasa Rao	-	-	-	-	-	3
7	Mr Manoj Challa	-	4	4	6	5	2
8	Ms. Geetha.S	1	4	2	2	6	2

9	Mr.Anand R	1	-	1	1	3	2
10	Ms.Madhu	1	1	1	-	1	
11	Mrs. S.Kanthimathi	-	-	1	2	-	-
12	Mrs.Febin A. Vahab	-	-	1	-	-	-
13	Mrs.Tejaswini N	-	-	1	-	-	-
14	Ms.Anisha K S	-	1	2	-	-	-
15	Ms. Priyanka.R	-	3	2	2	1	-
16	Ms. Prajwala T R	-	-	2	-	-	-
17	Mrs Shilpa pande	-	1	-	-	2	1
18	Ms.Divya Singh	-	2	-	-	-	-
19	Mrs.D.Sudha	-	1	-	-	2	-
20	Ms.Shankuntala	-	-	2	-	-	-
21	Ms. Lalitha Asokan	-	-	-	-	2	1
22	Ms. Sheetal R	-	-	-	-	2	-
23	Ms. Jyotha	-	-	-	-	1	-
24	Ms. Sudhamayi	-	-	-	-	2	-
25	Ms. Soubhagaya Lakshmi	-	-	-	-	1	-
26	Mr. GaneshKumar	-	-	-	-	3	2
27	Ms. Soma pandey	-	-	-	-	-	2
28	Ms.Swetha	-	-	-	-	-	1
29	Ms. Suma S G	-	-	-	-	-	1



30	Ms. Tulasi	-	-	-	-	-	1
<b>Total</b>		<b>3</b>	<b>25</b>	<b>24</b>	<b>14</b>	<b>32</b>	<b>21</b>

**\*Number of papers published in peer reviewed journals (national /international) by faculty and students**

No of publications					
2016-17	2015-16	2014-15	2013-14	2012-13	2011-
3	25	24	14	32	21

\* Number of publications listed in International Database (For Eg:Web of Science, Scopus, Humanities International Complete, Dare Database- International Social Sciences Directory, EBSCO host, etc.) NIL

\* Monographs - NIL

\* Chapter in Books -NIL

\* Books Edited -NIL

\* Books with ISBN/ISS numbers with details of publishers

Sl. No	Name	Title	Publisher	ISBN / ISSN	Year of Publication
1	Dr. A Srinivasa Rao	Artificial Intelligence	VIKAS® PUBLISHING HOUSE PVT LTD E-28, Sector-8, Noida – 201301 (UP)	-	2009
2.	Dr. Jhansi Rani P	Internet Programming	NAGARAJUNA UNIVERSITY	-	2009
3	Dr. Jhansi Rani P	Programming in Java	NAGARAJUNA UNIVERSITY	-	2009

\* Citation Index:

Sl. No	Faculty Name	Citation Index
1	Dr. A Srinivasa Rao	2
2.	Mr. Manoj Challa	12
3.	Dr. Aswatha Kumar M	161
4.	Dr. Deepa Anand	159
5.	Dr. Jhansi Rani P	11

6.	Dr.Prem Ramesh kumar	28
7.	Dr. Loganayagi B	44

\* SNIP:

Sl. No.	Faculty Name	Title of the paper	SNIP
1	Dr. Loganayagi B	Secure Cloud Computing Services using Virtualization and Service Policy Monitoring Techniques	0.529
		“Improving Cloud Security through Virtualization”	0.910
		Enhancing Cloud Security through policy Monitoring technique	0.190
		“Enhancing Cloud Security by combining virtualization and policy Monitoring techniques”	0.314

\* SJR:

Sl.No	Faculty Name	Title of the paper	SJR
1	Dr. Loganayagi B	Secure Cloud Computing Services using Virtualization and Service Policy Monitoring Techniques	0.547
		Improving Cloud Security through Virtualization	0.140
		Enhancing Cloud Security through policy Monitoring technique	0.140
		Enhancing Cloud Security by combining virtualization and policy Monitoring techniques	0.165

\* Impact factor:

Sl. No	Faculty Name	Impact factor
1	Dr. Srinivasa Rao A	1.2-4.43
2	Dr. Deepa Anand	2.162
3	Dr.Jhansi rani	1.8-5.629
4	Dr.Prem Ramesh kumar	1.723-2.25

5	Mr. Manoj Challa	0.4 – 2.0
6	Mr. Anand. R	1.27-4.43
7	Ms. Geetha.S	1.82
8.	Ms. Kanthimathi.S	0.23-1.09
9	Ms. Prajwala	1.05-1.23
10	Ms. Febin. A.Vahab	1.261
11	Ms. Priyanka	1.82

\* h-index:

Sl. No.	Faculty Name	h-index
1	Dr. A Srinivasa Rao	1
2.	Dr. Deepa Anand	5
3.	Dr. Jhansi Rani P	2
4.	Mr. Manoj Challa	2
5.	Dr.Prem Ramesh kumar	4
6.	Dr. Loganayagi B	3

## 20. Areas of consultancy and income generated

Sl. No.	Faculty Name	Company	Area(s) of Consultancy	Amount	Year
1	Mr. Anand R	CMR Institute of Technology	Web data Extractor (VTU results)	-	2014
2	Mr. Nikhil Joshi	Leviosa Consulting Pvt Ltd	ERP Package Development. End Customer: CMR National	20,000	2013

## 21. Faculty as members in

### a) National Committees b) International Committees c) Editorial Boards

SL.No	Faculty Name	Committee
1	Mr. Manoj Challa	IEEE (Member in the Reviewer Committee -2015)
2	Dr.Jhansi rani	IEEE (Member in the Reviewer Committee - 2016)

## 22. Student Projects

### a) Percentage of students who have done in-house projects including inter departmental/programme

Details are given in ANNEXURE 1C.

Sl.	Academic Year	Percentage in house
1.	2015-16	88%
2.	2014-15	89%
3.	2013-14	88%
4.	2012-13	91%
5.	2011-12	86%

### b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/ other agencies.

Details are given in ANNEXURE 1C.

Sl. No.	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
1.	2015-16	12%
2.	2014-15	11%
3.	2013-14	12%
4.	2012-13	9%
5.	2011-12	14%

## 23. Awards / Recognitions received by faculty and students.

### ➤ Faculty

Sl. No.	Name of the Faculty	Name of the Award/recognition	Name of the Agency	Year
<b>Academic Year 2015-2016</b>				
1	Ms. Sunitha Kumari B K	SBI Pinkathon 3k Race – 2 <sup>nd</sup> Place	SBI	2016
2	Ms. Sunitha Kumari B K	Adidas Uprising Bangalore 200 mtrs Gold 100 mtrs Silver 900 mtrs Silver	Adidas	2015

3	Ms. Sunitha Kumari B K	Bangalore 10k Challenge 5Kms – 2 <sup>nd</sup> Place	Sriram Properties	2015
4	Ms. Sudha, Ms.Madhu, Ms.Akhilaa, Ms.Swathy	Secured First place in Throwball competition, conducted college level.	Cmr Institute of Technology	2016
<b>Academic Year 2014-2015</b>				
1	Ms. Sheetal R	SILVER partner faculty award under “Inspire – The Infosys Campus Connect Faculty	Infosys Technologies Ltd.	2015
2	Ms. Madhu G	BRONZE partner faculty award under “Inspire – The Infosys Campus Connect Faculty Partnership model”	Infosys Technologies Ltd	2015
3	Mrs. Sudha. D, Mrs. Madhu G, Ms. Geetha S	Secured First place in Throwball competition, conducted college level.	Cmr Institute of Technology	2015
4	Dr. Jhansi Rani P	First Best Paper Award for the paper “Hash Function using Chaotic Maps”	ICCN	2014
5	Mrs. Lalitha Asokan	“Service Award” for Completing 10	Cmr Institute of Technology	2014
6	Mrs. Sudha. D, Mrs. Madhu G, Ms. Geetha S	Secured second place in Throwball competition, conducted college level	Cmr Institute of Technology	2014
<b>Academic Year 2013-2014</b>				
7	Mrs Geetha S	Best Paper Award for the paper “Open Platform Wireless Sensor Networks providing energy for Bluetooth enabled agitate objects based on the Data Mining Techniques” at National conference on Advance Computing – Ooty	National conference on Advance Computing	2013

## ➤ Students

S.NO	Name Of Student	Name of Award	Name of Agency	Year
1	Parul	Aquaponics smart farming - Shrishti winners Place 1st in agriculture category.	SRISHTI	2016
2	D Priyadarshini	7 <sup>th</sup> VTU Rank Holder	VTU	2016
3	C J Anoop	Second Prize Ideas for India	Universe Health , Education and Environmental Trust	2015
4	Neha Bharadwaj	9 <sup>th</sup> VTU Rank (6 <sup>th</sup> Sem)	VTU	2015
5	Sanjeev, Venkatesh Rathod	Winner of the inter department cricket match	CMR Institute of Technology	2015
6	Abraar K Syed	5th Place in Greeklist Hackathon and has been selected as Student ambassador	Firefox	2014
7	Monisha Ramesh	“Miss Beautiful Eyes”	Miss Diva Universe Contest-2014	2014
8	Vibhash Ranjan	State level table tennis championship in both singles and doubles and cluster region championship in table tennis to his credit.	Karnataka State Sports Council	2014
9	Preetham Rukmaya P	VTU 4 <sup>th</sup> Rank Holder	VTU	2013
10	Jyothi Maria Corea	VTU 5 <sup>th</sup> Rank Holder	VTU	2013
11	Ankur Yadav	VTU 6 <sup>th</sup> Rank Holder	VTU	2012
12	Chaitanya Reddy	First Prize in mini football	8th MILE 2012R.V. College of	2012

			Engineering	
13	Ashwin J	First place	PULSE 2012 – Robotics Event conducted at RNS Institute of Technology Bangalore	2012
14	Naganandini R	VTU 6 <sup>th</sup> Rank Holder	VTU	2011
15	Ashwin J	First place	Robo NEXGLine – Follower Robot Competition conducted at MSRIT, Bangalore	2011
16	Ashwin J	Third place in TECHOZION’11 – Robo game event	NIT Warangal	2011
17	Ashwin J	Third place in TECHOZION’11 – Robo (Line Follower) event	NIT Warangal	2011
18	Ashwin J	First place in Fest’11- Robotics Event	PES School of Engineering	2011
19	Narendra B	First place in IBM Think Explore- Evolve- Health care solutions	IBM India University Relations	2011
20	Vinay R	First place in IBM Think Explore- Evolve- Health care solutions	IBM India University Relations	2011
21	Sandesh Setty	First place in IBM Think Explore- Evolve- Health care solutions	IBM India University Relations	2011
22	Chaitanya Reddy	First Prize in Mini Soccer- Verve-11	JSS Academy of technical Education Bangalore	2011
23	Chaitanya Reddy	First Prize in Football- UTSAV 2011	B. M.S College of Engg.- Bangalore	2011
24	Ankur Yadav	First Prize in Code warriors Sankriti 2011	Vemana Institute of Technology- Bangalore	2011
	Anand	First prize in Crac ‘d’		

25	Kumar	code INFERNO' 10	AMC College of Engg.	2010
26	Pragith Prakash	First prize in Paper Presentation	Technoholiks 10 CMR	2010
27	Raman Vishnu	First prize in Code warriors Swayam	MVJ College of Engg	2010

#### 24. List of eminent academicians and scientists/visitors to the department

Sl. No	Name of Academicians/ Scientists / Visitors	Name of Company	Title and Date
1	Dr. NM Bhatta	Tata Consultancy Services, Bangalore	Cloud Computing 12 <sup>th</sup> March 13
2	Prof. Bhabatosh Chanda	ISI Kolkata	Mathematical Morphology 24 <sup>th</sup> April 13
3	Mr. P.G Bhat	Pluma Knowledge Solutions (P) Ltd.	Data Quality 20 <sup>th</sup> December 14
4	Dr. Nishanth Chandra	[24]7, Bangalore	Natural Language Processing 09 <sup>th</sup> December 14
5	Mr. Abhinav Agrawal	TCS, Bangalore	R Programming 25 <sup>th</sup> April 15
6	Mr. Mallanagouda Patil	Principal Software Engineer, EMC <sup>2</sup>	Big Data 9 <sup>th</sup> to 11 <sup>th</sup> February 16
7	Mr. Aseem Sethi	VP Eng at Aryaka Networks	Computer Networks 8 <sup>th</sup> October 16
8	Dr. Krishnan R	Dayananda Sagar College of Engineering, Bangalore	Workshop On DAA, ST and Microprocessor 16 <sup>th</sup> January to 21 <sup>st</sup> January 17

#### 25. Seminars/ Conferences / Workshops organized & the source of funding:

##### a) National



Sl. No.	Title	Organizer	Number of participants	Resource Person	Funding Agency
<b>2016-17</b>					
1	Workshop On DAA, ST and Microprocessor	CMRIT	30	Dr.Krishnan R, Dayananda Sagar College of Engineering,	CMRIT
2.	Network security and cyber security	CMRIT	40	Manish Bharadwaj, Cyber security trainer, Azure skynet solution pvt ltd , Gurgaon	CMRIT
3	Workshop on animation and game design using blender	CMRIT	75	Aishwarya naidu, prashant kumar, roylen john	CMRIT
4	An Empowering Road Map to Masters and PhD Programs in USA in Fall 2017 and beyond- Prospects, Opportunities and Motivations for Academic and Career	CMRIT	40	Mr. Samudranil Chatterjee, Founder Mentor of <i>Educidate</i>	CMRIT
5	Seminar on “Wide Range Air Fuel Sensor”	CMRIT	50	Mr Ganesh S, Technical Manager- Powertrain – SW Development and Validation, DELPHI	CMRIT
6	Seminar on Computer Networks	CMRIT	50	Mr Aseem Sethi, CISCO	CMRIT
<b>2015-2016</b>					
1	Workshop on Big Data	CMRIT, Bangalore ,IEEE	150	Prof. Jayant Haritsa, Senior Professor and Chairman, Dept. of Computer Science, IISc	CMRIT, Bangalore ,IEEE
2	Workshop on R	CMRIT	40	Mr.Abhinav Agarwal	CMRIT
3	Foundation Program 4.0	Infosys	40	Mr Anoop Singh, Infosys	Infosys

4	IBM Webinar Series - Leader Talk 2	CMRIT	40	Mr Sanjiv Jain Associate Director - HR, IBM India & South Asia	CMRIT
5	Invited talk on "Data analytics &R"	CMRIT	50	Mr.Abhinav agarwal ,TCS,bangalore	CMRIT
6	Industry perspective on Software Architecture and Design using UML	CMRIT	50	Mr. Lakshminarayana ,Senior architect, Nokia Siemens	CMRIT
7	Dealing with Web Scale Data	CMRIT	40	Mr. Gautham Pai, Mrs, Shreelaxmi Gautham, Mr. Radha Krishna Nayak, Jnaapti	CMRIT
8	Microsoft Azure	CMRIT	40	Mrs. Lavanya Kasarabada, Microsoft Corporation, Redmond.	CMRIT
<b>2014-2015</b>					
1.	R Programming Workshop	CMRIT	50	Mr. Abhinav Agrawal, Proj. Manger, TCS, Bangalore	CMRIT
2.	Data Analytics and R	CMRIT	110	Mr. Abhinav Agrawal, Proj. Manger, TCS,	CMRIT
3.	Data Quality	CMRIT	14	Mr. PG Bhat, Retired Navy Commander, President of Pluma Knowledge	CMRIT
4.	Natural Language Understanding: Modeling the NL	CMRIT	120	Dr. Nishanth Chandra, Director, [24]7, Bangalore.	CMRIT
5.	IBM, BlueMix Workshop	CMRIT	30	Mr. Sachin Kumar, IBM	CMRIT
6.	Python Programming Language	CMRIT	80	Shailendra Mahapatra, Senior Lead at CSR India, Bangalore	CMRIT
7.	Information System Management	CMRIT	40	Ms. Zehana Chagani, Technical Bangalore.	CMRIT

2013-2014					
8.	Network Simulator-2 Workshop	CMRIT	40	Mr. Deepak Nadig, Director, Technology & Research, Solutt Corporation	CSI (Computer Society of India)
9.	Free Software Workshop	CMRIT	40	Mr. Prabodh, Asst Professor, SIT, Tumkuru & Mr. Vignesh, Java Developer, Intel India	CMRIT
10.	Android Software Development and Applications	CMRIT	80	Mr. Karthik, Proj. Manager, EC-Cube, Bangalore	CMRIT
11.	Fundamentals of Speech Processing	CMRIT	60	Prof. R Murali Shankar, ECE Dept, Dean of Academics and research, CMRIT	CMRIT
2012-2013					
12.	Entrepreneurship	CMRIT	80	Dr. Dinesh Anvekar, E&D	CMRIT
13.	Mathematical Morphology	CMRIT	60	Prof. Bhabatosh Chanda, ISI Kolkata	CMRIT
14.	Open Computing Language	CMRIT	80	Mr. Sahas Shivaling Sakhare, Software Engineer, AMD	CMRIT
15.	Cloud Computing	CMRIT	100	Dr. NM Bhatta, Global Program Director, Tata Consultancy Services, Bangalore	CMRIT
16.	Cloud and Mobile Security	CMRIT	100	Mr. Madan Srinivas, Member of Education & Research Division,	CMRIT
17.	Artificial Intelligence	CMRIT	80	Mr. Shridhar Pandey, Founder Elecrov Technologies	CMRIT

18.	Technology Trends and Java	CMRIT	100	Mr. Mahesh Gidwani, Senior Solution Architect, DELL Services, India,	CMRIT
19.	Eclipse IDE	CMRIT	100	Manjunatha Swamy M, System Engineer, Infosys, Bangalore.	CMRIT
<b>2011-2012</b>					
1.	Cloud Computing	CMRIT	100	Mr. Vikram Patil, Asst Manager, CISCO Technologies.	CMRIT
2.	PHP Open Source Technologies	CMRIT	100	Mr. Vikram Singh, Software Developer, JP	CMRIT
3.	AJAX-DWR	CMRIT	40	Mr. Phani Kumar Rao, Project Manager, Infinite Computer Solution Ltd,	CMRIT

## 26. Student profile programme wise/course wise:

Name of the Course/ Program		Applications Received	Management Quota	Selected	Enrolled		Pass percentage
					*M	*F	
Information Science							
B.E	2016-17	183	33	123	83	40	NA
	2015-16	180	33	122	66	56	NA
	2014-15	168	30	118	65	53	NA
	2013-14	185	30	115	51	64	NA
	2012-13	179	30	123	67	56	97.44
	2011-12	183	30	116	73	43	95.39

\*M=Male \*F=Female

## 27. Diversity of Students:

Name of the Course	Year	%of students from the same state	%of students from other	%of students from abroad
Information Science and Engineering	2016	54.47%	43.9%	0.016%
Information Science and Engineering	2015	64.75%	34.43%	0.008%
Information Science and Engineering	2014	63%	37%	0%
Information Science and Engineering	2013	69%	31%	0%
Information Science and Engineering	2012	60%	39.02%	0.008%
Information Science and Engineering	2011	60%	39.65%	0.0086%

## 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sl.No	Batch	Type of exam (NET, SLET, GATE, Civil services, Defense services, etc.)	Number of Students
1	2012	GATE	2
		CMAT	1
		MAT	3
2	2011	CAT	1

## 29. Student progression

Student progression	Against % enrolled				
	2012-2016	2011-2015	2010-2014	2009-2013	2008-2012
UG to PG	2.52%	8.06%	3.33%	2.4%	6%
PG to M.Phil.	-	-	-	-	-
PG to Ph.D.	-	-	-	-	-
Ph.D to Post-Doctoral	-	-	-	-	-
Employed					
• Campus selection	83.19%	48.39%	40.83%	74.66%	65.51%
• Other than campus recruitment	10.08%	40.32%	46.66%	-	-
Entrepreneurship/Self-employment	--	--	--	3%	--

## 30. Details of Infrastructural facilities

### a) Library

Sl. No.	Area	No. of books	No. of monographs	No. of CDs	VTU Consortium E-resources	No. of journals	No. of reports	*Misc	
1	19 Sq. mtr.	350	0	32	IEEE	93	380	97	
					190				
					IET				102
					VDE Verlag				20
					Springer E-Journals				93
J-Gate	7800								

\* includes syllabus, Question Papers, Magazines, Newsletters.

### b) Internet facilities for Staff & Students

Staff and student of the department have access to the campus wide Wi-Fi connectivity.

Service Provider	Product flavor	Port Speed
Bell Tele Services + Bell Tele Services	Leased line 1:1	55 Mbps
BSNL	Leased line	10 Mbps

### c) Class rooms with ICT facility

Sl. No.	Room No	Shared / Exclusive	Area In sq.m.	Teaching Aids
1	ISE – LH-201	Exclusive	90sq.m.	Portable Projector, WIFI Connectivity
2	ISE – LH-202	Exclusive	90sq.m.	Portable Projector, WIFI Connectivity
3	ISE – LH-205	Exclusive	90sq.m.	LCD Projector, WIFI Connectivity
4	ISE – LH-203	Exclusive	90sq.m.	LCD Projector, WIFI Connectivity
5	ISE – LH-204	Exclusive	90sq.m.	LCD Projector, WIFI Connectivity
6	ISE – LH-206	Exclusive	90sq.m.	LCD Projector, WIFI Connectivity
7	ISE – LH-207	Exclusive	90sq.m.	LCD Projector, WIFI Connectivity

### d) Laboratories-

Name of laboratory	Major equipment	Total Investment/ Amount spent
Data Structures with C Lab	Lenovo Think Centre, Intel Pentium CPU, G630 @2.7GHz, 2GB RAM, 300GB HDD, Lenovo 18.5” TFT Monitor .	797,000
Analog Digital Electronics lab	Lenovo Think Centre M70 , Intel Pentium Core 2 Duo Processor , 2GB RAM , 300GB HDD , HP Intel® Core™ 2 Duo CPU E4600@2.4 GHz , 1GB RAM ,160 GB HDD , 18.5” TFT , & Acer Desktop , Pentium® Dual-core CPU , E5400 @ 270GHz , Ethernet	1,355,332

	Card , 2GB RAM , 320 GB HDD , Digital IC Trainer kit , DC Power Supply(Dual & Single) , DC Regulated Power supply(fixed) , Analog & Digital IC Tester , Oscilloscope(CRO) , Signal Generator.	
Microprocessors Lab	Acer Desktop, Pentium ® Dual-core CPU ,E5400 @ 270GHz, Ethernet Card, 2GB RAM, 320 GB HDD, Logic Controller I/F ,Elevator I/F ,Stepper Motor I/F ,Dual DAC I/F ,Multiplexed Seven Segment I/F ,Matrix Keyboard I/F,ALS PCI-07 Cards,ALS-SDA-ARM7-9 ARM2148 Evaluation board.	881,275
Design & Analysis of Algorithms Lab	Lenovo Think Centre , Intel Pentium CPU, G630@2.7GHz , 2GB RAM,300GB HDD, Lenovo 18.5” TFT Monitor , HP LaserJet Pro Printer M202dw.	749,000
Database Applications Lab	Acer Desktop, Pentium ® Dual-core CPU ,E5400 @ 270GHz, Ethernet Card, 2GB RAM, 320 GB HDD	881,275
System Software & Operating Systems Lab	Lenovo Think Centre, Intel ® Pentium CPU, G630@2.7GHz,2GB RAM,300GB HDD, Lenovo 18.5” TFT Monitor, HP LaserJet Pro Printer M202dw.	797,000
File structure	HP dx2480 , Intel ® Core™ 2 Duo CPU E4600 @ 2.40 GHz , 3GB RAM , 160 GB HDD , DVD RW , HP keyboard , HP Optical Mouse , HP 17" TFT Monitor , HP LaserJet Pro Printer M202dw	802,138
Software testing	Lenovo Think Centre, Intel® Pentium CPU G630 @ 2.7GHz, 2GB RAM, 300GB HDD, Lenovo 18.5” TFT Monitor.	749,000
Web Programming lab	Acer System Intel® Pentium CPU G630@2.7Ghz, 2GB RAM, 300GB HDD, HP LaserJet Pro Printer M202dw.	797,000
Networks Lab	HP dx2480 , Intel ® Core™ 2 Duo CPU E4600 @ 2.40 GHz , 3GB RAM , 160 GB HDD , DVD RW , HP keyboard , HP Optical Mouse , HP 17" TFT	754,138



	Monitor , HP LaserJet Pro Printer M202dw.	
Project Lab	Acer System Intel® Pentium CPU G630@2.7Ghz, 2GB RAM, 300GB HDD, HP LaserJet Pro Printer M202dw.	749,000

### 31. Number of students receiving financial assistance from college, university, Government or other agencies.

Year	No: of students received financial assistance
2016-17	86
2015-16	61
2014-15	63
2013-14	30
2012-13	25
2011-12	6

Scholarship Details for Last Four Academic Years														
Sl. No.	Name of the Institutional Organization	Details	2016-17		2015-16		2014-15		2013-14		2012-13		2011-12	
			No. of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.
1	Social welfare	SC/ST	17	698425	17	469720	9	359440	2	85420	4	129260		
2	Backward classes	OBC	50	866100	26	453060	24	4041760	11	175870	1	3500		
3	Directorate of technical	Defense	6	207270	4	138180	8	252145	4	127510	5	142225		
5	Samaja Kalyan Dept	BCM-other state	2	50000	-	-	9	406730	1	50000				
6	Directorate of Collegiate education	Collegiate Edn.	-	-	-	-	1	18090						

7	CMR		5	50000	8	80000	6	120000	6	120000	9	180000		
8	SNQ		6	198000	6	198000	6	198000	6	198000	6	198000	6	198

**32. Details on student enrichment programmes (Special lectures / Workshops / Seminar) with external experts**

S.NO	Chapters / Professional societies	Name of activities/events organized	Resource person	Date	No. of Participants	Details
<b>Academic Year 2016-17</b>						
1	Workshop	Six Day Hands-on Workshop on DAA with JAVA, Micro Processor Programming and Software Testing Laboratories	Mr. Shivaraj V B, Dr.Jhansi Rani P, Dr.Prem Kumar Ramesh, Dr. Deepa Anand, Dr. P.N.Singh, Dr.Sanjay Chitnis, Dr.Krishnan R, Prof Sudhakar KN, Prof Anand R, Prof.Sudha D	16 <sup>th</sup> to 21 <sup>st</sup> January 2017	30	DAA with JAVA, Micro Processor Programming and Software Testing Laboratories
2	IEEE Student Chapter, CMRIT	Image Processing With Python 2.0	Rajath Kumar M P	11 <sup>th</sup> August 2016	95	The Basics Of Python Followed By Techniques Of Image Processing With Python, Namely Stitching, Face Recognition, Etc.

3	RISE	Hands-On Session On Photoshop	Shreyash Sharma, Ajay Kumar Hasda	17 <sup>th</sup> September 2016	30	Exploring Features Of Photoshop
4	Workshop	Network Security And Cyber Security	Manish Bharadwaj, Cyber Security Trainer, Azure Skynet Solution Pvt Ltd, Gurgaon.	30 <sup>th</sup> September to 1 <sup>st</sup> October 2016	40	Security on Web Applications and Network Security for all different network scenario
5	Workshop	Animation And Game Design Using Blender	Aishwarya Naidu, Prashant Kumar, Roylen John	30 <sup>th</sup> September to 2 <sup>nd</sup> October 2016	72	Designing a Game using Blender Software
6	Seminar	Insights On Higher Education	Mr. Samudranil Chatterjee, Founder Mentor Of Educidate	24 <sup>th</sup> September 2016	30	An Empowering Road Map To Masters And Phd Programs In USA In Fall 2017 And Beyond-Prospects, Opportunities And Motivations For Academic And Career Fulfillment
7	Seminar	Wide Range Air Fuel Sensor	Mr Ganesh S, Technical Manager- Powertrain – SW Development And Validation, DELPHI	4 <sup>th</sup> Aug 2016	35	Opportunities to work on different fuel sensors and practical demonstration.



8	Seminar	Computer Networks	Mr Aseem Sethi, CISCO	8 <sup>th</sup> October 2016	300	Different network layers with configuration .
9	Seminar	Overview of Programming languages	Rajneesh	27 <sup>th</sup> August 2016	40	All the outdated programming languages usage in new Programming Languages.
<b>Academic Year 2015-16</b>						
1	RISE	FIFA 15	Aishwarya Raj Singh	23 <sup>rd</sup> September 2015	35	Game Event
2	CSI	Workshop on IOT	Mr Raju John, Chief Client officer, Harness Systems, Bangalore	2 <sup>nd</sup> March 2016	90	Internet of Things.
3	IEEE	5 day Workshop on Big Data	Prof. Jayant Haritsa, Senior Professor and Chairman, Dept. of Computer Science, IISc	9 <sup>th</sup> to 13 <sup>th</sup> February 2016	40	How to handle Big Data with different recent tools
4	IEEE student chapter, CMRIT	MOCK IEEE Programming League	Anirban Ghosh	21 <sup>st</sup> to 28 <sup>th</sup> March 2016	35	3-Hour Online Coding Competition hosted by IEEE India Council.
5	IEEE student chapter, CMRIT	Introduction to GIT	Aishwarya Naidu	2 <sup>nd</sup> March 2016	30	Git was introductory hands-on session on version control systems using git and GitHub.

6	IEEE student chapter, CMRIT	Image Processing with Python	Rajath Kumar M P	11 <sup>th</sup> August 2016	95	The basics of python followed by techniques of Image processing with python, namely stitching, face recognition, etc.
7	IEEE student chapter, CMRIT	IEEE Quiz	Hacker Earth	5 <sup>th</sup> to 7 <sup>th</sup> March 2016	30	IEEE Quiz was composed of 20 Question to be answered (16 Multiple choice and 4 Subjective type questions).
8	IEEE student chapter, CMRIT	Web Development Workshop	Abraar Syed	5 <sup>th</sup> February 2016	135	Web development based on HTML and CSS.
9	IEEE student chapter, CMRIT	200 OK Hackathon	Anirban Ghosh, Arun Teja.	19 <sup>th</sup> to 20 <sup>th</sup> February 2016	69	200 OK featured as Open Hackathon, where participants were free to build a website, mobile app, or even hardware hack.

10	RISE	Opportunities for higher studies in UK	Prof. Deco Decourt, Staffordshire university	10 <sup>th</sup> February 2016	35	Opportunities for the higher studies in UK
11	GRID	Programming Maniac	Rahul Gupta	24 <sup>th</sup> April 2015	35	Coding Event.
12	GRID	Paper Presentation	Lokesh T	24 <sup>th</sup> April 2015	35	Paper presentation of various technical concepts.
13	GRID	Debate	S. Ashwini	24 <sup>th</sup> April 2015	35	Debate on Latest Softwares.
14	GRID	Code Warrior	Priyanka Barooah	24 <sup>th</sup> April 2015	35	Programming and Designing Skill Demonstration
15	GRID	Amnesia	Abhishek Singh	24 <sup>th</sup> April 2015	35	Event for students to showcase their talent.
16	Workshop on R	R programming	Mr. Abhinav Agarwal	25 <sup>th</sup> April 2015	50	Latest Programming Methodology in Corporate.
17	Workshop	Infosys	Mr Anoop Singh, Infosys	14 <sup>th</sup> July 2015	50	Foundation Program 4.0
18	Webinar	IBM	Mr Sanjiv Jain Associate Director - HR, IBM India & South Asia	23 <sup>rd</sup> February 2016	40	IBM Webinar Series - Leader Talk 2
19	Seminar	Invited talk on "Data Analytics & R"	Mr. Abhinav Agarwal, TCS, Bangalore	14 <sup>th</sup> February 2015	35	Data Mining and Data Extraction and Data Transaction and

						Language Processing.
20	Workshop	Software Architecture	Mr. Lakshminarayana, Senior architect, Nokia Siemens	17 <sup>th</sup> October 2015	35	Industry perspective on Software Architecture and Design using UML
21	Seminar	Web Scale Data	Mr. Gautham Pai, Mrs, Shreelaxmi Gautham, Mr. Radha Krishna Nayak, Jnaapti	24 <sup>th</sup> August 2015	50	Dealing with Web Scale Data
22	Seminar	Microsoft Azure	Mrs. Lavanya Kasarabada, Microsoft Corporation, Redmond. Seattle, USA	10 <sup>th</sup> July 2015	50	Practical Demonstration of the software.

Sl. No.	Lectures/ Workshop s/ Seminar	Guest Speaker	Company Name	Date	No. of Students participate
<b>2014-15</b>					
1.	Workshop	Mr. Abhinav Agrawal	TCS, Bangalore	25 <sup>th</sup> April 2015	50
2.	Training	Mr. Ananth Maliya	Quantech Origin, Bangalore.	10 <sup>th</sup> March to 4 <sup>th</sup> April 2015	110
3.	Seminar	Mr. Abhinav Agrawal	TCS, Bangalore	14 <sup>th</sup> February	110
4.	Seminar	Dr. Nishanth Chandra	[24]7, Bangalore.	9 <sup>th</sup> December	120
5.	Workshop	Mr. Sachin Kumar	IBM	5 <sup>th</sup> November	30
6.	Seminar	Mr. Shailendra Mahapatra	CSR India, Bangalore	11 <sup>th</sup> September 2014	80
<b>2013-14</b>					

7.	Workshop	Mr. Prabodh	Asst Professor, SIT, Tumkuru & Mr. Vignesh, Java Developer, Intel India.	4 <sup>th</sup> April 2014	40
8.	Network Simulator- 2	Mr. Deepak Nadig,	Director, Technology & Research, Solutt Corporation	27 <sup>th</sup> & 28 <sup>th</sup> June 2014	40
9.	Seminar	Mr. Karthik	EC-Cube, Bangalore	11 <sup>th</sup> November 2013	80
<b>2012-13</b>					
10.	Seminar	Prof. Bhabatosh Chanda	SI Kolkata	24 <sup>th</sup> April 2013	60
11.	Seminar	Mr. Sahas Shivaling Sakhare	AMD India Pvt Ltd.	6 <sup>th</sup> April 2013	80
12.	Seminar	Dr. NM Bhatta	Tata Consultancy Services, Bangalore	12 <sup>th</sup> March 2013	100
13.	Seminar	Mr. Madan Srinivas	Infosys Ltd., Mysore.	30 <sup>th</sup> January 2013	100
14.	Seminar	Mr. Shridhar Pandey	Elecrov Technologies, Pune.	5 <sup>th</sup> October 2012	80
15.	Seminar	Mr. Mahesh Gidwani	DELL Services, India, Bangalore	22 <sup>th</sup> September 2012	100
16.	Seminar	Mr. Manjunatha Swamy M	Infosys, Bangalore.	25 <sup>th</sup> August 2012	100
17.	Seminar	Mr. Vikram Patil	CISCO Technogies.	14 <sup>th</sup> & 15 February 2012	100
18.	Seminar	Mr. Vikram Singh	JP Morgan, Bangalore	11 <sup>th</sup> February	100
19.	Workshop	Mr. Phani Kumar Rao	Infinite Computer Solution Ltd, Bangalore.	1 <sup>st</sup> October 2011	40



### 33. Teaching methods adopted to improve student learning

- Interactive teaching using PowerPoint presentations.
- Lab Instruction sessions for the practical experience with respect to Lab oriented subjects.
- Lab Refinement Committee (LRC) has been formed with the aim of monitoring the quality of lab conduction.
- ‘Programming Lab’ has been introduced in order to improve the technical competency and logical thinking for further placement process.
- Expert lectures and workshops are organized by the respective faculty to bridge the gap between the curriculum and industry requirements.
- Individual faculty web pages are created where each faculty circulates lecture notes, scheme of evaluation for the internal tests, tutorial problems, assignments, and other relevant materials to the students.
- Intensive coaching Programme (ICP) classes are being conducted for the weaker students who are identified through their Internal Assessment test performance.
- Remedial Classes have been conducted for the failed students in the following semester to help them pass the subjects.

### 34. Participation in institutional social responsibility (ISR) and Extension activities:

1. Blood Donation Camp conducted in every year.
2. Cancer awareness camp was organized by the department in the college. The camp was conducted by Indian Cancer Society (Doctors) and Sanman Society (Sridhar Pillalamarri) On Thu, 19th March 2015.
3. Clean India initiative: Students of ISE department have actively participated in the “SWACHH BHARAT” initiative that took place country-wide.
4. Free Eye Check-Up: In collaboration with SANKARA EYE HOSPITAL, college offers free eye check up to the students as well as localites

### 35. SWOC analysis of the department and Future

#### plans:

#### Strengths

- Dual placement and dream job facilities for the best students.
- Efficient Teaching learning process.

- Continuous evaluation of faculty and students.
- Industry experienced faculty.

### Weaknesses

- Need to strengthen and increase research oriented initiatives.

### Opportunities

- To get funded projects and research innovations from various organizations
- To have consultancy and other industry involvement.

### Challenges

- Tuning syllabus/faculty competency with fast changing technologies.
- To improve consultancy related work in department.

### Future Plans

- To start M.Tech Programme.
- To host National and International Conferences in the area of Computer Science and Information Science
- To have more industry collaborated projects.
- Conduct more life skill programs.
- Arrange more industry visits.
- Encourage students to involve in short term projects.
- Regularly conduct technical competition once in a month.
- Implementing the strategy of pairing quick learners with slow ones in all the classes to improve the teaching learning process.

## ANNEXURE-I

A. Details of academic support staff (technical) and administrative staff; sanctioned and filled

For the Academic year 2016-2017

Sl. No.	Name	Designation	Experience
1	Mr. Bassappa	Administrative Staff	5 Years
2	Ms. Akhilaa	Teaching Assistant	1.5 Years

3	Ms. Divya B Nair	System Analyst	5 Years
4	Mr. Ramasankar Dubba	Lab Instructor	10 Years
5	Mr. Charan kumar Tej	Lab Instructor	5 Years
6	Mr. Madhusudan N	Lab Instructor	4.5 Years
7	Mr. Vasanta Kumar M	Lab Instructor	1 Year
8	Mr. Jagadish B.L	Foreman	8 Years

### B. FACULTY PUBLICATION DETAILS

2016-2017				
Sl no	Name of the Faculty	Title	Name of the Journal\Conference	Publication Details
1	Mr. Anand R	Improving Quality of the Services in MANAT Using the hierarchical Fair Service Curve and Fish Eye State Routing Protocol	International Journal of Engineering and Computer Science	Vol 5 Dec 2016
2	Ms. Geetha S	A Pioneering Approach for for Boundary Relay Void Sensor Replacement using Dynamic Sensor Mobile Node	International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT)	Dec 2016
3	Ms. Madhu G	A Pioneering Approach for for Boundary Relay Void Sensor Replacement using Dynamic Sensor Mobile Node	International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT)	Dec 2016
2015-2016				
Sl no	Name of the Faculty	Title	Name of the Journal\Conference	Publication Details
1	Manoj Challa	Enhancement to Distortion-Resistant Routing Framework for Video Traffic in Wireless Multihop Networks	International Journal of Computer Science and Information Technologies	Vol. 7(3) – 2016
		Implementation of Board Games Using Monte Carlo Simulation	International Journal of Innovative Research in Computer and Communication Engineering	Vol.4, Issue 4, April 2016
		Detection of packet dropping attacks in	International Conference on Advanced Computing Techniques	ICTACT-2016

		MANET using public auditing		
		Cost Efficient Algorithm for Limiting the number of Relays in Delay Tolerant Networks	International Conference on Advanced Computing Techniques	ICACT-2016
2	Geetha.s	A Comprehensive study on voids: how to tackle void sensor towards energy	National Conference on Challenges and Opportunities in Computer Engineering.	NCCOCE ,March 5th 2016
		An Enhanced Security Levels at the Boundary of Wireless Sensor Network by Addressing the Voids	National Conference on Information, Communication and cyber security	Kalasilingam University 4 <sup>th</sup> and 5 <sup>th</sup> Feb-2016
		A secure user mutual authentication of sensed data & storing it in Cloud	International Journal of Engineering Research	Vol.4., Issue.3., 2016 (May-June)
		Cloud Cover: Monitoring Large Scale Clouds with Sensors	National Conference on Information, Communication and cyber security	Kalasilingam University 4 <sup>th</sup> and 5 <sup>th</sup> Feb-2016
3	Madhu G	An Enhanced Security Levels at the Boundary of Wireless Sensor Network by Addressing the Voids	National Conference on Information, Communication and cyber security	Kalasilingam University 4 <sup>th</sup> and 5 <sup>th</sup> Feb-2016
4	Anisha Kunjan	Load Balancing Model for Performance Enhancement in Public Cloud using Cloud Partitioning	International Journal of combined Research & Development	Vol 2- Issue 5,feb-2016
5	Priyanka R	A Survey On Data Protection Schemes In Multipath WSN	International Journal of Computer Sciences and Engineering	Vol.4,special Issue 03,May 2016
		A Survey On Data Protection Schemes In Multipath WSN		27-28th April 2016
		Comparison Between Android And iOS OperatingSystem In Terms Of Security	International Journal of Computer Informatics & Technological Engineering	Volume (2) Issue (11) November 2015
6	Shilpa Pande	Secure Cloud Computing Features, Issues and Challenges	National Conference on Information, Communication and cyber security	Kalasilingam University 4 <sup>th</sup> and 5 <sup>th</sup> Feb-2016

7	D Sudha	Reactive Monitoring adaptation for dynamic flow on variable infrastructure	4 <sup>th</sup> National Conference on Recent Advances in Science and Technology	6 <sup>th</sup> May 2016 (SVCE Bangalore)
8	Divya Singh	Secure Cloud Computing Features, Issues and Challenges	National Conference on Information, Communication and cyber security	Kalasilingam University 4 <sup>th</sup> and 5 <sup>th</sup> Feb-2016
		A Comprehensive Study on Voids: How to Tackle Void Sensor towards Energy Saving	National Conference on Challenges and Opportunities in Computer Engineering.	NCCOCE ,March 5th 2016
9	Dr. Deepa Anand	A referral-functional trust perspective for enhanced recommendations	International Journal of Computational Systems Engineering, and science. vol. 2, pp.1-10	vol. 2, pp.1-10
		Investigations into the Goodness of Posts in Q&A Forums—Popularity Versus Quality, Information Systems	Design and Intelligent Applications Advances in Intelligent Systems and Computing Volume 340, pp 639-647.	Volume 340, pp 639-647.
10	Dr. Jhansi Rani	Pseudo Random Bit Generator Using Logistic and Bernoulli Maps	International conference on Information and Communication Technology for Competitive Strategies	ISBN:978-1-4503-3962-9
		Bernoulli Keyed hash function for authenticating the data over Virtual Private Network	Second International Conference on Information and Communication Technology for Competitive Strategies	ISBN: 978-1-4503-3962-9
		Bernoulli Keyed hash function for authenticating the data over Virtual Private Network	Proceedings of IEEE International Conference	2016
		Keyed Hash Function using Bernoulli shift map	IJICS	2016
11	Dr. Prem Kumar Ramesh	Utilization Aware Power Management in Reliable and Aggressive Chip Multi Processors"	IEEE Transactions on Computers	vol. 65, no. 3, pp. 979-991, March 1 2016.
		Managing Contamination Delay to Improve Timing Speculating Architectures	PeerJ	PeerJ PrePrints 3:e1759, 2015.
<b>2014-2015</b>				
1	Mr Manoj Challa	Predicting and Extending of Sensor Lifetime in WSN using Fuzzy Logic	International Journal of Science & Research	Volume 4 Issue 6,Jun-15

		Delay Optimization in Wireless Networks Using Packet Deviation Method	International Journal of Science & Research	Volume 4 Issue 6,Jun-15
		Risk Mitigation by Overcoming Time Latency during Maternity-An IoT Based Approach	International Journal of Engineering Research	Volume No.4, Issue Special 5,May-15
		Defense against password guessing attacks using QR codes	International Journal of Engineering Science and computing	DOI 10.4010/2014.277 ISSN-2321 3361,Nov-14
2	Geetha.S	Optimization of energy in WSN	National Conference	NCRTS-2015 May 14th& 15th
		Dynamic election of cluster head sensor and proactive mechanism of eliminating sensor	Advance Computing Conference (IACC), 2015 IEEE International	June 12th& 13th ,2015
3	Anand R	Large-Scale Cost-Effective Secured Content Distribution in the Cities Using Vehicular Networks	International Journal of Science & Research	ISSN (Online): 2319-7064, Volume 4 Issue 5, May 2015,pg.2571-2577.
4	Madhu .G	Dynamic election of cluster head sensor and proactive mechanism of eliminating sensor	Advance Computing Conference (IACC), 2015 IEEE International	1 June 12th& 13th,2015
5	Mrs. S.Kanthimathi	Improving the efficiency of Multihop Networks	International Journal of Engineering Associates	Volume 3 Issue 10 (October 2014)
6	Mrs.Febin A. Vahab	Predicting Post Importance in Question Answer Forums based on Topic-wise User Expertise	Springer International Publishing0	2015
7	Mrs.Tejaswini N	Improving the efficiency of each B.PAC influencers on AfB	International Journal of Engineering Associates	Volume 3 Issue 10 (October 2014)
8	Ms.Anisha K S	Account and files security for multi-owners in cloud environment	International Journal of Combined Research & Development	Vol. 3, Issue-6, Dec 2014
		Video Tracking System	International Journal of Engineering Research and General Sciences	Vol. 3, Issue-1, jan-2015
9	Priyanka.R	Managing Mobility in Wireless Sensor Networks	International Journal of Engineering Associates	Vol.4,Issue 01,Jan 2015

		Formal Classification of Internet banking attacks and vulnerabilities	International Journal of Combined Research & Development	Vol. 3, Issue-5, Nov 2014
10	Prajwala T R	A Comparative study on Decision Tree And Random Forest using R2	International Journal of advanced Research in Computer and communication Engineering	Vol. 4, Issue-1, 2015
		Conceptualization of classification algorithms using Rattle tool	International Conference on Emerging Research in Computing, information, communication and applications	Volume 1 Page 506-512. 2014
11	Deepa Anand	User Profiling Based on Keyword Clusters for Improved Recommendations	Tenth International Conference on Distributed Computing and Internet Technology	2014
		Evaluating Folksonomy Information Sources for Genre Prediction	4th IEEE International Advance Computing Conference, New Delhi	2014
		Folksonomy-Based Fuzzy User Profiling for Improved Recommendations	Expert Systems With Applications, Elsevier, Vol. 41(5), pp. 2424-2436	2014
		Exploring Graph Based Global Similarity Estimates for Quality Recommendations	Inderscience, Vol.9, No.3, pp.188 - 197	2014
		Predicting Post Importance in Question Answer Forums based on Topic-wise User Expertise	Springer International Publishing	Springer, 2015
12	Shankuntala Sajjanar	An Ameliorated Methodology to implement UML Syllogism in suigeneris software testing	National Conference on Artificial Intelligence and Software Engineering	May 2015
		An Ameliorated Methodology for the determination of shortest path in single source multi destination graph	International Conference on Information Science and Technology for sustainability and Innovation	May 2015
<b>2013-2014</b>				
1	Manoj Challa	Radio Resource Management for multimedia heterogeneous wireless networks	International Journal of Innovative Research in Science Engineering and Technology	Volume 2, Issue 8, Aug-13
		Policy enforcing and revoking Mechanism on Trusted Ad Hoc Networks	International Journal of Computer Science and Mobile Computing	Vol 2, Issue 8, Aug-13



		Buffer Management for Efficient Data Dissemination in Vehicular Network	International Journal of Scientific and Engineering Research	Volume 4, Issue 8, Aug-13
		Design and implementation of dynamic load balancer on open flow enabled SDN'S	IOSR Journal of Engineering	ISSN: 2250 3021, ISSN: 22788719 Vol. 3,Aug-13
		A Robust Method for Reducing A Routing Overhead Using High Signal Strength in MANETS	International Journal of Computer Science and Engineering Technology	Volume 3, Issue 8, Aug-13
		Secure Neighbor Discovery in Wireless Networks by Detecting Various Attacks	International Journal of Computer Science and Mobile Applications	Vo1-1,issue-1,July 2013
2	Geetha.S	A Survey of the Applications Related with Cluster analysis	International Journal of Computer Information Systems	Vol. 8, No.1, 2014
		Impact of cluster analysis correlated with the applications on Wireless sensor network	National Conference on Convergence of Technologies for Education and Research	22-Mar-14
3	Mrs. S.Kanthimathi	Optimum Relay selection for energy efficient cooperative adhoc Networks	International Journal of Engineering Associates	Vol. 3, Issue-10, 2014
		A Survey of the Applications Related with Cluster analysis	International Journal of Computer Information Systems	Vol. 8, No.1, 2014
4	Priyanka.R	Futuristic Load Balancing in Cloud Computing	National Conference on Convergence of Technologies for Education and Research	22nd March 2014
		A Multipath Approach for secure data Collection in Wireless Sensor Networks	National Conference on Electrical and Electronics Engineering	5th June 2014
5	Anand R	Multicast and Multipath Based on Batch Signature Scheme and Adhoc Networks	International Journal of Soft Computing and Engineering	Vol.3,issue-3,July-2013
6	Aswatha Kumar M	Secure Neighbor Discovery in Wireless Networks by Detecting Various Attacks	International Journal of Computer Science and Mobile Applications	Vo1-1,issue-1,July 2013
<b>2012-13</b>				
1	Manoj Challa	Towards Secure and Dependent Ticket Based Tracing System for	International Journal	Vol 2,Issue 7,July-13



		Obtaining Forgery Attacks in WMN		
		An Integrated Approach for Plagiarism Detection System	International Journal	Vol 3, Issue 7, July-13
		Secure Neighbor Discovery in Wireless Network by Detecting Various Attacks	International Journal	Volume 1, Issue 1, July-13
		Energy efficient and path manipulation scheme for P2P Network using trust management	International Journal	Vol 1, Issue 6, Aug-12
		Speech Processing Algorithm for detection of Parkinson's Disease	International Journal	Vol.2 - Issue 4, April-13
2	Geetha S	Energy Conservation and Enhancement Lifetime of the Inharmonious Wireless Sensor Domains by Using Data Search Algorithm with Cluster Analysis	International Conference on Advanced Computing and Information	Mar 21 – 22, 2013
		Open Platform Wireless Sensor Networks providing energy for Bluetooth enabled agitate objects based on the Data Mining Techniques	National Conference	Mar15, 2013.
		Assessment Of The Wound-Healing Process By Accurate Multi view Classification	International Conference on Advanced Computing and Information	Mar 21 – 22, 2013
		A Survey On Outlier Detection For Routing Problems In Wireless Sensor Domains	International Conference on Advanced Computing and Information	Mar 21 – 22, 2013
		Anomaly Detection Across Multi Domain Networks Based on Privacy Reservation	National Conference on Artificial Intelligence and Information Systems	Nov-12
		A Comparative Study on Energy Efficient Routing Protocols for Mobile Ad-hoc Networks	International Conference	Mar21 –22, 2013

3	Anand R	Distributed Auditing for user data in the Cloud	International Journal of Computer Science and Mobile Computing	IJCSMC, Vol. 2, Issue. 6, June 2013, pg.314 – 321 ISSN 2320-088X
		Energy efficiency and path manipulation for peer to peer network using trust management	International Journal of Engineering Research and Technology	(ISSN0974 –3154) Vol-1, Issue6, pp. 1-10, Aug2012.
		Improving Tor network using tunable path selection	International Journal of Computer trends and Technology	Volume 4 Issue 6– June 2013,ISSN: 2231-2803
4	Mrs. Lalitha Asokan	Assessment Of The Wound-Healing Process By Accurate Multi view Classification	International Conference on Advanced Computing and Information	Mar 21 – 22, 2013
		Assessment of Wound Healing process by accurate single view tissue classification and depth estimation for telemedicine	International Journal of Engineering and Advanced Technology	Vol 2, Issue -5, ,ISSN:2249-8958 June 2013
5	Madhu .G	Security in Adhoc Networks using Agent based and Intrusion Detection System	International Conference	Mar15 –17. 2013.
6	Priyanka R	Secure Data Collection in Wireless Sensor Networks	National Conference	April 6th 2013
7	Mrs.Danthuluri Sudha	Design of Enhanced Routing Protocol for mobile ad-hoc networks using directional antennas	International Conference on Advanced Computing and Information	Mar 21 – 22, 2013
		Secure and Distributed Storage Integrity Services in Cloud Computing	National Conference on Artificial Intelligence and Information Systems	9-Nov-12
8	Ms.Sheetal.R	Design of Enhanced Routing Protocol for mobile ad-hoc networks using directional antennas	International Conference on Advanced Computing and Information	Mar 21 – 22, 2013
		Secure and Distributed Storage Integrity Services in Cloud Computing	National Conference on Artificial Intelligence and Information Systems	9-Nov-12
9	Mrs Shilpa pande	Security Threats in wireless sensor networks and proposed solutions	International Conference	21st ,22nd March- 2013,AMC- Bangalore
		Overview of Wireless Sensor Networks With	National Conference on Artificial Intelligence and Information Systems	Nov-12

		Comprehensive Study on Routing Protocols		
10	Dr Aswatha Kumar M	Identification of brain regions responsible for Alzheimer's disease using a self-adaptive resource allocation Network, Neural Networks	International Journal	Vol. 32, pp. 313-322, Aug. 2012
11	Mrs Jyothi M	A Comparative Study on Energy Efficient Routing Protocols for Mobile Ad-hoc Networks	International Conference	Mar21 –22, 2013
12	Mrs.Sudhamayi. P	Design of Enhanced Routing Protocol for mobile ad-hoc networks using directional antennas	International Conference on Advanced Computing and Information	Mar 21 – 22, 2013
		Secure and Distributed Storage Integrity Services in Cloud Computing	National Conference on Artificial Intelligence and Information Systems	9-Nov-12
13	Mrs. Soubhagya lakshmi	A Survey On Outlier Detection For Routing Problems In Wireless Sensor Domains	International Conference on Advanced Computing and Information	Mar 21 – 22, 2013
14	Mr.R Ganesh Kumar	Secure and Dependable Cloud Services for TPA in Cloud Computing	International Journal of Innovative Technology and Exploring Engineering	Aug 2012
		A Survey On Outlier Detection For Routing Problems In Wireless Sensor Domains	International Conference on Advanced Computing and Information	Mar 21 – 22, 2013
		Energy Conservation and Enhancement Lifetime of the Inharmonious Wireless Sensor Domains by Using Data Search Algorithm with Cluster Analysis	International Conference on Advanced Computing and Information.	Mar 21 – 22, 2013
<b>2011-12</b>				
1	Manoj Challa	Rate optimization Scheme for nodal level congestion in WSN	National conference	11-Nov
		Multilayer Fuzzy Interface Design for Cluster Head Selection in Single Sink Wireless Ad hoc sensor	International Journal	Vol 2 No 5,May-12
2	Geetha	Decision making based on reputation information within computer networks	International Conference on Data Engineering and Communication Systems	Dec 30-31 , 2011

		Monitoring online tests through data visualization	National conference on Convergent Innovative Technologies and Management	Dec 2-3,2011
3	Anand R	Cylindrical-Sector Based Location Management In Mobile Ad Hoc Network	International Joint Conference on Emerging Intelligent Sustainable Technologies	May3 –4, 2012.
		Clustering Based Hierarchal Routing Using Fuzzy Logic In Mobile Wireless Sensor Network	International Conference on Engineering Research and Application	Feb 10, 2012.
4	Laitha Asokan	Open source based framework for hybrid model of testing	National conference	Nov 4 2011 Bangalore
5	Mrs. Soma Pandey	Partitioning and Internetworking Wireless Mesh Network with Wired Network for Delivery Maximization and QoS Provisioning	International Conference on Electronics Engineering and Computer Science	May 2012 Mexico
		A Load Sharing & Partitioning Systems for Multihop Wireless Mesh Networks with Multiple Gateways	International Conference	25-28 Sep 2011, Langkawi
6	Mrs Shweta	Open source based framework for hybrid model of testing	National conference	Nov 4 2011 Bangalore
7	Mrs S.G.Suma	Development of Consciousness by using cognitive science paradigms	National conference	Nov 4 2011 Bangalore
8	Mr.R Ganesh Kumar	Investigating Cardiac Arrhythmia in ECG Using Datamining Algorithms	National Conference on Computer Science And Informatic	Apr 2012,Madurai
		Investigating Cardiac Arrhythmia in ECG Using Datamining Algorithms	International Journal of Computer Applications	Jan-12
9	Tulsi Ajwalia	Routing in Adhoc Network Based on QOS by Matrix Multiplication	National conference on Convergent Innovative Technologies and Management	Jul-05
10	Shilpa Pandey	Open source based framework for hybrid model of testing	National conference	Nov 4 2011 Bangalore
11	Dr. B Loganayagi	Improving Cloud Security Through Virtualization	International Conference CCSEIT	Sep 2011
12	Dr. B Loganayagi	Enhancing Cloud Security Through Policy Monitoring Technique	CIIT 2011	Nov 2011

13	Dr. B Loganayagi	Enhanced Cloud Security by combining Virtualization and Policy Monitoring Technique	SciVerse ScienceDirect	Dec 2011
14	Dr. A Srinivasa Rao	A new algorithm for CR protocols in Ad hoc networks	IJESAT	Jan Feb 2011
15	Dr. A Srinivasa Rao	Future Contraption Networks	IJESAT	Nov-Dec 2011
16	Dr. A Srinivasa Rao	Architecture Optimization for 4G Networks	IJESAT	Nov-Dec 2011

### C. PROJECT DETAILS

ACADEMIC SESSION : JAN 2016- MAY 2016						
In House Project Titles						
Gr ou p- No	Sl.No	USN	Name	Project Title	Guides	Co-Guide
1	1	1CR12IS023	ANUSIYA S	To implement Energy aware routing protocol	Ms.Divya	Ms.Poonam
	2	1CR12IS095	S. ASHWINI			
	3	1CR12IS113	SWAPNA P			
	4	1CR10IS107	SRIVIDYA			
2	5	1CR12IS059	MANJARI.C.S	Advanced IT operational Intelligence using Hadoop	Mr.Manoj	Ms.Priya
	6	1CR12IS038	D.PRIYADHARS HINI			
	7	1CR12IS033	BAJITH BOLLAMMA S.S			
	8	1CR12IS031	ASHWINI.B.A			
3	9	1CR12IS085	PRIYANKA NITRAWATTI	Enhancement of degraded documents	Ms.Shilpa Pande	Ms.Sagarika
	10	1CR12IS084	PRIYANKA BHOWMICK			
4	11	1CR12IS100	SHALINI S	Mining Social Media data for understanding student learning experiences	Ms.Geetha	Ms.savitha
	12	1CR12IS087	RADHIKA N			
5	13	1CR12IS016	ANANT MURARKA	Emergency traffic management and notification with ambulance request	Ms. Swathy	Mr. Manjul Gupta
6	14	1CR12IS025	ARCHANA R			Dr.Jhansi rani

	15	1CR12IS010	AISHWARYA.P. RAO	Detection of Optical disk and macula in retinal fundus image in an eye.	Mr.Saketh Soni	
	16	1CR12IS064	MONISHA.B			
7	17	1CR12IS124	MONISHA RAMESH	Intellegient Prediction of the Likelihood of the occurance of cancer based on AI Technique	Ms. Priyanka	Ms. Maya krishnan
	18	1CR12CS083	SAI MANASHA			
	19	1CR12CS069	Priyanka Prakash			
	20	1CR12C127	Edna Jhonson			
8	21	1CR12IS013	AMITKUMAR NR	Online Crime Mapping	Mr.Samrat	Mr.Rajeev Bakshi
	22	1CR12IS021	ANUSHA BHAT			
	23	1CR12IS036	BHASKAR SINHA			
	24	1CR12IS040	DEEKSHITH H U			
9	25	1CR12IS009	ADITYA AISHWARY	Real Time Sentiment Analysis of Twitter	Ms.Febin	Ms.Swathi Y
	26	1CR12IS011	AKANKSHA PRAKASH			
10	27	1CR12IS029	ASHITHA E V	Virtual machine migration with compression for ARM64	Mr.Anand R	Ms.Alekya
	28	1CR12IS041	DEEPIKA.G			
	29	1CR12IS065	MOUNISHA.M			
11	30	1CR12IS071	NIKITHA R	Telecommand and telemetric simulator	Ms.Priyanka	Ms.Poornima
	31	1CR12IS075	P POOJA			
	32	1CR12IS103	SHIVA RANJANI R			
12	33	1CR12IS045	MITHUN RAJ	Secure Auditing and deduplication data in cloud	Mr.Lohith Raj	Ms.Reshma
	34	1CR12IS056	MAHESH KUMAR			
	35	1CR12IS051	KARTHIK C M			
	36					
13	37	1CR12IS019	ANKIT KUMAR	Ensuring Multi Level data Privacy and protection in smart cities	Dr.Logana yagi B	Mr.Harikrishna
	38	1CR12IS083	PRATIK KUMAR			
	39	1CR12IS091	RITWIK JAMUAR			
	40	1CR12IS105	SHUSHANK KAUSHIK			
14	41	1CR12IS094	S MANEESH PREETHAM	Opinion Mining for Social Networking Sites	Mr.Lohith Raj	Dr.Jhansi rani
	42	1CR12IS098	SANJEEV KUMAR.V			
	43	1CR12IS119	VIKAS.A			
	44	1CR12IS125	KANNAN R			
15	45	1CR12IS020	ANURADHA	Near Field Communication Based College APP	Ms.Madhu	Ms.Swathi Y
	46	1CR12IS026	ASHA.N			
	47	1CR12IS035	BHARGAVI U			
	48	1CR12IS039	DEEKSHA.N.RE DDY			
16	49	1CR12IS014	ANAGHA RAO		Ms.Sudha	Mr. Rajeev bakshi

	50	1CR12IS049	JAYSHREE V	E-commerce product rating based on customer review mining		
	51	1CR12IS062	MEDHA SETH			
17	52	1CR12IS007	ABRAAR K SYED	TAME -Next Gen Web Framework	Mr.Manoj	Mr.Edukondalu
18	53	1CR12IS076	PRIYANKA P	Real time Radar Display for AIR Borne Targets– DRDO	Ms.Madhu	Mr.Kiran Babu
	54	1CR12IS080	PRATEEK NAYAN			
	55	1CR12IS055	LAVANYA G			
	56	1CR12IS052	KASHIFA BANU			
19	57	1CR12IS069	NAVNEET KUMAR	Real time Detection of Traffic from twitter stream Analysis	Ms.Sheetal	Dr.Krishanan
	58	1CR12IS096	SAGAR KUMAR			
	59	1CR12IS111	SUNNY KUMAR			
20	60	1CR12IS048	INDUDEO VERMA	Privacy Policy Inference of User-Uploaded Images on Content Sharing Sites	Ms.Shilpa Pande	Mr.Sudhakar
	61	1CR10IS083	RITESH RANJAN ARYA			
21	62	1CR12IS114	SWATHI.K	Android tool Kit for ophthalmologists	Mr.Saket Soni	Ms.Aishwarya
	63	1CR12IS121	VISHNUVINISH A M			
	64	1CR12IS099	SHAISTA SHAFI			
	65	1CR12IS104	SHREYA.R			
22	66	1CR12IS066	MOYURI DASGUPTA	Adaptive privacy policy predictionsystem for uploaded instances	Ms.Sheetal	Ms.Sahana
	67	1CR12IS022	ANUSHA NAIK			
	68	1CR12IS097	SANDHYA P S			
	69	1CR12IS053	KIRAN GURUNATH NAIK			
23	70	1CR12IS089	RANJITH Y.K	Vehicle tracking in realtime application	Mrs.Sudha	Ms.Maya Krishnan
	71	1CR12IS092	ROHAN.K.N			
	72	1CR12IS093	RUTHWIK HEBBAP.R			
24	73	1CR12IS017	ANIRUDH CHAUHAN	Prediction Based Resorce allocation in Cloud for Media streaming applications	Dr.Logana yagi B	Mr.Shivraj
	74	1CR12IS043	DHAIRYA CHHABRA			
	75	1CR12CS012	ANAMIKA			
25	76	1CR12IS110	SUJEET KUMAR	A Novel approach for detecting malicious activity in WSN using lightweight securing schemes	Ms.Febin	Ms.Madhuri
	77	1CR12IS090	RAVI CHABRIA			
	78	1CR12IS116	UTKARSH KUMAR SINGH			
	79	1CR12IS122	YASHASVI RANJAN			
26	80	1CR13IS401	MANJUNATH	Integrating Lamport's One Time Password Authentication	Ms.Sheetal	Ms.Sahana



				scheme with Elliptic Curve Cryptography		
27	81	1CR12IS101	SHARAT CHANDRA TIWARY	Authenticated Patient Self Controllable privacy Preseving HealthCare System	Dr.Logana yagi B	Ms.Shanthi
	82	1CR12IS074	NITISH NIRALA			
	83	1CR12IS060	MANJITH H D			
	84	1CR12IS037	BIBEK PAUL			
28	85	1CR12IS077	P A VINEET KUMAR	Online system for printer consumables management and Dashboard	Ms.Swathy	Mr.Sudhakar
	86	1CR12IS079	PRASHANT BHANDARI			
	87	1CR12IS072	NILAYAK KUMAR			
29	88	1CR12IS107	SHWETHA.R	Energy Efficient Fault -tolerant data storage & Processing in Mobile Cloud	Ms.Geetha	Ms.Sherly N
	89	1CR13IS400	GEETHASHREE R			
	90	1CR13IS403	SHRUTHI P			
	91	1CR12IS400	ABHINAYA REKHA.V			
30	92	1CR12IS012	AKHILA MOL. A	Bluethooth Controlled door lock using arduino via android	Ms.Sudha	Ms.Maya Krishnan
	93	1CR12IS046	GAUTHAM DM			
31	94	1CR12IS067	SRIVATSA N	Budget Driven scheduling Algorithms for batches of Map reduced Jobs in Heterogeneous Cloud	Ms.Anisha	Mr.Gourish
	95	1CR12IS068	NARENDRA MAHADEV			
	96	1CR12IS086	RACHITH KUMAR HEGDE			
	97	1CR12IS088	RAHUL RANJAN DAS			
32	98	1CR12IS024	ARCHANA KUMARI	Proof of retrievability of data in cloud computing	Mrs. Geetha	Ms.Poornima
	99	1CR12IS118	VIBHASH SHIVECHCHHU			
33	100	1CR12IS002	AATMESH GAURAV	User Defined Privacy Grid System for Continuous Location based services	Mr.Anand R	Mr.Kiran Babu
	101	1CR12IS028	ASHISH RANJAN			
	102	1CR12IS047	HIMANSHU KANODIA			
	103	1CR12IS070	NIKHIL SHRIVASTAVA			
34	104	1CR10IS085	RUDRA PRATAP PATRA	Provable Multicopy Dynamic data Procession in cloud computing	Ms.Shilpa Pande	Mr.Manjul Krishna Gupta
	105	1CR11IS070	PRATEEK JOSE			
	106	1CR11IS081	S CHIRAG			
	107	1CR12IS001	ASHOSH KUMAR			
25	108	1CR12IS058	MANAV JETHANI	Privacy perserving cihertext	Ms.Febin	Dr.Krishanan



	109	1CR12IS061	MAYANK PRAKASH	multitasking control for big data and storage		
	110	1CR12IS081	PRATHAM KESHRI			
	111	1CR12IS120	VISHAL PATIL			
36	112	1CR12IS015	ANAND SARAL	Development of an interactive video game using UNITY 3D engine	Mr.Anand R	Mr.Shivraj
	113	1CR12IS032	ATTILI RAM ANIRUDHA			
	114	1CR12IS102	SHARATH GEORGE M			
37	115	1CR12IS063	MONIJA .R	Towards Effective Bug Triage with software Data reduction technique	Ms.Divya	Ms.Sagarika
	116	1CR12IS044	DIKSHA SRIVASTAVA			
	117	1CR12IS050	JYOTHI KIRAN			
38	118	1CR12CS049	KUNDAN PRASAD GUPTA	ALTERDROID: Differential Fault Analysis of Obfuscated Smartphone Malware	Mr.Harikrishna	Priyanka
	119	1CR12CS010	AKASH			
	120	1CR12IS082	PRATIK BINANI			
	121	1CR12CS019	BALAR MANTHAN BHARATH BAI			
39	122	1CR12IS108	SINI SAM	A Cost Efficient Multi Cloud Data Hosting Schema with High Availability	Ms.Anisha	Mr.Kartheek
	123	1CR12IS109	SONITA BOSE			
	124	1CR12IS117	VIBHASH RANJAN			
	125	1CR12IS008	ACHANTA GEETHA			
40	126	1CR12IS106	SHWETHA SHREEN	COCOWA: Collaborative Contact based watchdog for detecting Selfish Nodes	Ms.Priyanka	Ms.Shanthi
	127	1CR12IS112	SUPRIYA.S			
	128	1CR12IS126	SUSHMA V			
41	129	1CR11IS002	ABHIMANYU RAJ	Online Voting System	Mr.Samrat	Ms.Snehal
	130	1CR11IS035	GYAN PRAKASH			
	131	1CR11IS068	PRANAV KEDIA			

ACADEMIC SESSION : JAN 2016- MAY 2016						
Industrial Project Titles						
Group No	Sl.No	USN No	Student's Name	Project Title	GUIDE	CO-GUIDE
1	1	1CR12IS076	PRIYANKA P	Real time Radar Display for AIR Borne Targets– DRDO	Ms.Madhu	Mr.Kiran Babu
	2	1CR12IS080	PRATEEK NAYAN			
	3	1CR12IS055	LAVANYA G			
	4	1CR12IS052	KASHIFA BANU			
2	5	1CR12IS071	NIKITHA R	Telecommand and telemetric simulator	Ms.Priyanka	Ms.Poornima
	6	1CR12IS075	P POOJA			
	7	1CR12IS103	SHIVA RANJANI R			

3	8	1CR12IS077	PANYRUDI ADUTYA VINEET KUMAR	Online system for printer consumables management and Dashboard	Ms.Swathy	Mr.Sudhakar
	9	1CR12IS079	PRASHANT BHANDARI			
	10	1CR12IS072	NILAYAK KUMAR			
4	11	1CR12IS059	MANJARI.C.S	Advanced IT operational Intelligence using Hadoop	Mr.Manoj	Ms.Priya
	12	1CR12IS038	D.PRIYADHARSHINI			
	13	1CR12IS033	BAJITH BOLLAMMA S.S			
	14	1CR12IS031	ASHWINI.B.A			
5	15	1CR12IS029	ASHITHA E V	Virtual machine migration with compression for ARM64	Mr.Anand R	Ms.Alekya
	16	1CR12IS041	DEEPIKA.G			
	17	1CR12IS065	MOUNISHA.M			

ACADEMIC SESSION : JAN 2015- MAY 2015					
In House Project Titles					
Sl. No	USN No	Student's Name	Project Title	ISE-GUIDE	CSE-GUIDE
1	1CR11IS001	Akansha Saxena	A hybrid cloud approach for Secure Authorized deduplication	Dr. Srinivasa Rao	Mr. Kiran Babu.T.S
	1CR11IS012	Anchal Priya			
	1CR11IS049	Lakshmi N			
2	1CR11IS053	Mahesh A.V	MONA:Secure Multi- Owner Data Sharing for Dynamic Groups in the Cloud	Mrs. Tulsi	Mrs. Shanthi.M.B
	1CR11IS003	Abhinandan Dwivedi			
	1CR11IS010	Amardeep			
	1CR11IS013	Aniket			
3	1CR11IS004	Abhineel Rai	Android Application on Student Information System	Ms. FEBIN V	Mr. Manjul
	1CR11IS016	Apurva Bansal			
	1CR11IS033	Gowthmi G R			
4	1CR11IS011	Amruth HV	Content based Image Retrieval in Peer-to-peer Network	Ms. SUDHA D	Mrs. I.Mani Mozhi
	1CR11IS007	Ajay Kumar N			
	1CR12IS403	Arun M Bhat			
	1CR12IS401	Adarsh Harish Shetty			
5	1CR11IS029	Ganesh Agarwal	Java Applet on BlowFish Algorithm for Encryption and Decryption	Mr. ANAND R	Mr. Mahesh.D.S
	1CR11IS017	Arihant Chhajer			
	1CR11IS069	Prateek Jain			
	1CR11IS038	Harsh Agarwal			
6	1CR11IS015	Anjali Priya	Experience Gifting with Social Networking Site	Ms. SHEETHAL	Mr. Sudhakar.K.N
	1CR11IS026	Daljeet Kumar			
	1CR11IS093	Sidharth Kumar			
	1CR11IS078	Rishav Gupta			
7	1CR11IS018	Ashish Raj	Trinity: On Using Trinary trees for Unsupervised Web Data Extraction	Dr. Srinivasa Rao	Mrs . Sahana.V
	1CR11IS080	Roshan Rohit P			
	1CR11IS076	Ranjith K B			
	1CR11IS092	Shweta Priya			
8	1CR11IS028	Diksha Gupta	CLUB- Clustring based collaoration and		Ms. Savitha.N
	1CR11IS054	Maithri Shetty			

	1CR11IS072	Puja	filtering for Big data applications	Ms. LALITHA ASOKAN	
	1CR11IS090	Shramana Sinha Roy			
9	1CR11IS030	Ganga Ganpathy	Captcha as Graphical Passwords a New Security Primitive Based on Hard AI Problems	Mr. Samrat	Mrs. Aishwarya Lakshmi
	1CR11IS039	Harshitha KV			
10	1CR11IS031	Girisha L	Cloud based Log File Management	Ms. SHEETHAL	Mr. Manoj Challa
	1CR11IS040	Jeevan C			
	1CR11IS037	Harish R			
	1CR11IS034	Guruprasad B K			
11	1CR11IS032	Gokuldeep K K	3D Pose Estimation and Reconstruction	Mr.Saket	Ms. Shruthi.K
	1CR11IS064	Pooja Hegde			
	1CR11IS065	Pooja N			
	1CR11IS066	Pradyutha T			
12	1CR11IS075	Ram Mohan Nambair	CAM- Cloud-assisted privacy preserving mobile health monitoring	Mr. Lohith Raj	Ms. Richa Mehta
	1CR11IS107	Utsav Jamwal			
	1CR10IS039	Jetty Satya Aditya			
	1CR12IS404	Chandrashree Jain S.S			
13	1CR11IS042	Jyoti Prakash Sahoo	Fast nearest neighbor search using keywords	Ms.Prajwala	Mrs. Sagarika Behera
	1CR11IS058	Mihika Mishra			
	1CR11IS061	Neha Singh			
	1CR11IS060	Navneet Kumar			
14	1CR11IS050	Lekhashree N	Conference Hall Management System	Ms. LALITHA ASOKAN	Ms.Priya
	1CR11IS063	Pavithra T			
15	1CR11IS023	Chaithanya S	Mobile sink based energy hole avoidance in WSN	Ms.GEETHA	Mr. Shivraj.V.B
	1CR11IS067	Prajuktha Nayak			
	1CR11IS071	Priyanka Y V			
16	1CR11IS057	Md. Shahid Sharieff	HALO- Hop by Hop adaptive link state routing protocol	Ms. SUDHAMA YI PULI	Mrs. Alekhya.P
	1CR11IS097	Sunaina R			
	1CR11IS089	Shivang Kapoor			
17	1CR11IS024	Chaitra BV	Reliability based design optimization for cloud migration	Ms. MADHU G	Ms. Sherly Noel
	1CR11IS082	S Ashwini			
	1CR11IS086	Shaik Zubeer			
	1CR11IS087	Shashank G			
18	1CR11IS109	Vemuru Sai Raj	Prediction acknowledgement based bandwidth and cost reduction system	Mr. Lohith Raj	Ms. Savitha.N
	1CR12IS402	Amaresha.R			
	1CR12IS415	Pavan.K.R			
	1CR12IS420	Thoheed Ahmed.A.H			
19	1CR11IS021	Ayyappa K M	Web Based Image Processing Toolkit for ophthalmologists	Mr. Saket	Mrs. Aparna
	1CR11IS041	Joel Oommen George			
	1CR11IS055	Malavika S Vidarthi			
	1CR11IS073	Pushkar DK			
20	1CR11IS025	Chetan Pande	Behavioral malware detection in delay tolerant networks	Ms. Priyanka R	Mrs. Aparna
	1CR11IS074	Rahul Kumar			
	1CR11IS062	Om Narayan Singh			

	1CR11IS014	Anindya Kumar Srivastava			
21	1CR11IS009	Akshay Kumar	Video Dissemination over Hybrid Cellular and Adhoc Networks	Ms. Moumita	Mrs. Snehal.K
	1CR11IS020	Ayush Vishal			
	1CR11IS096	Sumit Oberoi			
22	1CR11IS408	G Ramaraju	A system for denial of service attack detection using multiveriant correlation analysis	Dr. Srivasa Rao	Mrs. Sujatha.S.G
	1CR11IS412	Sudarshan			
	1CR10IS019	Bhagya			
	1CR11IS410	Rachayaswamy			
23	1CR11IS019	Ashwini S	Service Identification in Interorganizational Process Design	Ms. Swathy L	Ms. Shanthi
	1CR11IS101	Tejaswini R			
24	1CR11IS036	Harish	Deployment of iSCSI-SAN in Virtualized DataCenter Environment	Ms. Kanthimathi	Mrs. Keerthana
	1CR11IS046	Krishna B S			
	1CR11IS008	Akash K T			
	1CR11IS059	Mukesh Kumar			
25	1CR11IS100	Shweta M	Dominant Set based Search for a Document in an Unstructured Overlay Network	Mrs. Divya Singh	Mr. Kiran Babu.T.S
	1CR11IS103	Umadevi M			
	1CR11IS088	Shashi Shekhar			
	1CR11IS052	Madhusa G			
26	1CR11IS022	Babyrani N	Private Searching on streaming data based on keyword frequency	Ms. Tejaswini	Mrs. Sagarika Behera
	1CR11IS043	K Harshitha			
	1CR11IS051	Madhumathi R			
	1CR11IS077	Rimjhim Singh			
27	1CR11IS104	Upasana D	Optimization of Energy in Wireless Sensor Networks	Ms.GEETH A	Mr. Kiran Babu.T.S
	1CR11IS047	Kumari Pooja Rai			
	1CR11IS048	L Manasa			
	1CR11IS079	Roshan Jayaram			
28	1CR12IS417	Rashmi.S	Defending against Flood Attacks in Disruption Tolerant Networks	Ms. Priyanka R	Mr. Sudhakar.K.N
	1CR12IS408	Mamata Jolad			
	1CR11IS110	Venkatesh Rathod			
	1CR11IS406	Mohammad Rizwan			
29	1CR12IS405	Jeevitha.J	Decentralized Access Control with Anonymous Authentication of Data Stored in cloud	Mrs. Shilpa Pande	Mrs. Shivraj.V.B
	1CR12IS422	Veda.C			
	1CR12IS419	Shwetha P Bannimatti			
	1CR11IS114	Vrunda N V			
30	1CR11IS094	Soumya PR	Verifiable attribute Based Keyword Search Over Outsourced Encrypted Data	Mrs. Megha sharma	Mrs. Swathi.Y
	1CR11IS095	Sruthi S			
	1CR11IS099	Sushmita P			
	1CR10IS049	Mamatha B S			
31	1CR11IS108	Veeresh Gedageri	Reliability analysis of testbooks by Natural Language Processing	Mr. Nikhil Joshi	Mrs. Aishwarya Lakshmi
	1CR11IS084	Sandeep Devadiga			
	1CR11IS091	Shreyas S			
	1CR11IS111	Venkatesh Shravan			
32	1CR11IS098	Suraj Panduranga Jannu	Expressive, Efficient and Revocable Data Access control for multi-authority cloud Storage	Mr. ANAND R	Mrs.I.Mani Mozhi
	1CR11IS113	Vivek Kalekere			
	1CR12IS406	Kalyankumar.D			

	1CR12IS411	Nagalakshmi.V.P			
33	1CR11IS105	Utkarsh Acharya	Dealing with concept drift in process mining	Mrs. Jayanthi	Ms. Savitha.N
	1CR11IS106	Utkarsh Vardhan Saxena			
	1CR11IS112	Vikash Kumar			
	1CR11IS116	Ayush Gupta			
34	1CR12IS416	Rakesh.R	Security analysis of Single sign-on mechanism for distributed computer networks	Ms. Anisha	Mrs.Sahana.V
	1CR12IS410	Murali.S			
	1CR12IS414	Nisar Ahmed			
	1CR12IS418	Rohit Kumar G			
35	1CR11IS403	Mahesh D P	Privacy presercving Public Auditing Tool For secure Cloud Storage	Ms. Febin V	Ms. Poonam
	1CR10IS086	Sachin Kumar			
	1CR11IS410	Salena Banu			
	1CR12IS412	Nandeeshha.E			

ACADEMIC SESSION : JAN 2015- MAY 2015					
Industrial Project Titles					
Sl.No	USN No	Student's Name	Project Title	GUIDE	CO-GUIDE
1	1CR11IS036	Harish	Deployment of iSCSI-SAN in Virtualized DataCenter Environment	Ms. Kanthimathi	Mrs. Keerthana
	1CR11IS046	Krishna B S			
	1CR11IS008	Akash K T			
	1CR11IS059	Mukesh Kumar			
2	1CR11IS021	Ayyappa K M	Web Based Image Processing Toolkit for ophthalmologists	Mr. Saket	Mrs. Aparna
	1CR11IS041	Joel Oommen George			
	1CR11IS055	Malavika S Vidyarathi			
	1CR11IS073	Pushkar DK			
3	1CR11IS029	Ganesh Agarwal	Java Applet on BlowFish Algorithm for Encryption and Decryption	Mr. ANAND R	Mr. Mahesh.D.S
	1CR11IS017	Arihant Chhajer			
	1CR11IS069	Prateek Jain			
	1CR11IS038	Harsh Agarwal			
4	1CR11IS004	Abhineel Rai	Android Application on Student Information System	Ms. FEBIN V	Mr. Manjul
	1CR11IS016	Apurva Bansal			
	1CR11IS033	Gowthmi G R			

ACADEMIC SESSION : JAN 2014- MAY 2014				
In house Project Titles				
Sl.No	USN No	Student's Name	Project Title	Guide's Name/ CoGuide's Name
1	1CR10IS072	PRADEEP D	Bootstrapping visual categorization with relevant negatives	Ms.Swati/ Ms.Manimozhi
	1CR11IS405	MANU M		
	1CR10IS079	RAGHAVENDRA S		
	1CR11IS409	RAVI R		

2	1CR10IS058	MRITYUNJAYA H NAIK	user oriented FEC decoding scheme for wireless sensor networks with star topologies	Ms.Shanti/ Ms.Vineetha
	1CR10IS029	DILEEP KUMAR G		
	1CR10IS008	AKSHAY I		
	1CR10IS054	MOHAMMED SALMAN S		
3	1CR10IS031	DIPSHIKHA MUKHERJEE	Detecting and resolving firewall policy anomalies	Ms.Vindya/ Ms.Shweta
	1CR10IS064	NIDHI		
	1CR10IS043	KRAPI GUPTA		
	1CR10IS044	KUMAR NITIN		
4	1CR10IS033	DIVYA B	Optimum relay selection for energy efficient cooperative adhoc networks	Mrs.Kanthimathi/ Mr.Kiran
	1CR10IS034	DIVYA J		
	1CR10IS020	BHAGYASHREE P		
	1CR10IS040	K PRATHIMA		
5	1CR10IS006	AISHWARYA C	Map Blogs using canvas and parallel computing techniques with server and client communication real time operations	Ms.Sheetal/ Ms.Sahana
	1CR10IS036	HARSHITHA S		
	1CR10IS050	MAMATHA GN		
	1CR10IS070	PAVITHRA C		
6	1CR10IS063	NEHA JAIN S	data collection and automation at milk co operative societies	Dr.H.N.Shankar/ Ms.Jaya
	1CR10IS076	PRIYANKA G KALMANE		
7	1CR10IS062	NEERJA RAM TAREY	Improving patient privacy by exploiting ABE	Ms.Pragnya/ Ms.Keerthana
	1CR10IS056	MONIDEEPA BASU		
	1CR10IS001	A ASHOK DAS		
	1CR10IS013	ARJUN M		
8	1CR10IS098	SHIKHA NIDHI	Authentication accuracy on multiple biometric images	Ms.Shanti/ Ms.Ashwini
	1CR10IS106	SREELAXMI HEGDE		
	1CR10IS081	RAJU G		
	1CR10IS119	DEEPSHIKHA		
9	1CR10IS010	ANKESH KUMAR	minimum cost blocking problem in multipath wireless routing protocol	Mr.Anand/ Ms.Shanthi
	1CR10IS011	ANKIT SHARAN		
	1CR10IS016	ATUL CHAUHAN		
	1CR10IS027	DHRUV AGRAWAL		
10	1CR10IS014	ARPITA SHEKHAR	Sort:Self organising trust model for peer-peer systems	Ms.Priyanka/ Ms.Bhavani
	1CR10IS018	BAISAKHI MITRA		
	1CR10IS032	DIVYA		
	1CR10IS057	MONISHA C		
11	1CR10IS066	NIKITA PREMANAND GAONKAR	Improving QoS using cloud for social interactions	Ms.Sudha/ Ms.Savitha
	1CR10IS069	PALLAVI SHIVARAJ PATIL		
12	1CR10IS087	SANDHYA M	PMDA software product to designed to support development team of EW	Ms.Sudha/ Ms.Sahana
	1CR10IS090	SANYA SHARMA		
	1CR10IS077	PRIYANKA G M		



13	1CR11IS401	BHARGAV MEGHANTHA LOKRE	Delivering real time services using cloud through virtualization	Ms.Jaya/ Mr.Manoj
	1CR11IS413	SUJITH KUMAR B		
	1CR09IS070	RAGHU G		
	1CR11IS411	SHREYAS PACHAGIRI		
14	1CR10IS071	PAVITHRA N	Resource depletion attacks in wireless adhoc sensor networks	Mr.Anand/ Mr.Sudhakar
	1CR10IS073	PRANITHA JNANENDRA BHAT		
	1CR10IS093	SHAMA SINGH		
	1CR10IS110	SUMAN SHARMA		
15	1CR09IS095	SINDHU SHREE	Design and implementation of improved authentication system for Android smartphone users	Ms.Febin/ Mr.Mahesh
	1CR10IS114	SURBHI KUMAR		
	1CR10IS095	SHARMILA ROY		
	1CR10IS084	RITWIK BANERJEE		
16	1CR11IS402	MADHURI N	privacy preserving location query service	Ms.Madhu/ Mr.Sivaraj
	1CR11IS400	AMARAVATHI K V		
	1CR10IS115	SUSHMITHA K		
	1CR10IS104	SONALI SURESH SHETTY		
17	1CR10IS103	SOHAM BANERJEE	data confidentiality and availability via secret sharing and node mobility in UWSN	Ms.Priyanka/ Ms.Richa
	1CR10IS111	SUMEDH SATISH DESHMUKH		
	1CR10IS082	RHISHAV SIKDAR		
	1CR10IS118	VINAY P		
18	1CR10IS012	ANUPRIYA DAS	mobile relay configuration in data intensive wireless sensor networks	Ms.Madhu/ Ms.Snehal
	1CR10IS022	CHANDINI S JAIN		
	1CR10IS024	DEEPA R HEGDE		
	1CR10IS055	MONICA SAINI		
19	1CR10IS045	LEELA SAHANA	Risk ware mitigation for Manet attacks	Ms.Smita /Ms.Sujatha
	1CR10IS026	DEEPTHIPRIYA R PILLAI		
	1CR10IS051	MANASA MAITRI S		
20	1CR10IS074	PRATHIBHA K S	Minimizing node energy consumption due to node mobility	Ms.Geetha/ Ms.Manjima
	1CR10IS078	RADHIKA R		
	1CR10IS100	SHRUTHI R		
	1CR10IS105	SOWMYA J		
21	1CR10IS048	MALAY SAMEER	customer feedback and loyalty retention solution	Ms.Deepa/ Ms.Febin
	1CR10IS068	P KRISHNANUNNI		
	1CR10IS021	CHANDAN ANAND		
22	1CR10IS080	RAHUL KUMAR GUPTA	Securing and checking the correctness of cloud data	Mr.Lohith/ Ms.Vasantha
	1CR10IS099	SHIVAM SRIVASTAVA		
	1CR10IS089	SANTOSH KUMAR CHOUDHARY		

	1CR09IS027	BHAVYA MANGALA		
23	1CR10IS059	NAREN H	Remote access to home automation systems	Mr.Nikhil/ Mr.Sudhakar
	1CR10IS060	NAVEEN M D		
	1CR10IS015	ASHWIN J		
	1CR10IS088	SANKETH S R		
24	1CR10IS009	AMRENDRA KUMAR	A Probabilistic model of(t,n)visual cryptography scheme with dynamic group	Ms.Vindya/ Ms.Alekhyia
	1CR10IS061	NAVEEN NANJAPPA SRINIVASAMURTHY		
25	1CR10IS097	SHIKHA KUMARI	A Secure Intrusion-Detection System for Mobile Ad hoc NETWORK (MANET).	Ms.Sheetal/ Ms.Rashmi
	1CR10IS101	SIMMI BHATT		
	1CR10IS053	MAYANK BAJAJ		
	1CR11IS404	MAMATA BHAT		
26	1CR10IS025	DEEPAK G	Fast nearest neighbour search with keywords	Ms.Deepa Anand/ Ms.Pragnya
	1CR10IS041	KARTHIKKIRAN R		
	1CR10IS005	AFTAB E ELAHI MAKANDAR		
	1CR10IS046	LOHITH M S		
27	1CR10IS091	SAURAV SINGH	safe driving using mobile phones	Ms.Geeth/ Ms.Aishwarya Laxmi
	1CR10IS075	PRINCE KUMAR		
	1CR10IS113	SURABHI SAHNI		
	1CR10IS117	VIKASH KUMAR PRIYADARSHI		
28	1CR10IS003	ADITHYA AITHAL P	implementation of diameter protocol used in LTE/4G networks an deveolpment of online prepaid charging systsem	Ms.Swati/ Ms.Manjima
	1CR10IS096	SHASHANK AITHAL P		
	1CR10IS102	SOBIA FAZAL		
	1CR10IS121	CHAITANYA REDDY C		
29	1CR10IS002	ABHAY DAS	Robust Face-Name Graph Matching for Movie Character Identification	Mr.Lohith/ Ms.Taniya
	1CR10IS004	ADITYA KUMAR		
	1CR10IS007	AKASH DAS		
	1CR10IS023	D M VIVEK		
30	1CR10IS038	JENNIFER ANCY PINTO	Nymble: Blocking Misbehaving Users in Anonymizing Networks	Ms.Kanthimathi/ Dr.Guruprasad
	1CR10IS017	AYESHA SHOAI B ANSARI		
	1CR10IS047	LUBNAE IRUM		
31	1CR11IS414	THILAK KUMAR D	Transfer Reliability and Congestion Control Strategies in Opportunistic Networks	Ms.Smita/ Mr.Shivaraj
	1CR11IS415	VARUNA R		
	1CR09IS090	SHIVARAJ G BANI		
	1CR10IS108	SUDEEP		
32	1CR10IS035	GOUTAM NARAYAN SINGH	Efficient method for backup and restore data in Andriod	Ms.Lalitha/ Mr.Manoj
	1CR10IS067	NITESH SNEH		
	1CR10IS037	HETUL		
33	1CR10IS030	DIPANJAN DEY		Ms.Lalitha/ Ms.Sujatha



	1CR10IS120	SHRAWAN KUMAR PRAJAPATI	importance of coherence protocols with network application on multicore processors	
	1CR08IS011	ATIS DIPANKAR N		
	1CR08IS025	K BHARADWAJ		

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Sl.No	USN No	Student's Name	Project Title	GUIDE	CO-GUIDE
1	1CR10IS091	SAURAV SINGH	Safe driving using mobile phones	Ms.Geetha	Ms.Aishwarya Laxmi
	1CR10IS075	PRINCE KUMAR			
	1CR10IS113	SURABHI SAHNI			
	1CR10IS117	VIKASH KUMAR PRIYADARSHI			
2	1CR10IS059	NAREN H	Remote access to home automation systems	Mr.Nikhil	Mr.Sudhakar
	1CR10IS060	NAVEEN M D			
	1CR10IS015	ASHWIN J			
	1CR10IS088	SANKETH S R			
3	1CR10IS048	MALAY SAMEER	Customer feedback and loyalty retention solution	Ms.Febin	Ms.Deepa
	1CR10IS068	P KRISHNANUNNI			
	1CR10IS021	CHANDAN ANAND			
4	1CR10IS063	NEHA JAIN S	Data collection and automation at milk co operative societies	Ms.Jaya	Dr.H.N.Shankar
	1CR10IS076	PRIYANKA G KALMANE			

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In House Project Titles				
Sl.No.	USN	NAME	PROJECT TITLE	GUIDE
1	1CR09IS008	AKASH SINGLA	Ensuring Distributed Accountability For Data Sharing in the Cloud	Ms. Preethi J D
	1CR09IS025	BHASKAR JOSHI		
	1CR09IS059	PETER JACKSON P J		
	1CR09IS050	MALATESH S PATIL		
2	1CR09IS007	AKASH K S	Edge Based Active Queue Management	Mrs.Suma S G
	1CR09IS002	ABHILASH K		
	1CR09IS022	B MANJUNATH		
3	1CR09IS003	ABHISHEK KUMAR	Trust Mmodelling in Social Tagging of Multimedia Content	Ms. Lakshmi V
	1CR09IS006	AJAY KUMAR PANDEY		
	1CR09IS052	MAYANK SHEKHAR		
4	1CR09IS024	BHANU PRIYA B S	Using the Cloud Cache with Optimal Stack	Mrs. Shilpa Pande
	1CR09IS033	DIVYA G		
	1CR09IS042	KAVYA SHREE G		
	1CR09IS048	LAKSHMIKANTH V		
5	1CR09IS012	ANKIT BANSAL	Exploring the Design Space of Social Network based on Sybil Defences	Mrs. Jyothi M
	1CR09IS035	GYANDEEP BORAH		
	1CR09IS049	LALIT BHATT		
	1CR09IS060	PIYUSH CHANDRA		
6	1CR09IS054	MOHAMMAD RAFEE		Mrs. Sudha D

	1CR09IS063	PRADEEP CHAVHAN	SIMPLEX-Tool That Enables End User To Create Simple Applications	
	1CR09IS065	PRASHANTH A G		
7	1CR09IS031	DEEPIKA P	Cloud Data Protection for Masses	Ms. Sheetal R
	1CR09IS023	BHAKTI BATHIA		
	1CR09IS053	MD SAJID HUSSAIN		
	1CR09IS062	PRACHI GUPTA		
8	1CR09IS009	AMBIKA	High Performance Utility Based Routing Protocol For DTN Wireless Networks	Mr. R Ganesh Kumar
	1CR09IS040	KALAI VANI C		
	1CR09IS057	NITESH KHETAN		
	1CR09IS058	NITHYA L		
9	1CR09IS028	C ROHIT	Reliable Re-Encryption in Unreliable Clouds	Mr. R Ganesh Kumar
	1CR09IS041	KAUSHIK A		
	1CR09IS055	MURALIDHAR B G		
	1CR09IS067	PREETHIVARDHAN V S		
10	1CR09IS017	ANUSHA M	Fast Data Collection in Tree-Based Wireless Sensor Networks	Mrs. Soubhagyalakshmi
	1CR09IS043	KOTNI PRIYANKA		
	1CR09IS068	PRIYADARSHINI M R		
	1CR09IS069	PRIYALI PATRA		
11	1CR09IS013	ANKITA A NAIR	Optimal Jamming Attacks in Multi-Channel Wireless Networks	Mr. Anand R
	1CR09IS019	ARCHANA KRISHNAN		
	1CR09IS066	PREETHAM RUKMAYA P		
12	1CR09IS014	ANUJ SHARMA	Bandwidth Recycling in IEEE 802.16 Networks	Ms. Madhu G
	1CR09IS015	ANUJA R		
	1CR09IS026	BHAVANA KAMAL		
	1CR09IS032	DIKSHA		
13	1CR09IS046	KUNAL KUMAR	Multi-User Mobile Bluetooth two way Text Chat	Mrs. Geetha S
	1CR09IS051	MAYANK BHUSHAN		
	1CR09IS071	RAHUL GUPTA		
14	1CR09IS021	AYUSHMAN DUTTA	Intrusion Detection and Attack Pattern analysis in Cloud computing	Ms. Saroj P
	1CR09IS044	KUMAR GAURAV		
	1CR09IS020	AVINASH R		
15	1CR09IS016	ANUSHA ASHOK	Online Modeling of Proactive Moderation System for Auction Fraud Detection	Ms. Preethi J D
	1CR09IS036	HINA KAUSAR		
	1CR09IS037	ISHAAN IQBAL		
	1CR09IS061	POORNIMA R		
16	1CR09IS029	CHANDRA KANT SHARMA	Personalized Image Search from the Photo Sharing Websites	Mrs. Lalitha Asokan
	1CR09IS047	KUSH KUMAR		
	1CR09IS064	PRASHANT PRABODH		
17	1CR09IS018	ANUSHA P	VIOXer: A Voice Enabled Web Browser	Mr. Ganesh Kumar
	1CR09IS038	JATIN SHETH		
	1CR09IS039	JYOTHI MARIA COREA		

	1CR09IS034	GAURAV CHAUBE		
18	1CR09IS030	DEEPA RAJ	NACHOS-Not Another Completely Heuristic Operating System(C/C++)	Mrs. SudhaMayi
	1CR09IS045	KUMARI ANAMIKA		
	1CR09IS056	NANCY APURVA KHALKHO		
19	1CR09IS073	RASHMI REDDY V	Risk Aware Mitigation for MANET Routing Attacks	Ms. Saroj P
	1CR09IS089	SHIVANI TERGAONKAR		
	1CR09IS087	SHILPA G		
	1CR09IS106	VARSHINI S A		
20	1CR09IS079	SANIYA AHSAN	An Efficient Peer-Peer Interactive VOD-Streaming using Network coading Equivalent content Distribution scheme	Mrs. Sudha D
	1CR09IS092	SHRUTHI V		
	1CR09IS088	SHILPA V		
	1CR09IS099	SUPRAJA P		
21	1CR09IS075	RITIKA BELWARIAR	Adaptation of Ranking Model for Target Domain Search	Mr. R Ganesh Kumar
	1CR09IS083	SHAILY SHILPA		
	1CR09IS085	SHARADHA R		
	1CR09IS100	SURABHI BHAT		
22	1CR10IS416	SUMA N	Automatic Reconfiguration for Large Scale Reliable Storage Systems	Mrs. Suma S G
	1CR10IS417	THANUJA		
	1CR10IS414	RASHMI S		
23	1CR09IS094	SHWETHA S	Optimizing the Cloud Resources for Delivering IPTV Services Through Virtulization	Mrs. Tulsi A
	1CR09IS102	SWATHI K R		
	1CR09IS104	TANUJA B M		
24	1CR09IS078	SANDEEP KUMAR	Architecting a Secure Enterprise Data Sharing Environment to the Edge	Mrs. Geetha S
	1CR09IS086	SHETTY SAGAR UDAY		
	1CR09IS081	SATISH CHANDRA T		
	1CR10IS415	SHIVAKUMARA M N		
25	1CR09IS082	SAURABH GOENKA	Building Crawler Engine on Cloud Computing Infrastructure	Mrs. Soubhagyalakshmi
	1CR09IS098	SUMIT PRASHANT		
	1CR09IS108	VINAY GUPTA		
	1CR08IS037	RAJIV KUMAR SINGH		
26	1CR10IS406	GAUTAMI	Data Access Control For Multi-Authority Cloud Storage Systems	Mr. R Ganesh Kumar
	1CR10IS410	K P PREETH		
	1CR09IS076	ROSHAN ZAMEER N		
	1CR09IS097	SUDHARANI		
27	1CR09IS103	SYED ADIL PASHA	IT TRACKING TOOL	Mrs. Shilpa Pande
	1CR10IS402	AZEEM HUSSAIN SHEIK		
	1CR10IS413	RAGHAVENDRA G		
	1CR07IS402	MOHANREDDY S		
28	1CR10IS404	C MANIKANT	Scalable and Secure Sharing of Personal Health Records in Cloud	Mrs. Lalitha Asokan
	1CR10IS411	MUNIKRISHNA C S		
	1CR10IS418	ULLAS V K		
	1CR10IS419	UMESH NAIK		

			Computing using attribute based Encryption	
29	1CR10IS401	ANUSHA A N	Fast and Accurate Annotation of Short Text with Wikipedia Pages	Ms. Lakshmi V
	1CR10IS403	BRUNDHA REDDY H K		
	1CR10IS412	POOJA KEMBHAVI		
	1CR09IS402	PRATHIMA		
30	1CR10IS400	AJAY	Monitoring and Detecting the Abnormal Behaviour in Mobile Cloud Infrastructure	Mr. R ANAND
	1CR10IS405	DIVYA K V		
	1CR10IS407	GURUDAS		
	1CR10IS408	IMRAN BASHA		
31	1CR09IS105	TEJAS Y B	Location Based Mobile Multimedia Push System Using Android	Mrs. Jyothi M
	1CR09IS107	VENKATARAJ KINI		
	1CR10IS420	VAIBHAV		
	1CR10IS421	VINAY KUMAR B		
32	1CR09IS074	RITESH KUMAR	Human Computer Interface using Hand Gesture Recognition	Dr. Aswatha Kumar M
	1CR09IS077	SAKET KUMAR		
	1CR09IS084	SHANKRI CHANDRA		
	1CR09IS093	SHRUTI GOVIND BIDADA		
33	1CR09IS072	RAJEEV SHARMA	A Greedy Link Scheduler for Wireless Networks with Gaussian Multiple Access in Broad Cast Channels	Ms. Sheetal R
	1CR09IS101	SWAROOP LAWRENCE		
	1CR09IS080	SANTHOSH S KASHYAP		
34	1CR09IS400	HASEEB ULLA KHAN	Cut Detection in Wireless Sensor Networks	Ms. Madhu G
	1CR08IS001	ABHISHEK KUMAR		
	1CR08IS050	SUSOVAN DAS		

ACADEMIC SESSION : JAN 2013- MAY 2013				
Industrial Project Titles				
Sl.No	USN No	Student's Name	Project Title	GUIDE
1	1CR09IS054	MOHAMMAD RAFEE	SIMPLEX-Tool That Enables End User To Create Simple Applications	Mrs. Sudha D
	1CR09IS063	PRADEEP CHAVHAN		
	1CR09IS065	PRASHANTH A G		
2	1CR09IS074	RITESH KUMAR	Human Computer Interface using Hand Gesture Recognition	Dr. Aswatha Kumar M
	1CR09IS077	SAKET KUMAR		
	1CR09IS084	SHANKRI CHANDRA		
	1CR09IS093	SHRUTI GOVIND BIDADA		
3	1CR09IS103	SYED ADIL PASHA	IT TRACKING TOOL	Mrs. Shilpa Pande
	1CR10IS402	AZEEM HUSSAIN SHEIK		
	1CR10IS413	RAGHAVENDRA G		

	1CR07IS402	MOHANREDDY S		
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ACADEMIC SESSION : JAN 2012- MAY 2012					
In House Project Titles					
Group No	SL.No	USN	NAME OF THE STUDENT	Title of the Project	Internal Guide
1	1	1CR08IS041	SAMARTH HANDEY V	Data Leakage Detection	Mrs. D Sudha
	2	1CR07IS004	AMOGHA VARSHA A		
	3	1CR04IS026	KRISHNA ASHWATH K		
	4	1CR04IS046	S VINOD KUMAR		
2	5	1CR08IS045	SHIVAKUMAR M M	Cloud Computing For Agent Based Urgan Transportation System	Ms. Lakshmi V
	6	1CR09IS403	RAHUL H P		
	7	1CR09IS405	SANJEEV KUMAR G N		
3	8	1CR08IS031	NANCY ANITA D	Personalized ontology Model for User Background Data	Mrs. S G Suma
	9	1CR08IS061	AYESHA PASHA		
	10	1CR07IS003	AISHWARYA B S		
4	11	1CR08IS009	ARCHANA P	Ensuring Data Stroage Security in Cloud Computing	Mrs. Tulsi A
	12	1CR08IS017	DIVYA VINCENT V		
	13	1CR08IS024	KIRTI PANDIT		
	14	1CR08IS028	MEENAKSHY H		
5	15	1CR08IS003	AKASH G	Wireless Sensor Network Security Model using Zero Knowledge Protocol	Mrs. Shilpa Pande
	16	1CR08IS029	MUKESH		
	17	1CR08IS059	R YATEESH		
	18	1CR09IS404	SAGAR B		
6	19	1CR08IS402	SUCHITHRA SUGATHAN	Exploring Application Level Semantics For Data Compression	Mrs. Tulsi A
	20	1CR07IS060	PRADNYA RAMA		
7	21	1CR08IS018	GIRISH R	Securre and Practical Outsourcing of Linear Programming in Cloud Computing	Mr. Anand R
	22	1CR08IS020	HARSHA N		
	23	1CR08IS021	HEGDE NAVEEN SUBRAY		
	24	1CR08IS056	VINAY R		
8	25	1CR08IS007	ANUSHA B R	Robust Video Data Hiding Using Forbiden Zone Data Hiding And Selective Embedding	Mrs.Soubhagya Lakshmi
	26	1CR08IS014	C CHINMAYI		
	27	1CR08IS044	SHASHI J		
	28	1CR08IS046	SHRUTHI R		
9	29	1CR08IS012	BEENA M	Embedded Extended Visual Cryptography Schemes	Mrs Jyothi M
	30	1CR08IS016	DIVYA K		
	31	1CR08IS030	MUNDANAD RAMAN VISHNU		
	32	1CR08IS034	PRIYADARSHINI J		
10	33	1CR08IS015	DIVYA BASAPPA	Modelling and Detection of Camouflaging Worms	Mrs.Soubhagya Lakshmi
	34	1CR08IS033	P NIKITHA		
	35	1CR08IS048	SRIYA VISHALAKSHY		
	36	1CR08IS049	SUBHI AGARWAL		
11	37	1CR08IS027	MANJEET KUMAR	Data Integrity Proofs in Cloud Computing	Mr. Anand R
	38	1CR08IS038	RATAN KUMAR RITESH		

	39	1CR08IS057	VISHNU KUMAR CHOUDHARY		
12	40	1CR08IS002	ABHISHEK RANJAN	Securing A E-Commerce Website Against SQL Injection Attack and Unauthorized Access	Ms. Sheetal R
	41	1CR08IS005	ANAND KUMAR RAY		
	42	1CR07IS031	NITHIN CHANDRA		
13	43	1CR08IS006	ANKUR YADAV	Optimal Jamming attacks and Network Defence Policies in Wireless Sensor Networks	Mrs Sudhamayi. P
	44	1CR08IS035	PUNIT RANJAN BHARTI		
	45	1CR08IS050	SUMIT GAURAV		
14	46	1CR08IS051	SURAKSHA SUDHAKAR	Effective Navigation of Query Results	Mrs. Shilpa Pande
	47	1CR09IS406	SUNITHA S		
15	48	1CR08IS004	AMIT PRATAP SINGH	Geographical Routing with Location Service Between MANETS	Ms. Madhu
	49	1CR08IS013	CHANDRA KANT UPADHAYAYA		
	50	1CR08IS055	TURJO CHAKRABORTY		
16	51	1CR08IS036	RADHA R	Privacy Preserving decisiontree learning using unrealized datasets	Mrs. S G Suma
	52	1CR08IS403	SATHISH KUMAR M J		
	53	1CR07IS049	SHAMBHAVI S		
17	54	1CR08IS010	ASIF HUSSAIN	Client Side Load Balancer Using Cloud for E Banking Aoplication	Mrs D Sudha
	55	1CR08IS019	GURURAJ S TAPLE		
	56	1CR08IS032	NARENDRA BONADE		
	57	1CR08IS043	SANDESH SUDHAKAR SHETTY		
18	58	1CR08IS008	ARCHANA G	Rumor Riding Anonymizing Unstructured Peer-to-Peer Systems	Mrs. Sudhamayi. P
	59	1CR08IS022	HEMA V		
	60	1CR08IS060	DEEPA K		
19	61	1CR07IS034	PRAGITH PRAKASH	BRANDZ - A Social Platform to Show Like & Dislike of Brands	Prof R Ganesh Kumar
20	62	1CR07IS002	ABHISHEK YOGA	ProgME: Towards Programmable Network Measurement	Ms. Sheetal R
	63	1CR06IS015	CHIRANJEEVI V		
	64	1CR06IS028	MURTUZA ALI BAIG		
	65	1CR06IS029	KUSHAL		
21	66	1CR08IS047	SINDHU REDDY A	Fuzzy keyword search over Encrypted Data in in cloud computing	Prof R Ganesh Kumar
	67	1CR08IS054	SWATHI JAGANATHAN		

ACADEMIC SESSION : JAN 2012- MAY 2012				
Industrial Project Titles				
Sl.No	USN No	Student's Name	Project Title	GUIDE
1	1CR08IS051	SURAKSHA SUDHAKAR	Effective Navigation of Query Results	Mrs. Shilpa Pande
	1CR09IS406	SUNITHA S		
2	1CR08IS002	ABHISHEK RANJAN	Securing A E-Commerce Website Against SQL Injection Attack and Unauthorized Access	Ms. Sheetal R
	1CR08IS005	ANAND KUMAR RAY		
	1CR07IS031	NITHIN CHANDRA		
3	1CR07IS034	PRAGITH PRAKASH	BRANDZ - A Social Platform to Show Like & Dislike of Brands	Prof R Ganesh Kumar

## Telecommunication Engineering

**1. Name of the Department: Telecommunication Engineering**

**2. Year of Establishment: 2000**

**3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated masters; Integrated Ph.D., etc.):**

Programme	Course	Affiliated University	Year of Establishment	Initial Intake	Present Intake
UG	Telecommunication Engineering	Visveswaraiah Technological University, Belagavi	2000	60	120
PG	Digital Communication Engineering	Visveswaraiah Technological University, Belagavi	2010	18	18

**4. Names of the Interdisciplinary courses and Departments/units involved:**

Semester	Name of the Course / Subject	Departments Involved
VI	Programming in C++	CSE
V	Management and Entrepreneurship	MBA
I,II,III and IV	Engineering Mathematics	Mathematics
M.Tech I	Linear Algebra	Mathematics
M.Tech I	Advanced Mathematics	Mathematics
III	Maths	Mathematics
III	Electronic Instrumentation	ECE
V	Management Entrepreneurship	ECE
V	Digital Signal Processing	ECE



V	Digital Switching System	ECE
VII	Operating Systems	CSE
VII	Real Time Systems	ECE
VII	Embedded Systems	ECE
VII	Computer communication Lab	ECE
III	Logic Design	ECE
III	Signals & Systems	ECE
IV	Linear IC's & Applications	ECE
M.Tech	Modern DSP	ECE
VI	Information Theory and Coding	ECE
IV	Fundamentals Of HDL	ECE
IV	Control Systems	EEE
VI	Microprocessor	ECE
VI	Antennas and Propagation	ECE
VI	Digital Communication	ECE
VII	Image Processing	ECE

### 5. Annual/ Semester/ Choice based credit system(Program wise):

Semester based credit system

### 6. Participation of the department in the courses offered by other departments:

Sl. No.	Semester	Subjects handled	Department	Subject Code
1	I,II	Basic Electronics	For all departments	10ELN15/25
2	III	Analog Electronics	CSE	10ES32
3	IV	Microcontroller and microcontroller lab	EEE	10ES42,10ESL47
4	VI	Embedded Systems	EEE	10EE665
5	VI	Digital Signal Processing	EEE	10EE64
6	III	Electronics Circuits	CSE	10CS32
7	VII	Optical Communication	ECE	10EC72
8	V	Signals and Systems	EEE	10EE52
9	VII	Embedded System Design	ECE	10EC74
10	V	DSP LAB	ECE	10ECL57
11	VII	Digital Signal Processing	EEE	10EE64
12	VI	Microprocessor Lab	ECE	10ESL68
13	VI	Embedded Systems	EEE	10EE665
14	IV	Control Systems	EEE	10ES43
15	VIII	GSM	ECE	10EC843
16	M.TECH	VLSI testing and Verification HDL Lab /10ECL48	ECE	14EVE23,
17	VI	ADC Lab	ECE	/10ECL67
18	M.TECH	SOS Design	ECE	14EVE255
19	VI	DSDV	ECE	10EC666
20	III	Signals and Systems	ECE	10EC44
21	IV	LIC	ECE	10EC46
22	M-tech	Coding Theory	ECE	14ELD22
23	VII	Optical Fiber Communication	ECE	10EC72
24	V	MWR	ECE	10EC54
25	III	Network Analysis	ECE	15EC34

26	III	Analog And Digital Electronics	CSE	15CS32
27	VII	Embedded systems	ECE	10EC74
28	V	Analog Communication	ECE	15EC53
29	III	Digital Electronics	ECE	15EC33

### 7. Courses in collaboration with other Universities/Industries/Foreign Institutions, etc:

Sl no	Event	Industry	Area	Year	Students involved
1	PREPARE Program	Cranes Varsity	Embedded Systems	2013-14	7th sem
2	PREPARE Program	Cranes Varsity	Matlab Training	2013-14	7th sem
3	PREPARE Program	QuanTech	Soft Skills	2014-15	6th sem
4	PREPARE Program	QuanTech	Technical Training	2014-15	6th sem
5	PREPARE Program	QuanTech	Soft Skills	2015-16	6th sem
6	PREPARE Program	QuanTech	Technical Training	2015-16	6th sem
7	PREPARE Program	TIME	Soft Skills	2016-17	6th sem
8	PREPARE Program	TIME+CMRIT	Technical Training	2016-17	6th sem

9	Embedded system training	Cranes Varsity	Technical Training	2016-17	8th sem
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**8. Details of courses/programmes discontinued (if any) with reasons:**

NA

**9. Number of teaching posts:**

Designation	Sanctioned	Filled
Professor	03	01
Associate Professors	06	03
Asst. Professors	14	21

**10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.):**

Sl.No.	Name	Qualification	Designation	Specialization	No. of years of Experience	No. of PhD students guided for the last 4 years
1.	Dr.K.V.S.Ananda Babu	PhD	Prof	Array signal processing	46	3
2.	Mrs.Sujatha S	M.Tech(PhD)	HOD& Assoc. Prof	VLSI and Embedded System Design	11	-
3.	Mrs.Pushpawati Changlekar	M.Tech(PhD)	Assoc. Prof	VLSI and Embedded System Design	10	-
4.	Mrs.Pooja Mohnani M	M.Tech(PhD)	Assoc. Prof	Information Technology	11	-
5.	Mrs. Richa Tengshe	M.Tech(PhD)	Asst. Prof	Electronics Design	5	-
6.	Mr.Mahesh Kumar Jha	M.Tech(PhD)	Asst. Prof	Electronics and Communication	4	-

7.	Mrs.Shilpa Uttarkar	M.Tech	Asst. Prof	VLSI and Embedded System Design	4	-
8.	Ms.Priya R	M.Tech	Asst. Prof	Electronics and Communication	3.5	-
9.	Mrs.Aastha Agarwal	M.Tech	Asst. Prof	Electronics and Communication	5	-
10.	Mr.Raveesh Hegde	M.Tech	Asst. Prof	Electronics and Communication	3	-
11.	Mr. Rahul Nyamanagoudar	M.Tech	Asst. Prof	Communication Systems	2.5	-
12.	Mrs.Alka Raj	M.Tech	Asst. Prof	VLSI and Embedded System Design	4	-
13.	Mrs.Laxmi Sharma	M.Tech	Asst. Prof	Digital Communication	5	-
14.	Ms.Shruthi Murthy	M.Tech	Asst. Prof	Information Technology	2	-
15.	Mrs.Pallavi Mishra	M.Tech	Asst. Prof	Energy Management	2.5	-
16.	Mrs.Shweta Sharma	M.Tech	Asst. Prof	VLSI Design	6.5	-
17.	Mrs. K Anuradha	M.Tech	Asst. Prof	Embedded System	5	-
18.	Mrs. Sharanya	M.Tech	Asst. Prof	Digital Communication	4	-
19.	Mrs.Lekshmy S	M.Tech	Asst. Prof	VLSI Design	4	-
20.	Mr.Hemanth Kumar U M	M.Tech	Asst. Prof	Digital Electronics and Communication	3.5	-
21.	Mrs.Jyothi Pendlikal	M.Tech	Asst. Prof	VLSI Design	4	-
22.	Mrs.Daliya	M.Tech	Asst. Prof	Embedded System	9	-

23.	Mrs.Anindita Sahu	M.Tech	Asst. Prof	VLSI Design	4	-
24.	Mrs.Pooja Kenchetty P	M.Tech	Asst. Prof	Digital Communication	1	-
25.	Mr.Rajesh	M.Tech	Asst. Prof	Digital Communication	1	-

### 11. List of senior visiting faculty:

Nil

### 12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty:

- All classes are held by regular faculty members.

### Student–Teacher Ratio (Programme wise):

UG Program:

Year	Sanctioned Intake	No. of Faculty	Student Teacher Ratio
2016	60	22	14:1
2015	120	24	15:1
2014	120	24	15:1
2013	120	24	15:1
2012	120	24	15:1
2011	120	24	15:1

PG Program: Digital Communication Engineering

Year	Sanctioned Intake	No of Faculty	Student Teacher Ratio
2016	18	3	12:1
2015	18	3	12:1
2014	18	3	12:1

2013	18	3	12:1
2012	18	3	12:1
2011	18	3	12:1

### 13. Number of academic support staff (technical) and administrative staff; sanctioned and filled:

Academic Support Staff	Sanctioned	Filled
Foreman	01	00
Lab Instructors	06	05
Office Assistant	01	01
Attender	01	01

### 14. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:

Sl. No.	Qualification	No.of Faculty
1.	Ph.D	01
2.	PG	19
3.	Pursuing Ph.D	05

### 15. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:

Sl. No.	Title	Principal Investigators	Funding Agency	Sanction (Yes/ No)	Year of Sanction	Status
1.	“Wireless Electricity”	Mr.Abhishek Javali(ECE) &Mrs. SujathaS(TCE)	VGST	YES	2013	Completed
2.	“Design and development of handheld device for a traffic constable to wirelessly control traffic signal”	Dr.H.N.Shankar, Dr.Muralishankar R	CMR Jnanadhara Trust	YES	2014	Completed

### 16. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:

Nil

### 17. Research Center/ facility recognized by the University:

Nil

### 18. Publications

#### \* a) Publication per faculty

Sl. No.	Name	Number of publications					
		2016	2015	2014	2013	2012	2011
1.	Dr.K.V.SAnanda Babu				1	1	1
2.	Dr. Ramesh Babu. K				1		
3.	Mrs. Sujatha S	5	4	6	4	2	
4.	Mrs. Pooja		4	3	3	1	
5.	Dr. Navin Kumar				11		
6.	Mrs. Anita. P				4		
7.	Mrs. Sophiya Susan						3
8.	Mr. Mahesh Kumar Jha	1			1	1	1
9.	Mrs. Meenakshi				1		
10.	Ms. Priya. R				1		
11.	Mrs. Sutapa			2			
12.	Mrs. Suma			2			
13.	Mrs. Prachi			1			
14.	Ms. Shruthi Murthy			1			
15.	Mrs. Laxmi Sharma			13			
16.	Mrs. Nisha Shailendra Singh			4	1		1
Total		6	8	32	28	5	6

\*Details are given in ANNEXURE 1

\* Number of papers published in peer reviewed journals (national / international) by faculty and students:



No. of Publications					
2016	2015	2014	2013	2012	2011
6	8	32	28	5	6

\* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):

\* Books with ISBN/ISSN numbers with details of publishers:

Sl. No.	Name	Title	Publisher	ISBN / ISSN	Year of Publication
1.	Laxmi Sharma	Linear Integrated Circuits	Genius Publications ISO 9001:2008	ISBN- 93-80311-34- 0	2010

\* Citation Index:

Sl. No.	Faculty Name	Citation Index
2.	Mr. Mahesh Kumar Jha	2
3.	Mrs.Sujatha.S	2
4.	Dr. Navin Kumar	2
5.	Mrs. Laxmi Sharma	1

\* SNIP:

\* SJR:

\* Impact factor:

Sl. No.	Faculty Name	Impact Factor Range
1.	Mrs. Sujatha S	0.25-0.462
2.	Mrs. Pooja Mohnani	1.09
3.	Dr. Navin Kumar	0.403-1.253
4.	Mr. Mahesh Kumar Jha	1.7
5.	Mrs. Meenakshi Devikar	1.7
6.	Dr. Ramesh Babu	1.76
10.	Ms. Shruthi Murthy	2.324
11.	Mrs. Laxmi Sharma	2

\* h-index:

Sl. No.	Faculty Name	h-index
1.	Mrs. Laxmi Sharma	1
2	Mrs.Sujatha.S	1

\*(Details are enclosed in Annexure I)

## 20. Areas of consultancy and income generated:

NIL

## 21. Faculty as members in

a) National Committees b) International Committees c) Editorial Boards...

Sl. No.	Faculty Name	Name of the Committee / Editorial Boards	Name of Organization/University	Type of Membership
1	Mr. Mahesh Kumar Jha	IEEE	-	IEEE MEMBER
2	Mrs. Richa Tingshe	IEEE	-	IEEE MEMBER
3	Mrs. Sujatha S	Reviewer	Christ University- Syllabus and Question Bank for Optical Fiber Communication	
4	Mrs. Sujatha S	IEEE	-	IEEE MEMBER
5	Mr. Rahul Nyamanagoudar	Moderator	Christ University-For Optical Communication, Digital Communication, Antenna	

## 22. Student projects:

### UG

a) Percentage of students who have done in-house projects including inter-departmental/ Program:

Sl. No.	Academic Year	Percentage In house
1	2015-16	78%
2	2014-15	72%
3	2013-14	62%
4	2012-13	58%
5	2011-12	61%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:

Sl. No.	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
1	2015-16	22%
2	2014-15	28%
3	2013-14	38%
4	2012-13	42%
5	2011-12	39%

### PG

a) Percentage of students who have done in-house projects including inter-departmental/ Program:

Sl. No.	Academic Year	Percentage In house
1	2015-16	85%
2	2014-15	80%
3	2013-14	72%
4	2012-13	62%
5	2011-12	58%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:

Sl. No.	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
1	2015-16	25.4
2	2014-15	40.2
3	2013-14	27.3
4	2012-13	43.8
5	2011-12	25

(Details are enclosed in Annexure II)

### 23. Awards/ Recognitions received by faculty and students:

Sl. No.	Name of the faculty	Name of the Award	Name of Agency	Year
1.	Mrs. Sujatha S	5 Year service award	CMR Jnanadhara Trust	2014
2.	Mrs. Pooja Mohnani			
3.	Mrs.Pushpavathi Changlekar			
4.	Mrs. Sujatha S	Question paper reviewer	Christ University	2015
5.	Mrs.Nisha Shailendra Singh	Organized “National level research paper competition”	TRPCS	2014
<b>Students:VTU Rank holders</b>				
1.	Veena Mohan (1CR14LDC13)	3 <sup>rd</sup> rank(PG Program)	VTU	Year 2015-16
2.	Shruthi R (1CR13LDC12)	1 <sup>st</sup> rank(PG Program)		Year 2014-15
3.	Varshini B (1CR10TE088)	2 <sup>nd</sup> rank (UG Program)		Year 2013-14
4.	Vinutha K (1CR10TE096)	9 <sup>th</sup> rank (UG Program)		Year 2012-13
5.	Rizwana Khan (1CR09TE066)	3 <sup>rd</sup> rank (UG Program)		
6.	Roshita Preeti Pinto (1CR09TE067)	5 <sup>th</sup> rank (UG Program)		
7.	Trishna Ravi (1CR09TE097)	8 <sup>th</sup> rank (UG Program)		

Sl. No.	Name of Student	Technical	Year
1.	R Manohar	Article written on “working of slotted patch antenna”	2016
2.	Abhay Rangan	Selected for Stanford university’s “university innovation fellows program”	2016
3.	B. Chandrashekar	Bangalore Hub leader in students activities committee for IEEE Bangalore section	2015-2016
4.	B. Chandrashekar	Chiraman IEEE student branch, Event coordinator-students activities committee for IEEE bangalore section	2014-2015
5.	Naveen Nischal and team	Secured 1 <sup>st</sup> place for “Design and Development of handheld device for traffic constables to wirelessly control trafficSignals”in SRISHTI-2015 at New Horizon College of Engineering, Bengaluru.	2015
6.	Divyam Raj and Team	Secured 2 <sup>nd</sup> place for “Persistence of Vision” in SRISHTI-2015 at New Horizon College of Engineering, Bengaluru.	2015
7.	Dheeraj C and Team	Secured 3 <sup>rd</sup> place for “Voice Controlled Robot” in SRISHTI-2015 at New Horizon College of Engineering, Bengaluru.	2015
8.	Megha B, Sahana N, Shoukhi Khan, Syed Mubarak	Presented paper in NCCVS-2015	2015
9.	Ms. Anjali	Presented paper in NCCVS-2015	2015
10	Rajeswari K M	Presented paper in NCCVS-2015	2015
11	Karishma G	Presented paper in NCCVS-2015	2015
12	Renny Mathew	Winner of zonal level Robotics Competition of NRC India in 2015.	2015
	R. Ankit	Presented paper at National level in SHASTRA-2014.	2014
Sl. No.	Name of Student	Sports	Year
1.	Savvy	Secured second place in Football during Revamp 12 at Reva Inst. of Technology and Management, Bangalore on 12-13 April 2012.	2012
2.	Vaibhav H.V	Secured Second place in Football during Revamp 12 at Reva Inst. of Technology and Management, Bangalore on 12-13 April 2012.	2012

3.	Mani R	Participated in the Sai Leo Trophy '12, A state level Inter Engineering Collegiate Kabaddi tournament on 21-22 march 2012.	2012
4.	Kunal B	Runner-up in the Technical/Cultural/Management 5-A Side Football during CMR Cultura 12.	2012
5.	Basavaraj M walke	Participated in the Sai Leo Trophy '12, A state level Inter Engineering Collegiate Kabaddi tournament on 21-22 march 2012.	2012
6.	Kishore S R	Won first place in the National Level Techno-Cultural Extravaganza '8 <sup>TH</sup> MILE 2012' in the mini football at RVCE, Bangalore.	2012

Sl. No.	Name of Student	Extra –Curriculum	Year
1.	Abhay Rangan	1 <sup>st</sup> place in TURN COAT in SARGAM-2016 at NHCE, Bangalore	2016
2.	Antony Michael Jenifier J	3 <sup>rd</sup> place in Aviskar at Shristi-2016 under ICT agriculture stream	2016
3.	Divyam Raj	Won first place in Group Dance event of Estralis 2015	2015
4.	Divyam Raj	Won first place in MAD ADS in Anaadyanta 2015.	2015
5.	Bharat Nagaraj	Secured second place in MAD ADS in Manthan 2014.	2014
6.	Bharat Nagaraj	Secured first place in MAD ADS in Chiguru 2014.	2014
7.	Santhosh	Runner-up Smt. Rajalakshmi Jayaraman State level Volleyball Tournament in April 2014.	2014
8.	Rumela Choudhary	Won second place in Cultural Lights Camera Action event during CMR Cultura 2014.	2014
9.	Bharat Nagaraj	Secured first place in MAD ADS in Estralis 2014.	2014
10.	Bharat Nagaraj	Secured first place in MAD ADS in Anaadyanta 2015.	2015
11.	Bharat Nagaraj	Secured first place in MAD ADS in SEAZONS 2014.	2014
12.	Bharat Nagaraj	Secured first place in MAD ADS in MAAYA 2014.	2014
13.	Bharat Nagaraj	Secured first place in MAD ADS in SYNAPSE 2014.	2014

14.	Bharat Nagaraj	Secured first place in MAD ADS in Kala Sangana 2014.	2014
15.	Shreyas	Secured second place in SKIT competition at Kalanjali 2014.	2014
16.	Divyam Raj	Secured third place in SARGAM 14 for superheroes theme.	2014
17.	Keerthi Gopalkrishnan	Runner-up in India Fest 2014.	2014
18.	Bharath Nagaraj	Secured 1 <sup>st</sup> place in Mime event in CMR HAS TALENT 2013	2013
19.	Sanjay Jaydev	Secured 1 <sup>st</sup> place in Mime event in CMR HAS TALENT 2013	2013
20.	Sanjay Jaydev	Secured 2 <sup>nd</sup> place in Street Play event in CMR HAS TALENT 2013	2013
21.	Sanjay Jaydev	Secured 1 <sup>st</sup> place in SKIT event in CMR HAS TALENT 2013	2013
22.	Bharath Nagaraj	Secured 2 <sup>nd</sup> place in Street event in CMR HAS TALENT 2013	2013
23.	Kumar Anurag	Secured 1 <sup>st</sup> place in Indian music groups during CMR Cultura 2013	2013
24.	Rahul Ghelani	Secured 1 <sup>st</sup> place in MAD ADS during CMR Cultura 2013	2013

#### 24. List of eminent academicians and scientists/visitors to the department:

Sl. No.	Name of Academicians/ Scientists / Visitors	Name of Company	Designation
1	Philip Thomas	TIME	Trainer
2	Aditya Nambiyar	Career Launcher	Product Head- International Education and Research
3	Shrinivas Belhvi	TIME	Trainer
4	ARKS Srinivas	Vista Minds Academy	CEO

5	Mr. Ambareesh	Chopras Academy	Faculty
6	Priyanka Vidolkar	Altair Engineering India	Trainer
7	Ms. Juhy	Chopras Academy	Counsellor
8	Glenda Jose	Chopras Academy	Trainer
9	Ramachandra Kuloor	LRDE	Scientist
10	Dr. Dattakumar R	VTU	Special Officer
11	Dr. Haraprasad N.	SJCE, Mysore	Professor
12	Dr. Sunil M.V.	SDM, Mysore	Professor
13	Prof. Rajappa Reddy	PRLightcomm Broadband Services Pvt Ltd	Marketing Head
14	R.B.Raveendranath	Enixs Technology India Pvt Ltd.	Vice President
15	Prof. C. Murali	Adarsha Institute of Technology	Professor
16	Mr. Basavaraju	BCS Innovations	Chief Executive
17	Dr. Sheldon S. Williamson	Concordia University, Canada	Member IEEE and Prof. at Dept. of Electrical Engineering, Concordia University, Canada
18	Dr. Padmanabh Kumar	Bosch	Corporate Researcher, Bosch, Bangalore
19	Mr. H. Shreedhar	Asha Wellness Services Pvt Ltd	Director
20	Mr. Channabasappa Baligar	LRDE	Scientist
21	Mr. Tirumalesh	USA	Software Engineer
22	Mr. Sumeet Kumar	TU, delft, Netherland	Software Engineer
23	Dr. Khori	Lucent Technology	Development Engineer



24	Mr. B.S. Nataraju	Astro Physics Trends	Consultant on Astrophysics
25	Dr. A.K. Singh	DRDO	Associate director

## 25. Seminars/Conferences/Workshops organized and the source of funding:

### a) National

Sl. No.	Title	Organizer	Year	No. of Participants	Resource Person	Funding Agency
1	FDP on Linear Integrated Circuits	Mrs.Sharmila K.P.	2017	30	Prof. H.N.Shankar and Prof. Murali Shankar	CMRIT
2	Workshop on Plagiarism	Mrs.Sharmila K.P	2016	300	Dr. Dattakumar, Dr. B.S.Mahananda, Dr. N Haraprasad, Dr. Sunil M.V.	CMRIT
3	A workshop on Optical Fiber Communication	Dr. Sudhir Kumar Routrey	2015	30	Prof. Rajappa Reddy	CMRIT
4	A workshop on ARM7 based Embedded System Design	Mrs.Sharmila K.P.	2015	38	R.B.Raveendranath	CMRIT
5	Recent Trends in Antenna Design- using FEKO	Mrs.Sharmila K.P.	2015	50	Dr. A.K. Singh, Associate Director, DRDO and	VTU

	simulation software				Priyanka Vidolkar from Altair Engineering India	
6	Speech Processing and Applications	Dr.H.N.Shankar, Dr.Muralishankar,	2012	100	Dr. John H.L. Hansen, University of Texas, Dallas & Dr. Abhijeet Sangewan, University of Texas, Dallas.	International Speech Communication Association, France & IEEE Signal Processing Society, Bangalore

## 26. Student Profile programme /course wise:

Name of the Course/ Program	Year	Applications Received	Selected	Enrolled		Pass Percentage
				*M	*F	
B.E.	2015-16	102	89	34	55	-
	2014-15	145	105	47	58	-
	2013-14	169	129	66	63	-
	2012-13	170	130	81	49	96.47
	2011-12	169	129	81	48	89.38
M Tech (DE)	2014-15	18	13	4	9	100
	2013-14	18	13	5	8	100
	2012-13	18	09	3	6	100
	2011-12	18	17	8	9	100

\*M = Male \*F = Female

### 27. Diversity of students:

Name of the Course	Academic Year	% of students from the State	% of students from other states	% of students from other countries
B.E (Telecommunication Engg.)	2016 - 17	89.13	8.69	1.12
	2015 - 16	76.4	12.35	1.12
	2014 - 15	87.6	12.4	0
	2013 - 14	75.2	23.3	1.6
	2012 - 13	80	19.2	0.8
	2011 - 12	72.09	25.6	2.35
	2010 - 11	71.9	21.6	6.5
M. Tech (Digital Communication)	2016 - 17	80	20	0
	2015 - 16	100	0	0
	2014 - 15	100	0	0
	2013 - 14	92.3	7.7	0
	2012 - 13	88.9	11.1	0
	2011 - 12	88.2	11.8	0
	2010 - 11	88.2	11.8	0

### 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sl. No.	Year	Type of exam (NET, SLET, GATE, Civil services, Defense services, etc.)	No. of students cleared
1	2011-12	GATE	5
2	2012-13	GATE	3
3	2013-14	GATE	2
4	2014-15	GATE	6
5	2015-16	GATE	2

## 29. Student Progression:

Student Progression	Against % Enrolled					
	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
UG to PG	7.77%	8.22%	9.44	10.22%	11.6%	Ongoing
	----					
PG to M.Phil.	----					
PG to Ph.D.	--	--	--	--	--	--
	----					
Ph.D. to Post-Doctoral	----					
Employed •Campus selection •Other than campus recruitment	43.67%	23.89%	49.54%	44.24%	49.34%	Ongoing
	39.32%	62.11%	25.46%	35.76%	40.21%	Ongoing
	----					
Entrepreneurship/Self-employment	--	--	1%	--	1%	2%
	----					

## 30. Details of Infrastructural Facilities:

a) Library:

Sl. No.	Area	No. of books	No. of mono graphs	No. of CDs	No. of journals	No. of reports	*Misc
1	19 Sq.mts	375	-	32	30	309	-

\* includes syllabus, Question Papers, Magazines, Newsletters.

b) Internet facilities for Staff & Students:

c) Staff and students of department have access to the campus wide Wi-Fi connectivity Internet service providers BSNL and Bell Tele services with a total of 40Mbps.

Class room with ICT Facility:

Sl. No.	Room No.	Shared / Exclusive	Area in Sqmts	Teaching aids
1	Class Room No: NB 301	Exclusive	95	Portable Multimedia Projectors
2	Class Room No: NB 302	Exclusive	95	Portable Multimedia Projectors
3	Class Room No: 401	Exclusive	95	Multimedia Projectors
4	Class Room No: 402	Exclusive	95	Multimedia Projectors
5	Class Room No: 403	Exclusive	95	Portable Multimedia Projectors
6	Class Room No: 404	Exclusive	95	Portable Multimedia Projectors
7	Class Room No: 405	Exclusive	95	Portable Multimedia Projectors
8	Class Room No: 406	Exclusive	95	Portable Multimedia Projectors
9	Class Room No: 407	Exclusive	95	Portable Multimedia Projectors
10	Class Room No: 412(A)	Exclusive	95	Portable Multimedia Projectors
11	Seminar Room No: 412(B)	Exclusive	95	White Board, Chairs Multimedia Projectors, computers
12	CV SeminarHall - 2	Shared	100	Multimedia Projectors, Audio, White Board, Chairs

## d) Laboratories:

Sl. No.	Name of Laboratory	Area	Major Equipments	Total Investment/ Amount spent
1	Microcontroller lab	100	MC kit, computer and table	7,27,835
	DSP lab		DSP kits, function generator, DSO	9,66,584
2	HDL lab	100	Modelsim, Logic analyser, FPGA cost	10,31,874

	CCN lab		computer, computer table &CCN lab trainer kit	5,86,160/-
3	Analog Electronics Lab	130	function generator, Oscilloscope, ammeter, power supply	5,02,619
	Microwave lab		KLYSTRON test bench with accessories with Gunn bench, CRO, VSWR meter,	6,96,310
4	Logic Design Lab	130	Digital trainer kit, IC tester	3,00,000/-
5	Microprocessor Lab	100	computer, table, projector, MP kits	7,14,945
6	Advanced Communication Lab	100	DSO, CRO, Signal Generators, Power Supply, Optical Fiber Kit, QPSK, PCM, DPSK, Table	4,71,548
	AC+LIC lab		DSO, Signal Generator, Power Supply, CRO	4,45,653
7	M.Tech lab - Digital Communication	50	FEKO Simulation Software, DELL Computer with Dualcore	12,61,470/-

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Year	No of students receiving financial assistance
<b>2016-17</b>	<b>Ongoing</b>
<b>2015-16</b>	<b>54</b>
2014-15	58
2013-14	63
2012-13	20

Scholarship Details For Last Four Academic Years												
Sl. No.	Name of the Institutional Organization	Details	2015-16		2014-15		2013-14		2012-13		2011-12	
			No. of students	Amount in Rs.	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.	
1	Social welfare	SC/ST		11,30,560	29	11,30,560	15	4,89,520	2	60,760		
2	Backward classes	OBC		3,75,800	20	3,75,800	40	4,78,670	12	54,740		
3	Directorate of technical education	Defense	1	40,545	1	34,545	3	7500	3	31,445		
4	Director of Minorities	DOM		53,510	4	53,510			2	30,000		
6	Samaja Kalyan Dept	BCM-other state		1,16,160	3	1,16,160	13	4,64,090	1	1,00,000		
10	CMR			70,000	7	70,000	6	53,000	5	50,000		
11	Coffee Board Extension Wing						1	5000				
12	BBMP			33,090	1	33,090						
13	CMRIT free ship	Free education to students	6	8,10,000	6	8,10,000	6	7,50,000	6	8,10,000	6	7,50,000

### 33. Details on student enrichment programmes (special lectures / workshops /Seminar) with external experts:

Sl. No.	Lectures/Workshops/Seminar	Guest Speaker	Company Name	Date	No. of Students participated
1	Guest lecture on basics of Signal Processing for RADAR Applications.	Mr. Ramachandra Kuloor	LRDE	30/1/2016	100
2	Career Opportunities after B.E.	Mr. Srinivas	Vista Minds	11/8/2015	85
3	Educational Opportunities Abroad	Ms. Juhy	Chopras Academy	28/4/2015	85
4	Career Guidance Program	ARKS Srinivas	VISTA Minds	18/4/2015	85
5	GRE Awareness Program	Speaker- Philip Thomas	TIME Institute	25/8/2014	55
6	Research Opportunities Abroad	Aditya Nambiyar	International Education and Research, Career Launcher	21/8/2014	08
7	Aptitude Test Skill Enhancement Program	Speaker - Shrinivas Belhvi	TIME Institute	24/3/2014	30
8	Guest Lecture on “Wireless Technology Beyond 3G”	Speaker - Prof. Murali C.	Adarsha Institute of Technology	17/3/2014	100
9	Career Guidance Program	Speaker - ARKS Srinivas	Vista Minds Academy	10/3/2014	85
10	A guest lecture on “Recent Trends in Telecommunication”	Speaker- Mr. Basavaraju	BCS Innovations	19/3/2013	60



11	A guest lecture on “Transportation Electrification- Enabling Paradigm Shift”.	Speaker- Dr. Sheldon S. Williamson, Member IEEE, Dept. of ECE	Concordia University, Canada	4/4/2013	70
12	A guest lecture on “Scalability of Sensor Networking in Real Life Industrial Applications”.	Speaker- Dr. Padmanabh Kumar	Corporate Researcher, Bosch, Bangalore	6/9/2013	80
13	Recent Trends in Antenna Design- using FEKO simulation software	Dr. A.K. Singh’ Associate Director, DRDO and Priyanka Vidolkar from Altair Engineering India	Altair Engineering India	21,22 Jan 2015	60

#### 34. Teaching methods adopted to improve student learning:

The enthusiastic faculty members of the college aim to deliver their lectures in an effective manner to enrich the knowledge of the students community. They continuously do research to evolve innovative teaching methodologies. Some of the innovative teaching methodologies adopted are:

- **Power point presentations** which includes presentation of videos for understanding of few topics/ Black board Teaching.
- **Lab Instruction sessions** for the practical experience with respect to Lab oriented subjects
- **Lab Refinement Committee (LRC)** has been formed with the aim of monitoring the quality of lab conduction.
- **Additional projects and publications** based on the projects exist, which helps students to perform innovatively and can be motivated for further research blend.
- **Expert lectures and workshops** are organized by the respective faculty to bridge the gap

between the curriculum and industry requirements.

- **Individual faculty web pages** are created.
- **Home Assignments**
- Pairing intelligent and Dull Students.
- Seminars and Lectures.
- **Industry Sponsored project.**
- **Intensive coaching Programme(ICP)** classes are being conducted for the weaker students who are identified through their Internal Assessment test performance. Students are identified through their internal test performance.
- **Remedial Classes** have been conducted for the failed students in the following semester to help them pass the subjects.
- **Tutorial classes** are provided for analytical courses in every semester as per the scheme.
- **The curriculum** offers course components like seminars, mini projects and major project taken as per their supervisor.
- **Mini projects**

Goal: Mini project offers optimistic, curious & exploring students, endless opportunities to understand the technology and pursue their passion. It also serves as the base for their final year project by helping them to choose their area of interest. They have to use their innovative ideas to do the projects as a team, thereby learning to be a team player.

- **Prepare Program**

Goal: Meticulous and smart preparation is required by the students as a first step into a bright career. To help students in this direction, department of TCE in association with placement cell-CMRIT, structured a comprehensive “PREPARE” program for all the pre-final year students. “PREPARE” program was structured based on our experience in placement drives.

Feedback from interview panelists of various companies

Feedback from the graduating students of the 2015 batch

The program is streamlined into following six courses which were tailored to bridge the gap between academia and industry.

Infosys Campus Connect

Cloud Infrastructure

Web Applications

MATLAB Applications

Embedded Design

OS(Linux and Android)

#### 34. Participation in institutional social responsibility (ISR) and extension activities:

- Volunteered Blood Donation Camp conducted in the college.
- Clean sweep abhayan- by CSE students Team.
- CSE students has won first prize for “Ideas for India”, contest.
- CSE Students were runner-ups for “Clean and Clear Face”, contest.
- Conducted a workshop on Microsoft office for sister concerned colleges of CMR group.
- Computers donated to various government schools.

#### 35. SWOC analysis of the department and Future plans:

Strength	Weakness
<ul style="list-style-type: none"> <li>• Very good infrastructure and well equipped laboratory</li> <li>• Additional support for weak students facilitated</li> <li>• Experienced, Committed faculty with higher Qualification</li> <li>• Most of the faculty members are involved in research</li> </ul>	<ul style="list-style-type: none"> <li>• Lack of publicity of the innovative methods adopted in the department</li> <li>• Inadequate interaction with industries and research labs.</li> </ul>
Opportunities	Challenges
<ul style="list-style-type: none"> <li>• Enhancement of funds from potential funding agencies.</li> <li>• Resources from Alumni</li> <li>• Research and Development</li> </ul>	<ul style="list-style-type: none"> <li>• Limited involvement of core Telecom companies in recruitment</li> <li>• Lack of publicity about the area of study</li> <li>• Inviting companies for placement.</li> <li>• Pressure from Industry for updating curriculum repeatedly</li> </ul>
<b>Future plans</b>	

- Establishment of Industry supported labs
- Collaborative research with different Research Labs
- Strengthen Industry interaction
- Additional activities in Research Centre
- Overall Quality improvement such that the department will be recognized as one of the best department in our country.

**ANNEXURE-II**  
**Paper presented in Workshops/ Conference**

Sl No.	Title of the Paper	Conference	Place	Date	Author
1	Latching onto Keck's law: Maintaining High speed trends in optical communication	IEEE ICACCS	Coimbatore	Jan 6-7 2017	Mr. Rahul Nyamangoudar
2	Latching onto Keck's law: Maintaining High speed trends in optical communication	IEEE ICACCS	Coimbatore	Jan 6-7 2017	Mrs. Laxmi Sharma
3	PAPR Reduction by DCT based Modified SLM Techniques with Interleaving in OFDM System	Proceedings of Third International Conference on Eco-friendly Computing and Communication Systems	Syed ammal college of engineering., Ramanadhapuram, India,	April 3-5 2016	Mrs. Sujatha. S
4	“Software Defined Networking for Optical Networks”	proceeding of IEEE International Conference on Distributed computing, VLSI, Electrical circuits and Robotics (Discover-2016),	NITK Suratkal,	Aug 13-14, 2016.	Mr. Mahesh K. Jha

**Paper  
Publication: (Journals)**

SI No.	Title of the Paper	Journal	Authors
1	Opportunistic diagnosis using Particle Swarm Optimization in Wireless Body Area Network	Journal of Computer Science and Information Security, At 153 -160, Volume: Vol. 14, No. 1, January 2016	Mrs. Pooja Mohnani
2	Modeling and Optimizing Wireless Body Area Network Data using PSO in Virtual Doctor Server	Communications on Applied Electronics (CAE)-ISSN: 2394-4714. Foundation of Computer Science FCS, New York, USA Volume 4–No.2, January 2016	Mrs. Pooja Mohnani
3	PAPR Reduction in MIMO OFDM System using Modified SLM based Constant Modulus Algorithm with IDCT Matrix "	.IJCSIS May 2016, Vol. 14 No. 5 Publication listed in Thomson Reuters, Google scholar & US digital libraries.	Mrs. Sujatha. S
4	Device and Energy Aware Routing Protocol Based MIMO to Improve Network lifetime of WSN using Game Theory”	International Journal of Innovative Research in Computer and Communication Engineering” Vol. 4, Issue 4, April 2016.	Mrs. Sujatha. S
5	Device and Energy Aware Routing Protocol Based MIMO to Improve Network lifetime of WSN using Game Theory””.	IJRET Vol. 5, Issue 5, May 2016. 6. ISN 2319-1163	Mrs. Sujatha. S
6	A Novel Adaptive Beamforming for RADAR Systems.	The Board of International Journal of Research and Innovation in Applied Science. Pg no.27-32, Vol 1, issue IX, Dec 2016	Mrs. Sujatha. S

<b>R&amp;D Activities: Paper Publication: (Journals)</b>			
<b>Sl. No.</b>	<b>Title of the Paper</b>	<b>Journal</b>	<b>Authors</b>
1.	PAPR Reduction techniques using DCT and IDCT based partial transmit sequence technique in OFDM	ARPN, Journal Jan-2015	Mrs. Sujatha. S
2.	Applications of Wireless Sensor Network in Home Automation	International Journal of Computer and Organization Trends, Vol 9, No.1, june 2014	Mrs. Pooja Mohnani
3.	PAPR Reduction techniques in OFDM systems using DCT and IDCT	Journal of theoretical and applied information Technology. Vol 64, No 3, 30,Jun 2014	Mrs. Sujatha. S
4.	DSPIC based Digitized Feedback loop for DC-DC Converter.	International Journal of Electronics and Communication Engineering and Technology(IJECET), Vol 5, Issue 5,May 2014, pp 105-110	Mrs. Nisha S. Singh
5.	Modelling of Digitized discrete feedback loop with PID compensator for buck converter using MATLAB/SIMULINK	IEEE Explore Digital Library, 2014, pp 55-59	Mrs. Nisha S. Singh
6.	Enhancing Production Planning Module for Manufacturing Finished goods and generating a production schedule using SAP application	International Journal of Emerging Technology and Advanced Engineering (IJETA), Vol4, Issue 3, M March 25, 2014	Ms. Shruthi Murthy
7.	Design of Microstrip Patch Antenna for Multiband Communication Purpose	International Journal of Advanced Engineering & Computing Technologies, ISBN: 978-928917-0-5,December-2013.	Mrs. Laxmi Sharma
8.	Offset Fed microstrip Patch Antenna for Multiband Communication purpose in the field of Wireless	International Journal of Scientific and Engineering Research (IJSER)-ISSN 2229-5518,June-2014	Mrs. Laxmi Sharma

9.	Microstrip Patch Antenna with Defected ground Structure & Offset Feed in the field of Communication	International Journal of Engineering, Management & Science, ISSN: 2338-3733, August-2014	Mrs. Laxmi Sharma
10	Multi Frequency operated Offset fed Microstrip Patch Antenna	International Journal of Engineering, Management & Science, ISSN: 2348-3733, January-2014.	Mrs. Laxmi Sharma
11	Hybrid Technique for Human Identification Using Information Theory.	International Journal of Science & Advanced Technology. Feb-2013	Dr. K. V. S. Anand Babu
12	Visible Light Communication based Traffic Information Broadcasting Systems	IJFCC Feb-March 2013	Dr. Navin Kumar
13	Visible Light Communication System for Outdoor Applications	IJSE 2013	Dr. Navin Kumar
14	Conceptual Architectural Design of Indian Railway Intelligent Transportation System	Springer Communication Technology, May 2013	Dr. Navin Kumar
15	Visible Light Communication: Concept, Technology and System	WCNC, IEEE Conf Proceedings April 2013	Dr. Navin Kumar
16	Design and development of Non Data Aided Estimation Algorithm for Carrier Frequency Offset and I/Q Imbalancing in OFDM based Systems	WOCN, IEEE conference proceedings July 2013	Dr. Navin Kumar
17	Carrier Frequency Offset with I/Q Imbalance Analysis of Fifth Generation Wi-Fi	IACACCI, IEEE conference proceedings August 2013	Dr. Navin Kumar
18	Smart and Intelligent Energy Efficient Public Illumination System with Ubiquitous communication for smart city	ISSS, IEEE conference proceedings, March 2013	Dr. Navin Kumar

19	Segmentation of Images using histogram based FCM Clustering algorithm and spatial probability	IJAET, March 2013	Mrs.Meena kshi M.Devikar, Mr.Mahesh Kumar Jha
20	Triple Frequency Operated Microstrip Patch Antenna for communication in multibands	International Journal of Modern Communication Technologies & Research,ISSN:2321-0850,March-2013	Mrs. Laxmi Sharma
21	Stacked arrangement of microstrip patch antenna for improved performance”	AIP Conference Proceedings, Volume 1536, pp. 1268-1269 (March-2013)	Mrs. Laxmi Sharma
22	Text Watermarking using combined image and Text	IJERT, vol2, issue 12, Dec 2013	Dr. Ramesh Babu. K
23	Implementation of File Transfer Protocol for Transmission & Retrieval of compressed Image	International Journal of Science & Advanced Technology. Nov 2012	Dr.K.V.S. Anand Babu
24	Design and Verification Analysis of Avalon Interrupt Interface with Coverage Report	International Journal of Advances in Engineering and Technology, Vol. 2, Issue 1, pp. 485-492, Jan 2012.	Mahesh Kumar Jha
25	Coverage Analysis in Verification of Total Zero Decoder of H.264 CAVLD	International Journal of Advances in Engineering and Technology, Vol. 1, Issue 5, pp. 197-203, Nov 2011.	Mahesh Kumar Jha
26	Bow- tie Microstrip Antenna foer Wimax Application	IJT-ETA-ETS, Vol 4, issue 1, Jan 2011, pg 281-284	Mrs. Nisha S. Singh



**Paper presented in Workshops/ Seminars:**

Sl. No	Title of the Paper	Conference	Place	Date	Author
1	Review on Automated Irrigation System Using a WSN and GPRS Module	National Conference on advanced Communication, VLSI Design & Signal Processing NCCVS-15	KSEEM, Bangalore	Apr-29-2015	Mrs. Sujatha. S
2	Review on High Speed Visible Light Communication Local Area Network	National Conference on advanced Communication, VLSI Design & Signal Processing NCCVS-15	KSEEM, Bangalore	Apr-29-2015	Mrs. Sujatha. S
3	Review on optical wireless vehicle light communication using LED Transmitter and camera Receiver	National Conference on advanced Communication, VLSI Design & Signal Processing NCCVS-15	KSEEM, Bangalore	Apr-29-2015	Mrs. Sujatha. S
4	Coverage using virtual wires for Machine to Machine Communication	National Conference on advanced Communication, VLSI Design & Signal Processing NCCVS-15	KSEEM, Bangalore	Apr-29-2015	Mrs. Pooja Mohnani

5	PSO and its application- A Review	National Conference on advanced Communication, VLSI Design & Signal Processing NCCVS-15	KSEEM, Bangalore	Apr-29-2015	Mrs. Pooja Mohnani
6	Decoder and Pass Transistor based Digitally Controlled Linear Delay Element	International Conference on Advances in Computing, Communications and Informatics (ICACCI-2014)	Noida	Sep-24-27-2014	Mrs.Prachi Sharma
8	PAPR Reduction by modified SLM with DCT and IDCT technique in OFDM system for different Subcarriers.	ICCSET - 2014	Sriperumbudur	07,08 March 2014	Mrs. Sujatha
9	Study on Intercell Subcarrier Collision due to Random Access in OFDM based Cognitive Radio	ConferenceNC CVS – 2014	KSEEM, Bangalore	15-May-14	Mrs. Sujatha. S
10	An Efficient Spectrum Sharing Cellular User and ADHOC Devise to Device Single Hop Users	ConferenceNC CVS – 2014	KSEEM, Bangalore	15-May-14	Mrs. Sujatha. S

11	PAPR Reduction using Constant Modulus and IDCT in MIMO-OFDM Networks	3rd International Conference on Eco- Friendly Computing and Communication Systems	NIT, Suratkal	18-21 Dec-14	Mrs. Sujatha. S
12	Modelling of digitized discrete feedback loop with PIO compensator for book converter using MATLAB/SIMULINK	International Conference on Power Automation and Communication, INPAC-2014	Govt College of Engineering, Amaravati	06-08 Oct 2014	Mrs. Nisha Shailendra Singh
13	Digitized Feedback loop for performance Enhancement of DC-Dc Switching converter.	National Symposium on pervasive Computing (NSPC-13)	Sinhagad College of Engineering, Pune	15-16 March 2013	Mrs. Nisha Shailendra Singh
14	DSPIC based low cost and efficient digitized feedback loop for DC-DC converter	International Conference on recent advances in Electrical Engineering Power control, electronics and communication technology (EEPCECT-2014)	Krishi Sanskriti at Jawaharlal Nehru University	31 May-1st June 2014	Mrs. Nisha Shailendra Singh
15	Design and development of Non Data Aided Estimation Algorithm for Carrier Frequency	WOCN	BHOPAL	Jul-13	Dr.Navin Kumar

	Offset and I/Q Imbalancing in OFDM based Systems				
16	Carrier Frequency Offset with I/Q Imbalance Analysis of Fifth Generation Wi-Fi	ICACCI	MYSORE	22-25 Aug-13	Dr.Navin Kumar
17	Smart and Intelligent Energy Efficient Public Illumination System with Ubiquitous communication for smart city	ISSS	CHENNAI	28,29Mar-13	Dr.Navin Kumar
18	Visible Light Communication: Concept, Technology and System	WCNC	SHANGAI	7-10Apr-13	Dr.Navin Kumar
19	DTCWT based High Capacity Steganography using Coefficient Replacement and Adaptive Scaling	ICMV	LONDON	17,18 Nov-13	Ms.Priya. R
20	Review paper on Wireless Body Area Network for Mobile Computing Environment	National Conference on Recent Trends in Electronics and Communication	Dept of ECE,KSITB ANGALORE	30-Sep-13	Mrs. Pooja Mohnani
21	New Substantial Advance in	National Conference on Advance	JIET,Jaipur.	March,2013	Mrs. Laxmi Sharma

	Acoustic under Water Communication	Research in Engineering Technology & Applied Science			
22	Design of Microstrip Patch Antenna for Multiband Communication Purpose	National Conference on 'Emerging trends in Engineering & Applied Science'	RCEW, Jaipur	Dec-2013	Mrs. Laxmi Sharma

## Annexure II

### Project 2013-14

Sl. No.	USN	Student Name	Project Title	Organization guide	Internal Guide
1.	1CR10TE006 1CR10TE007 1CR10TE026 1CR10TE054	Anirudh Apeksha Harshil Pratiksha	Controller card interface using FPGA in electric propulsion system	ISRO Mrs. Sowbhagya Engineer 'SD'	Mrs. Soumya(ECE) Mrs. Dhanaselvi(ECE) Mrs. Shobha(TCE)
2.	1CR10TE035 1CR10TE072 1CR10TE088	Lakshmi Shibani Varshini	LTE Random access channel	TCS Mr. Venkat,	Mrs. K P Sharmila (ECE) Mrs. Pushpawati C (TCE)
3.	1CR10TE020 1CR10TE044 1CR10TE045	Dipty Sahitya Neha	Centralized LPG cylinders theft detection system with security alerts	Apsys solutions (project manager: ravi kumar)	Dr. K V S Anand Babu (TCE) Ms. Ashwini(ECE)
4.	1CR10TE001 1CR10TE046 1CR10TE061	Abhinav Nikhil Rahul	Controlling of a robot with the help of hand	Versatile Engineering	Mrs. Shruthi(TCE)

	1CR10TE109	Ajit	gestures using MATLAB Code.	Designs Labs Mr. Dileep,	Dr. Indumathi(ECE)
5.	1CR10TE050 1CR10TE025 1CR10TE052 1CR10TE004	Phaneendra Harish Pradeep Abhishek S	Light Fidelity Based Voice Communication and Device Control.	Magnum Technologies Mr. Rajkiran Singh	Mr. Mahesh Kumar Jha(TCE) Mrs. Aastha Agarwal(TCE)
6.	1CR10TE033 1CR10TE024 1CR10TE059 1CR10TE111	Kumar Govind Pusker Saurav	Implementation & performance analysis Of efficient wireless channels in WIMAX using image and speech transmission	VED Labs Mr. Hiren,	Mrs. Pooja Mohnani (TCE) Mr. KVS Anand Babu(TCE)
7.	1CR10TE010 1CR10TE042 1CR10TE058 1CR10TE074	Bkranthi Monisha Priyanka Shruthi	Wireless system for warning and safety in Aircraft structural testing	NAL Dr. Shiva Subha Rao Patanje Scientist G	Mrs. K P Sharmila (ECE) Mrs. Meena Priyadrshini (ECE)
8.	1CR10TE019 1CR10TE064 1CR10TE093 1CR11TE420	Dhivya Sandesh Vinay Vinayak	Design of fault tolerant back-to-back converter without redundancy	Ved Labs Mr. Hiren,	Mr. H N Shankar(ECE) Mr. Naveen Kumar(ECE) Mr. Abhishek(TCE)
9.	1CR10TE027 1CR10TE028 1CR10TE077 1CR10TE099	Charishm J Mariya Smita Lasya	Development of zigbee based real time data log systemfor MAV Application	NAL Mr. Shiva subba rao, scientist.	Mrs. Richa Tengshe(TCE) Mr. Mahesh Kumar Jha(TCE)
10.	1CR10TE037 1CR10TE048	Madhu Nirmala	Design of remote data monitoring and recording using ARM Processor (recording on SD Kit)	Vector Institute Chandra Mouli,	Mrs. Shilpa Uttarkar(TCE) Mrs. Dhanaselvi(ECE)
11.	1CR10TE009 1CR10TE038 1CR10TE031	Ashwini Mani Kader	Soldier tracking system using GPS & GSM Modem	Alphatac Technologies	Mrs. Pushpawati C (TCE) Ms. Shailee(ECE)

				Mr. Franklin,	
12	1CR10TE040 1CR10TE056 1CR10TE055	Maria T Priya Pritha	Estimation and detection of RADAR Objects	LRDE(DRD O) Yogesh,	Mrs.Pappa M (ECE) Dr.KVS Anand Babu (TCE)
13	1CR08TE042 1CR09TE007 1CR09TE001	Nikhil P Anurag Akhil	Advance security interface for vehicle CAN Protocol implementation for inter ECU Communication	CIT Labs Mr. Nishchith	Mrs.Sophiya Susan(TCE) Mrs.Dhanaselvi(ECE)
14	1CR09TE403 1CR09TE052 1CR10TE421	Jagadish Praveen Somashekhara M	A novel error tolerant method in AES for satellite images	GIPZONIC S Technologies Mr. Arun,	Mr. Harsha (ECE) Mr. Chethan(ECE) Mrs. Shilpa(TCE)
15	1CR10TE029 1CR10TE039 1CR10TE403 1CR10TE405	Jagadish Manoj Charan Dilip	Redtacton Based smart security card system for ATM Machines	Magnum Technologies Rajkiran Singh,	Anitha P (Tce) Kavitha (Ece)
16	1CR10TE014 1CR10TE023 1CR10TE070 1CR10TE073	Chethan Gangadhar Shalmali Shruthi	Automatic detection and tracking of object using video surveillance in complex environment like occlusion	VED LABS Mr. Dileep	Shobha R (TCE) Sunil Kumar (ECE)
17	1CR10TE012 1CR11TE421 1CR11TE401	Basavaraj Vinayak Anthony Rakesh	Shadow detection and reconstruction of VHR images	ACSsolution s Mr.Kiran	Meenakshi Devikar (TCE) Aastha Agarwal (TCE)
18	1CR09TE010 1CR10TE051	Arshiya Pinakshi	Universal bus communication	MELTRONICS SYSTEMTECH	Mahesh Kumar Jha (TCE) Sridevi (ECE)

				Mr. Elavarasan	
19	1CR10TE057 1CR10TE090 1CR10TE080	Priya Vijayalakshmi Sridhya	Smart helmet	MAGNUM Technologies Mr. Singh	Sophiya Susan (TCE) Sharan Basappa (ECE)
20	1CR10TE069 1CR10TE097	Shakthi Vishrutha	Ordered statistics constant false alarm rate (OS-CFAR) detection for radar receiver.	DRDO(LRDE) Badarinath Scientist	Pappa M (TCE) Naveen (Ece)
21	1CR10TE083 1CR10TE084 1CR10TE096	Sushmitha Swathi Vinutha	Simulation of image focusing techniques for ground penetrating radar	LRDE Mr. Srikant Sharma	K V S Anand Babu (TCE) Chethan (ECE)
22	1CR10TE086 1CR10TE068 1CR10TE076	Abhinav Savvy Siddhant	Serial communication between display and processor of a Radar	CMC.ltd Mrs. Usha Rani,	Abhishek Javali (TCE) Arithri (ECE)
23	1CR10TE062 1CR10TE087 1CR10TE082 1CR10TE066	Rashmi Vaibhavan Santosh	Identification and recognition of a ship at sea	LRDE Mrs. Mohana Kumari,	Ramesh (ECE) Priya R (TCE) Menakshi(TCE)
24	1CR10TE098 1CR10TE103 1CR10TE018 1CR10TE060	Vishwash Fredrick Dhiraj Radhika	Digital fuel indicator with petrol level detection using GSM Mobile and automatic signaling system using RF transmitter and receiver	IGS Lab Mr. Sidhu,	K P Sharmila (ECE)
25	1CR11TE402 1CR11TE406 1CR11TE418	Arun CHETHAN	Wireless heart beat monitoring system	ACS Solution Mr. Suresh,	H.N. Shankar (EEE) Raveesh Hegde (TCE)



		SUNIL G			
26	1CR09TE414 1CR10TE420 1CR09TE069	Richard Shivkumar Vignesh	RADAR automation and waveforms	LRDE Mr. Rajesh Kumar Jain, Scientist	Pushpawati Changlekar (TCE) Pappa M (ECE)
27	1CR10TE043 1CR10TE065 1CR10TE085 1CR10TE041	N Charan Sanketh Ullas Mohammed	Design and Integration of Sensor Suit with Dual Core Omap Based Mav Autopilot Controller	National Aerospace Laboratories . (Nal-Csir) Ananda C.M (Guide)	Kavitha (ECE) Ramesh (ECE) Richa Tenghe (TCE)
28	1CR10TE017 1CR10TE091	Deepthi SR Vimal	Design of local oscillator for coherent TT&C receivers	ISRO Devdas Shenoy	Sujatha (TCE) Meenapriyadarshini (ECE)
29	1CR10TE022 1CR10TE032	Sudarshan Kavya	Long term Evolution (LTE) uplink control channel PUCCH (Decoding and performance analysis)	Tata Consultancy Services Guide: Mr. Venkat, Technical lead manager	K P Sharmila (ECE) Sharnbasappa (ECE)
30	1CR11TE413 1CR11TE414	Rajesh Ravikumar	A field watcher farmer friend GSM based using Microcontroller-89C52	Sarga Institute Mr. Vijay	Richa Tengshe (TCE) Archana (ECE)

**PROJECT 2014-2015**

Sl.No.	Student Name	USN	Project title	Guide/Co-Guide	Organization
1	Barghava. R.S	1CR11TE017	Real-time dwell scheduling using Batch TC algorithm for MFR	Dr.K.V.S.AnandaBabu Naveenkumar (ECE),Rahul(TCE)	DRDO
	Chaitra Chavan. D	1CR11TE019			
	Neethu.G S	1CR11TE048			
2	Nisha Kumari	1CR11TE052	Test jig for CH/CK helicopter Indicators	Mrs. Pooja,Ms. Nagaratna(ECE)	HAL
	Ranjini. R	1CR11TE062			
	Preeti Gautam	1CR11TE056			
3	Nikith. N	1CR11TE050	Design of CIC filter with a compensation filter.	Mrs. Anita,Mrs. Alka(TCE), Mr. Vinay(ECE)	ISRO
	Nethravathi.S	1CR11TE049			
	Karthik. R	1CR12TE404			
	Jeevitha. B	1CR11TE031			
4	Shivabala Kumar	1CR11TE077	Automation of spacecraft integration test station	Mrs. Shruthi,Dr. K.V.S. Mrs.Suganya (ECE),Mrs.Poornima(ECE)	ISRO
	Abhishek D.	1CR11TE003			
	Siddanna	1CR11TE080			
5	Yeshwanth Kumar. R	1CR11TE103	Design and Development of data acquisition system for a starter unit of an aero engine	Mrs.Richa, Mrs.Jyothi(ECE), Mrs.Sharmila. K.P(TCE)	HAL
	Sahana R.	1CR11TE072			
	Sahana T.R.	1CR11TE073			
	Supreeth R.	1CR11TE094			
6	Shwetha.K	1CR11TE079	Airbourne Surveillance of Signals	Ms.Priya, Dr.HN.Shankar(EEE), Dr.Ananda Babu(TCE)	DRDO
	Vasudha A.B.	1CR11TE101			
	Swathi N.	1CR11TE095			
7	Violanta Fernandes	1CR11TE102	FPGA based telecommu	Mrs. Sharmila.K., Mrs.Kavitha(ECE),	DRDO
	S.Sujatha	1CR11TE069			
	R. Ganga	1CR11TE061			

	Stany Vinay	1CR11TE088	nication test card	Mr.Mahesh(ECE)	
8	Spoorthi	1CR11TE086	Wide Band Waveform generation for coastal surveillance Radar	Dr.K.V.S.AnandaBabu, Mr.Pradeep(ECE), Mrs.Pragya(ECE)	DRDO
	Sonia Salaria	1CR11TE083			
9	Upasana Menon	1CR11TE099	GPS Re-Transmission System	Mrs.Shramila.K.P, Ms.Nagaratna (ECE), Ms.Jasmine(ECE)	DRDO
	Amrita Chatterjee	1CR11TE007			
10	Safari Basimike	1CR11TE070	Video Surveillance System for Remote Monitoring	Mrs.Pappa.M, Mrs.Indhumathi(ECE), Mrs.Kavitha(ECE)	BOSCH
	Sharma Abhishek	1CR11TE075			
	Sanjay Jayadev	1CR11TE074			
	Siddharth Mohandas	1CR11TE081			

**PROJECT 2015-2016**

#	USN	Name	Title	Guide 1	Guide 2	Guide 3
1	1CR12TE048 1CR12TE031 1CR12TE015 1CR12TE021	KIRAN L. DHEERAJ C. ARJUN RAJ BHARGAVI S.KAUNDIN YA	Fire Fighting System with SWARM Intelligence.	Pappa M.	Abhilasha Saxena	Dr. HNS

2	1CR12TE030 1CR12TE014 1CR12TE011 1CR12TE037	DASARI RISHITA ARCHITA RAI ANUSHA M. GREESHMA M.PUJARI	FPGA based COSTAS Loop for PSK Demodulator.	Ravee sh Hegde	Rahul N.	Aritri
3	1CR12TE012 1CR12TE036 1CR12TE043	ANUSHA V. GEETHA B. KALPITHA T.A.	Design and Simulation of RF Windows for Helix Travelling Wavetubes.	Abhis hek Javali	Ninni Krishna	Suganya J.
4	1CR12TE033 1CR12TE008 1CR12TE044 1CR11TE067	DIVYA H.R. ANITA MAHATO KARISHMA RUMELA CHOUDHUR Y	Comparison of the Undersea Cable Networks with the Global Shipping Networks.	Dr.Su dhir K.Rou tray	Sharmil a K.P.	Jyothi M.R.

5	1CR12TE013 1CR12TE046	ARCHANA K. KEERTHI GOPALAKRISHNA N	Design and Development of Algorithms for RADAR Pulse Compression using LFM and Signal Retrieval using Digital Receiver and Pulse Compression Techniques.	Richa Tengshe	Ninni Krishna	Laxmi Sharma
6	1CR12TE049 1CR12TE045 1CR12TE052	KRISHNA KAVYA M.C. HEMALATHA M.	On board EMI detector	Mahesh K.Jha	Suganya S.	Surya
7	1CR12TE026 1CR12TE105 1CR12TE091 1CR12TE027	DARSHAN H.R. VISHNUPRIYA P.R. SRUTI SHRIKANT HEGADE DARSHAN SHEKHAR NAIK	DC power Distribution system testing	Sharmila K.P.	HNS	Surya

8	1CR12TE003 1CR12TE007 1CR12TE103	ABHIJEET SINGH ALISHA SANJEEV VIVEK VIVIAN GOVARDHAN	Robotic Rover	Pallavi	Abhilasha Saxena	Manavalan
9	1CR12TE024 1CR12TE067 1CR12TE065	CHETHAN KUMAR S. POOJA A.V. NITHIKA T.	Channel Coding (LDPC).	Rahul N.	Sumit	Harsha
10	1CR12TE022 1CR12TE081 1CR12TE085 1CR12TE082	BHAVINI PUROHIT SAGORIKA T.SAMANTHA SANDHYA S. SAKSHI RANJAN	FMCW RADAR for Detecting Human Body in a Wet Snow Pack.	Abhishek Javali	Dr K.V.S.	Aritri
11	1CR12TE035 1CR12TE004 1CR12TE016	G.S.NITIN ABHILASH KUMAR SINGH ARKA PRATIM DEY	Development of Electronic Warfare Signal Design Module	Saranya	Binish Fatima	Aritri
12	1CR12TE032 1CR12TE010 1CR12TE041 1CR08TE021	DIVYA D. BHAT ANUSHA G.A. JAYALAKSHMI A. DILIP B.S	Development of test kit to simulate flight conditions on ground	Dr. K.V.S.	Srinivasan (CSE)	Sridevi

13	1CR12TE018 1CR12TE038 1CR12TE053 1CR12TE001	ASHWIN RONALD HARSHADEVA P. MADAN U. A.L. VINAY	Statistical Analysis and Modelling for the link lengths in Airline Networks	Dr. Sudhir K.Rou tray	Vidya	Raveesh
14	1CR11TE011 1CR11TE068 1CR11TE023 1CR12TE006	ARJU UTPAL S.FAIZANUL HAQUE DEVASHRUT ABHISHEK KUMAR	Artificial Neural Network based Gesture Recognition for Elderly Health Care Using Kinect Sensor	Shilpa	Ammu	RM
15	1CR11TE091 1CR11TE087 1CR11TE410	SUMAN R. SRI SAI SUHAAS G. MALASHREE	Automatic painting Robot	Richa Tengs he	Abhila ha Saxena	Bhumika
16	1CR12TE058	MISSBA A.D.	Stepped FM Techniques for an Active Electronically Scanned Array (AESA) based Synthetic Aperture RADAR.	Dr. K.V.S.	Binish Fatima	Sutapa
	1CR12TE073	PRITHVI L.T.				

17	1CR12TE061 1CR12TE094 1CR12TE071 1CR12TE076	NANIAH M.K. NITHYANANTHA N T.S. PRAVEEN VENKAT RAJESH UPADHYAYA	An Efficient Automated Computer Aided Diagnosis System for Brain Tumour Segmentation and Classification using MRI Hispathological Image	Priya R.	Ammu	Dr.H.N.S.
18	1CR12TE104 1CR12TE103	VISHAL N. VIJAY S.	Rash Driving Monitor.	Shilpa	Ammu	Vidya
19	1CR12TE080 1CR12TE098 1CR12TE077 1CR13TE408	S. GOWTHAMI TRISHITA M. RAKSHANDA SAI KUMAR	Design and Development of Compact High Performance Planar Microwave Filter for Satellite Receiver Front End Application.	Abhishek Javali	Sutapa	Suganya J.
20	1CR12TE057 1CR12TE055 1CR12TE087 1CR12TE063	MAYUR MANISH K. YADAV SARANYA NIRANJAN KUMAR	Extracting Statistical Models for Railway Transport Networks	Dr Sudhir K.Routray	Sujatha	RM



21	1CR12TE056 1CR12TE072 1CR12TE074	MANOJ A. PRAVEEN S. RAGHAVENDRA S.	Automatic ration distribution system.	Chetan	Shweta Sharma	Sudatta
22	1CR12TE411 1CR12TE093 1CR12TE047 1CR11TE059	RENNY MATHEW SRIKANTHA D.N. KEERTHI PRITI	Statistical Analysis and Modelling of Honeybee Foraging Network	Pappa M.	Vidya	Sharmila K.P.
23	1CR12TE092 1CR12TE099 1CR12TE090	SOUNDARYA V.N. URISHA NANAIAH SHRIYANSHI RAJ	Implementation of HEVC Intro 4X4 prediction on FPGA	Dr.K. V.S.	Archana	Mahesh V.
24	1CR12TE054 1CR12TE097 1CR12TE079 1CR12TE086	MAHESH CHANDAN P.R THRILOK. Y ROSHAN P. SANTHOSH K.	The effect of graduated response anti- piracy screen	Ravee sh	Archana	Rahul N.
25	1CR12TE070 1CR12TE066 1CR12TE089	PRATHAP K.S. P. DHIRISH SHRAVAN KUMAR K	Automation of Test Bench Procedure and User Interface Development using LABVIEW	Meena kshi	Shailee	Akshay

## Mechanical Engineering

1. **Name of the Department:** Mechanical Engineering (ME)
2. **Year of Establishment:** 2009
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., PH.D., Integrated masters; Integrated Ph.D., etc.):**

Programme	Course	Affiliated University	Year of Establishment	Initial Intake	Present Intake
UG	Mechanical Engineering	Visvesvaraya Technological University (VTU), Belgaum, Karnataka	2009	60	120
M.Tech	Machine Design		2013	18	18

4. **Names of the Interdisciplinary courses and Departments/units involved:**

Semester	Name of the Course / Subject	Departments Involved
III	Engg. Mathematics - III	Basic Science and Humanities
IV	Engg. Mathematics - IV	Basic Science and Humanities

5. **Annual/ Semester/ Choice based credit system (Program wise):**

Semester Wise System

6. **Participation of the department in the courses offered by other departments:**

Sl. No.	Semester	Subjects handled	Department	Subject Code
1	I / II	Computer Aided Engineering Drawing	Basic Science and Humanities	14CED14/24
2	I / II	Elements of Mechanical Engineering	Basic Science and Humanities	14EME14/24

**7. Courses in collaboration with other universities/ industries/ foreign institutions, etc:**

Sl. No.	Courses	Industry
1	Composite Materials and FEA analysis	Enlivening Technologies
2	FEA analysis of rolling elements bearing and condition monitoring	SKF

**8. Details of courses / programmes discontinued (if any) with reasons: NIL**

**9. Number of teaching posts: TOTAL**

	Sanctioned	Filled
Professor	4	2
Associate Professors	7	7
Asst. Professors	25	25

**10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. Etc.):**

Sl. No.	Name	Qualification	Designation	Specialization	No. of years of Experience	No. of PhD students guided for the last 4 years
1	Dr. Vijayananda Kaup	B.E, M.Sc (Engg), Ph.D	Professor & HOD	Kinematics Synthesis	24	02
2	Dr. Prakash Jadav	M.Tech, Ph.D	Professor	Mechanical		
3	Dr. Ananda B K	M.Tech, Ph.D	Professor	Fluid Mechanics	22	02
4	Dr. Bijayani Panda	M.Tech, Ph.D	Associate Professor	Material Science	05	
5	Mr. Rajendra Prasad Reddy	M.E, (Ph.D)	Associate Professor	Machine Design	30	
6	Mr. S. Gopi	M.Tech, (Ph.D)	Associate Professor	Engineering Management	16	
7	Mr. Srinivas Reddy	M.Tech, (Ph.D)	Associate Professor	Computer Integrated Manufacturing	06	

8	Mr. Harish P	M.E	Associate Professor	Manufacturing Science & Engg.	06	
9	Mr. Puneeth Kumar N	M.Tech	Associate Professor	Product Design & Manufacturing	06	
10	Dr Harish Babu	M.Tech, Ph.D	Assistant Professor	Fluid Mechanics and Thermal Sciences	01	
11	Mr. Venkatesh Naik	M.Tech	Assistant Professor	Mechatronics	05	
12	Mr. Sagar M Baligheid	M.Tech, (Ph.D)	Assistant Professor	Rapid Prototyping	05	
13	Mr. Narendra.N	M.Tech, (Ph.D)	Assistant Professor	Thermal Power Engineering	05	
14	Ms. Smruthi.R S	M.Tech	Assistant Professor	CAD/CAM	04	
15	Mr. Prashant Hatti	M.Tech	Assistant Professor	Design Engineering	04	
16	Mr. ChandanK. R	M.Tech	Assistant Professor	Industrial Automation & Robotics	03	
17	Mr. Dinesh.R	M.Tech	Assistant Professor	Tool Engineering	01	
18	Mr. Joseph Sajan	M.Tech	Assistant Professor	Thermal Power Engineering	02	
19	Mr. Shreyas.P	M.Tech	Assistant Professor	Material Science	01	
20	Mr.Amit S Kumar	M.Tech	Assistant Professor	Machine Design	01	
21	Mr. Trishul M.A	M.Tech	Assistant Professor	Material Science & Metallurgy	01	
22	Mr. Infant Cyril.S	M.Tech	Assistant Professor	Manufacturing Design	03	
23	Mr. Vinay M N	M.Tech	Assistant Professor	Product Design and Manufacturing	5	
24	Mr. H Manikandan	M.Tech	Assistant Professor	Computer Integrated Manufacturing	6	
25	Mr. Mistry Divyesh Arjun Bhai	M.Tech	Assistant Professor	Mechanical System Design	0.5	
26	Mr. Jitender Chaurasia	M.Tech	Assistant Professor	Manufacturing Engineering	0.5	
27	Mr. Akhil C	M.Tech	Assistant Professor	Manufacturing Engineering	1	

28	Mr. Vijeesh M V	M.Tech	Assistant Professor	Manufacturing systems management	2	
29	Mr Shivram A C	M.Tech	Assistant Professor	Mechanical	1	
30	Mr. Bhaskar.M	M.Tech	Assistant Professor	Manufacturing Engineering	2	
31	Mr. Suresh Nair P	M.Tech	Assistant Professor	CAD/CAM		
32	Mr. Nagaraj.B.D	M.Tech	Assistant Professor	Machine Design		
33	Mr. Arjuna.N	M.Tech	Assistant Professor	Machine Design		
34	Mr. ChethanBabu	M.Tech	Assistant Professor	Machine Design		
35	Mr. Mahesh Muttigi	M.Tech	Assistant Professor	Machine Design		
36	Mr. Praveen.P.S	M.Tech	Assistant Professor	Machine Design		

**11. List of senior visiting faculty:**NIL

**12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty:**All classes are held by regular faculty members.

**13. Student – Teacher Ratio (Programme wise):**  
**Under Graduate (B.E)**

Year	Sanctioned Intake	No of Faculty	Student Teacher Ratio
2015-2016	360	24	15:1
2014-2015	300	20	15:1
2013-2014	240	16	15:1
2012-2013	180	12	15:1
2011-2012	120	8	15:1

**Post Graduate (M.Tech)**

Year	Sanctioned Intake	No of Faculty	Student Teacher Ratio
2015-2016	36	3	12:1
2014-2015	36	3	12:1

2013-2014	18	2	12:1
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**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

**ANNEXURE 1.A.**

Academic Support Staff	Sanctioned	Filled
Office Executive	01	01
Foreman	01	01
Lab Instructors	07	07

**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:**

Sl. No.	Qualification	No. of Faculty
1	Ph.D	03
2	Pursuing Ph.D	12
3	PG	21

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**

Sl. No.	Title	Principal Investigator	Funding Agency	Sanction (Yes/No)	Year of Sanction	Status
1	Dismantable Houses- En Engineering Solution for Indian Poor	Mr. Joseph Sajan	KSCST	YES	2015	Completed
2	Effect of various parameters on the liquid metal embrittlement of stainless steel	Dr. Bijayani Panda	DST project- young scientist scheme Ref. No. 192015001860	YES	2015	Ongoing

**17. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc. and total grants received:**

Sl. No.	Granting Agency	Year of Sanction	Grant Amount	Duration	Title of Research / Project
1	KSCST	2015	Rs.4000	1 Year	Dismantable Houses- En Engineering Solution for Indian Poor
2	DST	2015	18.85 Lakhs	3 Years	Effect of various parameters on the liquid metal embrittlement of stainless steel

**18. Research Center/ facility recognized by the University:**

Research Center	Sanctioned Year and letter	Name of Supervisor	Research area of Supervisor	No. of Students under each Supervisor
R&D Centre recognized by Visvesvaraya Technological University, Belgaum, Karnataka	2015	Dr. VijayanandKaup	Theoretical Kinematics	3
		Dr. Bijayani Panda	Failure analysis, Corrosion, Alloy development and Welding	4
		Dr. Ananda.B.k	Fluid Mechanics	

**19. Publications**

\* a) Publication per faculty

**ANNEXURE 1.B**

Sl. No.	Name	Number of publications					
		2016	2015	2014	2013	2012	2011
1	Abhinav T	NIL	01	NIL	NIL	NIL	NIL
2	Dr. Bijayani Panda	NIL	NIL	01	01	NIL	01

3	H S Manohar	NIL	NIL	NIL	NIL	01	NIL
4	Dr. N Krishnamurthy	NIL	NIL	NIL	NIL	01	NIL
5	S Prakrathi	NIL	01	01	2	01	NIL
6	Dr. S V Prakash	NIL	02	01	2	NIL	NIL
7	Sagar M B	04	NIL	02	NIL	NIL	NIL
8	Shreyas P	NIL	3	03	NIL	NIL	NIL
9	Dr. Solaimuthu C	NIL	04	07	04	02	NIL
10	Dr. VijayanandKaup	NIL	02	02	NIL	NIL	NIL
11	Trishul.M.A	Nil	06	NIL	NIL	NIL	NIL
12	Jitender Kumar Chaurasia	03	-	-	-	-	-
<b>Total:</b>		<b>07</b>	<b>13</b>	<b>17</b>	<b>9</b>	<b>5</b>	<b>1</b>

\* As on 1<sup>st</sup> Feb 2017

**\* Number of papers published in peer reviewed journals (national / international) by faculty and students:**

No. of publications					
2016	2015	2014	2013	2012	2011
07	13	17	9	5	1

\* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):

\* Monographs:

Sl. No	Name of the Authors	Name of the Title	Name of the Publications	Volume, Issue, Page Number and ISSN	Year
1	Dr. VijayanandaKaup	An Atlas of 12-Link, 1-Freedom Simple Jointed Kinematic Chains and Mechanisms	International Journal of Research and Scientific Innovation	Vol:2, Issue 6, PP. 17-31	2015



2	Dr. VijayanandaKaup	Structural Synthesis and Analysis of 12-Link, 3-Freedom Simple Jointed Kinematic Chains	European Journal of Advances in Engineering and Technology	Accepted (Awaiting)	2015
3	Dr. VijayanandaKaup	Characteristic Polynomial for Detecting Isomorphism among 12-Link, 1-Freedom Simple Jointed Kinematic Chains (SJKCs)	European Journal of Advances in Engineering and Technology	Vol 2, pp. 32-37	2015

\* Chapter in Books: NIL

\* Books Edited: NIL

\* **Books with ISBN/ISSN numbers with details of publishers:**

Sl. No.	Name	Title	Publisher	ISBN / ISSN	Year of Publication
1	Mr. Sagar M B	Manufacturing Process-I	Sunstar	978938515568	2015
2	Mr. Sagar M B	Elements of Mechanical Engineering	Sunstar	1259874512654	2014
3	Dr. N Krishnamurthy	Heat and Mass Transfer	Sunstar	9780000347886	2014
4	Mr. H S Manohar	Finite Element Analysis	Sunstar	9780000361524	2013

\* **Citation Index:**

Sl. No.	Faculty Name	Citation Index
1	Dr. Bijayani Panda	64
2	Dr. SolaiMuthu	25
3	Ms. Prakrathi	04

\* SNIP: Nil

\* SJR: Nil

\* **Impact factor:**

Sl. No.	Faculty Name	Impact Factor Range
1	Dr. S.V.Prakash	2.114-8.829
2	Dr. Bijayani Panda	0.831-4.42
3	Dr. ViyanandKaup	0.709-1.214
4	Dr. SolaiMuthu	0.132-5.597
5	Ms. Prakrathi	0.615
6	Mr. Shreyas.P	2-6.74
7	Mr. Sagar M.B	0.8-2.01
8	Mr. Trishul	2 – 6.74
9	Mr. Abhinav.T	4.16

\* **h-index:**

Sl. No.	Faculty Name	h-index
1	Dr. Bijayani Panda	4
2	Dr. SolaiMuthu	3
3	Ms. Prakrathi	2

## 20. Areas of consultancy and income generated:

Sl. No.	Faculty Name	Company	Area(s) of Consultancy	Amount	Year
1	Dr. KrishnaraoDhuri	General Electric	Research	375000	IN Progress

## 21. Faculty as members in

a) National Committees  
 b) International Committees  
 c) Editorial Boards...

Sl. No.	Faculty Name	Name of the Committee /	Name of Organization/Universit	Type of Membership
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		<b>Editorial Boards</b>	<b>y</b>	
1	Dr. S V Prakash	The International Multi-Conference on Engineering and Technology Innovation, USA	IMETI	Reviewer

## 22. Student projects:

- a) Percentage of students who have done in-house projects including inter-departmental/Programme

### Under Graduate (B.E)

Sl. No.	Academic Year	Percentage In house
1	2015-2016	79.41
2	2014-2015	77.46
3	2013-2014	34.92
4	2012-2013	44.06

### Post Graduate (M.Tech)

Sl. No.	Academic Year	Percentage In house
1	2015-2016	14.28
2	2014-2015	45.45

- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies:

### Under Graduate (B.E)

Sl. No.	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
1	2015-2016	20.59
2	2014-2015	22.53
3	2013-2014	65.07

4	2012-2013	55.93
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### Post Graduate (M.Tech)

Sl. No.	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
1	2015-2016	85.72
2	2014-2015	54.54

### 23. Awards/ recognitions received by faculty and students:

#### Achievements of faculty

Sl. No.	Name of Faculty	Name of the Award	Name of Agency	Year
1	Mechanical Faculty Team	Won 1 <sup>st</sup> Prize in Volleyball	CMRIT	2015
2	Shahara Mohamed	Won 1 <sup>st</sup> Prize in Chess	T. John Institute of Technology	2014
3	Mechanical Faculty Team	Won 1 <sup>st</sup> Prize in Volleyball	CMRIT	2012

#### Achievements of Students

The awards received by students at state/national level are mentioned in the table below

Sl. No.	Name of the Student	Name of the Award	Name of Agency	Year
1	a) Vishwanath Pallad b) Suheel Ahmed c) Yogeesh d) Shivarajkumar	Won 2 <sup>nd</sup> prize for the project bearing the title "Design and development of cotton harvesting machine" at SHRISTI-2016	Akhila Bharatha Vidarthi Parishath (ABVP)	2016
2	a) Vishwas B S b) Siddarth Ravi c) Sanjiv T	Won 2 <sup>nd</sup> Prize in SHRISTI-16 under Mini Project	Akhila Bharatha Vidarthi Parishath (ABVP)	2016

	d) UdayAnanth	bearing the title “REGENERATIVE BRAKING SYSTEM”		
3	a) Lohith V, b) Manjunath Y M, c) Jayanth P, d) Burhan Kapadia	Secured consolation prize in National Level Project Exhibition bearing title “DEVELOPMENT OF 3D PROTOTYPING MACHINE FOR POLYMER PARTS”	MVJCE	2016
4	a) Lohith V, b) Manjunath Y M, c) Jayanth P, d) Burhan Kapadia	Secured consolation prize in National Level Project Exhibition bearing title “DEVELOPMENT OF 3D PROTOTYPING MACHINE FOR POLYMER PARTS”	Alpha college of engineering, Bangalore	2016
5	a) Akhil M S b) Adarsh M c) Amar Sale d) Anisha S A	Participated in center of excellence inauguration for IoT bearing title “DEVELOPMENT OF DLP 3D PRINTER MACHINE FOR LIQUID PHOTO-ACTIVATED RESIN.”	NASSCOM	2016
6	a) Akhil M S b) Adarsh M c) Amar Sale d) Anisha S A	Participated in center of excellence inauguration for IoT bearing title “DEVELOPMENT OF DLP 3D PRINTER MACHINE FOR LIQUID PHOTO-	ZANAITH	2016

		ACTIVATED RESIN.”		
7	a)Lohith V b) Manjunath Y M c) Jayanth P d) Nirupa S B	Won 1 <sup>st</sup> prize for the project bearing the title “Design and development of 4-bar flapping wing MAV” at SHRISTI-2015	AkhilaBharathaVidyarthiParishath (ABVP)	2015
8	a)Karan Acharya b)KapilSastry c)Ajay Sheelavant d)Jeswin Daniel (As a part of Theatre Club of CMRIT)	Won Zonal Runner-up award for MIME event	V-FEST (Channel-V)	2014

### Sports Achievements

Sl. No.	Name of the Student	Name of the Award	Name of Agency	Year
1	a) Rajath. K.R b) Birendra Kumar Sahu c) Akhil.V. Nair	As a part of Basketball Team won 2 <sup>nd</sup> place in State Level Tournament	REVA university	2014
2	d) Ravindra Saharan e) AbhilashBennet. M	As a part of Basketball Team won 2 <sup>nd</sup> place in State Level Tournament	RNSIT	2014
3	AkshayPatil	As a part of Cricket team were SEMI-Finalist in VTU Inter Collegiate Tournament	VTU	2015
4		As a part of Cricket team secured 2 <sup>nd</sup> place in State Level Inter Collegiate Tournament	UVCE	2015
5		As a part of Cricket team secured 3 <sup>rd</sup> place in State level MS Ramaiah Memorial Tournament	MSRIT	2015
6		As a part of Cricket team were Quarter-Finalist in Chamaraju Memorial State level Tournament	CHAMARAJU MEMORIAL FOUNDATION	2015
7	a) Vipin Raj b) R. Raj Kumar c) Tarun Mittal	As a part of Football team secured 2 <sup>nd</sup> place in State level intercollegiate	SLAES DE FRANCIS	2014

	d) JayakrishnanA.K e) Christy Joseph	Tournament in Slaes De Francis Tournament		
8		As a part of Football team were SEMI-Finalist in VTU Inter Collegiate Tournament	VTU	2015
9	a) Ravi Kumar b) Rakshith. J c) Vishal. S.B d) Madhan.N e) J. Avinash f) Muazz Abdul Hadi	As a part of Hockey team participated in VTU Inter Collegiate Tournament	VTU	2015
10	a) Muruli b) Anil Raj.N	As a part of Volleyball team were SEMI-Finalist in VTU Inter Collegiate Tournament	VTU	2015
11	c) Vikas d) Arjun. M.N	As a part of Volleyball team were SEMI-Finalist in State Level Inter Collegiate Tournament	New Horizon College of Engineering	2015

#### 24. List of eminent academicians and scientists/ visitors to the department:

Sl. No.	Name of Academicians/ Scientists / Visitors	Name of Company	Title
1	Dr. Suresh MVJ	Senior Engineer, John F Welch Technology Centre (JFWTC), GE-India, Bangalore	Power and Water
2	Mr. B K Venkatramu	Associate Director, Liquid Propulsion System Centre(LPSC), ISRO	Indian Space Program an Overview
3	Mr. Santhosh MS	Manager, Drive & Control Academy, Rexroth Bosch Group, Bangalore	Challenges and Opportunities in Pneumatics and Hydraulics
4	Mr. KiranHebbar	Consultant at Akar Training, Bangalore	Career Opportunities for Mechanical Engineers
5	Mr. Amardeep Singh	Product Design Consultant at Fourth Master Designs, Bangalore	Product Design and MEP
6	Mr. Ravi Jangir	Co-founder at Jangir Designs & Analytics LLP	Challenges and Opportunities in Vehicle Dynamics for Mechanical

			Engineers
7	Dr. S K Bhaumik	Scientist G, Material science division, National aerospace laboratories(NAL), Bangalore	Engineering Failure Analysis
8	Dr. P SampathKumaran	Former joint director, Material Tech Division, CPRI, Bangalore	Residual Stresses on Engineering Components
9	Dr. C.S. Suresh	Professor, Department of Mechanical Engineering, PESIT, Bangalore	Recent Advances in Tribology
10	Mr. Deepak Raj K	Co-founder & Director @df3D	3D Printing
11	Mr. C. R. Balaji	An Entrepreneur & Healthcare sector consultant, Bangalore	About Ideas and Innovation, Do we need them?
12	Dr. V. P. Raghupathy	Professor, Department of Mechanical Engineering, PESIT, Bangalore	Advanced Joining Processes
13	Dr. P. G. Mukunda	Former Professor, Material Science and Metallurgy Department, IIT Kharagpur	Materials in Mechanical Engineering
14	Dr. K Venkateswaralu	Principal Scientist, NAL, Bangalore	Advanced Materials for Aerospace Applications
15	Mr. MahadevaNagaral	Design Engineer, Aircraft Research and Design Centre (ARDC), HAL	Design, Selection Of Materials, Processing And Testing
16	Dr. Krishna Lok Singh	Senior scientist, NAL	Finite Element Analysis for Fatigue and Fracture Mechanics Problems
17	Dr. KhemrajEmrith	Lecturer in Engineering, Centre for Machine Vision, Bristol Robotics Lab, University of the West of England, Bristol, United Kingdom	Bringing Machine Vision to Life
18	Dr. BijaySultanian	Founder & Managing Member of Takaniki Communications	Computational Fluid Dynamics



## 25. Seminars/ Conferences/ Workshops organized and the source of funding:

### a) National

Sl. No.	Title	Organizer	Year	No. of Participants	Resource Person/s	Funding Agency
1	Workshop on composite structure	CMRIT, Mech Dept.	March 2016	30	Swaroop Bylahally	CMRIT, Bangalore
2	Computational fluid dynamics workshop	CMRIT, Mech Dept.	Jan 2016	68	Dr. Bijay Sultanian	CMRIT, Bangalore
3	BLUEBOTZ	CMRIT, Mech Dept.	May, 2015	40 Teams	Vamsi G Krishna	CMRIT, Bangalore
4	Introduction to Scientific Programming using MATLAB	CMRIT, Mech Dept.	Jan 2015	30	Dr Krishna Rao Dhuri	CMRIT, Bangalore
5	FDP on Skill up-gradation for CAED	CMRIT Mech Dept.	July 2014	10	Rajendra Prasad	CMRIT, Bangalore
6	National seminar on Finite Element Method and its Applications	CMRIT, Mech Dept.	Nov 2012	30	Prof. P. Shesha	CMRIT, Bangalore
7	Workshop on Robotics	CMRIT, Mech Dept.	April 2011	250	Hritesh Shah, Mumbai	CMRIT, Bangalore

### b) International: NIL

## 26. Student Profile programme /course wise:

Name of the Course/Program	Academic Year	Applications Received	Selected	Enrolled		Pass percentage
				*M	*F	
B.E/Mechanical	2015-2016	120	111	106	5	
	2014-2015	120	108	107	1	
	2013-2014	130	117	116	1	

M.Tech/ Machine Design	2012-2013	130	125	122	3	97.63%
	2011-2012	80	63	63	0	89%
	2015-2016	20	13	13	-	-
	2014-2015	20	14	12	2	100%
	2013-2014	21	14	13	1	100%

\*M = Male \*F = Female

### 27. Diversity of students:

Name of the Course	Academic Year	% of students from the same state	% of students from other States	% of students from abroad
B.E/Mechanical	2016-2017	64.21	35.79	0
	2015-2016	74.77	24.34	0.90
	2014-2015	64.81	34.25	0.92
	2013-2014	70.94	27.35	1.71
	2012-2013	63.2	36.8	1.6
	2011-2012	65.07	33.33	1.59
M.Tech/ Machine Design	2015-2016	100	0	0
	2014-2015	100	0	0
	2013-2014	100	0	0

### 28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?

Sl. No.	Year	Type of exam (NET, SLET, GATE, Civil services, Defense services, etc.)	No. of students cleared
1	2013	GATE	9
		GRE	1
		DEFENSE	2
2	2014	GATE/	8
		GRE	2
3	2015	GATE	3
4	2016	GATE	2

### 30. Student Progression:

Student progression	Against % enrolled			
	2009-2013	2010-2014	2011-2015	2012-2016
UG to PG	13.55%	17.91%	NIL	NIL
PG to M.Phil.	NIL	NIL	NIL	NIL
PG to Ph.D.	NIL	NIL	NIL	NIL
Ph.D to Post-Doctoral	NIL	NIL	NIL	NIL
Employed •Campus selection	20.33%	23.88%	23.94%	21.875
•Other than campus recruitment	64.43%	58.21%	76.06%	78.125
Entrepreneurship/ Self-employment	1.69%	NIL	NIL	NIL

### 31. Details of Infrastructural Facilities:

a) Library:

Sl. No.	Area	No. of books	No. of mono graphs	No. of CDs	No. of journals	No. of reports	*Misc
1	19sq.m	178	NIL	NIL	NIL	45	

\* includes syllabus, Question Papers, Magazines, Newsletters.

b) Internet facilities for Staff & Students:

- The entire campus is a Wi – Fi enabled campus which facilitates high speed internet for both staff and students.
- Internet service providers are BSNL with a speed of 10Mbps and Bell Teleservices with a speed of 40Mbps.

c) Class room with ICT Facility:

Sl. No.	Room No.	Shared / Exclusive	Area in Sqmts	Teaching aids
1	CAED Lab - 1	Exclusive	100	Computers and LCD Projectors
2	CAEDLab - 2	Exclusive	100	Computers and LCD Projectors
3	CAED Lab - 3	Exclusive	100	Computers and LCD Projectors

4	ME AV Hall	Exclusive	140	LCD Projector, Collar Mike, Hand Mike and Speakers
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**d) Laboratories:**

Sl. No.	Name of Laboratory	Area (Sq. m)	Major Equipments	Total Investment/ Amount spent
1	CAMA LAB	100	<b>System Configuration:</b> 30 Systems, Processor: Intel Core 2 Duo, 80 GB Hard Disk, 17" Monitor, RAM 2 GB <b>S/W Used:</b> Ansys 14.0 (software) – 25 user license	15,80,000
2	CIM LAB	100	CADEM software – 30 user license No of systems – 30 Nos	18,20,000
3	Computer Aided Machine Drawing	100	Solid edge ST 5 software No of systems - 30 Nos	17,40,000
4	Design Lab	100	<ul style="list-style-type: none"> <li>• Journal Bearing, – 1No</li> <li>• Photo elastic Bench, – 1No</li> <li>• Vibration Experiment Setup, – 1No</li> <li>• Critical speed of Shafts– 1No</li> <li>• Gyroscope – 1No</li> <li>• Strain Gauge Rosette– 1No</li> <li>• Curved Beam Setup – 1No</li> </ul>	8,70,000
5	Energy Conversion Lab	130	<ul style="list-style-type: none"> <li>• Redwood Viscometer– 1No</li> <li>• Saybolt Viscometer– 1No</li> <li>• Cleaveland flash point apparatus– 1No</li> <li>• Abelsflash point apparatus– 1No</li> <li>• Bomb calorimeter– 1No</li> <li>• Pressure Gauge– 1No</li> <li>• Single Cylinder 4 stroke Desil engine test rig– 1No</li> <li>• Single Cylinder 2 stroke Petrol engine test rig– 1No</li> <li>• Four Stroke Multi cylinder Petrol engine test rig– 1No</li> <li>• Variable Compression ratio Petrol Engine test rig– 1No</li> <li>• Torsion Viscometer– 1No</li> <li>• Cleavland Flash and fire point apparatus– 1No</li> </ul>	1,03,00,000

			<ul style="list-style-type: none"> <li>• Junkers gas calorimeter – 1No</li> <li>• Valve timing diagram– 1No</li> <li>• Port timing diagram – 1No</li> <li>• Planimeter – 1No</li> </ul>	
6	Fluid Machinery Lab	200	<ul style="list-style-type: none"> <li>• Flow through nozzle– 1No</li> <li>• Impact of jet of vanes– 1No</li> <li>• Pelton Wheel turbine with multi stage centrifugal pump– 1No</li> <li>• Francis Turbine– 1No</li> <li>• Kaplan Turbine– 1No</li> <li>• 2 stage reciprocating air compressor– 1No</li> <li>• Centrifugal blower– 1No</li> <li>• Determination of coefficient of friction of flow in pipe– 1No</li> <li>• Determination of minor losses in flow through pipes– 1No</li> <li>• Calibration of Venturimeter– 1No</li> <li>• Calibrations of v-notch– 1No</li> <li>• Performance test on single stage centrifugal pump– 1No</li> <li>• Performance test on reciprocating pump– 1No</li> </ul>	9,20,000
7	Foundry & Forging Lab	200	<ul style="list-style-type: none"> <li>• Universal sand testing machine(make-Versatile),model-VUN – 1No</li> <li>• Sand Rammer (make-Versatile, model-VR) – 1No</li> <li>• Clay content tester(make-versatile, model-VCW) – 1No</li> <li>• Rapid moisture tester(make-versatile, model-VM) – 1No</li> <li>• Permeability meter (make-versatile, model-VP) – 1No</li> <li>• Seive Shaker with 10nos of sieves (power pack) – 1No</li> <li>• Mould hardness tester(make-versatile, model-VMHB) – 1No</li> <li>• Core Hardness tester(make-versatile, model-VCH) – 1No</li> <li>• Specimen driver with digital temp. indicator(hot air) – 1No</li> </ul>	1,03,00,000
8	Heat and Mass Transfer Lab	200	<ul style="list-style-type: none"> <li>• Natural convection apparatus– 1No</li> <li>• Surface emissivity apparatus– 1No</li> <li>• Pin Fin apparatus– 1No</li> <li>• Composite Wall apparatus– 1No</li> </ul>	8,20,000

			<ul style="list-style-type: none"> <li>• Transient Heat Conduction apparatus– 1No</li> <li>• Forced convection apparatus– 1No</li> <li>• Critical Heat Flux apparatus– 1No</li> <li>• Stefan Boltzmann apparatus– 1No</li> <li>• Heat Exchanger apparatus– 1No</li> <li>• Metal Rod apparatus– 1No</li> <li>• Condensation Apparatus– 1No</li> <li>• Air Conditioning apparatus– 1No</li> <li>• Refrigeration apparatus– 1No</li> </ul>	
9	Machine Shop	230	<ul style="list-style-type: none"> <li>• Surface grinding machine (make-Bhurji) with all accessories and 8X12"magnetic chuck – 1No</li> <li>• Radial drilling machine (m/c no. 156/2011) – 1No</li> <li>• Shaping machine Size-18" stroke(make Sagar) – 2Nos</li> <li>• Hand Drilling machine (make-Bosch) – 1No</li> <li>• Universal milling machine (make-BFW model UF1) – 1No</li> <li>• Lathe 5' 3" bed length (make-sabari) - 14 Nos</li> <li>• Pedastal grinding machine(make-swagath) – 1No</li> <li>• Granite surface plate (make-mmt)630X630X80mm– 1No</li> <li>• Cast iron surface plate (mmt) 630X630– 1No</li> </ul>	35,50,000
10	Material Testing Lab	100	<ul style="list-style-type: none"> <li>• Trinocularmetrallurgical microscope (make-Metzer) - 3nos</li> <li>• Single disc polishing machine(make-metzer) – 1No</li> <li>• Wear and friction monitor(make-ducom)- 1No</li> <li>• Rotating beam fatigue testing machine(Ducom) – 1No</li> <li>• Rockwell Hardness tester(make-FIE Model-RASN) – 1No</li> <li>• Universal Testing Machine(make-FIE, capacity 60 ton) – 1No</li> <li>• Vicker's Hardness tester(make-FIE, Model-VM50) – 1No</li> </ul>	20,30,000

			<ul style="list-style-type: none"> <li>• Impact testing machine(Make-FIE, model-IT30) – 1No</li> <li>• Mechanical Extensometer(for UTM)(make-MITUTOYO) – 1No</li> <li>• Brinell hardness tester(make-Saroj, model-3000h) – 1No</li> <li>• Torsion testing machine (make-FIE, model TT10) – 1No</li> </ul>	
11	Metrology and Measurement Lab	100	<ul style="list-style-type: none"> <li>• Mechanical comparator (dial gauge(make-mitutoyo) – 1No</li> <li>• Sine bar – 1No</li> <li>• Gear tooth vernier calipers(make Aditya) – 1No</li> <li>• Micrometer(make-Mitutoyo) – 1No</li> <li>• Thermocouple (make-Digitrack) – 1No</li> <li>• Monochromatic check light(make- Prisms india) – 1No</li> <li>• Autocollimeter(make-Prisms india ltd) – 1No</li> <li>• Pitch gauge(make-Mitutoyo) – 1No</li> <li>• Floating carriage micrometer(make-Aditya) – 1No</li> <li>• Pressure measuring system – 1No</li> <li>• Force (load)measuring system– 1No</li> <li>• Displacement measuring system– 1No</li> <li>• Strain measuring system– 1No</li> <li>• UPS B100 DC input-24v,26Ah SMF rocket</li> <li>• Granite surface plate(630X630X80mm) – 3Nos</li> <li>• MS stand for the granite surface plate– 3Nos</li> <li>• Toolmaker's microscope(make-mitutoyo) – 1No</li> <li>• Profile projector (make-mitutoyo, model pJ-A3000ser) – 1No</li> <li>• Drill Tool dynamometer(make-IUSTROL DEVICES) – 1No</li> <li>• Universal bevel protractor (make- mitutoyo) – 1No</li> <li>• Lathe Tool Dynamometer– 1No</li> </ul>	10,20,000
12	Workshop Practice	250	<ul style="list-style-type: none"> <li>• Grinding Machine – 1No</li> </ul>	35,50,000

			<ul style="list-style-type: none"> <li>• Drilling Machine – 1 No</li> <li>• Cutting Machine – 1No</li> <li>• Welding Machine - 1 No</li> <li>• Bench vice – 39 Nos Accessories</li> </ul>	
13	CAED LAB	100	<ul style="list-style-type: none"> <li>• No of Systems – 90 Nos</li> <li>• Solid edge software - 90 Nos</li> </ul> Systems configurations: Processor: Intel Core 2 Duo, 80 GB Hard Disk, 17” Monitor, RAM 2 GB	54,00,000

### 31. Number of students receiving financial assistance from college, university, government or other agencies:

Year	No of students receiving financial assistance
2015-2016	102
2014-2015	15
2013--2014	53
2012-2013	17

Scholarship Details for Last Four Academic Years										
Sl. No.	Name of the Institutional Organization	Details	2015-16		2014-15		2013-14		2012-13	
			No. of students	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.	No of students	mount in Rs.
1	DTE	Defense	1	34545	3	15600	4	143260	1	26445
2	Govt. of India	Gazetted Treasury Kalyan Panchayat	NIL	NIL	Nil	Nil	Nil	sNil	5	17500
3	KalyanSamaj	SC	NIL	NIL	2	68580	Nil	Nil	4	137160



4	Bihar Govt	Other State	1	19200	Nil	Nil	Nil	Nil	1	99660
5	Taluk Samaj	SC/ST	21	852400	Nil	Nil	14	528050	2	77750
6	BCM	Backward Class	NIL	NIL	3	50880	14	237060	Nil	Nil
7	Social Welfare	KR Puram	NIL	NIL	Nil	Nil	3	123140	Nil	Nil
8	Govt. of Karnataka	Department of Sainik Welfare and ressettlement	1	34240	Nil	Nil	2	5000	Nil	Nil
9	OBC	Backward Class	72	1234290	Nil	Nil	9	160720	Nil	Nil
10	CMR Scholars hip	Leadership/ Sports/ Memorial	6	60000	7	70000	7	70000	4	40000

### 32. Details on student enrichment programmes (special lectures / workshops /Seminar) with external experts:

Sl. No.	Lectures/ Workshops/ Seminar	Guest Speaker	Company Name	Date	No. of Students participated
01	Design, Selection of Materials, Processing And Testing	Mr. MahadevaNagaral	Design Engineer, Aircraft Research and Design Centre (ARDC), HAL	2016	100
02	Finite Element Analysis for Fatigue and Fracture Mechanics Problems	Dr. Krishna Lok Singh	Senior scientist, NAL		120
03	Bringing Machine Vision to Life	Dr. KhemrajEmrith	Lecturer in Engineering, Centre for Machine Vision, Bristol Robotics Lab, University of the West of England, Bristol, United Kingdom		100

04	How FEA Is important for a Mechanical Engineer	MrAbhinayKalburgi	CEO, Infidof	2015	75
05	Trends in product life cycle management	Mr. Bhanu Prakash Dixith	Centre Manager EDS Technologies Pvt Ltd Bangalore		150
06	Opportunities for Mechanical engineers abroad	MrSrinath Rao	ELS, Bangalore		100
07	A Day in Life of a Design Engineer" using Creo Parametric 2.0 & CATIA	Ms. NabaneetaMitra	Manager CMS Pvt Ltd Bangalore		100
08	What it takes to make one's mark working for a core engineering company	MrAlok Kumar	Chief Engineer (Boeing) UTC Aero space systems Bangalore		250
09	Power and Water	Dr. Suresh M.V.J.J	Senior Engineer, John F Welch Technology Centre (JFWTC), GE-India, Bangalore		120
10	Indian Space Program an Overview	Mr. B K Venkatramu	Associate Director, Liquid Propulsion System Centre(LPSC), ISRO		117
11	Challenges and Opportunities in Pneumatics and Hydraulics	Mr. Santhosh MS	Manager, Drive & Control Academy, Rexroth Bosch Group, Bangalore		121
12	Career Opportunities for Mechanical Engineers	Mr. KiranHebbar	Consultant at Akar Training, Bangalore		115
13	Product Design and MEP	Mr. Amardeep Singh	Product Design Consultant at Fourth Master Designs, Bangalore		122
14	Challenges and Opportunities in Vehicle Dynamics for	Mr. Ravi Jangir	Co-founder at Jangir Designs & Analytics LLP		120

	Mechanical Engineers				
15	Engineering Failure Analysis	Dr. S K Bhaumik	Scientist G, Material science division, National aerospace laboratories(NAL), Bangalore	2014	118
16	Residual Stresses on Engineering Components	Dr. P SampathKumaran	Former joint director, Material Tech Division, CPRI, Bangalore		120
17	Recent Advances in Tribology	Dr. C.S. Suresh	Professor, Department of Mechanical Engineering, PESIT, Bangalore		121
18	3D Printing	Mr. Deepak Raj K	Co-founder & Director @df3D		121
19	About Ideas and Innovation, Do we need them?	Mr. C. R. Balaji	An Entrepreneur & Healthcare sector consultant, Bangalore	2013	117
20	Advanced Joining Processes	Dr. V. P. Raghupathy	Professor, Department of Mechanical Engineering, PESIT, Bangalore		120
21	Materials in Mechanical Engineering	Dr. P. G. Mukunda	Former Professor, Material Science and Metallurgy Department, IIT Kharagpur	2012	119
22	Advanced Materials for Aerospace Applications	Dr. K Venkateswaralu	Principal Scientist, NAL, Bangalore		120

### 33. Teaching methods adopted to improve student learning:

The faculty members aim to deliver their lectures in an effective manner to enrich the knowledge of the students' community. Some of the innovative teaching methodologies adopted are:

- Power point presentations which includes presentation of videos for

understanding of few topics/ Black board Teaching.

- Lab Instruction sessions for the practical experience with respect to Lab oriented subjects
- Lab Refinement Committee (LRC) has been formed with the aim of monitoring the quality of lab conduction.
- Additional projects and publications based on the projects exist, which helps students to perform innovatively and can be motivated for further research blend.
- Expert lectures and workshops are organized by the respective faculty to bridge the gap between the curriculum and industry requirements.
- Individual faculty web pages are created.
- Intensive coaching Programme (ICP) classes are being conducted for the weaker students who are identified through their Internal Assessment test performance.
- Remedial Classes have been conducted for the failed students in the following semester to help them pass the subjects.
- Tutorial classes are provided for analytical courses in every semester as per the scheme
- Industry sponsored projects
- Seminars, lectures
- Home assignments
- Pairing intelligent and dull student

#### **34. Participation in institutional social responsibility (ISR) and extension activities:**

The students have participated in activities such as

- Blood Donation Camp
- NSS activities

#### **35. SWOC analysis of the department and Future plans:**

Strength of the Department

1. Dedicated faculty members and enthusiastic students work together for novel technological development of the department
2. All faculty of the department are either Doctorates or Research Scholar.



3. Experts and professionals from industries share their technical expertise and give our students a vent into the practical approach on cutting edge technologies.
4. Excellent placements.
5. Excellent infrastructure.
6. State of the Art laboratories with the latest equipments.
7. Participation of students in various competitions/workshops organized internally and also by other colleges and universities.

#### Weakness of the Department

1. International Conferences and symposium to be arranged in the department.
2. The faculties need to engage in refreshing courses
3. Focus on entrepreneurial ventures to be increased.

#### Opportunities

1. Internal / External funding for projects
2. Autonomy in curricular development.
3. Recognition to invention through patents.
4. Organizing international conferences.
5. More MOU from Industries and R&D departments
6. Tie-up with foreign universities

#### Challenges

1. Competitions from other universities and colleges are high.
2. Training students beyond academics
3. Fluctuating demand in industry.
4. To improve consultancy related work in department.

#### Future Plan:

1. Tie-up with foreign universities
2. International Project competitions

### ANNEXURE-I

#### A. Details of academic support staff (technical) and administrative staff

Sl. No	Name	Designation
1	Mr. Praveen.D	Office Executive
2	Mr. George U	Foreman
3	Mr. Ramu G	Lab Instructor
4	Mr. J Prabhakar	Lab Instructor
5	Mr. V K Bhagiya Raj	Lab Instructor
6	Mr. Krishnappa S K	Lab Instructor
7	Mr. Muralidhar	Lab Instructor
8	Mr. PalaniBhaskar	Lab Instructor
9	Mr. Ashish Kumar	Lab Instructor

#### B. Publication of Faculties

Sl. No.	Name of the Authors	Name of the Title	Name of the Publications	Volume, Issue, Page Number and ISSN	Year	Impact Factor
1	Jitender Kumar Chaurasia	Effect of sintering mode and particulate reinforcement on W-Ni-Fe heavy alloys	Transaction of Indian Institute of Metals	IN PRESS		0.58
2	Jitender Kumar Chaurasia	Effect of microwave and conventional heating on sintering behaviour and properties of Al-Cu-Mn alloys	Transaction of Indian Institute of Metals	IN PRESS		0.58

3	Jitender Kumar Chaurasia	Investigation of Zirconium Silicate and Zirconium oxide reinforcement in Aluminium 6061 metal matrix - A comparative study	Transaction of Powder Metallurgy	IN PRESS		0.58
4	Sagar M Baligheid	Taguchi's Approach: Design optimization of process parameters in selective inhibition sintering	ELSEVIER: Materials today Proceedings		2017	
5	Sagar M Baligheid	RSM Optimization of Parameters influencing Mechanical properties in Selective Inhibition Sintering	ELSEVIER: Materials today Proceedings		2017	
6	Sagar M Baligheid	Selective Inhibition Sintering: Advancements & Systematic Research approaches for the process development	International Journal of Applied Engineering Research	Volume 11, Number 10 pp 7058-7062	2016	
7	Sagar M Baligheid	Consolidation & Factors Influencing Sintering Process in Polymer Powder Based Additive Manufacturing	ELSEVIER: Materials today Proceedings		2016	
8	Solaimuthu. C.	Experimental investigation of Emission reductions studies of a biodiesel engine using EGR and SCR for agriculture operations in developing countries	Applied Energy, Elsevier	Vol. 138, pp. 91-98 ISSN: 0306-2619	Jan 2015	5.597
9	Solaimuthu. C.	Experimental investigation of evaporation rate and emission characteristics of Mahua (MadhucaIndica) biodiesel and its blend with diesel	International Journal Green Energy, Taylor and Francis	Vol. 12, pp. 635-640 ISSN: 1543-5075 (Print), ISSN: 1543-5083 (Online)	2015	0.981
10	Solaimuthu,	Performance	Energy	Vol. 37	June	0.981

	C.	evaluation of a urea-water selective catalytic reduction (SCR) for a diesel engine with mahua biodiesel	Sources, Part A, Recovery, Utilization and Environmental effects, Taylor and Francis	(13),pp. 1424-1431 ISSN: 1556-7036 (Print), ISSN: 1556-7230 (Online)	2015	
11	Shreyas.P.	Design and Fabrication of dual specimen rotating bending fatigue testing machine	International Advanced Research Journal in Science, Engg. and Technology	Vol 2, Issue 1, pp 25-27	2015	
12	Abhinav. T	Characterization and Mechanical Behaviour of Plasma Sprayed Ceramic Coating – An Overview	International Journal of Informative and Futuristic Research	Volume 2, Issue 10, pp. 3600-3604	2015	
13	Prakrathi.S	Fabrication of Friction Stir Processed Al-Ni Particulate Composite and Its Impression Creep Behaviour	Journal of composites	Vol 2015, Article ID 428630	2015	
14	Shreyas. P.	Enhancing Mechanical and Biological Performance of Metallic Biomaterials for Orthopaedic Applications through Changes in Surface Oxide Layer by Nanocrystalline Surface Modification	Nanoscale, Royal society of chemistry	DOI: 10.1039/c5nr00574d.	2015	
15	Shreyas. P.	Production and testing of Al-Fe <sub>2</sub> O <sub>3</sub> particulate composite	International Advanced Research Journal in Science, Engg. and Technology,	Vol. 2, Issue 4, DOI 10.17148/IA RJSET.2015.2405,Page – 19-24.	2015	
16	Shreyas. P.	Testing of Al 7075 specimen using dual specimen Rotating Bending Fatigue Testing Machine	International Advanced Research Journal in Science,	Vol. 2, Issue 4, DOI 10.17148/IA RJSET.2015.	2015	



			Engg. and Technology,	2403,Page – 11-13.		
17	Vijayananda Kaup	Structural Synthesis and Analysis of 12-Link, 3-Freedom Simple Jointed Kinematic Chains	European Journal of Advances in Engineering and Technology		2015	
18	Vijayananda Kaup	Characteristic Polynomial for detecting Isomorphism among 12-Link, 1-Freedom Simple Jointed Kinematic Chains (SJKCs)	European Journal of Advances in Engineering and Technology	ISSN: 2394-658X	2015	
19	Vijayananda Kaup	An Atlas of 12-Link, 1-Freedom Simple Jointed Kinematic Chains and Mechanism	IJRSI	Vol. 2, Issue 4	Jun 2015	
20	Solaimuthu. C	A study of diesel engine fuelled with madhucaindica biodiesel and its blend with diesel fuel	International Journal of Modern Engineering and Research (IJMAR)	Vol. 4 (10) PP. 43 – 46 ISSN: 2249-6645	Oct 2014	0.231
21	Solaimuthu. C	An experimental and analytical Study of Emissions characteristics of a Diesel Engine Fuelled with Cotton Seed Oil Methyl Ester and Petro-Diesel for different static injection timings	International Journal of Research in Engg. & Science	Vol. 2 (5),pp. 37-41 ISSN: 2320-9356 (Print), ISSN: 2320-9364 (Online)	June 2014	0.231
22	Solaimuthu C	A Study of Performance of Bio-Gas Plant	Discovery Journal	Vol. 12 (30),pp. 36-40 ISSN: 2278-5469 (Print), ISSN: 2278-5450 (Online)	Mar 2014	0.369

23	Solaimuth C	An Experimental Study of Production and Properties of Animal Fats Biodiesel	Int Org of Sci Res J of Mech& Civil Engg. (IOSR-JMCE)	Vol. 11 (1),pp. 84-87 ISSN: 2320-334X (Print), ISSN: 2278-1684 (Online)	Feb 2014	1.485
24	Solaimuth C	A Study of Performance and Emissions of Diesel Engine Fuelled with Blends of Cotton Seed Oil Methyl Ester and Petro-Diesel	International Journal of Modern Engg. Research	Vol. 4, (1),pp. 30-34 ISSN: 2249-6645	Jan 2014	1.227
25	Solaimuth C	Effect of nozzle opening pressures on diesel engine fuelled with MadhucaIndica biodiesel and its blend with diesel fuel	Ind J of Engg. (IJE), Discovery Publications	Vol. 7 (17),pp. 14-22 ISSN: 2319-7757 (Print), ISSN: 2319-7765 (Online)	Jan 2014	0.231
26	Solaimuth C	NO <sub>x</sub> Reduction of Diesel Engine with MadhucaIndica biodiesel using Selective Catalytic Reduction (SCR) in different flow rates	Int Org of Sci Research J of Mech& Civil Engg. (IOSR-JMCE)	Vol. 10 (5),pp. 28-34 ISSN: 2320-334X (Print), ISSN: 2278-1684 (Online)	Jan 2014	1.485
27	Vijayananda Kaup	Analysis and Design Optimization of Composite Floor Panel of Mass Transit	International Journal of Engineering Research and Technology	Vol. 3 (7), pp. 874-882	2014	
28	Shreyas. P	Experimental Setup of Surface Mechanical Attrition Treatment (SMAT) and study of the treated specimen	International Advance Research Journal in Science, Engg. and Technology,	Vol. 1, Issue 3, Page – 141-143	2014	
29	Shreyas. P.	Overview of Research on Surface Mechanical Attrition Treatment	International Advance Research Journal in Science, Engg. and Technology,	Vol. 1, Issue 4, DOI 10.17148/IA RJSET, Page – 205-207.	2014	

30	Bijayani Panda	Stress corrosion cracking in 316L stainless steel bellows of a pressure safety valve	Engineering Failure Analysis, Elsevier	Volume 36, Pages 379-389	2014	1.119
31	SagarBaligid ad	Development of an economic tensile and torsion testing machine for wires	Open Journal of Mechanical Engineering,	Vol. 2, No.1.	2014	
32	SagarBaligid ad	Sand casting: Conventional and rapid prototyping manufacturing approaches.	Int. Journal of Research in Engineering and Technology,	Vol.3, issue 11	2014	
32	Prakrathi S	Hot corrosion behaviour of HVOF sprayed Stellite-6 coatings on gas turbine alloys	Trans Indian Institute of metals (TIIM-D-12-00159R)	DOI: 10.1007/s12666-013-0317-z (7pages).	2014	
33	Shreyas.P.	Overview of research on surface mechanical attrition treatment (SMAT)	International Advanced Research Journal in Science, Engineering and Technology	Vol.1 Issue 4, ISSN: 2393-28021 (Online) ISSN: 2394-1588 (Print)	Dec 2014	
34	S V Prakash	Biomethanation Plant for Vegetable Waste and Utilization of Biogas Slurry	International Journal of Research in Advent Technology	Vol.2, No. 8, E-ISSN: 2321-9637	Aug 2014	
35	S V Prakash	Indian Scenario of Small Scale Plug Flow Biogasifier designed for bio degradable solid waste with relevance to its Operation, Performance and Sizing Calculations	Journal of Mechanical Engineering Research and Technology	Vol. 2, Number 1 Pp: 447-453	2014	
36	S V Prakash	Portable BioDigester	International Journal of Innovative Research in Science,	Vol.2 Issue 8 ISSN: 2319-8753	Aug 2013	

			Engineering and Technology			
37	Solaimuthu C	Effect of static injection timing on the performance and emissions of diesel engine with blends of Mahua biodiesel	Int J Mech and Mat Engg (IJMME)	Vol. 7 (1),pp. 89-95 ISSN 1823-0334	Feb 2013	0.440
38	Solaimuthu C	An experimental investigation of the performance and emissions of an Al-20% SiC coated single cylinder diesel engine with MadhucaIndica biodiesel blends	Int J Ambient Ene, Taylor and Francis	Vol. 34 (3), pp. 131-137 doi: 10.1080/01430750.2012.740427 ISSN: 0143-0750 (Print), ISSN: 2162-8246 (Online)	2013	0.321
39	Solaimuthu C	An experimental investigation of the performance and emissions of an Al-20% SiC coated single cylinder diesel engine with MadhucaIndica biodiesel blends	Int J Ambient Ene, Taylor and Francis	Vol. 34 (3), pp. 131-137 doi: 10.1080/01430750.2012.740427 ISSN: 0143-0750 (Print), ISSN: 2162-8246 (Online)	2013	0.321
40	Solaimuthu C	An experimental investigation of the performance, combustion and emission characteristics of Mahua (MahucaIndica) oil methyl ester on four-stroke direct injection diesel engine	Ind J Engg Mat Sci (IJEMS) NISCAIR, New Delhi, India	Vol. 20, PP. 42-50 ISSN: 0971-4588 (Print) ISSN: 0975-1017 (Online)	2013	0.641
41	Solaimuthu C	Reduction of NOx Emission on NiCrAl-TiO <sub>2</sub> Coated DI Diesel Engine Fuelled with Radish (RaphanusSativus) Biodiesel	J Ren & Sus Ene, AIP Publications	In-Press ISSN: 1941-7012 (Online)	2013	0.132

42	Prakrathi.S	Microstructural characterization and indentation creep behavior of friction stir modified Al surface with iron powder	Journal of Metallurgy and Materials Science	Vol. 55, No. 2, 131-140.	2013	
43.	Prakrathi.S	Fabrication of Hybrid Surface Composite through Friction Stir Processing and Its Impression Creep Behaviour	ISRN Materials Science	Vol 2013, Article ID 541762 <a href="http://dx.doi.org/10.1155/2013/541762">http://dx.doi.org/10.1155/2013/541762</a>	2013	
44	Bijayani Panda	Fatigue failure of weld joint of afterburner fuel manifold of a jet engine	Engineering Failure Analysis, Elsevier	Volume 30, Pages 138-146	2013	1.119
45	Solaimuthu C	Effect of injection timing on the performance, combustion and emission characteristics of diesel engine using Mahua Oil methyl ester in different volumetric proportions as fuel	J Sci&Ind Res (JSIR), NISCAIR, New Delhi, India	Vol. 71, pp: 69-74 ISSN: 0022-4456 (Print)ISSN: 0975-1084 (Online)	Jan 2012	0.500
46	Solaimuthu C	Experimental investigation of performance and emission characteristics of CI engine with various blends of Madhuca Indica biodiesel using EGR	Int J Gr Ene, Ene and Env (IJGEEE)	Vol. 3 (1), pp. 13-18	2012	0.331
47	H.S. Manohar	Effect of heat treatment on damping properties of nanoclay particulate reinforced MMCs	Int. Journal of Recent technology and engineering	Vol.1, issue-1	2012	

48	N. Krishnamurthy	A study of parameters affecting wear resistance of alumina and Yttria Stabilized Zircona Composite Coatings on Al-6061 Substrate	Int. Scholarly Research Network		2012	
49	Prakrathi.S	Preparation of Al-Ni composite and its creep behavior	Asian Symposium on Materials and Processing		Aug. 2012	
50	Bijayani Panda	Alloy Development of Corrosion-Resistant Rail Steel	Current Science	Vol. 100, pp. 52-56	2011	0.833



## Civil Engineering

1. **Name of the Department: CIVIL ENGINEERING**
2. **Year of Establishment: 2011**
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated masters; Integrated Ph.D., etc.):**

Programme	Course	Affiliated University	Year of Establishment	Initial Intake	Present Intake
UG	B.E in Civil Engineering	Visvesvaraya Technological University, Belgaum	2011	60	120

4. **Names of the Interdisciplinary courses and Departments/units involved:**

The curriculum of Department of Civil Engineering has interdisciplinary courses and is associated with Department of Basic Science and Humanities (BSH) and Department of Management Studies with the following courses listed in the table below

Semester	Name of the Course / Subject	Departments Involved
III	MAT31	Mathematics
IV	MAT41	Mathematics
V	Management and Entrepreneurship	MBA

5. **Annual/ Semester/ Choice based credit system (Program wise):**

Semester wise system

6. **Participation of the department in the courses offered by other departments: Nil**
7. **Courses in collaboration with other universities/ industries/ foreign institutions, etc: NIL**
8. **Details of courses / programmes discontinued (if any) with reasons: NIL**

### 9. Number of teaching posts:

	Sanctioned	Filled
Professor	2	3
Associate Professors	6	2
Asst. Professors	20	20 + 4*

Faculties Handling: \* Basic Science subjects

### 10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.):

Sl. No.	Name	Qualification	Designation	Specialization	No. of years of Experience	No. of PhD students guided for the
1	Dr. D.P. Giridhar	Ph D	Professor Emeritus	Water Management	36	1
2	Dr. Shankar B S	Ph D	Professor	Environmental Engineering	26	-
3	Dr. H K Seshadri	Ph D	Professor	Pre-Stressed Concrete	29	-
4	Dr. Asha M Nair	Ph D	Associate Professor	Geo-synthetics in Pavements	6.5	-
5	Mr. Phaniraju M	M Sc (Engineering)	Associate Professor	GIS	13	-
6	Mrs. SahanaBasti	M Tech	Assistant Professor	Structural Engineering	4	-
7	Mrs. Azhaginiyal	M Tech	Assistant Professor	Transportation Engineering	4	-
8	Mrs. Preethi Raj	M S	Assistant Professor	Hydrology and Water resources	5	-
9	Mrs. Preeti Jacob	M Tech	Assistant Professor	Water resources Engineering and Management	5	-
10	Mr. Karthik M	M Sc	Assistant	Applied	3	-



			Professor	Geology		
11	Mrs. Mini George	M Tech	Assistant Professor	Environmental Engineering	5	-
12	Mrs. Divya Viswanath	M Tech	Assistant Professor	Geo-Technical Engineering	4	-
13	Mr. Ragavendra P.K.	M Tech	Assistant Professor	Construction Technology Management	30	-
14	Ms. Vibha N Dalawai	M Tech	Assistant Professor	Structural Engineering	3	-
15	Mr. Kiran R G	M Tech	Assistant Professor	Geo-Technical Engineering	4	-
16	Mr. Mohammed Ismail	M Tech	Assistant Professor	Structural Engineering	5	-
17	Mrs. Sreelakshmi	M Tech	Assistant Professor	Offshore structures	6	-
18	Ms. Bhavya K	M Tech	Assistant Professor	Environmental Engineering	2	-
19	Mr. Karthik N M	M Tech	Assistant Professor	Pre-Stressed Concrete	3	-
20	Mrs. Arokia Leo Preethy	M Tech	Assistant Professor	Geo-Technical Engineering	2	-
21	Mr. Mohammed Yusuf	M Tech	Assistant Professor	Structural Engineering	1	-
22	Ms. Kavita H K	M.Tech	Assistant Professor	Structural Engineering	3	-
23	Mr. Naresh Dixit	M Tech	Assistant Professor	Structural Engineering	1	-
24	Mr. Navanath M Prabha	M Tech	Assistant Professor	Structural Engineering	5	-
25	Mr. Shiva Kumara M J	M Tech	Assistant Professor	Structural Engineering	1	-
26	Mr. Ruchir A	M Tech	Assistant Professor	Structural Engineering	1	-
27	Mr. Amruth Chand	M Tech	Assistant Professor	Hydraulics and water resource	2	-
28	Mrs. Shijina Padmanabhan	M Tech	Assistant Professor	Structural Engineering	8	-
29	Mrs. Namitha B Nambiar	M Tech	Assistant Professor	Environmental Geotechnical Engineering	--	-

**11. List of senior visiting faculty: NIL**

**12. Percentage of lectures delivered and practical classes handled**

**(Programme wise) by temporary faculty:** All classes are handled by regular faculty

**13. Student – Teacher Ratio (Programmewise): 15:1**

Year	Sanctioned Intake No. of Students intake after 1 <sup>st</sup> year	No of Faculty	Student Teacher Ratio
2016-2017	360	25+4	15:1
2015-2016	360	20+3	15:1
2014-2015	240	17+3	14.1:1
2013-2014	120	9+3	13.3:1
2012-2013	60	4+3	15:1

**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

Academic Support Staff	As per norms	Filled
Technical Staff	6	5
Administrative Staff	1	1

**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil/ PG:**

Sl. No.	Qualification	No. of Faculty
1	PhD	4
2	M.Tech	22
3	M.Sc	2
4	M.S	1

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: NIL**

**17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received:**

Sl. No.	Granting Agency	Year of Sanction	Grant Amount	Duration	Title of Research / Project
1	KSCST	Feb- May 2015	Rs.5000	3 months	Stabilized Mud blocks as an alternative building materials
2	KSCST	Feb- May 2016	Rs. 5000	3 months	Application of particle image velocimetry to investigate pile-soil inte

					reaction behaviour
3	ACC Cements	Feb- May 2016	Rs. 20000	3 months	Experimental studies to investigate the potential of using optical fibers/fabrics and titanium dioxide in manufacturing light transmitting and self cleansing masonry blocks
4	STRATA	Feb- May 2016	Rs. 12000	3 months	Experimental studies to investigate potential of using waste materials as infills for geocell reinforced constructions

### 18. Research Center/ facility recognized by the University: Work in Progress

### 19. Publications

#### \* a) Publication per faculty

#### Publication in Journals

Sl. No.	Name	Number of publications**					
		2016	2015	2014	2013	2012	2011
1	Dr. D. P Giridhar						3
2	Dr. Asha M. Nair	3		3		1	2
3	Dr. Shankar B S					2	
4	Mrs. Preeti Jacob						
5	Mr.Karthik.N.M	5	3	1			
6	Mrs.Divya.V						
7	Mrs.Sreelakshmi.G						
8	Mohammed Ismail		1				
9	Mr. Naresh Dixit	1					
10	Mr. Kiran R G						
11	Mr. Karthik M	1					
12	Ms. Azhaginiyal			1	1		

13	Ms. Shijina		5				
14	Mr. Mohamed Yusuf		1				
15	Mr. Ruchir A J	2					
<b>Total:</b>		<b>12</b>	<b>10</b>	<b>5</b>	<b>1</b>	<b>5</b>	<b>7</b>

\* As on July 2015.

a) Number of papers published in peer reviewed journals (national / international) by faculty and students:

No. of publications**					
2016	2015	2014	2013	2012	2011
12	10	5	1	5	7

\*\* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):

Sl. No.	Name of the Faculty	International Database	No of Publications
1	Dr D P Giridhar	Researchgate	3

\* Monographs: Nil

\* Chapter in Books:

Sl. No.	Name of Reviewer	Name of Author	Title of book	Publisher	No of Chapters
1	Dr. D P Giridhar	Ramachandra T. V.	Management of Municipal solid Waste	Commonwealth of Learning, Canada and Indian Institute of Science, Bangalore, Printed by TERI Press, New Delhi.	All Chapters
2	Dr. D P Giridhar	Ramachandra T. V.	Soil and Groundwater Pollution from Agricultural Activities	Commonwealth of Learning, Canada and Indian Institute of Science, Bangalore, Printed by TERI Press,	All Chapters

				New Delhi.	
3	Dr. D P Giridhar	Vijay Kulkarni and Ramachandra T.V.	Environmental Management	Commonwealth of Learning, Canada and Indian Institute of Science, Bangalore, Printed by TERI Press, New Delhi.	All Chapters

\* Books Edited: Nil

\* Books with ISBN/ISSN numbers with details of publishers: Nil

Sl. No.	Name	Title	Publisher	ISBN / ISSN	Year of Publication
1	<u>D.P. Giridhar,</u> <u>D.P. Giridhar</u> <u>et. al.</u>	Teaching and Techniques in Technical Education	Anmol Publications, Publishers & Distributors,	ISBN-10-8126122900, ISBN-13-9788126122905	2005

\* Citation Index:

Sl. No.	Faculty Name	Citation Index
1	Dr D P Giridhar	23
2	Dr. Asha M Nair	8
3	Mr. Karthik NM	1
4	Mr. Kiran RG	3

\* SNIP: Nil

\* SJR: Nil

\* Impact factor:

Sl. No.	Faculty Name	Impact Factor Range
1	Dr D P Giridhar	3.52
2	Dr. Asha M Nair	0.24 - 1.32
3	Mr. Karthik NM	1.76
4	Mr. Kiran RG	1.76
5	Mr. Mohammed Ismail	1.76

\* h-index:

Sl. No.	Faculty Name	h-index
1	Dr. Asha M Nair	2
2	Mr. Karthik NM	2
3	Mr. Kiran RG	1
4	Mr. Mohammed Ismail	1

#### Areas of consultancy and income generated:

Sl. No.	Faculty Name	Company	Area(s) of Consultancy	Amount	Year
1	Mr. Karthik. M	STP Earth movers	Geotechnical	1,800	2014
2	Dr. P. S. Niranjana	D3 Estates & Construction(India) PVT LTD	Geotechnical	3,000	2014
3	Dr. P. S. Niranjana	D3 Estates & Construction(India) PVT LTD	Geotechnical & Concrete	2,950	2014
4	Dr. D.P. Giridhar	M/s IFB Automotive Pvt. Ltd	Surveying	34400	2015
5	Dr. D.P. Giridhar	M/s. Barani Constructions	Concrete	1500	2015

#### 21. Faculty as members in

a) National Committees b) International Committees c) Editorial Board

Sl. No.	Faculty Name	Name of the Committee / Editorial Board...	Name of Organization/University	Type of Membership
1	Dr. D.P. Giridhar	Uttarkhand state implementation of ICT in Education	National Mission in Education through Information Communication Technology	Nominated Member

#### 22. Student projects:

a) Percentage of students who have done in-house projects including inter-departmental/ Program:

Sl. No.	Academic Year	Percentage in house
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1	2014-2015	93%**
2	2015-2016	100%

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies:

Sl. No.	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
1	2014-2015	7%
2	2015-2016	0%

### 23. Awards/ recognitions received by faculty and students: NIL

Sl. No.	Name of the faculty or students	Name of the Award	Name of Agency	Year
1	Mohammed Zeeshan	6 <sup>th</sup> rank VTU Rank	VTU	2016
2	Prachurjya Das	“Late Shri A. Thimmaiah Gold Medal” for highest percentage of Marks in UG studies in Engineering among SC/ST students”	VTU	2015
3	TarunaJaipal	14 <sup>th</sup> rank in 6 <sup>th</sup> semester	VTU	2015
4	Mohammed Zeeshan	2 <sup>nd</sup> rank in 5 <sup>th</sup> semester	VTU	2014
5	Mohan Kumar A N	4 <sup>th</sup> rank in 5 <sup>th</sup> semester	VTU	2014
6	Taruna Jaipal	7 <sup>th</sup> rank in 5 <sup>th</sup> semester	VTU	2014
7	Mohammed Zeeshan	“Best Batsmen”	Inter College Level Cricket Tournament	2014
8	Swathi	3 <sup>rd</sup> place	CAAD centre	2014
9	Manasa M	3 <sup>rd</sup> rank in VTU 3 <sup>rd</sup> Semester	VTU	2013
10	Taruna Jaipal	7 <sup>th</sup> rank in 3 <sup>rd</sup> semester	VTU	2013

**24. List of eminent academicians and scientists/ visitors to the department:**

Sl. No.	Name of Academicians/ Scientists / Visitors	Name of Company	Title
1	Prof. Rajasekara Murthy	Scientist Emeritus National Water Research Institute, Govt. of Canada Visiting Professor, Centre for Ecological Sciences, IISc	Urban Environment Management with Particular Reference to Bangalore. On 11/02/2016
2	Dr. S K Prasad	Professor SJCE , Mysuru	Importance of Earthquake Geotechnical engineering
3	Mr. Raj Pillai	Managing Director, Sobha Developers	Concrete Technology on 8/05/15 & 9/05/15
4	Mrs. Sarala S	DGM, SECON	Application of GIS in highway alignment Mrs. Sarala, DGM, SECON on 28th April 2015
5	Mr. Raghu Raj	Manager(Operational), Sunsoft Technologies	Guest Lecture on GIS applications in civil Engineering 12th March 2015
6	Mr. SharathRajan	Application specialist	Analysis of structures by using technical softwares. 8/05/15 & 9/05/15

**25. Seminars/ Conferences/ Workshops organized and the source of funding:**

a) National

Sl. No.	Title	Organizer	Year	No. of Participants	Resource Person	Funding Agency
1	Workshop on "ETABS and Total Station" on May 8 <sup>th</sup> & 9 <sup>th</sup> 2015.	Civil Department	2015	28	Mr. Hemanth Reddy	Lawrence and Mayo (India) Pvt Ltd. SharanyaNarayani school. BSR builders.

b) International: NIL



## 26. Student Profile programme /course wise:

Name of the Course	Academic Year	CET		Comed-K		Management		SNQ	
		Male	Female	Male	Female	Male	Female	Male	Female
B.Tech.	2011- 12	20	5	15	2	14	0	3	0
	2012 - 13	19	6	18	0	15	0	3	0
	2013 - 14	40	12	28	3	7	2	3	2
	2014 - 15	33	12	30	2	11	1	3	2
	2015-16								

Name of the Course/ Program		Applications Received	Selected	Enrolled		Pass percentage
				*M	*F	
B.E.	2012 – 13	15	15	15	-	
B.E.	2013 – 14	09	09	7	2	
B.E.	2014 – 15	12	12	11	1	
B.E.	2015-16	18	18			

\*M = Male \*F = Female

## 27. Diversity of students:

Name of the Course	Year	% of students from the same state	% of students from other States	% of students from abroad
B.E-Civil	2012	52.54	42.37	5.08
B.E-Civil	2013	62.5	33.34	4.16
B.E-Civil	2014	67.6	32.4	0
B.E-Civil	2015	74	26	0

28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.: Nil

### 29. Student Progression:

Student progression	Against % enrolled
UG to PG	2014-15
	Ongoing
PG to M.Phil.	
PG to Ph.D.	
	2014-15
Ph.D to Post-Doctoral	
Employed •Campus selection •Other than campus recruitment	2014-15
	3%
Entrepreneurship/ Self-employment	2014-15
	14%

### 30. Details of Infrastructural Facilities:

#### a) Library:

Sl. No.	Area	No. of books	No. of mono graphs	No. of CDs	No. of journals	No. of reports	*Misc
1	120Sqft	30	--	---	---	16	--

\* includes syllabus, Question Papers, Magazines, Newsletters.

#### b) Internet facilities for Staff & Students:

All staffs are provided with individual computers with internet facility. The institute is connected with LAN with a speed of 40Mbps. It is also a Wi-Fi zone with a speed of 40Mbps.

The students can work with their laptops anywhere in the campus. To keep a check on the accountability of the internet facility, all the students and staff are provided with login and password.

#### c) Class room with ICT Facility:

Sl. No.	Room No.	Shared / Exclusive	Area in Sqmts	Teaching aids
1	CV301	Exclusive for civil Department	85.7	Chalk, board.

2	CV302	Exclusive for civil Department	85.7	Chalk, board, projector.
3	CV303	Exclusive for civil Department	85.7	Chalk, board, projector.
4	CV402	Exclusive for civil Department	85.7	Chalk, board.
5	CV401	Exclusive for civil Department	85.7	Chalk, board.

## d) Laboratories:

Sl. No.	Name of Laboratory	Area in Sqmts	Major Equipments	Total Investment/ Amount spent
1	Surveying Lab (I & II)	43	Chain, Tapes, Compass, Plane-table, Auto/Dumpy-level and Theodolite.	Rs 13,16,891/-
2	Basic Material Testing Lab	96.15	Testing ferrous and non-ferrous construction materials for their various Engineering properties	Rs 76,838/-
3	Applied Engineering Geology Lab	133.76	Identification of Rocks and Minerals. Interpretation of Geological Maps. Dip and Strike Problems.	Rs 2,03,961/-
4	Hydraulics and Hydraulic Machines	167.91	Understanding the behavior of water and utilization of its energy in various engineering aspects	Rs 3,62,965/-
5	CAD Lab	75.94	Spreadsheet, Analysis software, Auto CAD	Rs 5,55,000/-
6	Geotechnical Lab	76.66	Study of various engineering properties of soil.	Rs 5,46,388/-
7	Environmental Lab	110.63	Physico - chemical parameters of water as per drinking water standards(IS-10500)	Rs 6,12,192/-
8	Concrete and Highway Materials Lab	99.15	Slump testing apparatus, V-Bee testing apparatus Cement. Impact testing Machine. Compression testing Machine etc.	Rs 12,10,705/-

### 31. Number of students receiving financial assistance from college, university, government or other agencies:

Year	No of students receiving financial assistance
2012-13	4
2013-14	18
2014-15	14
2015-16	21

Scholarship Details for Last Four Academic Years												
Sl. No.	Name of the Institutional Organization	Details	2015-16		2014-15		2013-14		2012-13		2011-12	
			No. of students	Amount in Rs.	No. of students	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.
1	Social welfare	SC/ST			7	Rs 2,98,970/-	4	Rs 1,70,840/-	2	Rs 85,420/-		
2	Government of Karnataka	SC/ST	2	Rs. 87,430	1	Rs. 40,720	5	Rs. 48,740				
3	Backward classes	OBC	14	Rs. 2,28,300	5	Rs 90,450/-	5	Rs 90,450/-				
4	CMR		5	Rs. 50,000	4	Rs 40,000	9	Rs 1,80,000/-	2	Rs 20,000		
5	KalyanSajamaj	SC/ST			12	Rs. 4,84,630	1	Rs. 37,720				

### 32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts:



Sl. No.	Lectures/ Workshops/ Seminar	Guest Speaker	Company Name	Date	No. of Students participated
1	Analysis of structures by using technical softwares	Mr. N Deepak Kumar	CADD Centre	24/04/2014	55
2	Application of GIS in highway alignment	Mrs. Sarala S,	DGM, SECON	19/02/2014	65
3	“Advanced techniques in surveying using Total station, GDPS and LIDAR	Mr. S Hemanth Reddy	Madhusiri group	8-9/10/2014	20
4	GIS application in Civil Engineering	Mr. RaghuRaj	Sunsoft Technologies	12/03/2015	65

### 33. Teaching methods adopted to improve student learning:

The main methodology for teaching in the department is Classroom teaching using chalk-board. The department has two classrooms with projector facility and one AV (audio visual) hall for taking classes. Depending on the subjects, the following are some of the methods used by the faculty.

The faculty members aim to deliver their lectures in an effective manner to enrich the knowledge of the students community. Some of the innovative teaching methodologies adopted are:

- Power point presentations which includes presentation of videos for understanding of few topics/ Black board Teaching.
- Lab Instruction sessions for the practical experience with respect to Lab oriented subjects
- Lab Refinement Committee (LRC) has been formed with the aim of monitoring the quality of lab conduction.
- Additional projects and publications based on the projects exist, which helps students to perform innovatively and can be motivated for further researchblend.
- Expert lectures and workshops are organized by the respective faculty to bridge the gap between the curriculum and industry requirements.
- Individual faculty web pages are created.

- Industrial visits are regularly organized to expose them to the current industrial trends and prepare them to learn to apply the technical knowledge gained during their course work.
- Intensive coaching Programme (ICP) classes are being conducted for the weaker students who are identified through their Internal Assessment test performance.
- Remedial Classes have been conducted for the failed students in the following semester to help them pass the subjects.
- Tutorial classes are provided for analytical courses in every semester as per the scheme
- Industry sponsored projects
- Seminars, lectures
- Home assignments
- Pairing intelligent and dull student

**34. Participation in institutional social responsibility (ISR) and extension activities:** NIL

**35. SWOC analysis of the department and Future plans:**

❖ STRENGTH:

- Management patronage.
- Young and dynamic department.
- Efficient and effective monitoring system.
- Adequate lab and learning infrastructure.

❖ WEAKNESS:

- Lack of industrial interaction.
- Lack of proper guidance.
- Student's quality.

❖ OPPORTUNITY:

- Knowledge upgrading through best practices.



- Alumni contact for career guidance
  - Encouragement for research and consultancy.
  - Inter disciplinary R&D.
- ❖ CHALLENGES:
- Brand Building.
  - Good placements.
  - Peer competition.
  - MOU's with R&D institutions and industries.
- ❖ Future plans of the department:
- Facilitate Placement and training – Encouragement and support for push to producing 100% result, develop technical and GK of students.
  - Give push to overall personality development of students.
  - Develop linkage with public institutions relevant to the field of civil engineering.
  - Organize student level symposiums, model making competitions and extend it to faculties.
  - Establish departmental centre for consultancy.
  - Organize open day exhibitions.
  - To establish VTU recognized Research Center.

### Annexure - 01

**Faculty involvement in active research (Guiding student research, leading Research Projects, engaged in individual/collaborative research activity, etc)**

Sl. No.	Faculty Name	Projects guided
1	Dr Asha M Nair	5
2	Mrs. Preeti Jacob	2
3	Ms. Bhavya K	1
4	Mrs. Sreelakshmi G	1
5	Mr. Karthik N M	4
6	Ms. VibhaDalawai	1
7	Mr. Mohammed Ismail	4

Sl. No.	Name of Students	USN	Title of Project	Name of Guide
1	Harish Choudhary	1CR11CV018	Planning of smart building with light transmitting, Self cleaning & Glass waste concrete	Dr Asha M Nair
	K. M. Patrick	1CR11CV057		
2	Narismhaswamy R	1CR11CV033	Adsorption by Non Conventional Method	MrsPreeti Jacob MsBhavya K
	S Hitesh Kumar	1CR11CV040		
	Vibha P G	1CR11CV055		
3	Chandana S	1CR11CV013	Capacity analysis of selected signalized intersection in the city of Bengaluru	Dr Asha M Nair
	Megha K	1CR11CV030		
	Prachurjya Das	1CR11CV034		
4	NagarajUche	1CR11CV032	Optimum Replacement of Mangalore tiles as fine Aggregate for cement Mortar and concrete mixes and its thermal conductivity characteristics	MrsSreelakshmi G
	Subramani N	1CR11CV047		
	Mahesh C H	1CR12CV405		
	Ravi Kamalpure	1CR12CV406		
5	Ashok N	1CR11CV008	Partial Replacement of cement with marble dust In concrete	MrKarthik N M
	Ramprasad K	1CR11CV039		
	Bharath S	1CR11CV010		
	Veeresh	1CR12CV410		
6	Sharath K S	1CR10CV001	Treatment of Automobile Wastewater	Dr. Asha M Nair
	Chandan K S	1CR11CV012		
	Harish H P	1CR11CV019		
	S Nikhileswar Reddy	1CR11CV041		
7	Shubhangi Pandey	1CR11CV046	Influence of glass fibre on Shear strength of sand and Quarry dust	Dr. Asha M Nair
	Santhoshi M	1CR11CV043		
	Sujeet Kumar	1CR11CV050		
	Aayush Mishra	1CR11CV002		
8	Lighith	1CR11CV025	Slump and Strength Characteristics of Super Plasticized concrete	MsVibhaDalawai
9	Dinesh Kumar D	1CR12CV401		
	Harikrishna V	1CR12CV403		
	Shiva Kumar	1CR12CV408		
	Rahul Bansal	1CR11CV038		





10	Sahil Kumar	1CR11CV042	Use of Rice Husk in cement Concrete	Mr Mohammed Ismail
	Tarun Kr Mahto	1CR11CV052		
	DevalKhirwal	1CR11CV016		
	ShashidharKolkar	1CR11CV045		
11	Hanumantharaju	1CR12CV402	To study the Physical properties of Geo-polymer concrete	MrKarthik N M
	Pururav V Redd	1CR11CV037		
	Prashant	1CR11CV035		
12	Jeevan A T	1CR12CV404	Analysis and Design of Multi-Story Building Using ETAB	MrKarthik N M
	Sachin H M	1CR12CV407		
	Swaroop Kumar S	1CR12CV409		
	NagarabenchiAmaresh	1CR11CV031		
13	Praveen Kumar	1CR11CV036	Strength Parameters of Fiber Reinforced Concrete Using Recron 3S	MrKarthik N M & Mr Mohammed Ismail
	Tushith Nag	1CR11CV053		
	Arun Kumar	1CR12CV400		
	Krithika M	1CR11CV023		
14	M Sai Deeephi	1CR11CV027	Study on Stabilized Mud Block as an Alternative Building Material	Dr. Asha M Nair
	Lohith M H	1CR11CV026		
	B N Nishanth	1CR11CV009		
	Abhishek Kumar Patel	1CR11CV004		
15	Ajay Kumar	1CR11CV005	Glass Fiber Reinforced Concrete	Mr Mohammed Ismail
	Amit Kumar	1CR11CV054		
	UjjwalAnand	1CR11CV006		
	Harsh Raj	1CR11CV020		
16	Bhaskar	1CR11CV011	Impact of Effluent polluted Bellandur Lake on Surrounding Ground Water Quality	MrsPreeti Jacob
	Sudhakar	1CR11CV048		
	Abhinav	1CR11CV003		
17	Rushing Cubaka Grace	1CR11CV059	Analysis and Design of Multi-storey building(G+6) Using Staad Pro	Mr Mohammed Ismail
	G JubiSaha	1CR11CV021		

### **Project Batch 2015-2016**

Sl No	Name of the Students	USN	Name of the Guide	Title of the project
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1	MOHAMMED ZEESHAN	1CR12CV024	Ms Vibha N Dalawai, & Mr Karthik N M	Design of sustainable residential units as per norms.
	TARUNA JAIPAL	1CR12CV049		
	MOHAMED YASEER	1CR12CV021		
	NAGASHRUTHI SHIVAKUMAR	1CR12CV031		
2.	LIKHITH J REDDY	1CR12CV017	Mr. Mohammed Ismail & Mr Mohammed Yusuf	Design of Smart building.
	PAVAN TENDULKAR	1CR12CV033		
	VIBHA M. PRASAD	1CR12CV062		
	MOHAN KUMAR A N	1CR12CV026		
3.	RANGANATH C	1CR12CV038	Mr Karthik N M	Experimental investigation of enhancing performance on stabilized mud block with Steel fibres.
	M ADITHYA	1CR12CV018		
	PRADEEP KUMAR BADAGA	1CR12CV034		
4.	SURAJ SAH	1CR12CV046	Dr Asha M Nair & Mrs Sreelakshmi G	Application of particle image velocimetry to understand Pile-Soil interaction.
	SONU KUMAR S	1CR12CV045		
5.	SANAKHAGEMBA	1CR12CV040	Mr Mohammed Ismail	Pushover analysis of Multi storey RC Building.
	SYED RAHAT HUSSAIN	1CR12CV047		
6.	ANWESH CHANDRA	1CR12CV003	Mrs Preeti Jacob	Recycling of plastic waste
	NILESH KUMAR	1CR12CV032		
	GAURAV SHARMA	1CR12CV011		
	MUNNA KUMAR PODAR	1CR12CV029		
7.	MANASA S	1CR12CV019	Mr Karthik M & Ms Bhavya K	Source management of Bellandur lake to mitigate the concentration of pollutants.
	VARSHA DIGGE	1CR12CV050		
	SHUBHITH N R	1CR12CV044		
	SHANKARA	1CR13CV405		
8.	KARTHIK J	1CR12CV013	Dr Asha M Nair & Mrs Sreelakshmi G	Experimental studies to investigate self cleansing property and light transmitting characteristics of masonry blocks.
	CHANDU KUMAR S V	1CR12CV008		
	MENDU SNEHA CHANDRIKA	1CR12CV020		
	KIRAN KATTIMANI	1CR12CV014		
9.	VIKRANT KUMAR	1CR12CV054	Mrs Preethi Raj & Naresh Dixit P S	Fibre reinforced concrete using jute fibres.
	RAMEEZ PASHA	1CR12CV037		
	VIVEK DUBEY	1CR12CV058		
	TANVEER ALAM	1CR12CV048		

10.	ABHISHEK MOHANTY	1CR12CV001	Mrs Preethi Raj	Stabilized masonry blocks using demolished brick masonry debris.
	APURV CHANDRAWAL	1CR12CV004		
	MUNIM ROSUL CHOUDHURY	1CR12CV028		
11.	SUGAN KUMAR.A	1CR11CV049	Mr Navanath M Prabha	Fibre reinforced Pervious concrete.
	SHIVA PRASAD H M	1CR13CV406		
	RAVI PANDEY	1CR12CV039		
	ABHISHEK SHEKAR	1CR12CV002		
12.	KUMAR DIVYANSHU	1CR12CV015	Mr Phaniraju M & Naresh Dixit P S	Analysis of strength characteristics for stabilization of black cotton soils using different additives.
	VISHAL KUMAR SINGH	1CR12CV057		
	MOHAMMAD HASEEB	1CR12CV022		
	KUMAR PARTHSARTHI	1CR12CV016		
13.	CHANDRASHEKHAR S	1CR13CV403	Mrs Preeti Jacob	Pervious concrete.
	SUNILRAJ. N	1CR13CV410		
	VINAY P	1CR12CV055		
	ASHOK KUMAR	1CR13CV401		
14.	AJAY KUMAR K C	1CR13CV400	Mr Shivakumara M J	Experimental investigation of performance of demolished building debris as aggregate substitute
	SUNIL R	1CR13CV409		
	SOMASHEKHAR T	1CR13CV407		
	BALRAJ GOUDA	1CR13CV402		
15.	VISHAL CHINNA RATHOD	1CR12CV056	Mr Ruchir A J	Influence of pond ash as a replacement of fine aggregate in concrete block.
	VICKY AGRAWAL	1CR12CV052		
	RAKESH BAGARIA	1CR12CV036		
	KUMAR MAYANK	1CR11CV024		
16.	MOHAMMED ZIA ULLA	1CR12CV025	Mr Shivakumara M J	Design of multi story residential building using E-tabs.
	SANDEEP PATEL	1CR12CV063		
	VIKASH KUMAR RAO	1CR12CV053		
	MOHAMMED KHAJA	1CR12CV023	Mrs.DivyaVishwanath & Dr. Asha M Nair	Behaviour of single geocell reinforced sections for different infills.
	SHASHI KUMAR	1CR12CV041		
	FATEH ARSHED MOHAMMED	1CR12CV010		
	PRIYA AUGUSTINE	1CR12CV035		

**Annexure- 2**

## Publications in Journals &amp; Conference

<i>Journals (Both National and International)</i>						
Sl. No.	Name of the Faculty	Title of the Journal Paper	Co-Author s	National/ International	Journals	Volume & Page No.
1	Dr. D P Giridhar	Inverted V-Notch: Practical Proportional Weir	K. Keshava Murthy	International	Journal of Irrigation and Drainage Engineering	Volume 115, Dec 1989 - Issue 6 pp:1035-1050
2	Dr. D P Giridhar	Improved Inverted V-Notch or chimney weir	K. Keshava Murthy	International	Journal of Irrigation and Drainage Engineering	Volume 116, May 1990 - Issue 3 pp:374-386
3	Dr. D P Giridhar	Geometrically simple linear weirs using circular quadrants – bell mouth weirs	K. Keshava Murthy	International	Journal of Hydraulic Research	Volume 29, July 1991 - Issue 4 pp:497-509
4	Dr. Asha M Nair	Performance of geosynthetics in unpaved roads	Madhavi Latha and Hemalatha, M.S	International	International Journal of Geotechnical Engineering	ISSN: 1938-6362 E-ISSN: 1939-7879; Vol. 4, No. 2, pp. 151-164. (2010)
5	Dr. Asha M Nair	Bearing resistance of reinforced soil-aggregate systems	Dr Madhavi Latha, G	National	Ground Improvement	ISSN 1755-0750 E-ISSN 1755-0769; Vol. 164, Issue GI2, pp. 83-95. (2011)
6	Dr. Asha M Nair	Taming of large diameter triaxial set up	Dr Madhavi Latha, G	International	Geomechanics and Engineering, An International Journal	ISSN: 2005-307X, E-ISSN: 2092-6219; Vol. 4, Issue No.4. pp. 251-262. (2012)



7	Dr. Shankar B.S.	Iron related disorders and its incidence in the ground waters of Bellandur area, Bangalore, India	-	International	IJAIR	ISSN:2278-7844(2012)
8	Dr. Shankar B.S.	Seasonal statistical analysis and inter-relationship between groundwater quality parameters for industrial belts of Bangalore,	-	International	IJAIR	ISSN:2278-7844(2012)
9	A. Azhaginiyal	Transport and Energy Interaction - A Systems Approach		National	Institute of Town Planners, India (ITPI Journal)	Volume 10, April –June; pp.44-65 (2013)
10	A. Azhaginiyal	System Dynamics Simulation Modeling of Transport, Energy and Emissions Interactions		International	Civil Engineering and Architecture	2(4), pp.149-165,(2014)
11	Karthik N M	Optimum Position of Outrigger System for High raised RC Buildings Using ETABS 2013.1.5 (Push over analysis)	N Jayramappa	International	International Journal of Advanced Technology in Engineering and Science www.ijates.com	Volume No.02, Issue No. 12, December 2014 ISSN (online): 2348 – 7550 Pg no 326-339
12	Dr. Asha M Nair	Cyclic loading behaviour of reinforced soil-aggregate bases	Dr MadhaviLatha, G	International	Ground Improvement	ISSN 1755-0750 E-ISSN 1755-0769; Vol. 167, Issue No.2. pp. 88-98 (2014)
13	Dr. Asha M Nair	Large diameter triaxial tests on geosynthetic reinforced	Dr MadhaviLatha, G	International	Journal of Materials in Civil Engineering,	ISSN 0899-1561 E- ISSN 1943-5533;

		granular sub-bases			ASCE	Vol. 27, No. 4 (2014): pp-04014148.
14	Dr. Asha M Nair	Geosynthetics in unpaved roads	Dr Madhavi Latha, G	National	Indian Journal of Geosynthetics and Ground Improvement	ISSN: 2277-5625 E-ISSN: 2277-5633 Vol. 3(2), 2014, pp.3-13
15	Karthik NM	Optimum Position of Outrigger System for Tall Vertical Irregularity Structures	Shivacharan K, Chandrakala S	International	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 12, Issue 2 Ver. II (Mar - Apr. 2015), PP 54-63
16	Mohammed Ismail	Evaluation of capacity of RCC framed Structure with different brace configuration using Pushover analysis	Mr.Che tan, Ms.Sushma	International	International research journal of engineering and technology	e-ISSN 2395-0056 p-ISSN-2396-0072 Volume 02, Issue 02, May 2015
17	Karthik NM	Analysis of Outrigger System for Tall Vertical Irregularities Structures Subjected to Lateral Loads	Shivacharan k, Chandrakala S, Narayana G	International	IJRET: International Journal of Research in Engineering and Technology	eISSN: 2319-1163   pISSN: 2321-7308, Volume: 04 Issue: 05, May-2015,
18	Shijina K	Experimental and Numerical Studies on Free Vibration Characteristics of a Three-Storied Building Frame	Mr.Supreeth A. R., Dr.Prema Kumar W. P., Mrs.Rekha B.	International	IJRET: International Journal of Research in Engineering and Technology	Volume 4, Issue.05, May - 2015, ISSN: 2278 – 0181
19	Shijina K	Effects of Plan Dimensions, Seismic Zone, Infill on Storey Drifts and Force Response of L-shaped Reinforced	Mr.Supreeth A. R., Dr.Prema Kumar W. P., Mrs.Re	International	IJRET: International Journal of Research in Engineering and Technology	Volume 4, Issue.07, July - 2015, ISSN: 2278 – 0181.

		Concrete Buildings	kha B			
20	Shijina K	Influence of Plan Dimensions, Seismic Zone, Infill on the Behaviour of I-shaped Reinforced Concrete Buildings	Mr.Supreeth A. R., Dr.Prema Kumar W. P., Mrs.Rekha B	International	IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)	e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 12, Issue 4 Ver.III (Jul.-Aug. 2015), PP 42-57.
21	Shijina K	Influence of Plan Dimensions, Seismic Zone, Infill on the Force and Deformation Responses of T-shaped Reinforced Concrete Buildings	Mr.Supreeth A. R., Dr.Prema Kumar W. P., Mrs.Rekha B	International	International Journal of Informative & Futuristic Research	, ISSN(online): 2347-1697, Paper ID: IJIFR/V2/E11/009, page no. 4053-4072. Published on 15-07-2015.
22	Shijina K	Force and Deformation Response of U-shaped Multi - storeyed Reinforced Concrete Buildings	Mr.Supreeth A. R., Dr.Prema Kumar W. P., Mrs.Rekha B	International	in International Journal of Scientific Engineering and Applied Science (IJSEAS)	Volume-1, Issue-5, August 2015, ISSN: 2395-3470
23	Mohamed Yusuf	Experimental study on innovative sections for cold formed steel beams			Steel and Composite Structures	Vol. 19, No. 6 pp. 1599-1610. (2015)
24	Dr. Asha M Nair	Repeated load tests on geosynthetic reinforced unpaved road sections	Dr MadhaviLatha, G	International	Geomechanics and Geoen지니어ing	ISSN: 1938-6362 E- ISSN: 1939-7879 11(2), pp.95-103 (2016)
25	Dr. Asha M Nair	Effect of sample size and anchorage on the performance of reinforced soil–aggregate systems	Dr MadhaviLatha, G	International	International Journal of Geotechnical Engineering	ISSN: 1938-6362 E-ISSN: 1939-7879; 10(1), pp.1-9.(2016)

26	Dr. Asha M Nair	Effect of Non-Linear Behaviour of Materials in Pavement Design	Lekshmi Suku, Pratibha R. and G.L.Sivakumar Babu	National	Indian Highways	ISSN 0376-2756 Volume: 44 Number: 7 July, pp. 13-23. (2016)
27	Mr.Karthik M	Gold mineralisation in BIF at Channapura area of Yedyur – Karighatta Schist Belt, Mandya District			IARJSET	Vol .2, pp.44-47.
28	Mr.Ruchir A J	Comparison of Seismic Performance of RC Flat slab with and without drop for steel bracing	Dakshayani S & Chaithra N	International	International Journal for Innovative Research in Science & Technology	ISSN (online): 2349-6010  Vol. 3, pp.36-41.
29	Mr.Ruchir A J	Behavior of Plan Irregularities Using Composite Members by Varying Column Spacing and by Varying Height of the Structure	B Kavitha, & Varunakoti	International	International Journal of Research in Engineering and Technology	ISSN: 2321-7308  Vol.05, pp.01-05
30	Karthik N M	Case Study on a Structural Building Subjected to Earthquake Forces Considering Soil Structure Interaction	Nawaraj Kapil, Dr.Rajendra .S, Likhtiam	International	International Journal on Recent and Innovation Trends in Computing and Communication (IJRITCC)	ISSN: 2321-8169, PP: 234 - 237, May 16 Volume 4 Issue 5
31	Karthik N M	Analysis of flat slab system with masonry infill subjected to seismic loading	Poornima K G, Vinod Shavre.	International	International journal of engineering research and technology	ISSN: 2278-0181, pg no: 264-267, june 2016, vol 5, issue 6



32	Karthik N M	Analysis of flat slab system with ferro cement infill subjected to seismic loading	Poornima K G, Vinod Shavre.	International	International journal of informative and futuristic research	ISSN: 2347-1697, Vol 3, Issue 10, June 2016
33	Karthik N M	Response Spectrum Method for the Analysis of a Vertically Irregular R.C. Building under Seismic Forces Considering Soil Structure Interaction- an Overview with Case Study	Nawaraj Kapil, Dr. Rajendra .S, Likhtia M, Vijay, K.	International	International Journal of Scientific and Technical Research in Engineering	Volume 1 Issue 4, July 2016
34	Karthik N M	Seismic response of vertically irregular RC building under seismic forces considering soil structure interaction by response spectrum analysis- A case study	Nawaraj Kapil, Dr. Rajendra .S, Likhtia M, Vijay, K.	International	International Journal of Current Research	ISSN: 0975-833X, Vol. 8, Issue, 06, pp.33327-33330, June, 2016
35	Naresh Dixit P S	Identification of type and degree of railway ballast fouling using ground coupled GPR antennas	. Anbazhagan, T.P. Bharatha,	International	Journal of Applied Geophysics	Volume 126, March 2016, Pages 183-190, ISSN 0926-9851,
Conferences(Both National and International)						
1	Dr. Asha M Nair	Performance of geosynthetics in unpaved roads	Dr MadhaviLatha, G	National	Proc. of Indian Geotechnical Conference, IISc, Bangalore	Vol. 2, pp 230-233 (2008)
2	Dr. Asha M. Nair	Bearing resistance of geosynthetic reinforced soil-aggregate systems	Dr MadhaviLatha, G	National	Proc. of Indian Geotechnical Conference, Guntur	Vol. 1, pp 185-88.(2009)

3	Dr. Asha M Nair	The effect of form and quantity of reinforcement in reinforced unpaved roads,	Dr MadhaviLatha, G		Proc. of 2nd Indian Young Geotechnical Engineers Conference, Kakinada,	14-15(2009), pp 77-80
4	Dr. Asha M Nair	Bearing resistance of geosynthetic reinforced soil-aggregate systems	Dr MadhaviLatha, G	International	Proc. of International Conference on Advances in Materials, Mechanics and Management, IMMM -2010, Thiruvananthapuram	Vol. 1, pp 457-463 (2010)
5	Dr. Asha M Nair	Benefits of geosynthetics in unpaved roads	Dr MadhaviLatha, G	National	Proceedings of Conference on Infrastructure, Sustainable Transportation and Urban Planning, Bangalore	E-proceedings , P002 (2010)
6	Dr. Asha M. Nair.	Performance of geosynthetic reinforced soil aggregate systems under cyclic loading	Dr MadhaviLatha, G	National	Proc. of Indian Geotechnical Conference, Kochi	Vol. 1, pp 537-540. (2011)
7	Dr. Asha M. Nair.	Model studies on geosynthetic reinforced unpaved road section	Dr MadhaviLatha, G	National	Proc. of Indian Geotechnical Conference, IIT Delhi	Vol. 1, pp. 219-222. (2012)
8	Dr. Asha M Nair	Strength behaviour of reinforced soil-aggregate systems under repeated and cyclic loading	Dr MadhaviLatha, G	International	Geotechnical Special Publication No. 225, ASCE, Geocongress - 2012, March 25-29, 2012, Oakland, California	GSP. No. 225, pp. 1513-1522 (2012)
9	Dr. Asha M. Nair.	Static and cyclic triaxial tests on geosynthetic reinforced granular sub-bases	Dr MadhaviLatha, G	National	Proc. of Indian Geotechnical Conference, IIT Roorkee	pp. 22-24. (2013)

10	Dr.Asha. M. Nair	Model Studies on Geocell Reinforced Granular Sub-bases	Dr MadhaviLatha, G	International	GSP 238, Geoshanghai, ASCE 2014, March 25-29, 2014, Shanghai, China	pp. 322-332. (2014)
11	Dr. Asha M. Nair.	Use of geocell as a reinforcing material for unpaved road sections	Dr MadhaviLatha, G	National	Geo-Innovations 2014, IISC Bangalore	e-proceedings
12	Ms.Divya Viswanath	Uplift Capacity of Piles in Lateritic soil	Chandisha E.V, L.Govindaraju	National	Geo-Innovations 2014, IISC Bangalore	e-proceedings
13	Ms.Sreelakshmi. G	Spectral analysis of Multi hinged Articulated towers in Random sea	Somasundaran. T. P.	National	TISI - 2015, NIT Calicut	pp.202-207. (2015)
14	Ms.Preeti Jacob	Temporal Analysis of Spatial Distribution of Built-Up Area in Peri- Urban Areas of Cochin, Kerala: Case-Study of Sub-Watershed in Periyar River	Dr. G. S. Dwarakish	International	ICWRCOE - 2015, NITK Surathkal	Elsevier Aquatic Proceedings 4(2015) 1445-1451
15	Ms.Preeti Jacob	Ground Water Quality Assessment Around Effluent Fed Bellandur lake, Bangalore	Dr. G. S. Dwarakish, Mr.Sudhakar S, Mr.Bhaskar Bhushan	International	HYDRO 2015 - IIT Roorkee	E-proceedings
16	Kiran R G	Effect of Bagasse ash on Compaction and shear characteristics of	K. Pramod, Manish, Pallavi	National	IMTCE-Kalasilingam University	e-proceedings
17	Dr.Asha. M. Nair	Alternative materials for construction	Mr. Harish Choudhary, Mr.Kwokwo Patrick, Dr.FazlurRahman, and	National	Proc. Book of abstracts, 8th KSTA Annual Conference on Science and Technology for	43-44. (2015)

			Dr. I. C. Lekshmi		GenNext Urban Space	
18	Dr.Asha. M. Nair,	Recycling of Waste Water Collected from Automobile Service Station	Mr.Chandan , K.S., Mr. Harish, H.P., Mr.Nikhiles war Reddy, S., Mr.Sharath, K.S. and Ms. Liza, G.M.	International	Elsevier, Procedia Environmental Sciences	35, pp.289-297. (2016)
19	Dr.Asha. M. Nair	Experimental Studies to Investigate Potential of Using Waste Materials as Infills for Geocell Reinforced Constructions	Ms.Divya V, Mr.Burhanuddin M K, Mr.Fateh A M, Ms.Priya A, Mr.Shashi K S	International	International Conference on Soil and Environment, IISc, Bangalore	E-proceedings . (2016)
20	Sreelakshmi G	Self-cleansing and light Transmitting Masonry Blocks- A product for “Make in India”	Asha M N and I C Lekshmi	National	PSG Nanochallenge 2016	Not published, Only certificate. (2016)
21	Ms.Sreelakshmi G	Application of Particle Image Velocimetry to Study Pile-Soil Interaction	Asha M . Nair and SurajSah	National	Indian Geotechnical Conference, IIT Madras	E-proceedings . (2016)
22	Ms.Sreelakshmi G	Smart Building Material For Construction	Mr. Harish C , Dr. Asha M N, Dr. I C Lekshmi , Dr.Manikandan R	National	Structural Engineering Convention, CSIR-SERC, Chennai, INDIA	pp. 682-685. (2016)



23	Naresh Dixit P S	Investigation of Soil Saturation and Compaction Homogeneity in the Failed Soil Nailed Wall and Fill Using Ground Penetrating Radar	Anbazhagan P, DeepuChan dran and Murali Krishna A,	Interntati onal	Proceedings of 4th international seminar on forensic geotechnical engineering,	Page-409- 426
24	Naresh Dixit P S	Analysis of layered hyperbolic paraboloid shells		Interntati onal	Proceedings of advances in research	Page-111- 113

## Applied Sciences and Humanities Department

### a. Physics

1. **Name of the Department: PHYSICS**
2. **Year of Establishment: 2000**
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., PH.D., Integrated masters; Integrated Ph.D., etc.):**

Programme	Course	Affiliated University	Year of Establishment	Initial Intake	Present Intake
Ph.D	Physics	VTU	2013	8 Scholars /	Guide

#### 4. Names of the Interdisciplinary courses and Departments/units involved:

Semester	Name of the Course / Subject	Departments Involved
I/II	Mathematics-I & II	Mathematics Department
I/II	Elements of civil engineering and engineering mechanics	Civil Department
I/II	Basic electrical engineering	Electrical Department
I/II	Elements of mechanical engineering	Mechanical Department

5. **Annual / Semester / Choice based credit system (Program wise): Semesterwise system**
6. **Participation of the department in the courses offered by other departments: NIL**
7. **Courses in collaboration with other universities / industries / foreign institutions, etc: NIL**
8. **Details of courses / programmes discontinued (if any) with reasons: NIL**
9. **Number of teaching posts:**

	Sanctioned	Filled
Professor	1	1
Associate Professors	2	2

Asst. Professors	6	6
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**10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.):**

Sl. No.	Name	Qualification	Designation	Specialization	No. of years of Experience	No. of PhD students guided for the last 4 years
1	Prof. Raveesha K.H.	M.Sc., M.Phil., Ph.D.	HOD & Associate Professor	Physics	20	-
2	Dr. Shyamsunder Hegde	M.Sc., Ph.D.	Professor	Physics	20	01
3	Dr. Rajesh Gopal	B.Tech., Ph.D.	Associate Professor	Physics	04	01
4	Prasad B.K.	M.Sc., M.Phil., (Ph.D.)	Assistant Professor	Physics	08	-
5	M. Antony Lilly Grace	M.Sc., M.Phil., (Ph.D.)	Assistant Professor	Physics	14	-
6	Sudarshana.R	M.Sc., M.Phil.	Assistant Professor	Physics	07	-
7	Dr. Suvitha	M.Sc., Ph.D.	Assistant Professor	Physics	04	-
8	Prof.Sandip Paul	M.Sc., (Ph.D).	Assistant Professor	Physics	02	-
9	Dr.Vindhyawasini Prasad	M.Sc., Ph.D.	Assistant Professor	Physics	02	-

**11. List of senior visiting faculty: NIL**

**12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty:**

All classes are held by regular faculty members

**13. Student–Teacher Ratio (Programmewise): 15:1**

**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

Academic Support Staff	Sanctioned	Filled
Technical Staff	02	02
Administrative staff	01	01
Helpers	02	02

**15. Qualifications of teaching faculty with DSc/ D.Litt./ Ph.D/ MPhil / PG:**

Sl. No.	Qualification	No. of Faculty
1	Ph.D	05
2	M.Phil.	04

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: NIL**

**17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL**

Sl. No.	Granting Agency	Year of Sanction	Grant Amount	Duration	Title of Research / Project
01	(VGST-TRIP)	2014	40,000/-	6 months	Fabrication of Low-Cost Solar Cells Using SnS Thin Films

**18. Research Center/ facility recognized by the University:**

Research Center	Sanctioned Year and letter	Name of supervisor	Research area of supervisor	No. of Students under each supervisor
Physics	2013 VTU/Aca-Res- cen/2013-14/3876	Dr. Shyamsunder Hegde	Solar cells, Thin films	01



## 19. Publications

### \* a) Publication per faculty

Sl. No.	Name	Number of publications					
		2016	2015	2014	2013	2012	2011
1	Dr. Raveesha K.H.	-	2	2	1	-	-
2	Dr. Shyamsunder Hegde	1	1	1	1	1	2
3	Dr. Rajesh Gopal	-	-	1	-	-	-
4	Dr. Suvitha	1	1	1	3	2	-
5	Prof.Sandip Paul	1	1	2	-	-	-
6	Dr.Vindhywasini Prasad	2	4	1	-	-	-
<b>Total:</b>		<b>05</b>	<b>09</b>	<b>08</b>	<b>07</b>	<b>07</b>	<b>10</b>

### \*Details Enclosed (ANNEXTURE-01)

### Number of papers published in peer reviewed journals (national /international) by faculty and students:

No. of publications					
2016	2015	2014	2013	2012	2011
03	5	7	6	5	10

\* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):

\* Monographs: Nil

\* Chapter in Books: Nil

\* Books Edited: NIL

\* Books with ISBN/ISSN numbers with details of publishers:

Sl. No.	Name	Title	Publisher	ISBN / ISSN	Year of Publication
	Nil				

\* Citation Index:

Sl. No.	Faculty Name	Citation Index
1	Dr. Raveesha K.H.	5
2	Dr. Shyamsunder Hegde	40
3	Dr. Rajesh Gopal	72
4	Dr. Suvitha	30
5	Prof.sandip paul	30
6	Dr.VIndhywasini Prasad	46

\* SNIP:

\* SJR:

\* Impact factor:

Sl. No.	Faculty Name	Impact Factor Range
1	Dr. Shyamsunder Hegde	1.2-1.9
2	Dr. Rajesh Gopal	1-3
3	Dr. Suvitha	1-1.5
4	Prof.Sandip Paul	1-2.5
5	Dr.Vindhywasini prasad	2-2.7

\* h-index:

Sl. No.	Faculty Name	h-index
1	Dr. Shyamsunder Hegde	3
2	Dr. Rajesh Gopal	2
3	Dr. Suvitha	1
4	Prof.Sandip Paul	4
5	Dr.Vindhyawasini Prasad	6

## 20. Areas of consultancy and income generated:

Sl. No.	Faculty Name	Company	Area(s) of Consultancy	Amount	Year
	Nil				

## 21. Faculty as members in

a) National Committees b) International Committees c) Editorial Boards...

Sl. No.	Faculty Name	Name of the Committee / Editorial Boards	Name of Organization/University	Type of Membership
01	Dr. Shyamsunder Hegde	ISTE	Indian Society for Technical Education	Life member

## 22. Student projects:

a) Percentage of students who have done in-house projects including inter-departmental/ Program:

Sl. No.	Academic Year	Percentage in house
NA		

b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies:

Sl. No.	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
NA		

## 23. Awards/ recognitions received by faculty and students:

Sl. No.	Name of the faculty	Name of the Award	Name of Agency	Year
1	Raveesha K H	15 years' Service award	CMR Institute of Technology, Bengaluru	2016
2	Prasad B K	5 years' Service award	CMR Institute of Technology, Bengaluru	2013
3	Dr. Shyamsunder Hegde	Best Project award – Traffic management	Christ university	2016

#### 24. List of eminent academicians and scientists/ visitors to the department:

Sl. No.	Name of Academicians/ Scientists / Visitors	Name of Company	Title
1	Dr. Vidyashankar B	GE Global Research, Bangalore	Recent Trends in Advanced Materials and Nanotechnology
2	Prof. S.M. Shivaprasad	JNCASR, Bangalore	Recent Trends in Advanced Materials and Nanotechnology
3	Prof. Dwarakasa	Former Professor, Dept. of Metallurgy, IISc	1) Electron Microscope 2) Recent Trends in Advanced Materials and Nanotechnology
4	Dr. Sandeep Kumar	Raman Research Institute, Bangalore	Recent Trends in Advanced Materials and Nanotechnology
5	Dr. Linga Murthy	CEO, Society for Integrated Circuit Technology and Applied Research (SITAR), Bangalore	Recent Trends in Advanced Materials and Nanotechnology
6	Dr. Venkatesh Gopal	Associate Prof., Elmhurst College, USA	Seeing the wind
7	Dr. Sumeet S Kumar,	Research Scholar, Technical University, Delft, Netherlands	1) High performance microprocessors 2) Processor Everywhere
8	Mr. Rajath B Rao,	MS, The University of California, USA	Plasmon confinement in nano devices-For photodetectors, Solar energy harvestors and Beyond

#### 25. Seminars / Conferences / Workshops organized and the source of funding:

a) National

Sl. No.	Title	Organizer	Year	No. of Participants	Resource Person	Funding Agency
01	Recent Trends in Advanced materials and Nanotechnology	Prof. Raveesha K.H.	2015	60	Dr. Vidyashankar B Prof. S.M. Shivaprasad	Karnataka Science and Technology Academy Dept. of Science and

		Dr. Shyamsunder Hegde Dr. Rajesh Gopal Dr. Kalpana Sharma			Prof. Dwarakasa	Technology, Govt. of Karnataka
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a) International: **Nil**

**26. Student Profile programme /course wise: NA**

**27. Diversity of students: NA**

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? NA**

**29. Student Progression: NA**

**30. Details of Infrastructural Facilities:**

a) Library:

Sl. No.	Area	No. of books	No. of mono graphs	No. of CDs	No. of journals	No. of reports	*Misc
1	8 Sq Mtrs	685	--	--	e-journals 104 Print - 10	--	20

\* includes syllabus, Question Papers, Magazines, Newsletters.

b) Internet facilities for Staff & Students:

The college has Internet connectivity of 40 Mbps broadband (Bell Tele services) Metronet and fiber enabled connectivity and 35 access points for Wireless connectivity. Internet facility is provided for both students and staff. Staffs are provided with CMRIT login credentials to access their account. Students are provided with digital library and Wi-Fi facility is available in college and hostel.

c) Class room with ICT Facility:

Sl. No.	Room No.	Shared / Exclusive	Area in Sqmts	Teaching aids
1	BS303	Exclusive	107 Sq Mtrs	LCD Projector& screen
2	BS304	Exclusive	105 Sq Mtrs	LCD Projector& screen

3	BS403	Exclusive	90 Sq Mtrs	LCD Projector& screen
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d) Laboratories:

Sl. No.	Name of Laboratory	Area	Major Equipments	Total Investment/ Amount spent
1	Lab-1	150 Sq. Mtrs	Ultrasonic Interferometer Four Probe Set-up Digital oscilloscope	Rs 9,90,592/-
2	Lab-2	150 Sq Mtrs		

### 31. Number of students receiving financial assistance from college, university, government or other agencies:

#### No of students receiving financial assistance

SCHOLARSHIP DETAILS FOR LAST FOUR ACADEMIC YEARS										
Sl.No.	Name of the Institutional Organization	Details	2014-15		2013-14		2012-13		2011-12	
			No. of students	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.
1	Social welfare	SC/ST	12	226800	10	180000	8	1400000	8	110400
2	Backward classes	OBC	24	360000	13	188500	10	140000	10	120000
3	Samaja KalyanDept	BCM- other state	19	247000	15	225000	12	168000	8	108000
4	Directorate of Collegiate education	Collegiate Edn.	8	128000	7	105000	4	52000	3	37500

### 32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts:

Sl. No.	Lectures / Workshops / Seminar	Guest Speaker	Company Name	Date	No. of Students participated
1	Recent Trends in Advanced materials and Nanotechnology	Dr. Vidyashankar B Prof. S.M. Shivaprasad	GE Global Research, Bangalore JNCASR, Bangalore	23/01/2015	60

		Dr. Linga Murthy	CEO, Society for Integrated Circuit Technology and Applied Research (Sitar), Bangalore		
		Dr. Sandeep Kumar	Raman Research Institute, Bangalore		
2	Electron microscope	Prof. Dwarakadasa	Former Professor, IISc.	6/11/14	80
3	Seeing the wind	Dr. Venkatesh Gopal	Assistant Professor, Elmhurst College, USA	20/11/14	60
4	High performance microprocessors	Mr. Sumeet S Kumar	Research Scholar, Technical University, Delft, Netherlands	13/1/12	40
5	Throwing light on dark matter	Mr. Prajwal,	Research Assistant, Mississippi state University, USA	12/12/11	58
6	Plasmon confinement in nano devices	Rajath B Rao,	MS, The University of California, USA	28/8/11	35
7	Service Oriented Architecture	Mr. Tirumalesh, MS	Illinois Institute of Technology, Chicago	21/3/11	46
8	Processor Processor Everywhere	Mr. Sumeet S Kumar	Research Scholar, Technical University, Delft, Netherlands	28/2/11	38

### 33. Teaching methods adopted to improve student learning:

- To improve the student learning, we follow some of the best practices of training the students. The faculty involve in making working models to demonstrate

principles being taught in Engineering Physics Theory classes. Discussions are held in the class on cutting edge technologies. Students are encouraged to prepare presentations and present it in the class. Students are encouraged to take up mini projects/ extended activities to enable them inculcate research skills. In physics laboratory sessions, students are required to conduct experiments using discrete components in place of readymade trainer kits. In the introductory lab session, students are made to acquaint themselves with digital multimeter (DMM), oscilloscope, bread board, electronic components etc. They are further trained to identify resistors using colour coding, and diodes and transistor using DMM. This enables them to choose the required components on their own while conducting the experiments.

- At the end of the semester, the lab internal exams are conducted in a unique manner which enables the students to apply the concepts learnt to new situations. During the examination, they are required to pick questions from a vast collection of innovative questions.
- Students are encouraged to perform few experiments beyond the syllabus to acquire additional knowledge. During each laboratory session students are asked typical viva questions to stimulate their thinking and encourage deeper understanding of the experiment.

- **Intensive Coaching Programme (ICP)**

Special attention is paid to slow learners by conduction special classes even after the college hours.

- **Counseling and mentoring**

Sometimes slow learners' may not have a specific goal regarding their education. Such issues are dealt with through individual counseling and mentoring.

- **Assignments**

Teaching–learning process is made effective by deliberately using models, live demonstration and videos. In order to engage the students with course material and reference books, assignments are given periodically and detailed solutions for those are provided.

#### **34. Participation in institutional social responsibility (ISR) and extension activities:**

The college has the NSS department in which the faculty and students regularly take part in activities such as blood donation camp, service to nearest old age home, government schools etc. Students have also contributed in environmental care activities like “World Water Day, Swachha Bharat Abhiyan -2014) etc



### 35. SWOC analysis of the department and Future plans:

#### Strength:

1. Department faculty are conducting research in the cutting edge areas like solar cells which has the potential to transform the society
2. Teachers are experienced and equipped with best teaching practices.
3. Department has produced consistently good results.
4. Teachers and students work on projects/activities beyond the curriculum.

#### Weakness:

1. Currently few research students in the department.

#### Opportunities:

1. To increase student internships
2. Planning additional experiments to demonstrate theoretical concepts.

#### Challenges:

1. To secure funding for research projects

#### Future plans of the department:

1. To nurture the creativity of students by introducing research internships for first year students.
2. Facilitating interdisciplinary research

### ANNEXURE-01

Sl.No.	Name of the Faculty	Title of the Paper/books/manuals/sponsored projects	Co-Authors	Journal/Proceedings	Volume & Page No.
1	Dr.Raveesha KH	Statistical Ananlysis of Associated and Non Associated Type II solar radio bursts during the increasing phase of solar cycle 23	Dr Kr Subramanian, Dr V H Doddamani	International Journal of Astronomy and Space sciences, 2013-1(40:29-44	2013-1(40:29-44
		Statistical Ananlysis of Associated and Non Associated Type II solar	Dr Kr Subramania	International Journal of	2013-2(4), 65-82

		radio bursts during the increasing phase of solar cycle 23	n,Dr V H Doddamani	Astronomy /2013-2(4), 65-82	
		On a method to employ Newton's rings concept to determine thickness of thin films	Mr Prasad,Dr VH Doddamani	International Letters on Physics, Chemistry and Astronomy	3(2014)1-7
		On a pictorial method of Visualising Curl & Determinant operation utilized in Electromagnetics	Dr V H Doddamani	Journal of Soft computing, Mathematics and Control /vol2, No 1,2013	vol2, No 1,2013
2	Dr. Shyamsunder Hegde	Optical and electrical properties of SnS semiconductor crystals grown by physical vapor deposition technique	Dr K Ramesh	Physica B: Physics of Condensed Matter	406/2011/1143-1148
		Structural and Mechanical properties of SnS single crystals	AG Kunjomana	Advanced Materials and its Applications, MacMillan Publishers	1/2012/45-56
		Preparation and characterization of SnS thin films for solar cell application	AG Kunjomana	International Journal of Soft Computing and Engineering	1/2011/38-55
		Photovoltaic structures using thermally evaporated SnS and CdS thin films	K Ramesh	Thin Solid Films	545/3013/543-547
		S.S. Hegde, A.G. Kunjomana and K. Ramesh "Microhardness Studies of Vapour Grown Tin (II) Sulfide Single Crystals".  <a href="http://dx.doi.org/10.1063/1.4918038">http://dx.doi.org/10.1063/1.4918038</a>	K Ramesh	AIP Conf. Proc.	1665, 100010 (2015);
3	DR Rajesh Gopal	Large Scale magnetic fields:Density power spectrum in redshift space	Suparna	Journal of Astrophysics and Astronomy	arxiv:1003.37/2010
		Magnetic field generation from pre-recombination era	Suparna	Monthly Notices of Royal Astronomical Society	arxiv:1101.2030/2020
		Tangled magnetic fields and CMBR signal from the reionization epoch	Shiv Sethi	Physical Review D	arxiv:astro-ph/05066/2005

		Cosmic magnetic fields : Origin and effects	Suparna	Bulletin of Astronomical Society of India	arxiv:1003.371/ 2010
		Magnetic fields and Sunyaev Zeldovich effect in galaxy clusters	Suparna	Journal of Cosmology and Astroparticle Physics	arxiv:astro- ph/066/2008
		Solving the relativistic hydrodynamic equation in the presence of magnetic fields for a phase transition in neutron star	Suparna	Journal of Physics G: Nuclear and Particle Physics	arxiv:100/31/20 12
4	Dr. Vindhyaw asini Prasad	XYZ radiative transitions at BESIII	N/A	CHARM-2015 conference proceeding	arXiv:1508.070 89 (2015)
		Search for low-mass Higgs and dark photons at BESIII	X.C. Lou and H.B. Li	CHARM-2015 conference proceeding	arXiv:1508.076 59 (2015)
		Study of photon detection efficiency and position resolution of BESIII calorimeter	C. X. Liu, X. B. Ji, W. D. Li, H. M. Liu and X. C. Lou	XXI DAE-BRNS Symposium proceeding	arXiv:1504.078 70 (2015)
		Observation and Spin- Parity Determination of the X(1835) in $J/\psi \rightarrow \gamma K_s^0 K_S^0 \eta$	M. Ablikim et. al	Phys. Rev. Lett.	115, 091803 (2015)
		Search for dark photon in $e^+e^-$ Collision at BaBar	J. P. Lees et. al.	Phys. Rev. Lett.	113, 201801 (2014)
		Search for a light Higgs boson decaying to two gluons or ss in the radiative decays of Y(1S)	J. P. Lees et. al.	Phys. Rev. D (RC)	88, 031701 (R) (2013)
		Search for di-muon decays of a low-mass Higgs boson in radiative decays of Y(1S)	J. P. Lees et. al.	Phys. Rev. D (RC)	87, 031102 (R) (2013)
		Search for low-mass darksector Higgs boson	J. P. Lees et. al.	Phys. Rev. Lett.	108, 211801 (2012)
		<i>Search for hadronic decays of a light Higgs boson in radiative decay <math>Y \rightarrow \gamma A_0</math></i>	J. P. Lees et. al.	Phys. Rev. Lett.	<b>107</b> , 221803 (2011)
5	Dr.Suvitha	Vibrational frequency analysis, FT-IR, FT- Raman, ab initio, HF and DFT studies, NBO, HOMO–LUMO and electronic structure	S. Periandy ,S. Boomadevi , M. Govindaraja n	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	117 (2014) 216– 224

		calculations on pycolinaldehyde oxime			
		FT-IR, FT-Raman, ab initio, HF and DFT studies, NBO, HOMO–LUMO and electronic structure calculations on 4-chloro-3-nitrotoluene	M. Govindarajana, M. Karabacak, S. Periandy	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	89 (2012) 137–148
		Vibrational frequency analysis, HF and DFT(B3LYP and B3PW91) studies, HOMO–LUMO and electronic structure calculations on 2-chloro-5-nitropyridine	S. Periandy, M. Govindarajan and S. Ramanlingam	Asian Journal of physics	23, no 6, (2014) 1069-1078.
		Vibrational spectroscopic studies, HOMO–LUMO, NBO, UV and NMR analysis of 4-acetylpyridine” Asian Journal of physics	S. Periandy, and M. Govindarajan	Asian Journal of physics	23, no 6 (2014) 1053-1062
		FT-IR, FT-Raman spectra and HF-DFT methods and NBO, HOMO-LUMO and electronic transition studies on 2, 2, 4 trimethyl Pentane	S. Periandy, M. Govindarajan and P. Gayathri	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	138 (2015) 900–912.
		NBO, HOMO–LUMO, UV, NLO, NMR and vibrational analysis of veratrole using FT-IR, FT-Raman, FT-NMR spectra and HF–DFT computational methods	S. Periandy, and P. Gayathri	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	138 (2015) 357–369
		Spectral investigations of preferential solvation and solute-solvent interactions of 1,4-dimethylamino anthraquinone in CH <sub>2</sub> Cl <sub>2</sub> /C <sub>2</sub> H <sub>5</sub> OH mixtures	Umadevi M, Latha K, Rajkumar BJ, Ramakrishnan .v	Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy	2007 Jul; 67(3-4):910-5.
6	Prof. Sandip	Sensing of 0.1 ppm of Methanol, Ethanol and Propanol Vapours at 130°C by SnO <sub>2</sub> Thin Film	Ayon Bhattacharjee	Particulate Science and Technology	2016 Mar, 1-8
		Enhanced surface activity of SnO <sub>2</sub> thin film verified by LM algorithm	N. Kumari, A. Bhattacharjee	Super Lattices and Microstructures	2016 April; 92; 24-36

		Impedance spectroscopy of Fe - doped SnO <sub>2</sub> synthesized by poly(ethyleneglycol) assisted chemical co - precipitation method	K. Bhattacharya, N. Kumari, A. Ghosh, A. Bhattacharjee	Journal of Nanoscience and Nanotechnology	Accepted
		Effect of silver doping on the current - voltage characteristic of PbS nanorods .	A. R. Mandal, A. Bekturganova, A. Ishteev, G. Karunakaran, D. Kunetsov	Physica E	2016 May; 79; 147-151
		SnO <sub>2</sub> as a Gas Sensing Material (Book Chapter)		Krishi Sanskriti Publication (Delhi)	In Press
		Methanol sensing by SnO <sub>2</sub> pellets prepared by chemical route method	N. Kumari, D. Bhattacharjee, A. Bhattacharjee	AIP Conference proceedings	2016; 20152; 1728
		Facile Synthesis of SnO <sub>2</sub> thin film by Spray Pyrolysis Technique and investigation of the structural, optical and electrical properties	S. D. Gunjal, N. Kumari, K. D. Diwate, K. C. Mohite, A. Bhattacharjee	Materials Today Proceedings (Elsevier)	2016; 1609-1619

**b. Chemistry**

**1. Name of the Department : CHEMISTRY**

**2. Year of Establishment : 2000**

**3. Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated masters; Integrated Ph.D., etc.):**

Programme	Course	Affiliated University	Year of Establishment	Initial Intake	Present Intake
Ph.D	Chemistry	Visvesvaraya Technological University, Belgaum, Karnataka	2010	-	-

**4. Names of the Interdisciplinary courses and Departments/units involved:**

Semester	Name of the Course / Subject	Departments Involved	Subject Code
I/II	Mathematics-I & II	Mathematics Department	15MAT11/21
I/II	Programming in C Data Structure	Computer Science Department	15PCD13/23
I/II	Basic electronics	Electronics Department	15ELN15/25
I/II	Computer aided engineering drawing	Mechanical Department	15CED14/24
I/II	Environment studies	Civil Department	15CIV18/28

**5. Annual/ Semester/ Choice based credit system(Program wise):**

Semester-wise system

**6. Participation of the department in the courses offered by other departments:**

NIL

**7. Courses in collaboration with other universities/industries/ foreign institutions,etc: NIL**

**8. Details of courses/programmes discontinued(ifany)with reasons: NA**

### 9. Number of teaching posts:

	Sanctioned	Filled
Professor	2	2
Associate Professors	2	2
Asst. Professors	5	5

### 10. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt. /Ph.D. / M. Phil. etc.):

Name	Qualification	Designation	Specialization	No. of years of Experience	No. of PhD students guided/guiding for the last 4 years
Dr. B. Narasimhamurthy	M.Sc.Ph.D	Professor, Head	Photo Catalysis	16	5
Dr. Phani Kumar Pulela	M.Sc.Ph.D	Professor	Chemical biology	16	7
Dr. Chaitanya Indira Lekshami	M.Sc.Ph.D	Associate Professor	Electronic materials and Nanocomposites	14	5
Dr. Manjunatha M.	M.Sc.Ph.D	Associate Professor	Inorganic & Bioinorganic Chemistry	14	1
Dr. Fazlur Rahaman	M.Sc.Ph.D	Assistant Professor	Inorganic & Bioinorganic Chemistry	12	3
Dr. Priti Gupta	M.Sc.Ph.D	Assistant Professor	Organic Chemistry	08	1
Dr.Soma Das	M.Sc. M.Phil, Ph.D	Assistant Professor	Inorganic Chemistry, Nanoscience	06	1
Dr. Subhi Baishya Konwar	M.Sc.Ph.D	Assistant Professor	Theoretical Catalytic Chemistry	01	--
Mr. Shivareddy	M.Sc, Ph.D	Assistant Professor	Inorganic Chemistry	08	--

### 11. List of senior visiting faculty: Nil

### 12. Percentage of lectures delivered and practical classes handled(Programme-wise)by temporary faculty:

- All classes are held by regular faculty members

**13. Student–Teacher Ratio (Programme wise): 15: 1**
**14. Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

Academic Support Staff	Sanctioned	Filled
Lab Instructor	01	01
Lab Attendant	01	01
Administrative Staff	01	01

**15. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:**

Sno.	Qualification	No. of Faculty
1	Ph D	8
2	M.Phil	2

**16. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received:**

Sn o.	Title	Principal Investigator	Funding Agency	Sanction (YES/NO)	Year of Sanction	Status
1	Development of Metal-oxide Heterostructures for Nanoelectronic and Photocatalytic Studies	<u>Principal investigator</u> Dr. Chaitanya Lekshami <u>Co-investigators</u> Dr. B. Narasimhamurthy Prof. Sabu Thomas Prof. Nandakumar Kalarikkal	DST project-Nanomission scheme Ref. No. SR/NM/NS-1161/2013	YES	2014	Ongoing
2	Material chemistry support for stabilizing neem limonoids	<u>Principal investigator</u> Dr. Phani Kumar Pullela	VGST Ref. No. VGST/SMYSR/GRD444/2014-2015	YES	2014	Ongoing
3	Spintronics studies on nanomaterial structural	<u>Principal investigator</u> Dr. Chaitanya	DST-young Scientist Scheme	YES	2015	Ongoing



	ferrites and selected composites	Lekshami	Ref. No.			
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**17. Departmental projects funded by DST - FIST; UGC, DBT, ICSSR, etc. and total grants received :**

Sn o.	Granting Agency	Year of Sanction	Grant Amount	Duration	Title of Research / Project
1	DST project- Nanomission scheme Ref. No. SR/NM/NS- 1161/2013	2014	60 lakhs	3 Yrs	Development of Metal-oxide Heterostructures for Nanoelectronic and Photocatalytic Studies
2	VGST Ref. No. VGST/SMYSR/GR D444/2014-2015	2014	4.00lakhs	2Yrs	Material chemistry support for stabilizing neem limonoids
3	DST-young Scientist Scheme Ref. No.	2015	23 lakhs	3 Yrs	Spintronics studies on nanomatestructural ferrites and selected composites
4	DST project	2011	29 lakhs	2011- 2014 3 Yrs	Biosensors for analysis of phenolic compounds in textile industry effluents
5	VTU project	2011	11lakhs	2011- 2014 3 Yrs	Biosensors for analysis of organo-phosphorous pesticides in food and environmental Samples
6	DST	2016	49.5 Lakhs	2016- 1018 2yrs	Fluorescence Nose (F-Nose) for MTB VOC detection

### 18. Research Center/ facility recognized by the University:

Research Center	Sanctioned Year and letter	Name of supervisor	Research area of supervisor	No. of Students under each supervisor
CHEMISTRY	2010/CMRIT/2010-11/404	Dr. B. Narasimhamurthy	Photo Catalysis	5
		Dr. Phani Kumar Pulela	Chemical biology	7
		Dr. Chaitanya indira Lekshami	Electronic materials and Nanocomposites	5
		Dr. Manjunatha M.	Inorganic & Bioinorganic Chemistry	1
		Dr. Fazlur Rahaman	Inorganic & Bioinorganic Chemistry	3
		Dr. Priti Gupta	Organic Chemistry	1
		Dr.Soma Das	Inorganic Chemistry, Nanoscience	1
		Dr. Subhi Baishya Konwar	Theoretical Catalytic Chemistry	-

### 19. Publications

#### \* a) Publication per faculty

Sno.	Name	Number of publications					
		2016	2015	2014	2013	2012	2011
1	Dr. B. Narasimhamurthy	1	1	-	-	1	-
2	Dr. Phani Kumar Pulela	2	-	2	1	-	
3	Dr. Chaitanya indira Lekshami	3	1	1	1	1	1
4	Dr. Manjunatha M.	3	1	1	-	-	2
5	Dr. Fazlur Rahaman	1	-	2	-	2	2

6	Dr. Priti Gupta	-	-	-	-	1	1
7	Dr.Soma Das	-	-	5	4	1	1
8	Dr. Subhi Baishya Konwar	-	1	1	-	2	1
9	Mr. Shiva reddy GV	1	-	-	-	-	-
<b>Total:</b>		11	4	12	6	8	8

**\* Number of papers published in peer reviewed journals (national / international) by faculty and students:**

No. of publications					
2016	2015	2014	2013	2012	2011
11	4	12	6	8	8

\* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.) : 41

\* Monographs: Nil

\* Chapter in Books: 03

\* Books Edited: Nil

\* Books with ISBN/ISSN numbers with details of publishers:

Sno.	Name	Title	Publisher	ISBN / ISSN	Year of Publication
1.	Dr. Phani Kumar	Separation Methods in Proteomics (Pg 467-487)	CRC Press	ISBN 9780824726997	2006
		Cytochrome P450 protocols (Pg 51-59)	Springer	ISBN:978-1-62703-320-6	2013
2.	Dr. B. Narasimha Murthy	Engineering Chemistry, (Pg 125-191)	Wiley India Pvt Ltd	ISBN:9788126519880	2011

3.	Dr. Soma Das	Recent advances in biological and chemical sciences, perspective to north-east India, (Pg. 143 – 152)	Global publishing house, India.	ISBN: 9789381563410	2013
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\* Citation Index:

Sno.	Faculty Name	Citation Index
1	Dr. B. Narasimhamurthy	388
2	Dr. Phani Kumar Pulela	711
3	Dr. Chaitanya indira Lekshami	428
4	Dr. Manjunatha M.	68
5	Dr. Fazlur Rahaman	62
6	Dr. Priti Gupta	529
7	Dr.Soma Das	53
8	Dr. Subhi Baishya Konwar	19
9	Mr. Shivareddy G V	05

\* Impact factor:

Sno.	Faculty Name	Impact Factor Range
1	Dr. B. Narasimhamurthy	0.3-3.7
2	Dr. Phani Kumar Pulela	2.2-6.8
3	Dr. Chaitanya indira Lekshami	2.2-12
4	Dr. Manjunatha M.	0.6-3.3
5	Dr. Fazlur Rahaman	0.6-2.2
6	Dr. Priti Gupta	2.4-5.7
7	Dr.Soma Das	0.3-5.1
8	Dr. Subhi Baishya Konwar	1-5
9	Mr. Shiva Reddy	0-0.5

\* h-index:

Sno.	Faculty Name	h-index
1	Dr. B. Narasimhamurthy	9
2	Dr. Phani Kumar Pulela	9
3	Dr. Chaitanya indira Lekshami	8
4	Dr. Manjunatha M.	4
5	Dr. Fazlur Rahaman	4
6	Dr. Priti Gupta	12
7	Dr.Soma Das	6
8	Dr. Subhi Baishya Konwar	3
9	Mr. Shiva reddy GV	2

20. Areas of consultancy and in come generated: Nil

## 21. Faculty as members in

a) National Committees b) International Committees c) Editorial Boards...

Sno.	Faculty Name	Name of the Committee / Editorial Board...	Name of Organization/University	Type of Membership
1.	Dr. Phani Kumar	IJIFR	International Journal of Informative & Futuristic Research (IJIFR)	Editorial member
2.	Dr. Chaitanya Lekshmi Indira	ECSI	Electrochemical Society of India	Member of Governing Council
		APS	American Physical Society	Post doctoral Member
		AAAS	American Association for Advancement of Science	Faculty member
		International Conference on 'World Conference on Microscopy'	M.G. University, Kottayam	Member of Advisory Committee
3.	Dr. Soma Das	Environmental sciences and its applications	Chitkara University, Punjab	Editorial member

## 22. Student projects:

- a) Percentage of students who have done in-house projects including inter-departmental/ Program: **NA**
- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/Industry/other agencies: **NA**

## 23. Awards/ recognitions received by faculty and students:

Sno.	Name of the faculty	Name of the Award	Name of Agency	Year
1.	Dr. B Narasimha Murthy	15 years' Service award	CMR Institute of Technology, Bengaluru	2015
2	Dr. Manjunatha M.	10 years' Service award	CMR Institute of Technology, Bengaluru	2013
3.	Dr. Phani Kumar Pallela	DOD Breast cancer concept award	US Army	
		ASBMB award	American Society for biochemistry and molecular biology	2005, 2006, 2007
		IUPAC award	IUPAC	2001
4.	Dr. ChaitanyaLekshmi Indira	Adarsh Vidya Saraswati Rashtriya Puraskar	Glacier Journal Research Foundation Global Management Council	2016
		DST Young Scientist Award	DST	2015
		Visiting Scientist,Massachusetts Institute of Technology	MIT, USA	2005
		Post Doctoral Fellowship under European Union Project	National Nanotechnology laboratory, Italy	2007

5	Dr. Soma Das	M.N. Krishna Pillai Award-2005	Tripura Chemical Society	2005
		Prof. P.V.Raghavendra Rao Memorial Award	Tripura Chemical Society	2007
		Post graduate merit scholarship	Ministry of Human Resource Development, Govt. of India	2005
6	Dr. Subhi Baishya Konwar	Senior Research Fellowship (2013-2015)	CSIR	2013
		Post graduate merit scholarship	Ministry of Human Resource Development, Govt. of India	2007

S.NO	Project Awarded by	Project Title	Name of the students
1	IEEE Aleyhum July 2014	Desalination of water to increase farming water for farmers. First of its kind in the world, developed to reduce suicide deaths of farmers.	Rushingwa Grance, Raazia Fathima, Syed Abrar Hussaini
2	Ideas for India 1st prize, November- 2014	Crowd funding for farmers to provide interest and risk free farming loans.	Manideepa, Sai Apoorva, Juhi Joseph
3	Ideas for India 3rd prize , November- 2014	Government programs for rural women and for their empowerment.	Priyanka G, Kavya K
4	Ideas for India, Consolation prize, November- 2014	Indian MSME is the most vulnerable class due to globalization and this project tries to provide technological guidance for them.	Mrunalini Srinivas, Aishwarya Jakka
5	CMR IMS Eureka 2K15 December-2015	Develop near zero-cost bricks for non-critical structures.	Pawani Tungana, Pavan Kondoji , Shruthi Rajendran

6	Ideathon 2.0 January-2015	“Smart Hat” which will record photos & videos “hands-free”.	PavanKondoji, ShruthiRajendran
7	Ideathon 2.0 January 2015	A platform to auction bank mortgaged houses for obtaining optimum prices for the home owners and elimination brokers and artificial spiking of prices.	PrabeshKhadka
8	FKCCI, Manthan, October 2014 challenge- Prizes April 2015	Slim Pizza & uses a Karnataka ‘slocal substitute of tamarind Kokum (GarciniaIndica) for making pizza sauce.	AishwaryaJakka, MrunaliniSrinivas, Nikita Sara Sunil
9	TP Pitch Off March 2015	“Slim Pizza”. Some of the investors came for competition have taken the CMRIT MOUs for consideration.	AishwaryaJakka, MrunaliniSrinivas, Nikita Sara Sunil
10	Srishti, 1st prize, Swachha Bharat-April 2015	Create a reuse for every plastic packaging material, say for example a washing powder sachet will expand to become a garbage bag. An additional secondary use for every packaging material.	TarunBhaskar
11	KSCST -March 2015	Dismantlable houses for urban & rural slums & use recycled plastic, flyash and sand for building the same.	Prof. Srinivas Reddy, Pranav, Sayak Bhattacharya, Kourshik Reddy, Prof. Joseph Sajan
12	Srishti, 1st Prize, Rural Development, April 2015	Women Empowerment application.	Rachana K, Kavya K, Chandini Singh
13	Srishti, 1st Prize, Affordable healthcareApril 2015	“Sodium polyacrylate” to concentrate gold nanoparticles enabling very cheap lateral flow diagnostic devices.	Samata R, PriyankaPurva, Lavanya
14	IEEE UPP mini project- August 2015	Developing a Vehicle safety module (VSM) which will inform about an accident remotely without human interference.	Pavan R, Anoop CJ, Kushal I



15	Ideas for India November 2015, 1st prize,	Multimetal catalyst to clean Bellandur lake & treat industrial polluted water.	Nithin Kumar, Shashank, Avinash,
16	Ideas for India November 2015, 2nd prize	Polymer- flyash bricks for non-critical structures.	Pavan R, Anoop CJ, Naren M, Pranav Bhat, Vinay Nithin Kumar, Sudarshan, Gururaj, Prof. Srinivas Reddy, Prof. Karthik NM
17	Ideas for India November 2015, 3rd prize	A smart mouth imaging tool.	Sayak Bhattacharya, Asher John Sathya
18	Ideas for India November 2015, 3rd prize	A neem bandage for plants organic pesticides for vegetable growth	NidhiPoddar, Sujana M, Komal, Pavithra
19	GE Edison challenge January-March 2016 finalist	Vehicle Safety Module (VSM), finals on March 16th and 17th 2016	Anoop CJ, Kushal I, Pavan R
20	SrishtiApril 2015	CMRIT Overall Runners	64 students from Chemistry department participated with 19 different projects
21	SrishtiMay 2016	CMRIT Overall Runners	~200 students with over 50 projects from Chemistry Department
22	SrishtiMay 2016	Technical paper presentation, Mechanical: Dismantlable houses: A technology innovation for slums, 2nd prize	Koushik Reddy, Sayak Bhattacharya
23	SrishtiMay 2016	Technical paper Oral presentation: Monitoring Tuberculosis Drug Adherence in patients, 3rd prize	Anjali N, Darshan R
24	SrishtiMay 2016	Water tap That- ICT in rural development, 2nd prize	Ayush Gupta, Fisbasamreen
25	SrishtiMay 2016	ICT in Healthcare, Indigenous Nucleic Acid Extraction Device from clinical samples, 1st Prize	Anjali N, Vandana, Deepika R

26	SrishtiMay 2016	Avishkar: Smart MOP, consolation Prize	Chandni Singh, Bhanupriya, Bharat Kumar, Akshita D
27	SrishtiMay 2016	Waste O Mania, Polymer-flyash bricks for non-critical structures, 2nd Prize	Pavan R, Anoop CJ, Naren M, Pranav Bhat, Vinay Nithin Kumar, Sudarshan, Gururaj, Prof. Srinivas Reddy, Prof. Karthik NM
28	Stanford University UIF September 2016	University Innovation Fellows program, Google's US \$ 4000 scholarship	Asher John Sathya, Priyanka Srivastava, AbhayRangan
29	Grace Hopper Celebration of Women in Computing India (GHCI) Scholarship Applied July 2016, Selected September 2016	Rs 7000 scholarship, All paid (food, accommodation, etc) 3 Days, 2 Nights stay at Taj Vivanta, Bangalore, Free admission to internship & networking meetings etc	Manogna M, Priyanka Srivastava
30	FKCCI Manthan Challenge October 2015, Prize distribution April 2016	Polymer-flyash bricks for non-critical structures, Consolation Prize (Rs 10,000/-)	Pavan R, Anoop CJ, Naren M, Pranav Bhat, Vinay, Nithin Kumar, Sudarshan, Gururaj, Prof. Srinivas Reddy, Prof. Karthik NM
31	FKCCI Manthan Challenge October 2015, Prize distribution April 2016	Veganarke (Prize Rs 50,000/-)	AbhayRangan
32	Indian Innovation Fair, Bangalore, September 2016	Utility of Flyash- Gold Medal	Pavan R, Anoop CJ, Naren M, Pranav Bhat, Vinay, Nithin Kumar, Sudarshan, Gururaj, Prof. Srinivas Reddy, Prof. Karthik NM
33	Indian Innovation Fair, Bangalore, September 2016	Utility of Flyash- Portuguese Medal for Contribution to Innovation	Pavan R, Anoop CJ, Naren M, Pranav Bhat, Vinay Nithin Kumar, Sudarshan, Gururaj, Prof. Srinivas Reddy, Prof. Karthik NM
34	Arihant Trust- Awards for Rural, Meritorious Girl Students- Applied June 2016, August 2016	Total of 1,20,000/- (one lakh twenty thousand rupees) given to ten deserving CMRIT students	Rakshita Bhat, Shilpa HV, Kavya S, Manjusha C, Varsha S, Deeksha, Sindhura M

			Nadgir, Vedashree, Lakshmi Shravya, Ravali
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#### 24. List of eminent academicians and scientists/ visitors to the department:

Sno.	Name of Academicians/ Scientists / Visitors	Name of Company	Title
1.	Prof. Keshav A. Bulbule	K.L.E'S Nijalingappa College, Bengaluru	Recovery of metals from end of life personal computers
2.	Prof. Hiremath H.M.	Indian Institute of Astrophysics, Bengaluru	Internal structure, Dynamics and chemical composition of Sun
3.	Dr. Laxmi Narasimhan	Shell, Bangalore	Innovative catalysis – Key Enabler for Technology Solutions in Energy Industry
4.	Dr. Vinod Prabhakaran	NCL, Pune	Nanoscale catalysis and Monitoring surfaces at work
5.	Prof. Sandeep Kumar	Raman Research Institute, Bangalore	Liquid Crystalline Nanocomposites as Advanced Materials for Energy Harvesting
6.	Prof. R. Vijayaraghavan	VIT, Vellore	Advanced Materials for Energy Generation, Energy Saving and Energy Storage
7.	Prof. P. S. Anil Kumar	IISc, Bangalore	Spintronics: A potentially green technology for the IT sector
8.	Prof. E. S. Dwarakadasa	Karnataka Hybrid Micro Devices Ltd, Bangalore	Advanced Electronic Materials

9.	Dr. P. K. Panda	NAL, Bangalore	PZT Materials and Devices For Vibration Energy Harvesting
10.	Dr. B. L. V. Prasad	NCL, Pune	Appropriately “Dressed” Functional Nanoparticles
11.	Dr. Indranil Rudra	Shell, Bangalore	Prediction of Properties of fuel and lubricant
12.	Prof. S. Ramasesha	IISC, Bangalore	Quantum Chemical Studies of Molecular Materials
13.	Dr. Nalini Sundaram	PPISR, Bangalore	Analysis of Powder Diffraction Data by Computational Techniques: The Rietveld Method
14.	Dr. N. Shanthi	Jain University	Band structure studies and properties of materials
15.	Prof. S. Yashonath	IISC, Bangalore	Molecular Dynamics
16.	Dr. Vasudeva Kumar M.	Shell, Bangalore	Simulation Tools for process Industries - An Overview
17.	Dr. Vinay R. Gopala	Shell, Bangalore	Computational Fluid Dynamics - An Introduction
18.	Dr. Venkat Krishnan	SABIC, Bangalore	Intellectual Property Rights: Significance and Overview of Types of IPR

## 25. Seminars/Conferences/Workshops organized and the source of funding:

### a) National

SNo	Title	Organizer	Year	No. of Participants	Resource Person	Funding Agency
1	Scope of advanced material in energy and environment.	Dr. Chaitanya Lekshmi & Dr. B Narasimhamurthy	2012	80	1. Dr. Laxmi Narasimhan 2. Dr. Vinod Prabhakaran 3. Prof. Sandeep Kumar 4. Prof. R. Vijayaraghavan 5. Prof. P. S. Anil Kumar 6. Prof. E. S. Dwarakadasa 7. Dr. P. K. Panda 8. Dr. B. L. V. Prasad	CMRIT / Shell India Pvt ltd, Bank of India, Vasa Scientific Suppliers
2	Modelling & Simulation of Multiscale Systems.	Dr. Chaitanya Lekshmi, Dr. Fazlur Rahaman & Dr. Soma Das	2015	40	1. Prof. S. Ramasesha 2. Dr. Nalini Sundaram 3. Dr. N. Shanthi 4. Prof. S. Yashonath 5. Dr. Vasudeva Kumar M 6. Dr. Vinay R. Gopala 7. Dr. Venkat Krishnan	CMRIT / Bank of India

### b) International: NIL

## 26. Student Profile programme /course wise: NA

**27. Diversity of students: NA**

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.? NA**

**29. Student Progression: NA**

**30. Details of Infrastructural Facilities:**

a) **Library:**

Area	No. of books	No. of mono graphs	No. of CDs	No. of journals	No. of reports	*Misc
9 Sqm	494	-	-	106		10

\* includes syllabus, Question Papers, Magazines, Newsletters.

b) **Internet facilities for Staff & Students:** The college has Internet connectivity of 30 Mbps broadband (Bell Tele services) Metronet and fiber enabled connectivity and 35 access points for Wireless connectivity. Internet facility is provided for both students and staff. Staffs are provided with CMRIT login credentials to access their account. Students are provided with digital library and Wi-Fi facility is available in college and hostel.

c) **Class room with ICT Facility:**

Sno.	Room No.	Shared / Exclusive	Area in Sqmts	Teaching aids
1	101	Exclusive	80 Sq. Mts.	LCD Projector & screen
2	104	Exclusive	90 Sq. Mts.	LCD Projector& screen

## d) Laboratories:

Sl.no.	Name of Laboratory	Area	Major Equipments	Total Investment/ Amount spent
1	Lab-1	150 Sq. Mtrs	Flame photometer, Conductometer, colorimeter, pH meter, Potentiometer, Weighing balance, Hot air oven, UV - Visible spectrometer.	1270000/-
2	Lab-2	150 Sq Mtrs		

### 31. Number of students receiving financial assistance from college, university, government or other agencies:

Year	No of students receiving financial assistance
	NA

SCHOLARSHIP DETAILS FOR LAST FOUR ACADEMIC YEARS										
Sn o.	Name of the Institutional Organization	Details	2014-15		2013-14		2012-13		2011-12	
			No. of students	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.
1	Social welfare	SC/ST	15	285000	13	247000	10	190000	10	190000

2	Backward classes	OBC	23	45000	20	30000	19	28500	17	27200
3	SamajaKalyanDept	BCM-other state	12	15600	08	10400	07	91000	5	65000
4	Directorate of Collegiate education	Collegiate Edn.	2	2000	2	32000	2	2000	2	32000

**32. Detailson student enrichment programmes (special lectures / workshops / Seminar) with external experts:**

Sno.	Lectures/ Workshops/ Seminar	Guest Speaker	Company Name	Date	No. of Students participated
1	Guest lecture on "Recovery of metals from end of life personal computers"	Prof. Keshav A. Bulbule	K.L.E Society's Nijalingappa College, Bengaluru	6.4.13	100
2	Guest lecture on "Internal structure, Dynamics and chemical composition of Sun"	Prof. Hiremath H.M.	Indian Institute of Astrophysics, Bengaluru	26.9.13	100
3	Guest lecture on "Prediction of Properties of fuel and lubricant"	Dr. Indranil Rudra	Shell India Pvt Ltd, Bengaluru	05.06.15	100



### 33. Teaching methods adopted to improve student learning

- The syllabus is divided to multiple modules, each catering to a different sub-topic covered under the course offered, as per the University guidelines. Effort is taken by teachers to highlight the scope and significant of the topic discussed beyond the small portion covered in the syllabus in order for the students to realize the same with respect to higher learning, research and application. This requires tremendous preparation and reading on the part of the teacher.
- Assignment for a module is given covering all relevant portions and in manner such that student needs to read through the module, understand the basic concepts and mathematical relations addressed, solve numericals where applicable, and look through reference books to get comprehensive idea without spending more hours that allotted for the portion. Solutions to assignments and best submission are highlighted in the individual webpage of the course faculty.
- Slide presentations are given and models are shown by faculty on portions that require demonstration of molecular structures (eg: fullerenes and multi-walled carbon nanotubes under nanomaterials, different structures of conducting polymers) or constructions to understand better the concepts.
- Students are encouraged to give presentations on short topics under different modules. They are advised to read beyond text book to present the same.
- Multiple internal tests are conducted periodically to assess the student learning and special tutorials conducted to help weaker students. Mentoring is carried out throughout the semester by allotted faculty members to address specific grievances of the students and any difficulty faced by them inside or outside the classroom; and in specific cases the guardians are also encouraged to participate. Counseling is also undertaken when a student has larger issues to deal with.
- In Engineering Chemistry lab, all experiments suggested under the syllabus are covered over the semester. Students are encouraged to submit observation books and duly written records for each experiment. The submissions require a detailed description of the experiment, calculations undertaken or analysis performed. Care is taken to highlight (i) the experimental procedures as relevant to the concept and its applications; (ii) pattern of graphs obtained; or a (iii) particular observation of an experiment.
- Lab sessions also include discussing viva questions under the topic and performing few related experiments beyond the described syllabus. General marking is done for every lab session, in order to bring about transparency for lab conduction and evaluation. Marking is based on regular attendance of the lab by the student, careful performance and reporting of the experiments, neatness of record submitted and performance in viva. These marks thus allotted are taken for internal lab assessment.

- At the close of the semester, slow learners are identified and advised to take intensive coaching program (ICP) which extends beyond college hours.
- Students are encouraged to collaborate with the department faculty on mini projects and final year semester projects. Over the last two years, there has been lot of involvement of faculty in this area in material preparation, property analysis and application. Many projects have been successfully completed; and newer projects are being considered that are extensions of research projects undertaken by the department faculty, which is commendable.

### **34. Participation in institutional social responsibility (ISR) and extension activities:**

The college has the NSS department in which the faculty and students regularly take part in activities such as blood donation camp, service to nearest old age home, government schools etc. Students have also contributed in environmental care activities like “World Water Day, Swachha Bharat Abhiyan -2014) etc

### **35. SWOC Analysis of the Department and Future Plans**

#### **Strength**

- Well-qualified faculty with research experience in diversified areas. Department currently owns two major and one seed money grant. More projects are being submitted by different faculty for funding to different agencies.
- Department is currently a VTU recognized research centre and Ph.D. program of CMR University chemical sciences is also underway here. About 10 research students are currently pursuing their Ph.D. work here. Have acquired some standard research facilities under previous projects and in the process of acquiring thin film setup and other preparatory and analytical set up in the currently sanctioned projects. Proximity to important research institutes of Bangalore like IISc, RRI and JNC are also added advantage.
- Teachers have long teaching experience and capability to handle UG and PG courses. Consistent results have been produced in Engineering Chemistry over last 15 years. Currently faculty at the department have designed Ph.D. program syllabus on nanomaterials being offered by CMR University.
- Interdisciplinary senior level student projects are being regularly handled by various faculty at the department in collaboration with other engineering faculty of the institute. Students under our guidance have also won laurels in different competitive project exhibitions undertaken by different organizations.

- Well-equipped teaching rooms (some) with projector facility and engineering chemistry laboratory are assets; department also contributes to literal activities of the college through its magazine; and department has a small collections of relevant reference books both for engineering chemistry and on different standard topics of the department.
- Have entered into partnership with important engineering colleges through participation in joint consortium activities; currently pursuing MOUs and collaborative projects with local industries.

### **Weakness**

- Advanced measures need to be taken for more careful handling of chemicals and experiments. This includes having chemical fumehood, waterbath and micropipettes for pipetting organic solvents in the engineering chemistry lab.
- Curriculum needs to be upgraded to the levels of national institutes to attract even better students. More reach out to industry partnership in research and student projects is desirable, which would equip students with good work experience and even better placement.

### **Opportunities**

- Possibility of introducing interdisciplinary PG programs on relevant disciplines and with significant electives; Capable of inviting industry sponsored projects that will bring in senior students, challenging student and research projects.
- Management supports through partial financial assistance, the participation of faculty in scientific and technical conferences, seminars and workshops at national and international levels.
- Can house incubation centre with significant customized project schemes relevant to technology and societal needs and with dedicated technical staff.
- Networking and sharing of knowledge with other teaching and research institutes is highly encouraged.

### **Challenges**

- Acquiring advanced characterization and analytical facility through funded research projects; through this the department aims to be raised eventually to a centre of excellence for chemistry and materials.
- Raise the curriculum and teaching standards par national level; Acquire advanced state of the art undergraduate/postgraduate labs.
- To provide object oriented and skill developing teaching and learning process in the department.

### **Future plans**

- Hire larger pool of efficient faculty and technical staff to handle aimed targets. Acquire more appointment of research associates; introducing project internships for undergraduate students.
- Obtaining specialized projects through consortium activities, government funding agencies and industry and government lab partnership.
- Dedicated building housing research labs, UG/PG labs and classrooms and conference halls.

### c. Mathematics

1. **Name of the Department: Mathematics**
2. **Year of Establishment: 2000**
3. **Names of Programmes / Courses offered (UG, PG, M.Phil., Ph.D., Integrated masters; Integrated Ph.D., etc.):**

Programme	Course	Affiliated University	Year of Establishment	Initial Intake	Present Intake
Ph.D	Mathematics	Visveswaraya Technological University, Belgaum, Karnataka	2009	-	1

4. **Names of the Interdisciplinary courses and Departments/units involved:**

Semester	Name of the Course / Subject	Subject Code	Departments Involved
III B.E	Discrete Mathematics	10CS34	Computer Science Engineering /Information Science Engineering (CSE/ISE)
IV B.E	Graph Theory and Combinatorics	10CS42	
VI B.E	Operations Research	10CS661	
I M. Tech	Linear Algebra	12ELD11	Electronics and Communication Engineering/ Telecommunication Engineering (ECE/TCE)
I M. Tech	Advanced Mathematics	16MMD11	M.Tech VLSI/Digital Communication
I M. Tech	Applied Mathematics	16MMD11	M.Tech Machine Design
I MCA	Discrete Mathematics	15MCA15	M.C.A

5. **Annual/ Semester/ Choice based credit system (Program wise): Semester**
6. **Participation of the department in the courses offered by other departments:**

Sl. No.	Semester	Subjects handled	Department	Subject Code
1	I-IV	Engineering Mathematics-I, II, III, IV	All Engineering Departments	10MAT11,21,31,41
2	III	Discrete Mathematical Structures	CSE/ISE/	10CS34
3	I M.Tech	Advanced Mathematics	ECE	12MMD11/14ELD11
4	I M.Tech	Probability and Random Process	ECE/TCE	14ECS13
5	I M.Tech	Applied Mathematics	16MMD11	M.Tech Machine Design
6	I MCA	Discrete Mathematics	15MCA15	M.C.A

7. Courses in collaboration with other universities/ industries/ foreign institutions, etc: Nil

8. Details of courses / programmes discontinued (if any) with reasons: Nil

9. Number of teaching posts:

	Sanctioned	Filled
Professor	1	1
Associate Professors	3	3
Asst. Professors	11	12

1. Faculty profile with name, qualification, designation, specialization, (D.Sc. / D.Litt. / Ph.D. / M. Phil. Etc.):

Sl. No.	Name	Qualification	Designation	Specialization	No. of years of Experience	No. of Ph.D students guided for the last 4 years
1	Dr. K. Meenakshi	M. Sc., M.Phil., Ph.D	Professor & Head	Graph Theory	17	01
2	Dr. Kamal Kumar	M. Sc. M.Phil.,Ph.D, DCA	Associate Professor	Graph Theory & FEM	12	

3	Mr. Santosh	M. Sc. (Ph.D)	Associate Professor	Graph Theory	17	
4	Mr. Prathap.D	M. Sc. M.Phil., (Ph.D)	Associate Professor	Graph Theory	20	
5	Mrs. K. N. Asha	M. Sc.	Assistant Professor	Fluid Mechanics	10	
6	Mrs. Revathi. R	M. Sc.	Assistant Professor	Numerical Analysis	6	
7	Mrs. Thulasi. L	M. Sc. M.Phil	Assistant Professor	Fluid Mechanics	10	
8	Mrs. Usha. A. R	M. Sc.	Assistant Professor	Graph Theory	8	
9	Mrs.Uma Vinod	M. Sc. M.Phil	Assistant Professor	Linear Algebra	14	
10	Mrs. Uma Raju	M. Sc. M.Phil	Assistant Professor	Graph Theory	3	
11	Mrs. Bharti Sharma	M. Sc. M.Phil	Assistant Professor	Fluid Mechanics	8	
12	Mrs.Vasanthi.G	M. Sc.	Assistant Professor	Fluid Mechanics	5	
13	Mr.Sriram.K.S	M. Sc.	Assistant Professor	Fluid Mechanics	4	
14	Dr. Sunandha Saha	M. Sc. Ph.D	Associate Professor	Water Wave Mechanics	1	
15	Mrs. Vijaya Lakshmi. G	M. Sc.	Assistant Professor	Graph Theory	7	
16	Ms.Sumathi Thareja	M. Sc	Assistant Professor	Fluid Mechanics	0	

**11. List of senior visiting faculty:** Nil

**12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty:** Nil

**13. Student – Teacher Ratio (Programme wise):** 15:1

**14. Qualifications of teaching faculty with D.Sc/ D.Litt/ Ph.D/ Mphil / PG:**

Sl. No.	Qualification	No. of Faculty
1	Ph.D	2
2	M. Phil	8
3	M. Sc	15
4	Pursuing Ph.D	04

**15. Research Center/ facility recognized by the University: Yes**

Research Center	Sanctioned Year and letter	Name of supervisor	Research area of supervisor	No. of Students under each supervisor
Mathematics	2009 - VTU/Aca/2008- 09/A-9/1146	Dr.K.Meenakshi	Graph Theory	02
		Dr.SunandhaSaha	Water wave mechanics	-
		Dr.M.Kamak Kumar	Graph Theory	-

**16. Publications**

a) **Publication per faculty:** See Annexure-01

Sl. No.	Name	Number of publications				
		2015	2014	2013	2012	2011
1	Dr. K. Meenakshi	1	1	-	-	3
2	Mr. M. Kamal Kumar	2	3	1	1	2
Total:		3	4	1	1	5

**Number of papers published in peer reviewed journals (national / international) by faculty and students:**

No. of publications				
2015	2014	2013	2012	2011
3	4	1	1	5



\* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.):

\* Monographs: Nil

\* Chapter in Books: 1(details given below)

\* Books Edited: Nil

\* Books with ISBN/ISSN numbers with details of publishers:

Sl. No.	Name	Title	Publisher	ISBN / ISSN	Year of Publication
1	Mrs. Shaveta	Engineering Mathematics- I, II, Numerical Methods	Chitkara University Publication, Punjab	-	2010

\* Citation Index:

Sl. No.	Faculty Name	Citation Index
1	Dr. K. Meenakshi	2.2
2	Mr. Kamal Kumar	2
3	Mr. Prathap. D	1

\* SNIP: Nil

\* SJR: Nil

\* Impact factor:

Sl. No.	Faculty Name	Impact Factor Range
1	Dr. K. Meenakshi	1-2.7
2	Mr. Kamal Kumar	0.5-2.52
3	Mr. Prathap. D	1.5-2.3

\* h-index:

Sl. No.	Faculty Name	h-index
1	Dr. K. Meenakshi	2.2
2	Mr. Kamal Kumar	1
3	Mr. Prathap. D	1

**17. Awards/ recognitions received by faculty and students:**

Sl. No.	Name of the faculty	Name of the Award	Name of Agency	Year
1	Dr. K. Meenakshi	5 and 10 years Service Award	CMRJT, Bangalore	2008 & 2012
2	Dr. M. Kamal Kumar	5 and 10 years Service Award		2010 & 2015
3	Dr. K. Meenakshi	Awarded Ph.D	Karpagam University, T.N	2013
4	Dr.Sunanda Saha	Awarded Ph.D	IIT Guwahati	2014
5.	Dr. M. Kamal Kumar	Awarded Ph.D	VTU	2015

**18. List of eminent academicians and scientists/ visitors to the department:**

Sl. No.	Name of Academicians/ Scientists / Visitors	Name of Company	Topic
1	Dr.Lipika Mazumdar	RDJU	Zero divisor graphs of commutative rings
2	Dr. Ajay Deshpande	IIT, Bombay	Integral Calculus
3	Dr. A. S. Vasudeva Murthy	TIFR, Bangalore	Observing dynamic phenomenon and modeling them via differential equations
4	Dr. A. K. Nandakumaran	IISc, Bangalore	Why e is the natural base for the logarithm?Why not common 10?
5	Master Raghavendra Bhatt	Bangalore	Math-Magic-Music Show
6	Dr. P. G. Siddeshwar	Bangalore University	Application of Numerical Methods
7	Dr. B. Sury,	ISI, Bangalore	Mathematics of Tiling problems
8	Dr. Mahadeva Naik,	Bangalore University	Ramanujam: The Man and the Mathematician
9	Dr. Joseph Varghese	Christ University	Fascination of triangular numbers
10	Dr.Meenakshi D' Souza,	IIIT, Bangalore	Applications of Graph theory

## 19. Details of Infrastructural Facilities:

### a) Library:

Sl. No.	Area	No. of Books	No. of Mono graphs	No. of CDs	No. of Journals	No. of Reports	*Misc
1	-	1425	-	-	E journals 167 Print 5	-	-

\* includes syllabus, Question Papers, Magazines, Newsletters.

### b) Internet facilities for Staff & Students: **Yes.**

The college has Internet connectivity of 30 Mbps broadband (Bell Tele services) Metronet and fiber enabled connectivity with 35 access points for Wireless connectivity. Internet facility is provided for both students and staff. Staffs and students are provided with CMRIT login credentials to access their account.

## 20 Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts:

Sl. No.	Lectures/ Workshops/ Seminar	Guest Speaker	Company Name	Date	No. of Students participated
1	Lecture	Dr.Lipika Mazumdar	RDJU	22.02.16	50
2	Lecture	Dr. Ajay Deshpande	IIT, Bombay	16.04.15	70
3	Lecture	Dr. A. S. Vasudeva Murthy	TIFR, Bangalore	12.03.15	70
4	Lecture	Dr. A. K. Nandakumaran	IISc, Bangalore	24.04.14	70
5	Lecture	Master Raghavendra Bhatt	Bangalore	04.05.13	200
6	Lecture	Dr. P. G. Siddeshwar	Bangalore University	28.02.13	70
7	Lecture	Dr. B. Sury,	ISI, Bangalore	12.09.12	500
8	Lecture	Dr. Mahadeva Naik,	Bangalore University	12.09.12	500
9	Lecture	Dr. Joseph Varghese	Christ University	22.12.12	70
10	Lecture	Dr.Meenakshi D' Souza,	IIT, Bangalore	12.12.11	70

**21. Teaching methods adopted to improve student learning:** The following methods are adopted to improve student learning.

- **Uploading of notes, difficult problems, solution manual in webpage-** This helps the student to learn variety of problems. The most challenging problems are emphasized and this helps the students to understand the concept very clearly.
- **Conducting quiz** helps students to have sound knowledge in basics.
- **Assignments** gives them confidence to solve problems independently.
- **Mini projects/Seminar:** helps them to work independently and understand the application behind every concept.
- **Bridge course:** Conducted for the diploma students. This course helps them to cope up with the current syllabus.
- **Crash courses before exams:** this course helps the student to revise the important concepts in syllabus before exams.
- **After class tuitions and revisions:** this course is for the slow learners. This course helps the slow learners to understand the concepts better.
- **ICP (Intensive coaching program) classes:** this is done for slow learners within the college timings for improving their performance in internals and exam.
- **Remedial classes:** this course is done for the students who have failed in math's subjects. This course helps them to clear the arrear subjects.
- **Tutorial Classes:** Every week one class is allotted for tutorial class in which the topic covered in that week is revised. This enables student to continuously update the topics.
- **Practical Learning:** the students are given the practical applications for the topics they have learned. Videos, power point presentations are used as aid.

**22. Participation in institutional social responsibility (ISR) and extension activities:** Yes

The college has the NSS department in which the faculty and students regularly take part in social activities such as blood donation camp, service to nearest old age home,

orphanages, government schools and various NGO's etc

### **23. SWOC analysis of the department and Future plans:**

#### **Strengths:**

- Well qualified, well trained and experienced faculty. Capable of teaching UG, PG as well as providing guidance for research scholars.
- Department is in touch with organizations like IISc., ISI, Raman Research Institute etc. for collaborative research work.
- Handling research projects.
- The department is recognized as VTU Research centre.

#### **Weakness:**

- Industry institute interaction has to be strengthened to train the students to meet the requirements of industry.

#### **Opportunities:**

- Management encourages faculty to pursue higher studies irrespective of the number of years of service.
- Financial assistance and OOD is provided for attending seminars, conferences and workshops conducted at national and international level.
- Enhancing networking and sharing of knowledge with other institutions
- Facilities are available on the department for the faculty to do well in teaching as well as to progress with research work.

#### **Challenges:**

- To make the department strong with sophisticated software's possible through submission of major research projects to government funded agencies.
- To be able to teach new courses required by the engineering departments.
- A foundation course in mathematics for foreign and diploma students to be taught prior to the starting of regular semester.

#### **Future plans of the department:**

The department envisages to be a centre of excellence in teaching and research in Mathematics. The department plans to offer PG programs of inter disciplinary nature in collaboration with engineering disciplines. With the available resources and

facilities across the departments of the institute, the department proposes to enroll full time Ph.D students and carryout major research projects with esteemed organizations.

**Annexure-01**

Sl. No	Author	Title of paper	Journal	ISSN	year
1	Dr. K. Meenakshi	Skew energy of digraphs and relation between energy and distance energy	IEEMS, Vol 10, pp 161-174		2011
2		Reachable energy of digraphs	IEEMS, Vol 10, pp 32-38		
3		Equienergetic graphs	IJMSEA, Vol 5, No. 4, pp 40-53		
4	Mr. M. Kamal Kumar	Relation between domination number, energy of graph and rank	International Journal of Mathematics and Scientific Computing, Vol. 1, No.1, pp. 58-61	2231-5330	2012
5		d-Criticalness and $\beta$ block transformation in graphs	International Journal of Advances in Science and Technology, Vol. 3, No.4, pp. 32-36	2229-5216	
6		Domination energy in graphs	International Journal of Applied Mathematics, Vol. 3, No.1, 8-9, pp. 417-424	0975-7937	
7		Inverse roman domination in graphs	Discrete Mathematics, Algorithms and Applications, Vol. 5, No.3, pp. 34-37	1793-8309	2013
8	Dr. K. Meenakshi	Proof of Prime Factorization theorem using graph theory	International Journal of Applied Science and Technology (Pre print)		2014
9	Mr. M. Kamal Kumar	Characteristic polynomial and domination energy of some special classes of graphs	International Journal of Mathematical and Combinatorics, Vol. 1, pp. 37-48	1937-1055	
10		Inverse roman domination of some special class of graphs	International Journal of Computer Application, Issue 4, Vol. 4, pp. 219-238	2250-1797	

11	Mr. M. Kamal Kumar	Embedding index in graphs	Journal of Advanced Mathematics and Applications, Accepted Oct 2014, (Pre Print).	2156-7565	2014
12		On alternative methods of determining Radius of Curvature using Newton's Rings set up	International Letters of Chemistry, Physics and Astronomy, Vol. 9, No.1 pp. 27-31	2299-3843	
13	Dr. K. Meenakshi	Expression of composite number as primes using hyper graphs,	International Journal of Mathematics and Soft Computing, Vol. 4, No. 1		2015
14	Dr. K. Meenakshi	Fermat's theorem and hypergraphs	MSIRJ	Vol 4	
15	Mr. M. Kamal Kumar	Embedding index in some classes of graphs	Notes on Number theory and discrete Mathematics, Vol. 21, 2, pp. 80-88	1310-5132	
16	Dr. K. Meenakshi	Fermat's theorem and hypergraphs	IJMA	2229-5046	2016

## Master of Business Administration

1. **Name of the Department** : Master of Business Administration

2. **Year of Establishment:** 2002

3. **Names of Programmes / Courses offered**

The following programmes are offered in the Department of Master of Business Administration.

Programme	Course	Affiliated University	Year of Establishment	Initial Intake	Present Intake
Management	MBA	Visvesvaraya Technological University(VTU), Belgavi, Karnataka	2002	60	120
Doctoral	Ph.D		2011	8 Scholars / Guide	

4. **Names of the Interdisciplinary courses and departments/units involved:**

Semester	Name of the Interdisciplinary	Departments Involved
I	Statistics for manager	Department of Mathematics
I	Quantitative Techniques	Department of Mathematics
III	Operations Research	Department of Mathematics

5. **Annual/ semester/choice based credit system:** Semester wise system.

6. **Participation of the department in the courses offered by other departments:**

The Department of MBA is associated with other departments in handling the following courses:

Sl. No.	Semester	Subjects handled	Department	Subject Code
1	V semester	Management and Entrepreneurship	Dept. of Electrical & Electronic Engineering (EEE)	10AL51
2	V semester	Management and Entrepreneurship	Dept of Civil Engineering (Civil)	10AL51



3	V semester	Management and Entrepreneurship	Dept of Telecommunication (TC)	10AL51
4	VI semester	Management and Entrepreneurship	Dept of Computers Science (CV)	10AL61

**7. Courses in collaboration with other universities/ industries/foreign institutions, etc:** Training Program with CMR Life Skill Institute.

**8. Details of courses / programmes discontinued (if any) with reasons:** NIL

**9. Number of teaching posts:**

Post Graduate: MBA

Teaching Post	Sanctioned	Filled
Professor	02	02
Associate Professors	04	05
Asst. Professors	11	11

**10. Faculty profile with name, qualification, designation, specialization, (B.E/ M.Tech/ Ph.D.):** Faculty Details for the current year is provided below.

Sl. No.	Name	Qualification	Designation	Specialization	No of years of	No. of PhD
1	Dr. Bhaskar Reddy C M	Ph.D, M.Com & MBA	Prof & Director	Finance & Marketing	21	2
2	Dr. Girish C	Ph.D., MBA	Prof & HOD	Marketing	16	4
3	Mr. Ravichander M.O.	MBA	Assc.Prof	Human Resources	31	

4	Dr. Vineeta Rupani	Ph.D., MBA	Assc.Prof	Marketing	10	1
5	Dr. Chandni Lekhwani	Ph.D, M.Phil, M.Com, MBA.,	Assc.Prof	Finance	8	2
6	Dr. Priyameet Kaur Keer	Ph.D., MBA	Assc.Prof	Human Resources	8	1
7	Mrs. Sarada Akkunuri	MBA,Mphil	Asst.Prof	Finance	12	
8	Mrs. Miriam George	MIB, (Ph.D)	Asst.Prof	Marketing	11	
9	Mrs. Arpita Gupta	MBA (Ph.D)	Asst.Prof	Human Resources	5	
10	Mrs. Roopa B Jainapur	MBA	Asst.Prof	Marketing & Human resources	8.5	
11	Mr. Nataraju	MBA	Asst.Prof	Marketing	14	
12	Mr. Mahesh N	MBA	Asst.Prof	Finance	21	
13	Dr.Hema Vidhya	M.com,M.Phil,MBA,	Asst.Prof	Finance	3	
14	Dr.Sumitha	MBA,M.Phil	Asst.Prof	Marketing	2	
15	Mrs.Sangeetha	ICWA,CA(INTER),BCOM	Asst.Prof	Finance	1	
16	Mrs.Hima	MBA	Asst.Prof	Marketing	2	
17	Mrs.Neelima	MBA	Asst.Prof	Human Resources	20	

#### 11. List of senior visiting faculty:

Sl. No	Name	Qualification	Specialization
1.	Dr. Ramani Mabel	Ph.D, M.Phil, MA, MBA.,	Marketing & Human resources
2.	Dr. John Mano Raj	PhD, MBA	Marketing
3.	Dr. Jaichandra Bairi	PhD, MBA, BE	Operations Management

4.	Mr. Anilesh Seth	MBA BE	Entrepreneurship
5.	Mr. Dhruv Sen	MBA	HR
6.	Prof. Vijaykumar	MBA	Finance
7.	Dr. Geetanjali	PhD, MBA	Business Law

**12. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty. – 5%**

**13. Student – Teacher Ratio (Programme wise)**

Program: MBA

Year	Sanctioned Intake	No of Faculty	Student Teacher Ratio
2016-17	240	17	14:1
2015-16	240	17	14:1
2014-15	240	17	14:1
2013-14	240	17	14:1
2012-13	240	16	15:1
2011-12	240	16	15:1

**14. Number of academic support staff (technical) and administrative staff:**

**Annexure I-A**

Academic Support Staff		
Designation	Sanctioned	Filled
Non-Teaching	2	2
Technical staff	2	2
Administrative Staff	1	1
Foreman	1	1
Total	6	6

### 15. Qualifications of teaching faculty with B.E/M.Tech/Ph.D

Sl. No	Qualification	No. of Faculties.
1.	Ph.D.	7
2.	M.Phil	3
3.	Double PG	4
4.	PG	4
5.	Perusing Ph.D	2

### 16. Number of Faculty with Ongoing Research projects: NIL

### 17. Departmental projects funded by DST –FIST, UGC, DBT, ICSSR, etc: NIL

### 18. Research Center/ Facility recognized by the University:

Research Center	Sanctioned Year and letter	Name of supervisor	Research area of supervisor	No. of Students under each supervisor
MBA	VTU/Aca/2010-11/A-9/5918. 25 <sup>th</sup> Aug 2010	Dr. Bhaskar Reddy	Finance	
		Dr.R.K. Gopal	Marketing	1
		Dr. Girish C	Marketing	1
		Dr Anuradha A	Marketing	1
		Dr Chandni Lekhwani	Finance	2
		Dr. Priyameet Kaur Keer	Human Resource	
		Dr. Hema Vidya	Finance	

### 19. Publications

Details of the publications for faculty and students are given in ANNEXURE-1B

#### a) Publication per faculty

Sl. No	Name	No. of publications					
		2016	2015	2014	2013	2012	2011
1.	Dr. Girish C	2	1	-	3	1	-

2.	Dr. Anuradha A	-	1	1	5	-	-
3.	Dr. Chandni Lekhwani	-	2	1	-	-	-
4.	Dr. Priyameet Kaur Keer	2	1	4	4	-	-
5.	Dr.R.K Gopal	-	-	-	2	-	-
6.	Mrs. Miriam George	2	1	1	2	-	-
7.	Mr. Saravanakrishnan	-	-	-	1	1	-
8.	Prof.Bholanath Dutta	-	-	-	-	1	2
9.	Mrs. Shwetha	-	-	-	2	-	-
10.	Mrs.Shruti Agrawal	-	-	-	2	-	-
11.	Mrs.Arпита	-	-	-	1	-	-
	<b>Total</b>	<b>6</b>	<b>6</b>	<b>7</b>	<b>22</b>	<b>3</b>	<b>2</b>

\* Number of papers published in peer reviewed journals (national / international) by faculty and students:

	No. of publications				
2016	2015	2014	2013	2012	2011
6	6	7	23	3	2

- Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.)
- Monographs – NIL
- Chapter in Books: 2
- Books Edited: 1
- Books with ISBN/ISSN numbers with details of publishers

Sl. No.	Name	Title	Publisher	ISBN / ISSN	Year of Publication
1.	Dr.Priyameet Kaur Keer	Public Relations	Thakur Publishers	978-93-5163-891-9	2016
2.		E-Recruitment :Issues and Challenges	Archer& Elevators.	978-93-85640-02-5	2016
3.		E-Governance - Current Scenario	Archers & Elevators Publishers	ISBN-978-93-85-640-12-5	2015

		(Chapter in this book-E-governance; boon or bane			
4.	Dr. Girish.C	Marketing Management	Thakur Publishers	978-93-86232-82-3	2017
5.		E-Marketing	Thakur Publishers	978-93-5163-887-2	2016
6.		Marketing Management	Thakur Publishers		2016
7.	Dr.Anuradha A	Effective Advertisement for Young Consumers & Soft Skills	SELP Publication	ISBN:978-93-80509-13-6	2014
		Human Resource Management (Chapter Reviewed)	Pearsons Publications (India) Pvt. Ltd	(Chapter Reviewed) /Edited	2013
6.	Dr Chandni	Risk Management & Derivatives	Thakur Publishers	ISBN-978-93-82249-81-8	2013
7.					
8.	Prof Bholanath Dutta & DrB.Rose Kavita	Knowledge Management Text & Cases	I.K. International Publishing	9789381141786	2012
		Service Management	I.K. International Publishing House Pvt ltd	9789380578781	2012
9.	Prof Bholanath Dutta	Fundamentals of Sales & Distribution Management Text & Cases	I.K. International Publishing House Pvt ltd	9789380578910	2011
		International Tourism Management	Himalaya Publishing House	9789350245385	2011

➤ **Citation Index** \_ NIL

➤ **SNIP** – NIL

- **SJR – NIL**
- **Impact factor**

Sl. No	Faculty Name	Impact Factor Range
1.	Dr. R.K Gopal	1.1 – 3.2
2.	Dr. Girish C	1.15 –4.1
3.	Dr. Anuradha A	1.1 – 3.2
4.	Prof.Bholanath Dutta	0.04 -3.454
5.	Dr. Chandni Lekhwani	0.4 – 3.150
6.	Dr. Priyameet Kaur Keer	1.47 -4.16
7.	Mr. Saravanakrishnan	0.04 -3.454
8.	Mrs. Miriam George	1.091-4.164
9.	Mrs. Shwetha	0.4
10.	Mrs.Shruti Agrawal	0.4 – 1.2
11.	Ms. Nikita Bhargava	0.4
12.	Mrs.Krupa Joshi	0.2
13.	Mrs.Nidhi Nandwani	0.2

- **h-index:**

Sl. No	Name of the Faculty	h-index
1	Dr. Girish C	1
2	Dr. Priyameet	1
3	Mrs. Miriam George	1

## 20. Areas of consultancy and income generated:

Sl. No.	Faculty Name	Company	Area(s) of Consultancy	Amount	Year
1	Mr. Sarvanakrishnan.V	Multi-Ray Financial Services Sub Broker of Religare Securities	Portfolio Management	NIL	2013
3	Mrs. Miriam George	Impact Engineering	Implementation of Marketing strategies for Aeroscape Division	NIL	2015

## 21. Faculty as members in

a) National Committees b) International Committees c) Editorial Boards...

Sl. No	Faculty Name	Name of the Committee / Editorial Boards	Name of Organization/University	Type of Membership
1.	Dr R.K Gopal	BOE member & LIC Core Committee Member.	VTU	Assessment Member
2.	Dr Anuradha. A	BOE Member	VTU	Assessment Member
		Editorial Board Member	Asia pacific Journal of Research Management	Editorial
3.	Dr. Chandni L	Editorial Board Member in Finance and Accounting Journal	Science Publishing Group, USA	Editorial
4.	Dr Girish C	Member	Bangalore Management Association	Assessment Member
5	Dr Girish C	External Panelist- Doctoral committee Meeting	Wellingkar Institute Bangalore	Assessment Member
6	Dr Priyameet	Editorial/Reviewer	Science Journal of Human Resources	Editorial
7	Dr Priyameet	Guest Editor	International Human Resources Journal	Editorial
8	Dr Priyameet	PhD Panel Expert for Viva Voce	Dr Babasaheb Ambedkar Marathwada University, Aurangabad	Assessment Member
9	Mrs Miriam George	Editorial/Reviewer	Science journal of Business and Management	Editorial
10	Mrs Miriam George	Editorial/Reviewer	Science journal of Business and Management	Editorial

## 22. Student projects:

a) Percentage of students who have done in-house projects including inter-departmental/ Program: **NIL**



- b) Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies:

**1) Industries (Projects)**

Sl. No	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
1	2011-12	100%
2	2012-13	100%
3	2013-14	100%
4	2014-15	100%
5	2015-16	100%
6	2016-2017	100%

**ANNEXURE-I.B.**

**23. Awards/ recognitions received by faculty and students:**

The awards received by faculty are mentioned in below:

Sl. No.	Name of the faculty	Name of the Award/recognition	Name of Agency	Year
1.	Dr. Anuradha.A	Best Paper Award	International Academic Research Journal of Business and Management	2013
2.	Dr Chandni.L	Best Performance	Best Performance for faculty	2013
		Best Performance	Best Performance for faculty	2012
3.	Dr. Priyameet	Best Paper Award	In international Conferences, on "Sustaining and Enhancing Competitiveness in Today's Business Scenario"- DMIMS, Nagpur, won 2 <sup>nd</sup> Prize in IT Specialization track in 1 <sup>st</sup> international conference EXLIR 2011 – for“SNS a Successful Business Tool”, organized by DMIMS Nagpur.	2011

**Students:** The awards received by students are mentioned in the table below:

Sl. No.	Name of the student	Name of the Award/recognition	Name of Agency	Year
1	Mr. Vikas, sujith, Ms. Prakuti, Mr.Mohd.Ismail, Mohd.Uzair	1 <sup>nd</sup> & 2 <sup>nd</sup> place resp. in the finance and HR 15 & 16/12/2016.	East Point College	2016
2	1.Nandkishore , Daniel, Eden Peter, MBA-III sem	2 <sup>nd</sup> Prize for Finance Competition	Presidency college	2016
3	2.Chandramohan , Lingaraju- MBA-III SEM	2 <sup>nd</sup> Prize for General Mgt	Presidency college	2016
4	1.Ms. Girja M & Ms. Shivathmika MBA –I sem	1 <sup>st</sup> Prize , Business Acumen, National Level paper Presentation competition	New Horizon College	2015
5	Mr. Rahul, Mr. Ullhas, MBA-IV sem students	4 <sup>th</sup> Place in National Level “Philip Big Leap Challenge”	Pulp strategies	2014
6	Ms. Sruthi, Mr. Pavan, Mr. Nischay, Mr. Harsha, MBA- II sem	3 <sup>rd</sup> place Big Brain Challenge for the best ideas	CMRIMS	2014
7.	Mr. Sandeep Kumar. R., Mr. Raghav Kanna, Mr. Varun V Nair of MBA IV Sem	Campus – Corporate Conclave, International Symposium on Social Media Marketing	CMRIMS	2014
8.	Mr. Varun V Nair of MBA III Sem	1. Presented a paper on,” CRM as a tool for Sustainability in the consumer Market” – 5 <sup>th</sup> National conference 2. Participation in “Manthan – Business plan Award 3. Best Manager Award- First place, “Srishti 2013” – Management fest	1. SJB Institute of Technology 2. Federation of Karnataka Chamber of Commerce and Industry at Hotel Lalit Ashok 3. East point group of Institution	2013 2013 2013

9.	Mr. Zeeshan of III sem	Best participant – in the student connect ITM NHRD Program	ITM Business School	2013
10.	Ms. Lahari of II sem	First Place in Business plan presentation competition in Two day workshop on “Educating and Enabling Entrepreneurship” with the support of NS Raghavan centre, IIM Bangalore and small industries development Bank of India	CMRIT	2012
11.	Mr. Arindom of II Sem	First Place in Sarvagna – Business Quiz	Cambridge Institute of Technology	2012
12.	Mr. Subhash Menon of I sem	First Place – Project titled, ”Commodity & Currency on Boarding Practice”	Cambridge Institute of Technology	2011

#### Sports Achievements:

Name of the student	Name of the Award	Name of Agency	Year
Ms. Somya Gowda	Won Bronze Medal in Inter level College VTU Athletic meet.	VTU	2014
Mr. Rakesh. N	Fourth place in Sai Leo Trophy’11, A state level Inter Engineering collegiate Kabaddi Tournment (Men).	Shirdi Sai Engineering College	2011

#### 24. List of eminent academicians and scientists/ visitors to the department:

Sl. No.	Name of Academicians/ Scientists / Visitors	Name of Company	Title
1.	Mr. Badrinath Babu,	Trainer	Session on techniques for Improving Memory
2.	Mr. Sachin Pintoo	LightHouse Company	Four P’s of Marketing & Internship
3.	Mr.VenakataChalam	Trainer	Session on Logistics / SCM
4.	Mr. AshwaniMishra	Educational Partnership	How to frame questionnaires for projects using question Pro

5.	Dr. Shyam Kanth Srigirivar	MSRTC	Careers in operations and productions & HR relation in Industry
6.	Mr. Amey Kumar	Phoenix Mills limited	Career Opportunities in Marketing
7.	Mr. Ujjal Gangopadhyay	Fossil Shaele	MBA Specialization & its importance
8.	Mr. Adarash Appukuttan	Investment Banking. Golds Man	Talk on Bridging gap between academics and corporate
9.	Mr. R Arun Kumar	Effilor consultancy Services	A Talk on Bridging gap between academics and corporate
10.	Mr. Vinod	Thysa Tecchnologies	Business Analytics and its Implication
11.	Ms. Deepa N. Rao,	Nestle	Career Opportunities for Women
12.	Mr. Praveen Daniel	Big Basket.com	Retail in India (Retail formats, E-retail & Current E-retail Job Opportunities)
13.	Mr. Saurabh, Mr. Praveen	Affinity Solutions	Social Media platform for Jobs
14.	Mr. Ashwin	Northern Trust	Opportunities in Banking sector
15.	Major Kulwant Singh	Effilor consultancy Services	Practice of HR
16.	Ms. Rahat	TCS	CTC: An overview
17.	Mr. Dinesh C	Britannia Industries Ltd	MBA: A Career or a Barrier?
18.	Mr. Karthik Iyer	Smack Solutions Pvt. Ltd	Certification on Business Analytics
19.	Ms. Swarnalatha Ramesh	Airavaat Industries Bangalore	Introduction to Business Analytics
20.	Mrs. Sandhya Venu. S	HP Global Soft Bangalore	Career Prospects in Quality Management
21.	Mr. Philip Thomas	T.I.M.E Bangalore	Critical Reasoning
22.	Mr. Muralidharan	Gemba Kaizen Academy	Power of Paradigm Shift
23.	Mr. Nilesh Gupta	Infinite Computer Solutions	Career Prospects for MBA Students

24	Mr. Vir Bhanu	CIBER India Pvt. Ltd	Challenges and Opportunities of the Corporate World
25	Dr. Shamlal Dev Pandey	SEBI, Govt of India.	Financial Education Program – SEBI

## 25. Seminars/ Conferences/ Workshops organized and the source of funding:

### a) National Workshops

Sl. No.	Title	Organizer	Year	No. of Participants	Resource Persons	Funding Agency
1	Workshop on Project Dissertation	Mr. Nagarajan	Prof and Head. Dept of MBA, Sambra ham Institute of Technology	60		

2	Workshop on Case Study Analysis	Mr. Manish Jha, Dr. Girish. C,	1. Corporate Trainer @ Practical Trainers. 2. Prof & Head, Dept of MBA. CMRIT .	70		
3	Workshop on questionnaire design	. Mr. Ashwini Mishra	QuestionPro-online research portal.	70		
4	Workshop on Entrepreneurship Development.	1. Mr. Mithun – Mr. Misbab-	Director, Creative Arts, Bangalore.	75		



5	Workshop on Case Study Analysis.	<p>1.Mr. Rohit Mogra,</p> <p>2.Dr. Vineeta Rupani</p> <p>3. Dr. John Manohar</p>	<p>1.HR Head, logistics , Myntra</p> <p>2. Associate Prof, Dept of MBA, CMRIT</p> <p>3.Professor, Dept of MBA, BMSC E.</p>	70		
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6	Workshop on "Case analysis"	CMRIT	2014	150	<ol style="list-style-type: none"> <li>1) Dr K.B Akhilesh, Dep of managem nt, IISC, Bangalore</li> <li>2) Mr. Venkat Krishnamo orthy, Vice president, Team Talent acquisition –Smart play technologie s Pvt Ltd Bangalore.</li> <li>3) Mr. Anilesh Seth, CEO and Co- founder – KROW Consultanc y Bangalore</li> <li>4) Mrs.Bharat i Muthu, Deputy General Manager – Market Manageme nt, IBM India Ltd Bangalore</li> </ol>	CMRIT/ CMRJT (13,200)
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7	Workshop on “Project Dissertation”	CMRIT	2014	95	<p>1) Dr. R Sates Kumar, Director – Research, IFIM, Business School, Bangalore</p> <p>2) Mr. Shankar M. mepparam bath, Research Consultant, SPSS South Asia Ltd, Bangalore</p> <p>3) Dr. N.S. Vishwanath, Director &amp; Principal, MP Birla Institute of Management Studies, Bangalore</p>	7,500
8	Workshop on “Lean Six Sigma”	CMRIT	2014	60	<p>1) Mr. Alex, head Operation, Annxux Consultancy</p>	1,000
9	Workshop on “Union budget”	CMRIT	2014	70	<p>1) Dr. Chandni. L. ekwani</p> <p>2) Mr. Saravanakrishnan. V</p> <p>3) Dr. Anuradha. A</p>	Nil

10	Certification program “For Finance, Marketing & Human Resource”	CMRIT	2013	80	<ol style="list-style-type: none"> <li>1) Shri.Suresh Kumar D, General Manager, Boruka Steels.</li> <li>2) Shri.Rama chandran R V, Marketing Manager, Tyco Fire &amp; Security India pvt Ltd.</li> <li>3) Shri Kothandaram, president WACIA, vice president – HR, VST Tiller &amp; Tractors.</li> <li>4) Mr. R.V. Ramachandran, Marketing Manager, Tyco Fire &amp; Security pvt Ltd.</li> <li>5) Mr. Arunkumar &amp; Mr. Vikram</li> <li>6) Mr. Sridhar, Assistant Professor, Senior grade ICICI – Manipal Academy.</li> </ol>	12,500
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11	Workshop on “Project Dissertation”	CMRIT	2013	90	<ol style="list-style-type: none"> <li>1) Prof S N Murthy, PGDM (IIMC).</li> <li>2) Dr N S Vishwanath</li> <li>3) Dr G V Keshav Rao</li> <li>4) Dr R Krishna</li> <li>5) Dr G Nagalingappa, Chairman Board of Examination</li> </ol>	15,000
12	Certification & Workshop on Entrepreneurship's	CMRIT	2013	75	<ol style="list-style-type: none"> <li>1) Mr. Arun Kumar</li> <li>2) Mr Dhruv Kumar</li> <li>3) Mr. Sridhar</li> <li>4) Mr. Nandita</li> <li>5) Mr. Arun Kumar &amp; Mr Vikram</li> <li>6) Mr. Raksha Shenoy</li> <li>7) Mr pankaj Dixit</li> <li>8) Mr. Ramachandran</li> </ol>	28,700

13	Workshop on “Entrepreneurs hip Development”	CMRIT	2012	75	1) Mr. Vinod prabhu. B (IIMB) Managing Director, Seventh Sense Talent Solutions. 2) Mr. R. Gangadhar BE Managing Director, Kaptronics Pvt Ltd. 3) Prof .MH Sharieff, Ex-joint Director EEPC & Ex-DGM BEML. 4) Ms. YS Pavithra, Maanging Director, Vindhya, E- Infomedia Pvt Ltd.	12,500
14	Certification Course “Total Quality Management”	CMRIT	2011	50	1) Prof.Bhola nath 2) Dr. Girish.c 3) Dr R K Gopal	8,000

15	Certification Course on “Customer Relationship Management (CRM) & Financial Analysis (FA)	CMRIT	2011	70	1) Mr. Vinayak, Technology Consultant 2) Mrs. Padmaja, CA	9,000
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### 26. Student Profile programme /course wise:

Name of the Course/ Program		Applications Received	Selected	Enrolled		Pass percentage
				*M	*F	
PG-MBA	2016-17	92	91	57	34	Ist sem results awaited
	2015-16	89	87	45	42	IIIrd sem Results awaited
	2014-15	80	73	50	23	92
	2013-14	70	61	39	22	90
	2012-13	110	107	72	35	95
	2011-12	100	90	58	23	89
Ph.D	2014-15	NA	3	1	2	NA
	2013-14		2	1	1	

\*M = Male \*F = Female

**27. Diversity of students:**

Name of the Course		% of students from the same state	% of students from other States	% of students From abroad
<b>Master of Business Administration</b>				
PG	2016-17	81%	19%	NIL
	2015-16	89%	11%	NIL
	2014-15	86%	14%	NIL
	2013-14	89%	11%	NIL
	2012-13	73%	27%	NIL
	2011-12	77%	23%	NIL

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

Sl. No.	Year	Type of exam (NET, SLET, GATE, Civil Services, Defense Services, etc.)	Number of Students
1	2016	ITELS	1
2	2015	nil	0
1	2014	CIVIL SERVICES	2
2	2013	Ph.D Entrance Exam -VTU	1
3	2012	SLET/NET	2
4	2011	SLET/NET	3

**29. Student Progression:**

Student progression	Against % enrolled					
	2016-17	2015-16	2014-15	2013-14	2012-13	2011-12
PG to M.Phil.	-	-	-	-	-	-
PG to Ph.D.	-	-	1		1	
Ph.D to Post-Doctoral	-	-	-	-	-	-
Employed						
•Campus selection	30	14	28	49	19	40
•Other than campus recruitment	10	5	2	10	32	5

Entrepreneurship/ Self-employment	2	1	-	2	3	3
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### 30. Details of Infrastructural Facilities:

#### a) Library:

Sl. No.	Area	No. of books	No. of mono graphs	No. of CDs	No. of journals	No. of reports	*Misc
1	24 Sq.mts	1596	-	300	66	500	30

\* includes syllabus, Question Papers, Magazines, Newsletters.

#### b) Internet facilities for Staff & Students:

Staff and student of the department have access to the campus wide Wi-Fi connectivity. Internet service providers: BSNL 10Mbps and Bell Teleservices 30Mbps, total 40 Mbps.

#### c) Class room with ICT Facility:

Sl. No.	Room Description	Shared / Exclusive	Capacity in number /Area in Sqmts	Rooms Equipped
1.	PG Block – LH-002	Exclusive	75 Sq. Mtrs	LCD Projector, System & WIFI.
2.	PG Block – LH-003	Exclusive	75 Sq. Mtrs	LCD Projector, System & WIFI.
3.	PG Block - LH-004	Exclusive	75 Sq Mtrs	LCD Projector, System & WIFI.
4.	PG Block – LH-101	Exclusive	45 Sq Mtrs	LCD Projector, System & WIFI.
5.	PG Block – LH-102	Exclusive	75 Sq Mtrs	LCD Projector, System & WIFI..
6.	PG Block – LH-103	Exclusive	75 Sq Mtrs	LCD Projector, System & WIFI.
7.	PG Block – LH-104	Exclusive	75 Sq Mtrs	LCD Projector, System & WIFI.

8.	PG Block – TR 002	Exclusive	75 Sq Mtrs	LCD Projector, System & WIFI.
9.	Seminar Hall	Exclusive	Seating capacity 100	LCD Projector, System, Speaker, Internet Connection & WIFI .

**d) Laboratories:**

Sl. No.	Name of Laboratory	Area	Major Equipments	Total Investment/ Amount spent
1	Computer Center	255 Sq.ft	PCs, Printers, Application Software & System Software	39,00,000/-

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Year	No of students receiving financial assistance
2016-17	67
2015-16	47
2014-15	18
2013-14	39
2012-13	5
2011-12	12

**Scholarship Details for Last Four Academic Years**

Sl. No.	Name of the Institutional Organization	Details	2016-17		2015-16		2014-15		2013-14		2012-13		2011-12	
			No. of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.	No of students	Amount in Rs.
1	Social welfare	SC/ST	10	620100	11	682110	1	60600	5	295070	1	4600	Nil	Nil
2	Backward classes	OBC	53	138180	33	859980	2	57120	19	443000			2	2156



3	Director of Minorities	DOM	-	-	-	-	Nil	Nil	Nil	Nil	Nil	Nil	1	20000
4	Samaja Kalyan Dept	BCM-other state	-	-	-	-	3	178190	10	621960	Nil	Nil	4	223200
5	CMR		4	40000	3	30000	2	20000	5	50000	4	40000	5	50000
6	Others (BBMP Merit scholarship)		-	-	-	-	10	285600	Nil	Nil	Nil	Nil	Nil	Nil

### 32. Details on student enrichment programmes (special lectures / workshops / Seminar) with external experts:

#### Details of Seminars/Expert Lectures:

Sl. No.	Lectures/ Workshops/ Seminar	Guest Speaker	Company Name	Date	No. of Students participated
1.	Career Opportunities for Women	Ms. Deepa N. Rao,	Nestle	11 <sup>th</sup> May 2015	50
2.	Retail in India (Retail formats, E-retail & Current E-retail Job Opportunities)	Mr. Praveen Daniel	Big Basket.com	25 <sup>th</sup> April 2015	40
3.	An Awareness on Traffic Rules and Regulation was conducted on product launch on Traffline (An App) for traffic solutions	Mr. Nagaraj S	Traffline Solutions	28 <sup>th</sup> March 2015	50
4.	Quick rides-an app which gives an environmental friendly solution for car pooling - targeting corporate offices	Mr. K.N M Rao & Mrs Shobha	Idisha Global Pvt ltd.	9 <sup>th</sup> feb 2015	75
5.	Importance of Marketing Certification Programs	Mr. Baradwaj	Marketing Talent Solutions	14 <sup>th</sup> Oct 2014	55

6.	Career prospects on the field of Marketing	Mr. Ratnesh Pandey	Customer XPs Software	9 <sup>th</sup> Aug 2014	20
7.	Introduction to Business Analytics	Ms. Swarnalatha Ramesh	Airavaat Industries	24 <sup>th</sup> April 2014	45
8.	Career Prospects in Quality Management	Mrs. Sandhya Venu	Global Soft Bangalore	22 <sup>nd</sup> March 2014	40
9.	Critical Reasoning	Mr. Philip Thomas	T.I.M.E Bangalore	17 <sup>th</sup> Jan 2014	52
10.	Basics of Corporate Governance	Mr. Pramod Kumar S	PKS Management Solutions	22 <sup>nd</sup> Nov 2013	58
11.	Goal setting	Mr. C. Dinesh	Britannia Industries Ltd	21 <sup>st</sup> Sep 2013	60
12.	Career Prospects for MBA	Mr. Nilesh Gupta	Infinite Computer Solutions	26 <sup>th</sup> May 2013	40
13.	Human Resource Capital: Its opportunities and Challenges	Mr. V Nagarajan	TTK Prestige Ltd	27 <sup>th</sup> April 2013	50
14.	Challenges and Opportunities of the Corporate World	Mr. Vir Bhanu	CIBER India Pvt. Ltd	10 <sup>th</sup> Nov 2012	60
15.	Career Opportunities in Retail Sector	Mr. Nikhil G	Max Hyper India Pvt. Ltd	12 <sup>th</sup> Nov 2012	40
16.	Statistical Analysis System	Mr. Krishna Kumar	EPOCH research Institute of India	8 <sup>th</sup> Sep 2012	45
17.	Financial Education Program – SEBI	Dr. Shamlal Dev Pandey	SEBI, Govt. of India.	3 <sup>rd</sup> Dec 2011	55

**Details of Workshop:**

Sl. No	Lectures/ Workshops/ Seminar	Guest Speaker	Company Name	Date	No. of Students Participated
1	Workshop on Case Study Analysis	Mr. Manish Jha, Dr. Girish. C,	1. Corporate Trainer @ Practical Trainers. 2. Prof & Head, Dept of MBA. CMRIT.	24.11.2016	70
2	Workshop on Project Dissertation	Mr. Nagarajan	1. Prof and Head. Dept of MBA, Sambraham Institute of Technology	19.10.2016	60
3	Workshop on questionnaire design	Mr. Ashwini Mishra	QuestionPro-online research portal.	24.09-2016	70
4	Workshop on Entrepreneurship Development.	1. Mr. Mithun – Mr. Misbab-	Director, Creative Arts, Bangalore.	08.09.2015	75
5	Workshop on Case Study Analysis.	1. Mr. Rohit Mogra, 2. Dr. Vineeta Rupani 3. Dr. John Manohar	1. HR Head, Logistics, Myntra 2. Associate Prof, Dept of MBA, CMRIT 3. Professor, Dept of MBA, BMSCE.	10.12.2015	70
6.		Dr K.B Akhilesh	IISC, Bangalore Bangalore		70

	Workshop on “Case analysis”	Mr. Venkat Krishnamoorthy	Talent acquisition – Smart play technologies Pvt Ltd Bangalore	14 <sup>th</sup> March 2014	
		Mr. Anilesh Seth	KROW Consultancy Bangalore		
		Mrs. Bharati Muthu	IBM India Ltd		
7.	Workshop on “Project Dissertation”	Dr. R Sates Kumar	IFIM, Business School, Bangalore	25 <sup>th</sup> March 2014	95
		Mr. Shankar M. mepparambath	Research Consultant, SPSS South Asia Ltd, Bangalore		
		Dr. N.S. Vishwanath	Birla Institute of Management Studies, Bangalore		
8	Certification program “For Finance, Marketing & Human Resource”	Shri.Suresh Kumar D	General Manager, Bhoruka Steels	21 <sup>st</sup> March 2013 – 21 <sup>st</sup> June 2013	80
		Shri.Ramachandran R V	Tyco Fire & Security India pvt Ltd.		
		Shri.Kothandaram	HR, VST Tiller & Tractors.		
		Mr. R.V. Ramachandran	Tyco Fire & Security Pvt Ltd.		
		Mr. Sridhar	Senior grade ICICI - Manipal Academy.		
9.	Workshop on “Entrepreneurship Development ”	Mr. Vinod prabhu. B (IIMB)	Sense Talent Solutions.	24 <sup>th</sup> Aug 2012	70
		Mr. R. Gangadhar	Director, Kaptronics Pvt Ltd		
		Prof. MH Sharieff	Ex-joint Director EEPC & Ex-DGM BEML		
		Ms. YS Pavithra	Vindhya, E-Infomedia Pvt Ltd		

### 33. List the teaching methods adopted by the faculty for different programmes.

- Case study-** Case study teaching pedagogy is one of significant method to teach student as far as MBA program is concerned. Case study are stories that present realistic, complex, and contextually rich situations and often involve a dilemma, conflict, or problem that one or more of the characters in the *case* must negotiate.

- **PPTs-** PowerPoint presentations enable teachers to increase the quality of written material and visuals they present to the students in the class. The alternative to PowerPoint presentations are using blackboard/whiteboard, and flip charts. Though to completely eliminate the use of blackboard, the PowerPoint offers some distinct advantages. First the PowerPoint presentations can be made in advance, thereby effectively increasing the time available to the teacher to teach. Also the PowerPoint makes it possible to provide a much richer quality of visuals including multicolored complicated diagrams and pictures.
- **Videos-** an interactive tool that motivates learners, demonstrates procedures, displays models and promotes active learning that is participation. Faculties are encouraged to use Videos of Expert scholar lecture on their respective subjects to make their lecture more informative and up to date.
- **Role plays-** helps the students to learn by enacting the situations and their reactions. Most of the time role plays are carried out in Forum activity classes to make the session more interactive.
- **Practical Components-** Where student has to make an in-depth analysis of subject by applying the field study and empirical study to support the subject concepts. It is mandatory for them to prepare a report on the given question to make a final presentation.
- **Group discussions-** forums for students to reflect and tease their thought process and state opinions leading to a better understanding of business situations. Each class will have group consists of 10 members to have discussion on various topics of current scenario to answer the skill based questions.
- **Internship projects-** these are part-time job assignments or projects which further enhances the learning of the students. Students are encouraged to undergo internship projects during their vacation and those project summary are presented in the classroom.
- **Forum Activity-** mainly conducted for the overall development of the students which later help in placements. Under forum activity each group is taken an assignment of extra learning through field study, observation method and survey study. The group coordinator will make the final presentation or report to forum coordinator at the end of the semester. These are included in the academic planning and scheduled in the weekly time table announced by the department.
- **Summer Internships-** Opportunity for students to experience first-hand the real corporate environment and understand how organizations operate.
- **Guest lecture-** Another technique where the industry resource shares his experiences with the students. Two fold objectives are fulfilled- students are

better informed and the monotony of classes is broken. The department organizes various guest lecture program on weekly basis. Eminent people from both academic and industry are invited to conduct a guest lecture. Student participation is compulsory and their learning's are monitored.

- **Industrial Visits-** are an endeavor to take students to industries and apprise them of the functions and get an insight on how they work on a day-to-day basis. It is conducted on regular basis and included in the academic planning .
- **R&D** – Department has a full fledged Research centre for students and Faculty for their continuous carrier development. Student paper presentation on various conference, symposium and seminars are encouraged and a joint presentation by the student and the faculty are promoted.
- **Business Plan-** Iterative exercise that motivates students on self-learning through research. Students are motivated to participate competition on Business plan at the regional and national level.
- **Seminars and Conferences-** Brings together the award winners with practitioners, academics, and those who make or influence policy decisions. This also provides support for research and publications.
- **Book review-** Is an exercise which encourages students to read texts other than their text books and various Research articles, reputed journals to understand the methodology and literature. These are included in the academic planning and scheduled in the weekly time table announced by the department. Every semester one faculty is assigned as a Book review coordinator to monitor the student on regular intervals.
- **Value addition programs-** Value added programs like Life skill and certification programs are conducted on regular basis to mould the students to meet the competitive environments.
- **Intensive coaching Programme (ICP) classes** are being conducted for the weaker students who are identified through their Internal Assessment test performance. Students are identified through their internal test performance. Based on their marks on various subject, Intensive Coaching classes are scheduled where their specific queries are answered and difficult problems are solved. This strategy has helped us in improving the pass percentage by the end of the semester.
- **Remedial Classes** have been conducted for those who failed in the external examination and following semester to help them pass the subjects.

- **Tutorial classes** are provided for analytical courses in every semester as per the scheme. These are included in the academic planning and scheduled in the weekly time table announced by the department. Tutorials are conducted in smaller batches to provide opportunities for the students to clarify the concept and raise the doubts and queries in the subjects. The regular teaching hours allocated in the time table as per the curriculum, are insufficient to effectively solve all types of design and analytical problems. Additional tutorial classes help the students to understand the design concepts and analysis procedures in a better manner.
- **Home Assignment** The assignments for the academic session includes minimum of two assignments and one mini project in each subject covering 3 modules in each Assignment. These assignments are duly corrected by the faculty and documented in the department to finalize their internal marks.

#### 34. Participation in institutional social responsibility and extension activities

Students has formed the Rotaract Club for enhancing the social responsibilities they render services in the areas of community service, vocational services, Health & youth empowerment services.

- Blood donation camp
- Awareness program about fire safety and its importance
- Initiatives taken to reduce the usage of plastic bags.
- Collected clothes for children from students and donors and distributed in orphanages.
- Visited Sneha orphanage and Grace home orphanage and distributed clothes to children.
- Visited various government schools and conducted basic computer classes as a part of vocational services.
- Planting of saplings to build a greener future in and around Ramamurthy nagar, Bangalore.
- We also distributed clothing, notebooks, stationery and other necessities for the betterment of the children in a government school, Mandya.
- Participated, Supported in organizing the Rotafest 2012 and won the First Place.
- Visited Karunashraya and spent a day with the patients also distributed fruits and conducted entertainment programs for the patients.

### 35. SWOC analysis of the department and Future plans

#### Strength

- Visionary management with values and commitment to Education Excellency.
- VTU approved Research Centre for Ph.D. Program.
- State of the art Infrastructure, Wi-Fi Campus, Hi-tech Auditorium, Well Equipped Computer Lab.
- ERP packages: SPSS and PROWESS
- Contemporary Teaching Learning Process
- Strong leadership and guidance from principal.
- Experienced and proficient in-house faculty pool with training in new technology and pedagogy to further enhance quality teaching.

#### Weakness

- Research and Consultancy needs more focus
- Focus on live projects/ part time assignments need to be strengthened.

#### Opportunity

- To experiment new teaching pedagogy in business Management to gain the competitive advantage.
- The Research Centre, gives faculty the opportunity to involve themselves as PhD guides.
- Diversification of sources of revenue through better exploitation of consultancy and e-learning facilities.
- Strategic alliances and partnerships with national institutions for offering more professional courses.

#### Challenges

- It's not the autonomous body; it has to be in par with the university norms.
- Technology and business environment is changing fast and the up dation on curriculum is not in pace with the changing times
- To improve consultancy related work in department.

#### The Way Forward:

1. Autonomous status
2. Foreign University Collaboration



3. Student Exchange Program
4. Industry sabbatical
5. To be known for its teaching methodology and students seeking admission by positive word of mouth.

### ANNEXURE-I-A

Details of academic support staff (technical) and administrative staff; sanctioned and filled.

#### For the Academic year 2014-2015

Sl. No	Name	Designation	Experience
1	Mr. Subbaraya Karrant	Lab Instructor	6 Years
2	Mr. Jagadesh	Lab Instructor	7 Years
3	Mrs. Revathi	Office in charge	12 Years
4	Veeresh. M K	Liberain	4 Years
5	Mrs. Sherin C R	Administrative staff	2 Years
6	Thimmappa. D	Helper	4 Years
7	Shridhar. B	Helper	4 Years

### ANNEXURE-I-B

#### Publication Per Faculty Details

Sl. No	Name of the Faculty	Title of the paper	Seminar/ Conference	Name of the Journal	Publication Details
1.	Dr. Girish	A case study on Exim Market of selected IT companies in India.	International Journal	GE International Management and Research,	Oct 2016. Volume 4, ISSN:O(2321-7709),ISSN:P(2394-4226
2.	C	Eco-system of Indian semiconductor industry with specific reference to	International Journal	International Journal of Business and Administration Research Review	Aug 2016 Volume 3, ISSN :2347-856X,ISSN :2348-0653

		companies in Bangalore			
3.		Acceptance level of women leadership at par with Men: issues & Challenges with respect to Indian Economy	International Journal	Jamal Institute of Management, Tamil Nadu	08.01.2015,
4.		Analysis of customers at large retail outlet	International Journal	International Journal of management and Social Science Research	ISSN: 2319-4421 Vol2, No.6 June 6, 2013.
5.		A study on the need for Hr Practices in the construction Industry.	International Journal	Cavite State university, Institute of Mgt Studies. Philippines	Yet to receive Journal Proceeding
6.		Enhancing Knowledge through Current Trends in IT in today's Competitive Era	International Journal	International Journal of combined Research & Development	ISSN: 2321-225X Vol 1, Issue 2, June 2013
7.		A Survey on impact of celebrities towards advertisements	International Conference	Cambridge Institute of Technology.	20& 21 Dec 2013
8.	Dr. Anuradha A	Acceptance level of women leadership at par with Men: issues & Challenges with respect to Indian	International Conference	Jamal Institute of Management, TamilNadu.	08.01.2015,

9.	An Empirical study on the personal care products usage purpose among Bengaluru Youth consumers	International Journal	International Academic Research Journal of Business and Management.	Vol.no.2, Issue no.8, January 2014. ISSN2227-1287
10.	Perception and Behaviour of Youth consumer towards PCP products: A study in the state of Chennai	International Journal	International Journal of Management.	Volume 8, Issue 2, June 2013, ISSN 0973 – 919X
11	A Comparative Study on English Language Skill Development among Higher Education Students in Bangalore City	AIFUCTO – Proceedings,	National Level	ISBN: 978-93-81430-85-9.
12.	MBA-Paradox	National Journal	MSR college	ISSN:2321-7383.
13.	Capability Gap of women leadership and measure to improve women leadership in the globalized era	International conference	SDMIMD, Mysore	13& 14 Dec2013,

14.		An Empirical study on the personal care products usage purpose among Bengaluru Youth consumers	International conference	Cambridge Institute of Technology	20& 21 Dec 2013
15.	Dr. Chandni L	Emerging Trends in finance & accounting	International Journal		ISSN: 2330-7323
16.		Impact of Intellectual Capital Management on Organizational Performance – A Study on Indian IT sector	National conference	M.S Ramaiah Institute of Management	7th May 2015.
17.		Green accounting for corporate Sustainability	International Journal	Journal of finance and accounting	ISSN: 2330-7323
18.		Cross Cultural Diversity in Today's Globalized Era	International Journal	Journal of Human Resource Management. Special Issue: International Human Resource Management	ISSN: 2331-0707(Print) ISSN: 2331-0715(Online), Vol2, Issue 2015
19.	Mrs. Priyameet Kaur Keer	E-Recruitment for Growth and Sustainability –Advances in Recruitment	International Journal	International Journal of combined Research & Development	ISSN: 2321-225X, Vol2, Issue 1, 2014

20.		Development of SME in 21st century through HR issues	International Journal	International Journal of Entrepreneurship and business environment perspective	ISSN: 2279-0918 Vol 3, Issue2, 2014
21.		Multi Cultural diversity in Today's Globalized Era	UGC Sponsored National conference	National conference	30 & 31 Oct2014, Jyoti Niwas College
22.		The Role of SNS in E-recruitment in Today's Century	International conference	International Conference On Social Media	10&11 Jan 2014 IIM-Raipur
23.		Enhancing Knowledge through Current Trends In IT in today's Competitive Era	International Journal	International Journal of combined Research & Development	ISSN: 2321-225X Vol 1, Issue 2, June 2013
24.		Energy Marketing: Indian Scenario	National Conference	JD college of Engineering, Nagpur	21&22 March 2013
25.		Effective Recruitment tool in 21 <sup>st</sup> century – Social Networking sites	National Conference	CMR Institute of Management studies	24& 25 April 2013 ISBN NO: 978-81-923424-6-7
26.		Transformation & Survival of Business Leveraging Era- E recruitment an paradigm shift	National Conference	National Conference	20 sep 2013 MVJ college of Engineering
27.	Dr. R.K.Gopal	Impact of Hr Practices on Job	National Journal	Aweshkar journal- Welinger School	Vol,XVI, Issue 2, sep 2013

		Satisfaction in IT companies			
28.		A study on Internet Banking “Scope & Challenges”	International Conference	International Conference	24& 25 April 2013 CMR Institute of Management studies ISBN NO: 978-81-923424-6-7
29	Mrs.Miriam George	A Case Study Analysis based on Focus group Discussion on Packaging of Cosmetics	International Journal	International Journal of Informative and Futuristic Research	Feb, 2016
30.		Haptics: The New Wave of Tactics for	International Journal	International Journal of Innovative & Futuristic	ISSN: 2331-0707 (Print); ISSN: 2331-0715 (Online),2,2015
31.		Packaging, a visual art: an analysis on packaging for FMCG goods	Int. Journal	Asia pacific Journal of research	ISSN:2320-5504, Vol1, Issue: XVI
32.		Viral Marketing Spiraling in India	International Conference	CMR Institute of Management studies	24& 25 April 2013 ISBN NO: 978-81-923424-6-7
33.		Innovative packaging an Influence on consumers for FMCG products	International Conference	Dayanand Sagar	26 & 27 Sep 2013

34.		The Spot Light Recession of Management Program	National conference	M.S. Ramaiah College of Arts, Science & Commerce	14 sep 2013
35.	Mr.Saravana krishnan V	Trend analysis of foreign institutional investors investment in India on monthly flows during Jan 2006-oct 2011	International Journal	International Journal of Marketing, financial Services and Management Research.	ISSN: 277362
36.		Rural Tourism opportunities and challenges	National conference	Nijalingappa College, Bangalore	25 Feb 2012, KLE
37.	Prof. Bholanath Dutta	Enhanced Productivity Through Effective Employee Engagement	National Journal	ITM National Journal	ISSN 0975-3249, VOL-5, No.1, April 2011
38.		Effective Employee Engagement- A road to Organizational Excellence	National conference	Kristu Jayanti College,	April15, 2011
39.	Ms. Shweta Shivraju	Optimum cash balance maintenance in FMC G Industry	International Conference	CMR Institute of Management studies	24& 25 April 2013 ISBN NO: 978-81-923424-6-7
40.		The Spot Light Recession of Management Program	National Conference	M.S. Ramaiah College of Arts, Science & Commerce	14 sep 2013

41.	Mrs. Shruti Agarwal	Impact of cost of holding inventory on the profits and sales of the BHEL with the help of ABC analysis and EOQ-A study	National Journal	Journal of Business Management & social science Research	ISSN: 2319-5614
42.		Impact of the short term sources of finance and the cost of capital on the liquidity and profitability of Mahindra and mahindra Ltd-A study	National Journal	Journal of Business Management & social science Research	ISSN:2319-4421
43.	Mrs. Arpita	A study on Internet Banking "Scope & Challenges"	International Conference	CMR Institute of Management studies	24 & 25 April 2013 ISBN NO: 978-81-923424-6-7



## Master of Computer Applications

- Name of the Department: Master of Computer Applications (MCA)**
- Year of Establishment: 2001**
- Names of Programmes / Courses offered (UG, PG, M.Phil., PH.D., Integrated masters; Integrated Ph.D., etc.): PG**

Programme	Course	Affiliated University	Year of Establishment	Initial Intake	Present Intake
PG	MCA	Vishveshwaraya Technological University, Belgaum, Karnataka	2001	60	120
Doctoral	PhD	Vishveshwaraya Technological University, Belgaum, Karnataka	2013	-	-

- Names of the Interdisciplinary courses and Departments/units involved: (To be updated)**

Semester	Name of the Course / Subject	Departments Involved
I	Discrete Mathematical Structures	Basic Science & Humanities
II	Operations Research	Basic Science & Humanities

- Annual/ Semester/ Choice based credit system (Program wise):**

Semester - wise system

**Participation of the department in the courses offered by other departments:**

Sl. No.	Semester	Subjects handled	Department	Subject Code
1	I	CCP	Basic Science	15PCD13

**6. Courses in collaboration with other universities/ industries/ foreign institutions, etc:**

Sl No	Industry Name	Course
1	EMC2	Cloud Infrastructure
2	IBM	DB2
3	Infosys	Infosys Campus Connect FP
4	IBM	BlueMix
5	IBM	Tivoli
6	IBM	RAD
7	IBM	RFT
8	IBM	Worklight

**7. Details of courses / programmes discontinued (if any) with reasons: NIL**

**8. Number of teaching posts:**

	Sanctioned	Filled
Professor	2	1
Associate Professors	5	4
Asst. Professors	17	19

**9. Faculty profile with name, qualification, designation, specialization, (D.Sc./D.Litt./Ph.D. / M. Phil. etc.):**

Sl. No.	Name	Qualification	Designation	Specialization	No. of years of Experience	No. of PhD students guided for the last 4 years
1.	Dr. Srivaramangai Pichumani	MCA, M Phil, Ph. D	Professor	DataMining	23	2
2.	Ms. Neha Agarwal	MCA	Associate Professor		10	-
3.	Ms. Helen Josephine	MCA	Associate Professor	Data Mining & Web Mining	19	-

4.	Ms.Vijayalakshmi B	MCA, MTech	Associate Professor	Data Mining	11	-
5.	Ms.Kavitha K	MCA, MTech	Associate Professor		15	-
6.	Ms. Gomathi. T	MCA	Assistant Professor		9	-
7.	Ms. Shweta Singhai	MCA, MPhil	Assistant Professor		10	-
8.	Ms. Uma B	MCA	Assistant Professor		10	-
9.	Ms. Varsha P	MCA	Assistant Professor		7	-
10.	Ms.Sunitha Kumari B K	MCA	Assistant Professor		4	-
11.	Mr.Indira Kumar	MCA	Assistant Professor		7	-
12.	Mr. Venkatanaga Ravi Teja C H	MCA	Assistant Professor		5	-
13.	Ms.Sunitha Vaddamani	MCA	Assistant Professor		7	-
14.	Ms. Anjana V	MCA	Assistant Professor		4	-
15.	Mr.Bapuray Arer	MCA	Assistant Professor		2	-
16.	Mr. Hemanth Kumar	MCA	Assistant Professor		2	-
17.	Ms.Ashwini Patil	MCA	Assistant Professor		2	-
18.	Ms.Sowmya S	MCA	Assistant Professor		2	-
19.	Ms.Moumita Roy	MCA	Assistant Professor		10	-
20.	Ms.Sumalatha P	MCA	Assistant Professor		14	-
21.	Mr. SaiShankar	MCA	Assistant Professor		2	-
22.	Mr.Pavan Padamashalli	MCA	Assistant Professor		2	-
23.	Mr. Umesha B	MCA	Assistant Professor		4	-

24.	Mr. Shrikara Shetty	MCA	Assistant Professor		4	-
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**10. List of senior visiting faculty: NIL**

**11. Percentage of lectures delivered and practical classes handled (Programme wise) by temporary faculty: NIL**

**12. Student – Teacher Ratio (Programme wise):**

Year	Sanctioned Intake (No. of students for 2 <sup>nd</sup> year)	No of Faculty	Student Teacher Ratio
2016-17	360	24	15:1
2015-16	360	24	15:1
2014-15	360	24	15:1
2013-14	300	20	15:1
2012-13	240	16	15:1

**13. Number of academic support staff (technical) and administrative staff; sanctioned and filled:**

Academic Support Staff	Sanctioned(as per University norms)	Filled
Foreman	1	1
Instructors	4	4
Helper	1	1
Office Executive	1	1
<b>Total</b>	<b>7</b>	<b>6</b>

**14. Qualifications of teaching faculty with DSc/ D.Litt/ Ph.D/ MPhil / PG:**

Sl. No.	Qualification	No. of Faculty
1.	PhD	1

2.	MTech/MPhil	3
3.	MCA	18
4.	Persuing PhD	2

**15. Number of faculty with ongoing projects from a) National b) International funding agencies and grants received: NIL**

**16. Departmental projects funded by DST – FIST; UGC, DBT, ICSSR, etc. and total grants received: NIL**

**17. Research Center/ facility recognized by the University:**

Research Center	Sanctioned Year and letter	Name of Supervisor	Research area of Supervisor	No. of Students under each Supervisor
MCA	26-07-2013	Dr. Deepa Anand	Artificial Intelligence	NIL

**18. Publications**

**\* a) Publication per faculty**

Sl. No.	Name	Number of publications				
		2016	2015	2014	2013	2012
1.	Dr. Deepa Anand	1	3	5	1	-
2.	Prof P.Varsha	1	-	-	-	-
3.	Prof. Baswaraj B	-	-	-	3	3
4.	Prof. Sudipto Das	-	1	1	2	-
5.	Prof. Nagarajan S	-	1	4	4	5
6.	Prof. Rachna Sharma	-	-	1	8	-

7.	Prof. Gomathi T	-	-	-	1	-
8.	Prof. Neha Agrawal	-	-	-	1	-
9.	Prof. Usha Patnaik Das	-	-	-	1	-
10.	Prof. Nithya Ramesh	-	-	-	1	-
11.	Prof. Arshdeep Kaur	-	-	-	1	-
12.	Prof. Pratima V Patil	-	-	-	1	-
<b>Total:</b>		2	5	11	24	8

**\* Number of papers published in peer reviewed journals (national / international) by faculty and students:**

No. of publications					
2016	2015	2014	2013	2012	2011
3	5	11	24	8	5

\* Number of publications listed in International Database (for Eg: Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, etc.): Nil

\* Monographs: Nil

\* Chapter in Books:

\* Books Edited: Nil

\* Books with ISBN/ISSN numbers with details of publishers:

Sl. No.	Name	Title	Publisher	ISBN / ISSN	Year of Publication
1	Prof. Sudipto Das	A Complete Guide to Computer	Laxmi Publications	978-93-811-5968-2	2015

		Networks (2015, University Science Press,)			
2	Prof. Sudipto Das	A Complete Guide to Computer Fundamentals	Laxmi Publications	978-81-318-0550-3	2010
3	Prof. Rachna Sharma	A Complete Guide to Computer Fundamentals	Laxmi Publications	978-81-318-0550-3	2010

\* Citation Index:

Sl. No.	Faculty Name	Citation Index
1	Dr. Deepa Anand	116

\* SNIP: NIL

\* SJR: NIL

\* Impact factor:

Sl. No.	Faculty Name	Impact Factor Range
1	Dr. Deepa Anand	1.23 - 1.93

\* h-index:

Sl.No.	Faculty Name	h-index
1	Dr. Deepa Anand	5

## 20. Areas of consultancy and income generated: NIL

## 21. Faculty as members in

a) National Committees b) International Committees c) Editorial Boards...

Sl. No.	Faculty Name	Name of the Committee / Editorial Boards	Name of Organization/University	Type of Membership
1	Prof. Nagarajan S	ICCAT	ICCAT	Member
2	Dr Deepa Anand	Knowledge based Systems, Elsevier,	Elsevier, Springer	Reviewer

		Social Network Analysis & Mining, Springer		
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## 22. Student projects:

- Percentage of students who have done in-house projects including inter-departmental/ Program:NIL
- Percentage of students placed for projects in organizations outside the institution i.e.in Research laboratories/ Industry/ other agencies:

Sl. No.	Academic Year	Percentage of projects in Research laboratories/Industry/Other Agencies (%)
1	2013 - 16	100%
2	2012 – 15	100%
3	2011 – 14	100%
4	2010 – 13	100%

\*Details in Annexure II

## 23. Awards/ recognitions received by faculty and students:

Slno	Name of the faculty	Name of the Award	Name of Agency	Year
1	Mrs Rachna Sharma	Best Mentor Award from IBM	IBM	2014
2	Mrs Rachna Sharma	EMC Academic Star award	EMC2	2015
3	Mr. Baswaraj	5 Years Service Award	CMRIT	2014
4	Mr. Gomathi. T	5 Years Service Award	CMRIT	2014
5	Mr. Sudipto Das	5 Years Service Award	CMRIT	2011
6	Mrs. Rachna Sharma	5 Years Service Award	CMRIT	2012
<b>VTU RANK HOLDERS</b>				



1	Ms.Sukanya	VTU Semester 1 <sup>st</sup> Rank	VTU	2016
2	Ms. Lakshmi Teja	VTU Semester 3 <sup>rd</sup> Rank	VTU	2014
3	Mr. Naveen. P	CMR Leadership Award	CMRIT	2013
4	Ms. Namrata Ahuja	VTU 2 <sup>nd</sup> Rank	VTU	2012
5	Mr. Diza-urRohman	VTU 2 <sup>nd</sup> Rank	VTU	2010
6	Mr Kiran J	Star Performer – CMRIT PG – Student Club	CMRIT	2015

<b>Students Achievements</b>			
<b>The awards received by students at state/national level are mentioned in the table below</b>			
<b>Sl. No.</b>	<b>Name</b>	<b>CurricularActivity</b>	<b>Prize</b>
<b>2015-16</b>			
1	Poornima	National Level Inter University Championship-2017	Bronze Medal
2	Deepa	Hockey, VTU competition , 2016	First Prize
3	Apurana	Running 400 mts	Second Prize
4	Vidya Ghodageri	Tug of war	Second Prize
5	Pushpa	Tug of war & Running	Second Prize
6	Megana	Tug of war	Second Prize
7	Misba Naz	Tug of war	Second Prize
8	Hemalatha	Running 400 mts	Prize
9	Lavanya	Running 400 mts	Second Prize
10	shwetha K	Tug of war	Second Prize
<b>2014-15</b>			
1	BMSIT	Best Manager	Second Prize
2	BMSIT	Treasure Hunt	Second Prize
3	New Horizon College	Web Designing	First prize
4	New Horizon College	Gaming(NFS)	First prize

5	New Horizon College	Gaming(CS)	First prize
6	New Horizon College	Minute to win	First prize
7	NitteMeenakshi	Madads	First prize
8	Gopalan Institute of Management	Madads	First prize
9	Cambridge Institute of Technology	Madads	First prize
10	Cambridge Institute of Technology	Air Crash	Second prize
11	SJBIT	MADADS	Second prize
<b>2013-14</b>			
1	Christ University ,Bangalore	Web Designing	Second Prize
2	Christ University ,Bangalore	NFS	First Prize
3	Christ University ,Bangalore	IT Model Parliament	First Prize
4	BMSCE College, Bangalore	Treasure Hunt	Third Prize
<b>2012-13</b>			
1	Dayanand Sagar College of Engineering Bangalore	Web Designing	First Prize
2	Dayanand Sagar College of Engineering Bangalore	Ice Breaker	Second Prize
3	Garden City College	Web Designing	First Prize
4	Garden City College	Draping	First Prize & Second Prize
5	Garden City College	Painting	First Prize
6	Garden City College	Brain Stretchers	Second Prize
7	Garden City College	Encryption/Decryption	First Prize
8	RV College	Web Designing	First Prize
9	RV College	Product Launch	First Prize
10	RV College	Toggle	First Prize
11	RV College	Treasure Hunt	First Prize
12	Oxford College	Web Designing	Second Prize
13	Oxford College	Mad Ads	Third Prize
14	Oxford College	Khoj	Third Prize
15	Oxford College	Tech- Talk	Third Prize
16	Reva College	Web Designing	First Prize
17	RNSIT College	Web Designing	First Prize
18	NITTE MEENAKSHI College	Web Designing	First Prize

19	NITTE MEENAKSHI College	Gaming	First Prize
20	NITTE MEENAKSHI College	Paper Presentation	First Prize
2011-12			
1	MSRIT College of Engineering Bangalore	Web Designing	First Prize
2	MSRIT College of Engineering Bangalore	Naatech	Third Prize
3	Garden City College Bangalore	Web Designing	First Prize
4	Garden City College of Engineering Bangalore	Rangoli	Second Prize
5	Garden City College Bangalore	Technical Skit	First Place
6	Garden City College Bangalore	Creative Writing	Second Prize

#### 24. List of eminent academicians and scientists/ visitors to the department:

Sl. No.	Name of Academicians/ Scientists / Visitors	Name of Company	Designation
1	Mr. Deepak Nadig Anantha	Co-founder & Currently the Director of Research & Technology at SOLUTT Corporation, Bangalore, INDIA	Simulation of Computer Networks and Systems
2	Mr. Mauricco Sucasas	IBM	26 <sup>th</sup> July 2012, 5 eminent academicians from IBM academics and Asia Pacific Center head Mr. Mauricco Sucasas had visited the department to visit the IBM CoE and to felicitate the college for the same.
3	Mr. Chinmay Saraswat	IBM	Project Development Using RAD

**25. Seminars/ Conferences/ Workshops organized and the source of funding:**

- a) National
- b) International

Sn o.	Lectures/ Workshops/ Seminar	Guest Speaker	Company Name	Date	No. of Students participated
1	Social Behavior E-mail Etiquettes Presentation and Professional Ethics	Dr.Vineeta Rupani	MBA Department, CMRIT	27/01/2016 -29/01/2016	50
2	Social Behavior E-mail Etiquettes Presentation and Professional Ethics	Dr.Vineeta Rupani	MBA Department, CMRIT	2/02/2016 - 8/02/2016	35
3	Two Day Workshop on Networking	Mr.Manish Bharadwaj	ELAN Indian Inst of Technology Hyderabad	30/09/2016-01/10/2016	40
4	ERP and SAP	Mr. Rohan Gudavalli,	Deputy Manager, Delloite Touche Tohmatsu	15/09/2016	60
5	Interview tips for Technical round of Interview with Maventic	Mr. Veni Pranavananda,	Software Engineer, Maventic	26/09/2016	63

6	Introduction to Magento-eCommerce Platforms	Mr. Arshad,	Director, Codilar Technologies Pvt. Ltd.	25/10/2016	58
7	Introduction to iOS development	Mr. Pavan Padmashali,	Mobile App Developer, Flappjacks	05/11/ 2016	66
8	Trend in Web technologies	Mr. Manoj	Software Engineer Cybrilla Technologies,	03/12/2016	64
9	Industrial Unix	Mr. Shanthesh Goudar	Softwre Developer,Infine on Technolgies Bangalore	19/11/2015	58
10	Trending technologies in Software Industry	Mr. Swaroop M,	Software Engineer, Cybrilla Technologies, Bangalore.	14/09/2015	67
11	How to seek job in a dream company	Mr. Sanjeev Sukumaran	CEO at ForceFulcrum Solutions Pvt.Ltd	21/08/2015	70
12	How to face Technical Interview	Mr. Md. Oubaidullah & Mr. Md. Saleem,	Maventic	13/08/2015	69
13	Data Storage Technology Learning Objectives	Mr. Manjunath	H R, Data Lifecycle company	07/05/2015	62
14	Career in Software Testing	Mr. V Ramkumar,	Project Lead Centurylink,Bangalore	25/04/2015	67
15	Concept of CRM	Mr. Veni Pranavananda	Software Engineer, Maventic	23/04/2015	57
16	Data mining	Prof.Kavitha. K. S	Anna University	7/5/2015	60

17	Animated information Visualization	Dr.Paul Craig	XILTU,China	27/04/2015	98
18	Cadence OrCAD workshop	Mr. Manoj Kumar	Entuple technologies	16/01/2015-17/01/2015	28
19	Impact of Software Engineering Towards Successful Software Project Implementation	Mr. Mageshwaran R.	Reva Institute of Technology & Management	10.03.2014	50
20	The Usage of JAVA in Current Industry Scenario	Mr. Mahesh Gidwani,	Technical Architect at 4thdymension Teknocrats, Bangalore	09.04.2014	50
21	Spoken Tutorial-C/C++workshop	Mr.Ranjan Kumar	IIT,Bombay	13/10/2014	19
22	Robofeast-Quadcopter workshop	Mr. Ravi Kumar	Revert Technology	17/09/2014-20/09/2014	59
23	Workshop on SDN	Mr.Anuj Goel	IEEE Bangalore section	22/08/2014-23/08/2014	2
24	Omnipresent Telecom networks	Mr.Ravikiran Annaswamy	IEEE, Bangalore	2/4/2014	10
25	Mock Interview and group discussion	Mrs.Bhvaneshwari Panda	Omam consultants private limited	22/03/2014	42

26	Workshop MATLAB Simulink	Ms.Arпита	Cranes software international Ltd.	10/-3/2014- 12/03/2014	36
27	Developmen t of Enterprise Application using J2EE	Mr. AvadheshDeomurari	Tech. Lead, Serene Corporation	23.02.2013	60
28	IT Application Web Enabled in Education and Health Care	Dr. Y. S. KumarSwamy	Post. Doctorate, Aerospace Engineering Department	15.03.2013	70
29	Workplace Challenges in IT World	Mr. Shudir K. Salaka	Management Consultant, Emids System	07.05.2013	50
30	Simulation of Computer Networks and Systems	Mr. Deepak NadigAnantha	SOLUTT Corporation, Bangalore, INDIA	17.08.2013	50
31	Pathway to become DBA	Mr. Bharath Kumar.V	IBM, Bangalore, INDIA	31.08.2013	50
32	Applications with Ruby on Rails	Mr. Arun Kolhapur	Babbler Studio, Bangalore, INDIA	21.09.2013	70
33	Web Developmen t	Mr SelvarajKatturaja	Aricent Holdings, Bangalore	26.10.2013	70
34	Blended Learning through Soft Skill	Ms. K. Bhargavi	SAP FI/CO, Bangalore	23.11.2013	70
35	Guest Lecture on Project Developmen t Using RAD	Mr.ChinmaySaraswa t	IBM	18.10.2012	50
36	Guest Lecture on Java	Mr. Venkat	Quest	03.10.2012	30

37	Advance Java	Mr Ashok Iyengar,	Mindtree	19.02.2011	30
38	Web Programming	Mr Kamal Paul,	Globals	05.03.2011	30
39	Management Information Systems	Mrs Savitha,	IBM	19.03.2011	30
40	Soft Skill	Mr B V Rathnam,	Freelancer	26.03.2011	30
41	Rich Internet Application	Mr Gaurav,	Accenture	26.03.2011	30
42	Android Development	Mr.Dattatreya P Sharma	GuRu Prevails	08.09.2011	30
43	Data Structure	Mr ShivakumarAuradi	Honeywell Technology Solutions	26.02.2011	35
44	Dominos Server	Mr AnandaChowdary	TCS	12.03.2011	35

Name of the Course/ Program	Applications Received	Selected	Enrolled		Pass percentage
			*M	*F	
MCA/MCA (2013-16)	80	78	51	27	87
MCA/MCA(2012-15)	113	108	79	29	87
MCA /MCA(2011- 14)	60	58	39	19	90
MCA/MCA(2010-13)	59	59	45	14	90
MCA/MCA(2009-12)	50	48	36	12	94

\*M = Male \*F = Female



**27. Diversity of students:**

Name of the Course	% of students from the same state	% of students from other States	% of students from abroad
MCA(2011-12)	66.66%	31.74%	1.6%
MCA(2012-13)	69.4%	30.60%	-
MCA(2013-14)	68.35%	31.65%	-
MCA(2014-15)	86.36%	13.64%	-
MCA(2015-16)	87.14%	12.85%	-
MCA(2016-17)	82.00%	14.00%	4.00%

**28. How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil services, Defense services, etc.?**

Nil

**29. Student Progression:**

Student progression	Against % enrolled				
	2015-16	2014-15	2013-14	2012-13	2011-12
UG to PG	-	-	-	-	-
PG to M.Phil	-	-	-	-	-
PG to Ph.D	-	-	-	-	-
Ph.D to Post-Doctoral	-	-	-	-	-
Employed					
• Campus selection	21%	22%	55%	24%	32%
• Other than campus recruitment	50%	54%	38%	70%	63%
Entrepreneurship/ Self-employment	3%	4%	-	2%	1%
Other	26%	20%	7%	4%	4%

### 30. Details of Infrastructural Facilities:

a) Library:

Sl. No.	Area	No. of books	No. of mono graphs	No. of CDs	No. of journals	No. of reports	*Misc
1	19SqMtr.	3540	817	20	101	50	1) Magazines: 30 2) Syllabus: VTU 3) Scheme and solutions for all semester, all subjects

*\*includes syllabus, Question Papers, Magazines, Newsletters.*

\*Department level e-newsletter is published as a part of club activities for students.

b) Internet facilities for Staff & Students:

- All faculty rooms are provided with internet facility with 40 Mbps speed + WiFi
- Internet Facility for all students
- Centralized Wi-Fi Facility

Name of the Internet provider	BSNL(10Mbps), BELL Tele Services(30 Mbps)
Available bandwidth	40 Mbps
Institute's own e-mail facility to faculty/students:	Provided for all the Faculties and Students
Security/privacy to e-mail/Internet users	Cyberoam Firewall is provided

c) Class room with ICT Facility:

Sl. No.	Room No.	Shared / Exclusive	Area in Sq mts	Teaching aids
1	LH 101	Exclusive	60	PC, Internet, Projector, podium, UPS
2	LH202	Exclusive	80	PC, Internet, Projector, podium, UPS

3	LH203	Exclusive	100	PC, Internet, Projector, podium, UPS
4	LH204	Exclusive	80	PC, Internet, Projector, podium, UPS
5	LH101	Exclusive	60	PC, Internet, Projector, podium, UPS
6	LH102	Exclusive	80	PC, Internet, Projector, podium, UPS
003	Seminar Hall 1	Shared	100	Projector, Podium, Green Board, White Board, Internet, Speaker, Dias, Mic

## d) Laboratories:

Sl. No.	Name of Laboratory	Area	Major Equipments	Total Investment/ Amount spent
1	Project Lab	660 Sq M	Computers, Wi-Fi	12,89,528
2	Programming Lab	660 Sq M	Computers, Wi-Fi	12,89,528
3	Algorithms Lab	660 Sq M	Computers, Wi-Fi	12,89,528
4	Web Lab	660 Sq M	Computers, Wi-Fi	12,89,528

**31. Number of students receiving financial assistance from college, university, government or other agencies:**

Year	No of students receiving financial assistance
2015-16	91
2014-15	63
2013-14	49
2012-13	11

Scholarship Details for Last Four Years: Dept. of MCA										
Sl.No.	Name of the Institutional Organization	Details	2015-16		2014-15		2013-14		2012-13	
			No. of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.	No. of students	Amount in Rs.
1	Social welfare	SC/ST	15	900540	5	65280	10	65280	6	65280

2	Backward classes	OBC	69	1961485	2	4750	22	-	-	-
3	Directorate of technical education	Defense	-	-	-	-	2	-	-	-
4	Director of Minorities	DOM	-	-	-	-	-	-	-	-
5	State organization- Arivu loan karnataka minorities development Corp. LTD	Arivu-loan	-	-	32	31240	-	-	-	-
6	Samaja Kalyan Dept	BCM-other state	-	-	1	63800	6	-	-	-
7	CMR		7	50000	21	31240	9	31240	5	31240

### 32. Details on student enrichment programmes (special lectures / workshops /Seminar) with external experts:

Sn o.	Lectures/ Workshops/ Seminar	Guest Speaker	Company Name	Date	No. of Students participated
1	Social Behavior E-mail Etiquettes Presentation and Professional Ethics	Dr.Vineeta Rupani	MBA Department, CMRIT	27/01/2016 -29/01/2016	50
2	Social Behavior E-mail Etiquettes	Dr.Vineeta Rupani	MBA Department, CMRIT	2/02/2016 - 8/02/2016	35

	Presentation and Professional Ethics				
3	Two Day Workshop on Networking	Mr.Manish Bharadwaj	ELAN Indian Inst of Technology Hyderabad	30/09/2016-01/10/2016	40
4	ERP and SAP	Mr. Rohan Gudavalli,	Deputy Manager, Delloite Touche Tohmatsu	15/09/2016	60
5	Interview tips for Technical round of Interview with Maventic	Mr. Veni Pranavananda,	Software Engineer, Maventic	26/09/2016	63
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7	Introduction to iOS development	Mr. Pavan Padmashali,	Mobile App Developer, Flappjacks	05/11/ 2016	66
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10	Trending technologies in Software Industry	Mr. Swaroop M,	Software Engineer, Cybrilla Technologies, Bangalore.	14/09/2015	67
11	How to seek job in a dream company	Mr. Sanjeev Sukumaran	CEO at ForceFulcrum Solutions Pvt.Ltd	21/08/2015	70

12	How to face Technical Interview	Mr. Md. Oubaidullah & Mr. Md. Saleem,	Maventic	13/08/2015	69
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13	Data mining	Prof.Kavitha. K. S	Anna University	7/5/2015	60
14	Animated information Visualization	Dr.Paul Craig	XILTU,China	27/04/2015	98
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19	Robofeast-Quadcopter workshop	Mr. Ravi Kumar	Revert Technology	17/09/2014-20/09/2014	59
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21	Omnipresent Telecom networks	Mr. Ravikiran Annaswamy	IEEE, Bangalore	2/4/2014	10
22	Mock Interview and group discussion	Mrs. Bhvaneshwari Panda	Omam consultants private limited	22/03/2014	42
23	Workshop MATLAB Simulink	Ms. Arpita	Cranes software international Ltd.	10/-3/2014-12/03/2014	36
24	Development of Enterprise Application using J2EE	Mr. Avadhesh Deomurari	Tech. Lead, Serene Corporation	23.02.2013	60
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28	Pathway to become DBA	Mr. Bharath Kumar. V	IBM, Bangalore, INDIA	31.08.2013	50
29	Applications with Ruby on Rails	Mr. Arun Kolhapur	Babbler Studio, Bangalore, INDIA	21.09.2013	70
30	Web Development	Mr. Selvaraj Katturaja	Aricent Holdings, Bangalore	26.10.2013	70

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32	Guest Lecture on Project Development Using RAD	Mr.ChinmaySaraswat	IBM	18.10.2012	50
33	Guest Lecture on Java	Mr. Venkat	Quest	03.10.2012	30
34	Advance Java	Mr Ashok Iyengar,	Mindtree	19.02.2011	30
35	Web Programming	Mr Kamal Paul,	Globals	05.03.2011	30
36	Management Information Systems	Mrs Savitha,	IBM	19.03.2011	30
37	Soft Skill	Mr B V Rathnam,	Freelancer	26.03.2011	30
38	Rich Internet Application	Mr Gaurav,	Accenture	26.03.2011	30
39	Android Development	Mr.Dattatreya P Sharma	GuRu Prevails	08.09.2011	30
40	Data Structure	Mr ShivakumarAuradi	Honeywell Technology Solutions	26.02.2011	35
41	Dominos Server	Mr AnandaChowdary	TCS	12.03.2011	35

### 33. Teaching methods adopted to improve student learning:

Teaching methods include

1. Guest Lectures
2. Workshops & Seminars
3. Programming Lab
4. Mini Projects
5. Intensive Coaching Programme
6. Faculty Web page
7. Tests
8. Technical Quiz
9. Activity based learning



For the effective delivery of lectures and to impart knowledge for students faculties showcase their best possible effort in all manner. This includes video presentations, lab instruction classes, programming lab etc.

**Guest Lectures** are conducted on relevant topics in academics and latest technologies by distinguished people from industry and academics throughout the course to help students in all possible way.

**Workshops** are conducted by industry people with the latest trends in technology. **Seminars** are conducted in class were students are asked to prepare and take classes in various topics of their choice.

**Programming lab** is conducted to improve the technical competency and logical thinking of students to help in placement process.

**Mini Projects** - Students are asked to do mini projects based on the programming language which they study in that particular semester.

**Intensive Coaching Programme** is conducted for weak students after each internal exam. Those students who fail to perform in the internal tests are identified and given special trainings.

**Faculty Web Pages** Each faculty has their own google web pages where they upload materials (notes, question banks, ppts, assignments , solutions etc) and share link of different.

**Tests** Surprise test is conducted periodically to test the understanding of topics by students.

**Technical Quiz** Very often technical quiz is been conducted by department technical forum.

**Activity based learning:** Based on topics activity is been conducted for better understanding.

### 34. Participation in institutional social responsibility (ISR) and extension activities:

#### “Sahyog”– the Social Concern activity

Sl No	Date	Organization	Activity
1	27/02/2016	Sneha Orphanage and Need	Donated groceries and

		Trust	conducted few games and gifts were distributed to all.
2	4/09/2015	Sneha Orphanage and Need Trust	Donated groceries, toilet kids, educational materials like books, pens and savories to the kids
3	08/11/2013	Govt Higher Primary School, Attibele, Bangalore	50 students of this school was invited to our campus provided them training on computer fundamentals and arranged lunch and Cultural event for the students.
4	15/12/2012	Sishu Griha School, Near GCC, Bangalore	Donated clothes, Stationeries, Food items and spent time by playing with children.
5	29/10/2011	Nava Jeevana Nilaya, Kundalahalli Gate, Bangalore	Donated clothes, food items and other provisions for cancer patients.

### 35. SWOC analysis of the department and Future plans:

Strength	Weakness
<ol style="list-style-type: none"> <li>1. Competent faculty with a passion for academics.</li> <li>2. Courses oriented towards placement.</li> <li>3. Enlightened and forward looking administration with a vision for bringing up the department to the highest level of quality.</li> <li>4. Surrounded by IT hub.</li> </ol>	<ol style="list-style-type: none"> <li>1. Potential of networking with other institutions is not yet fully exploited.</li> <li>2. Awareness of IPR among faculty needs to be enhanced to accelerate effective conversion of research activities into viable/commercializable projects.</li> <li>3. R&amp;D in latest technologies needs to be improved.</li> </ol>
Opportunities	Challenges
<ol style="list-style-type: none"> <li>1. Leverage Alumni for assisting in Placement and other Industry trainings</li> <li>2. Research and Funded projects being provided by various Government bodies and other Institutions.</li> </ol>	<ol style="list-style-type: none"> <li>1. Skewed interest of students who take admission</li> <li>2. Weak academic background of students.</li> <li>3. Balancing Gender is tough in departments.</li> </ol>

3. Organizations providing opportunities for Consultancy.	
<b>Future plans</b>	
<ol style="list-style-type: none"> <li>1. Industry ready training through classroom teaching</li> <li>2. 100% placement opportunities</li> <li>3. Persuade Publications among students and Faculties.</li> <li>4. Persuade Consultancy among faculties</li> </ol>	

**ANNEXTURE – 1**

	<b>Sanctioned</b>	<b>Filled</b>
Foreman	1	1
Lab Instructors	4	4
Helper	1	1
Office Executive	1	1

**Publications Details****Annexure - II**

<b>List of Publication -2015</b>					
<b>Sl.No</b>	<b>Name of the Person</b>	<b>Title of the Paper</b>	<b>Publication Citation / Chapter in Book</b>	<b>National or International</b>	<b>Impact - Factor</b>
1	Dr. Deepa Anand	A referral-functional trust perspective for enhanced recommendations	International Journal of Computational Systems Engineering, nderscience. vol. 2, pp. 1-10.	International Journal	1.93
2	Dr. Deepa Anand	Predicting Post Importance in Question Answer	Distributed Computing and Internet Technology,	International conference	

		Forums Based on Topic-Wise User Expertise	Lecture Notes in Computer Science Volume 8956, pp 365-376		
3	Dr. Deepa Anand	Investigations into the Goodness of Posts in Q&A Forums— Popularity Versus Quality, Information Systems	Design and Intelligent applications Advances in Intelligent Systems and Computing Volume 340, pp 639-647.	International conference	
4	Sudipto Das	Extensibility of e-Learning in Rural India Using 4G	CMR University, (Accepted)		
5	Nagarajan S	Dynamic Job Scheduling Using Ant Colony Optimization for Mobile Cloud Computing	Advances in Intelligent Systems and Computing, Springer, Volume 321, 2015 PP 71 -82.	International	
6	Nagarajan S	Buffer based parallel downloading in P2P Network	Applied Engineering Research (IAER), May 2014, Scopus	International	
<b>Research Details of the Research Scholar</b>					
Sl. No.	Name of the scholar	Research Topic	University	Status	
1	Mr. Nagarajan S	Dynamic Context aware role based access control security model for wireless networks	Bharathiya r	Submission of thesis	
2	Mr. Baswaraj	Design and Development of A Routing Control Scheme For Congestion Over TCP/IP	Mewar	Pre PhD Viva Voce Completed	

<b>List of Publication -2014</b>					
<b>Sl.No.</b>	<b>Name of the Person</b>	<b>Title of the Paper</b>	<b>Publication Citation</b>	<b>National or International</b>	<b>Impact Factor</b>
1.	Mrs. Rachna Sharma, Mr.Sudipto Das	Complete Guide to Computer networks	Laxmi Publications-2014	---	-
	Dr. Deepa Anand	User Profiling Based on Keyword Clusters for Improved Recommendations	Tenth International Conference on Distributed Computing and Internet Technology	International	1.93
2.	Dr. Deepa Anand	Evaluating Folksonomy Information Sources for Genre Prediction	4th IEEE International Advance Computing Conference, New Delhi	International	1.93
3.	Dr. Deepa Anand	Folksonomy-Based Fuzzy User Profiling for Improved Recommendations	Expert Systems with Applications, Elsevier, Vol. 41(5), pp. 2424-2436	International	1.97
4	Prof.B. Vijaya Lakshmi	The Dawn of Big Data-Hbase	IEEE Xplore CSIBIG 2014, International Conference, Indore	978-1-4799-3063-0	2014
5.	Dr. DeepaAnand	Investigations into the Goodness of Posts in Q&A Forums— Popularity Versus Quality	Information Systems Design and Intelligent Applications, Springer 639-647	International	1.269
6.	Mr. Baswaraj	TCP Over Wireless Network to Reduce Congestion by	IJAESTR, Oct. 2013 ISSN: 2321-1202	International	-

		Using Round Trip Time (RTT)			
7.	Mr. Baswaraj	Modeling of Packet Switched Network over TCP/IP Suggest to Modify Routing to Reduce Window based Congestion Control	Proceedings of C2SPCA, Oct. 2013, TOCE, B'lore ISBN:978-1-4799-1085-4	International	-
8.	Mr. Sudipto Das	The Design of Mobile-Based Student Mentoring Program Using 4G	IJRIT, Vol.1, Issue 9, Sep. 2013, ISSN: 2001-5569	International	-
9.	Mr. Baswaraj	TCP/IP Over Wireless Network Routing to Reduce Congestion Control	IJRIT, Vol.1, Issue 6, Jun. 2013, ISSN: 2001-5569	International	-
10.	Mrs. Rachna Sharma, Mr. Sudipto Das	Mobile Application development to Enable M-Learning Using 4G	NACC-2013, MVJCE, Bangalore, Apr 2013	National	-
11.	Mrs. Gomathi. T, Mrs. NehaAgarwal	Effective way to Teach Software Process Models and Manage Projects Through Educational Games to Add Realism to	NACC-2013, Apr 2013, MVJCE, Bangalore,	National	-

		Class Room Presentation			
12.	Ms.UshaPatnaik Das & Ms.Nithya Ramesh	“An Artificial Neural network approach to brain emulation- Analysis of the blue brain project”	NCICT’13, Mar. 2013, NHCE, Bangalore	National	-
13.	Mrs.Rachna Sharma	Data & Computer Communication	Laxmi Publications		-
14	Mrs. Rachna Sharma	Computer Networks	Laxmi Publications		-
15	Mr.Sudipto Das	Computer Fundamentals	Laxmi Publications		-
16	Mrs. Rachna Sharma, Mr.Sudipto Das	Use of 4G Technology to Enable E-Learning In Mobile Devices	National Seminar on Impact of Information Technology on Rural India, K B N College, Vijayawada	National	-
17	Mr. Baswaraj	TCP Venetian and TCP Vegas: Improvement for End to End Congestion Avoidance on a Wireless Network	Department of ECE, R.V.C.E., Bangalore	International	-
18	Mr. Baswaraj	Simulation-Based Switching Network over TCP/IP to Reduce Congestion	National Conference On Computers, Communication and Controls – 11 (N4C - 11) Project Exhibition and Competition	International	-
19	Mr. Baswaraj	Packet Switched Network over TCP/IP to Suggest Modified Routing to	International Conference on Operational Excellence for Global Competitiveness, (ICO EGS-2011)	International	-

		Reduce Congestion			
20	Mr. Baswaraj	Packet Switched Network over TCP/IP to Suggest Modified Routing to Reduce Congestion	National Conference on Management in the Age of Innovation(NCM-2011)Jamal Institute of Management (JIM) Jamal Mohamed College (Autonomous) Tiruchirappalli	National	-
21	Mrs. Rachna Sharma	Proposed Framework for Evaluation of Learner Style Based E-Learning System for HR Function	National Conference on Management in the Age of Innovation(NCM-2011)Jamal Mohamed College, Tiruchirappalli	National	-
22	Mr. Baswaraj	Modeling of Packet Switched Network over TCP Veno: TCP Improvement for Transmission over Wireless Access Network	International Conference on 34th National Systems Conference (NSC-2010). Theme System solutions for Global Challenges: Environment and Security NIT-K, Surathkal	International	-
23	Mr. Baswaraj	Modeling of Packet Switched Network over TCP/IP to Suggest to Modified Routing to Reduce Congestion	2nd International conference on IT and Business Intelligence(ITBI-2010)IMT, Nagpur	International	-
24	Mr. Baswaraj	Modeling of Packet Switched Network over TCP/IP to	National conference on Futuristic Technologies in Computer Science, Engineering &	National	-



		Suggest to Modified Routing to Reduce Congestion	Applications, (NCFTCEA- 2010) The Oxford College of Engineering Bangalore-68		
25	Mr. Baswaraj	Modeling of packet switched N/W over TCP improvements for transmission over wireless access networks	International Conference on Computer, Communication & Networking (ICN2010)REC, Bhalki, Karnataka	International	-
26	Mrs. Rachna Sharma	E-Learning in Rural Areas using 4G	International conference on Convergence of Science and Engineering in Education and Research- A Global Perspective in the new Millennium (ICSE 2010)DayanandSagar College of Engg, Bangalore	International	-
27	Mr.Nagendra N	VPN Technology Implementing Business Scenarios with Qos Mechanism	National Conference Anveeksha 12 at St.Aloysius, Mangalore	National	-
28	Mrs. Rachna Sharma	Mobile Application development to Enable M-Learning Using 4G	NACC-2013, MVJ College of Engineering, Bangalore	National	-

**ANNEXURE – III**
**YEAR 2010 - 13**

Sl. No.	USN	Name	Project Name	Internal Guide (Name/Designation)
1	1CR10MCA01	Ajay Kumar Gupta	Ranking Spatial Data by Quality Preferences	Mrs. T.Gomathi, Asst. Prof
2	1CR10MCA02	Akshatha K V	Design and Implementation of TARF: A Trust-aware routing framework for WSNS	
3	1CR10MCA03	Akshay H V	The Book Review and Analysis	
4	1CR10MCA05	Ankitha G N	Private Banking and Wealth Management	
5	1CR10MCA06	Arun Kolhapur	Building High scalable social E-commerce web applications	
6	1CR10MCA07	Ashok Biradar N	Contractor Labour Management System	
7	1CR10MCA09	Deepika	Windows Phone Application - DocCure	
8	1CR10MCA10	Deepthi Roy H M	Employee Data Management System	
9	1CR10MCA11	Dibyendu Saha	Personalized Image Search from the Photo Sharing Websites	Mrs. B Nithya Ramesh, Asst. Prof
10	1CR10MCA13	Gabriel Nikhil	Windows 8 Metro Apps (Housey Plants)	
11	1CR10MCA14	Hirematada Sannaveera	Client-side Load Balancer using Cloud	

12	1CR10MCA15	Husna Banu	User Relationship Management in Madmec	
13	1CR10MCA16	Kailash	SEO Techniques Automation with Competitor Analysis	
14	1CR10MCA17	Karthik S M	Windows 8 Metro Apps (Are You A Tech Savvy? World Museums)	
15	1CR10MCA18	Karthik R	Windows 8 Metro Apps (Contacts Book, Microscopy, Codex)	
16	1CR10MCA19	Kaushik De	Real Estate and Lead Management System	
17	1CR10MCA20	Krishna V W	Building Highly Scalable Social Ecommerce Web Applications	
18	1CR10MCA21	Krunal Patel	Cyber Forensics Tools	
19	1CR10MCA22	Mahesh S R	Cricket Craze	
20	1CR10MCA23	Mallikarjuna	Cloud Computing for Agent Based Urban Transportation System	
21	1CR10MCA24	Manju Prasad M	Improving Utilization of Infrastructure	
22	1CR10MCA25	Manjunath R	Gossip 24/7 windows 8 app	Mr. Baswaraj Biradar, Asst. Prof
23	1CR10MCA26	Manoj T M	DUKANO	
24	1CR10MCA27	Nabanita Dey	Customising Screens for Vendor Master Data Using Module Pool Programming	
25	1CR10MCA28	Namita Bhandari	The Android Apps interface for Silvan	

			Home Automation system with Cloud services.	Mr. Sudipto Das, Asst.Prof.
26	1CR10MCA29	Naveen P	Admin controller payment gateway and paypal	
27	1CR10MCA30	Nikesh Kumar	Development of Inventory and purchase information system using reports of ERP	
28	1CR10MCA31	Pabitra Kumar Thakur	E-Voting	
29	1CR10MCA32	Pallabi Sarkar	Finance Management Software	
30	1CR10MCA33	Poulami Jana	Institute Management Software	
31	1CR10MCA34	Prathima J	Image optimization and content management system for Madmec	
32	1CR10MCA35	Pravara K V	Publishing Search Logs	
33	1CR10MCA36	Rahul Roy	Social Networking (Friend's Info Maintenance, chats & comments)	
34	1CR10MCA37	Ramakrishna S	Online Cyber crime reporting and Investigation monitoring.	
35	1CR10MCA38	Rithesh Kumar N	Unique Pack Code	
36	1CR10MCA39	Riya Saha	Street Side	
37	1CR10MCA40	Sameer Dhinda	Co-operative provable data possession for Integrity Verification in	Mr.Nagendra.N., Asst.Prof.

			Multi-Cloud Storage	
38	1CR10MCA41	Sandeep K	Hand Gesture Recognition System.	
39	1CR10MCA42	Shashank	Whitepapers and e-books	
40	1CR10MCA43	Siddanna	Code Crackers	
41	1CR10MCA44	Somareeta Basu	App for Windows 8(Celebrity Gossip,Birds World,Science Quiz)	Dr. Prasada Rao, Professor
42	1CR10MCA45	Suman Some	Social Networking(Friends Profile, Search & Requests)	
43	1CR10MCA46	Sunil Kumar H	SECURE OUTSOURCING OF LP IN CLOUD	
44	1CR10MCA47	Sunitha D	Windows8 Apps (Interview Forum, Bodywiz, Publishing Books)	
45	1CR10MCA48	Supreetha R Parab	The android app interface for silvan Home Automation system and cloud services.	
46	1CR10MCA49	Suprith B K	Sponsorship Management for RDT	
47	1CR10MCA50	Swaroop S M	WhiteEngine- Data Extraction, processing and report generation	
48	1CR10MCA51	Swetha V	Modeling and detection of camouflaging worm	
49	1CR10MCA52	Tiju Thomas	Powerful and scalable Business to Business E-Commerce Web Applications	

50	1CR10MCA53	Tirunagari Ujwal Rao	Building Highly Scalable Social E-commerce Web Application	Mrs. Rachna Sharma, Associate Prof., & HOD
51	1CR10MCA54	Vinod C M	Data Extraction(White Engine)	
52	1CR10MCA55	Vivek Kumar Pal	Automation of Prepaid Sim Distribution Accounts Management	
53	1CR10MCA56	Yagna Ganesh Mk	User Interface & Payment through Website	
54	1CR10MCA57	Amit Kumar	Jobs and Resume Portal	
55	1CR10MCA58	Kumar Piyush	Development Data migration of Vendor Master Data from non-ERP system to ERP System using LSMW and BDC Aproches.	
56	1CR10MCA59	Md Tajafzal	Mininet Emulator and performance study	
57	1CR10MCA60	Piyush Kumar	Online Selection System	
58	1CR09MCA02	Amandeep Singh	Cloud computing for single to Multiple computing	
59	1CR09MCA46	Vijay Verma	Ensuring Distributed Accountability for Data Sharing in the Cloud	

**YEAR 2011 – 2014**

Sl. No.	USN	Name	Project Name	Internal Guide (Name/ Designation)
1	1CR11MCA01	Abhilash Mukherjee	Mobile Ecommerce Website with Data Management System	Prof. Rachna Sharma /Associate Professor & HOD
2	1CR11MCA02	Ankitha Nandhini. L	ECAD Libraries - Footprint Module	
3	1CR11MCA03	Anusha K	Career Turn	
4	1CR11MCA04	Arshad .M	Nine gardens - Happy Gardening (Online Gardening Store)	
5	1CR11MCA05	Asha H	Applications for Advocate Dairy and Health & Nutrition guide	
6	1CR11MCA06	Ashwini V S	Auomated Testing of Zoho CRM - Petitions	
7	1CR11MCA10	Chitra Ghosh	SKOOTA - Sign Up and Test Module	Dr. Deepa Anand/ Associate Professor
8	1CR11MCA11	Deanish M A	Satellite Solar Panel - Admin	
9	1CR11MCA13	Feroz Shaikh	Cloud based Multi-Factor Authentication with SSO & directory integration	

10	1CR11MCA14	Gavaskar. D	ECAD Libraries - Testing, Validation and Download Module	
11	1CR11MCA15	Geeta Kewat	Enterprise Communicator Manager with AES	
12	1CR11MCA16	Jijo Joy	Auomated Testing of Zoho CRM - Analytics	
13	1CR11MCA17	Jisha .C Ramadas	Satellite Solar Panel - Inspection Head	Prof. Nagendra/ Associate Professor
14	1CR11MCA18	Madhury Roy Mathew	Powerful and scalable business to business web application- malsonsgroup.com	
15	1CR11MCA20	Mohammed Oubaidullah	LAVA Mobile Phones Online Management System	
16	1CR11MCA21	Mohammed Saleem Bani	Sponsorship Management for RDT	
17	1CR11MCA22	Namrata	Kick About- Social Networking Website for Constitutional Awareness	
18	1CR11MCA23	Narendra N Shetty	RazorFlow Support System and User Authentication with Payment Processing Engine	Prof. Sudipto Das/ Associate Professor
19	1CR11MCA24	Naveen Kumar M	Windows Apps for VTU e-library, Seasonal tourism and Favourite Hub	
20	1CR11MCA25	Nikitha V K	SAMA Telecommunications	



21	1CR11MCA27	Poulami Roy	Online Seed Auction	
22	1CR11MCA28	Pradeep Kr Pramanik	Web Tester	
23	1CR11MCA07	Avinash Kumar V	Artcratis with Cloud Security	
24	1CR11MCA26	Nitish.Bandagar	Automated Intigrated Multistream Data Visualization	Mr. Baswaraj/ Asst.Prof
25	1CR11MCA29	Prashanth Mali Patil	SABI Medical ReminderApp - Reminder, Todayand Setting Module	
26	1CR11MCA30	Pratip Kumar Biswas	Airport Networking System with logging facilities	
27	1CR11MCA31	Preeti Y	Auomated Testing of Zoho CRM - Sales Strategy	
28	1CR11MCA32	Rahul Joseph	ECAD Libraries - Search and MyCart Modules	
29	1CR11MCA08	Bhavya N	ERP for Automobile Inventory Management System	
30	1CR11MCA33	Rinu John	Verification and Validation ofFlora4femme Online	Prof.Vikash Kumar/ Asst.Prof
31	1CR11MCA35	Sabeer Abdul Shukoor	Flora4femme Online - Website Development	
32	1CR11MCA36	Sai Lakshmi V	DataMart Management Software	
33	1CR11MCA37	Sandeep K N	MassiveOnline Open Courses	
34	1CR11MCA09	Chethan. C	SABI Medical Reminder App - User Registration and Medicine Scheduler Module	
35	1CR11MCA38	Shashidhar Heera	Automated Business Process with	

			Forecasting & Reports	
36	1CR11MCA39	Shatabdi Kushwaha	SKOOTA - Invitation and Report Module	Prof. Shweta Singai/ Asst.Prof
37	1CR11MCA40	Shivaraj	Advance Online Repository with Sharing and Application Object Customization	
38	1CR11MCA41	Shraddha Gupta	Auto Sync Outsourcing Marketplace Manager with Reports & WFH	
39	1CR11MCA42	Soumik Ghosh	Online Seed Auction - Validation and Testing	
40	1CR11MCA43	Soumyadipta Roy	Automated Testing on CRM Applications	
41	1CR11MCA44	Srinivas K	Professional Audience Targeting Using Multimedia & Social Media	Prof. Sathya/ Asst.Prof
42	1CR11MCA45	Subrat Kumar Padhy	Applications for Bhagavad Gita - The golden rules of life and Cricket Teams	
43	1CR11MCA46	Sugares N	Virtual Emulator Console Suit Integrated with SSL and AES	
44	1CR11MCA47	Sujay G S	Flexible Surveillance Controller Integrated with VMS & GMDSS	
45	1CR11MCA48	Sunilamma V	Multi Owner Data Sharing for Dynamic Groups In The Cloud(MONA)	
46	1CR11MCA49	Sunil Kulkarni	Sienna Ecad Enterprise Management	Prof. Uma/ Asst.Prof

			Systems (SEEMS) - HR Module	
47	1CR11MCA50	Sunita B	ECAD Libraries - Admin Module	
48	1CR11MCA52	Swetha Kadechar	Edupix	
49	1CR11MCA53	Tamjeed Qazi	QuickKeys	
50	1CR11MCA54	Veni Pranavananda	Loyalty Management System	
51	1CR11MCA55	Vijay Kumar K	Sienna Ecad Enterprise Management Systems (SEEMS) - Sales Module	Prof. Sathish/ Asst.Prof.
52	1CR11MCA56	Vinayaka N	Dynamic Resource Allocation using Virtual Machines for Cloud Computing Environment	
53	1CR11MCA57	Vinod Kumar N	Advance Predictive app with Modeling and Visualization	
54	1CR11MCA58	Hare Krishna Gorain	Applications for Indian City Advisor and Car Gallery	
55	1CR10MCA08	Chidanand Murthy M	High Level Digital Image Processing app 3.2	

### YEAR 2012 – 2015

Sl. No.	USN	Name	Project Name	Internal Guide (Name/ Designation)
1	1CR12MCA01	Abhinaba Majumdar	NetLink - Social Network	Dr. Deepa Anand
2	1CR12MCA02	Amith Kumar Deshpande	Windows 8.1 Applications for Famous Chess Players, Quiz Fun	
3	1CR12MCA03	Anand S	Windows 8.1 Applications for	

			AlienFiles, Yatra Sthal and My Utube Video	
4	1CR12MCA04	Anburaj	Windows 8.1 Applications for LifePcDiary, Tasty Indian Recipe	
5	1CR12MCA05	Anil K R	Life Insurance	
6	1CR12MCA06	Anisha Kumari Singh	Health Insurance Tracker	
7	1CR12MCA07	Anjum Aara	Airways Travelling	
8	1CR12MCA08	Ankit Chauhan	Alumni Manager	
9	1CR12MCA09	Anumol M P	Our Crop: Account Management	
10	1CR12MCA10	Anup Majumdar	MiniBlurbs	
11	1CR12MCA12	Aravind Kumar V L	Members and Events for Morning Side	
12	1CR12MCA14	Ashok K	Pocket Starz - Android App	
13	1CR12MCA16	Banuprathap C	Android Application for Automobile Service Centre Management System	
14	1CR12MCA17	Binumon T Samuel	Framework Development for CRM Application: Accounts, Contacts and Opportunities	
15	1CR12MCA19	Debmitra Bhattacharjee	Framework Development for CRM Application: Leads, Files and Reports	
16	1CR12MCA20	Deep Lahiri	Online Attendance Tracker	Mr. Sudipto Das
17	1CR12MCA21	Deepan Sharma	Bug Tracking System	
18	1CR12MCA22	Deepti K S	Bizvital: Customer Module	
19	1CR12MCA24	Dharmendra Kumar	Trader to Brand Integration Platform	

20	1CR12MCA25	Dhrisya P V	Bizvital: Customer Module	
21	1CR12MCA26	Dinesh Babu A	E-Assessment Instructor	
22	1CR12MCA27	Edward Felix S	Cross Platform Websites for Tettares Software Solutions	
23	1CR12MCA30	Imran Ahmed Soudagar	SIMS FOR APS	
24	1CR12MCA31	Irshad N	Kimi Online Job Portal	
25	1CR12MCA32	Jagadeesh K	Petals School Management	
26	1CR12MCA33	Jeetendra Yadav	EZeeCondo Exclusive and Reality Site	
27	1CR12MCA34	Jyotsna	Data Driven Framework for Regression Test Automation	
28	1CR12MCA36	Kallesha I M	Nearby ATM Finder	
29	1CR12MCA37	Kavita Saini	Scandinavian airlines	
30	1CR12MCA38	Kiran Jagadeesh	Okapia-OSS & Hello world	Mr. Baswaraj
31	1CR12MCA39	Kiran Kumar D	A Gossip Protocol for Dynamic Resource Management In Large Cloud Environments	
32	1CR12MCA40	Kiran Kumar S R	Scout Cloud Storage System.	
33	1CR12MCA41	Kumari Aruna V Banagar	Privacy-Preserving MRSE Cloud Data	
34	1CR12MCA42	Lakshminarasimhan N	Admin DashBoard for Ocutag Portal (Billing Module)	
35	1CR12MCA43	M Manikandan	Corporate Extension and Loyalty Manager	
36	1CR12MCA44	Mahesh S	Medikraft-Pharmacy Data	

			Base Management System	
37	1CR12MCA45	Mallikarjuna K P	web services for pocketstarz	
38	1CR12MCA46	Mandira Phukan	Error Allocation Resolution system	
39	1CR12MCA47	Manish Kumar	Vaccination Scheduler	
40	1CR12MCA48	Manish Milind Bhattad	Learinign and development of based on Virtual Examination System.	
41	1CR12MCA49	Manish Sharma	City Gyan Darshan	
42	1CR12MCA50	Manoj Kumar M	POCKETSTARZ IOS APP	
43	1CR12MCA51	Mohammed Muzammeel	Fairness Aware and Privacy Preserving Friend Matching Protocol	
44	1CR12MCA52	Mohd. Shahnawaz	DIMPA Health Care	
45	1CR12MCA53	Monisha A J	Windows 8 Application's for boosting food's and God Songs Lyrics	
46	1CR12MCA54	Naveen G	Performance Analysis Console with Graphical Report and Dashboard	Ms. Gomathi T
47	1CR10MCA04	Amit Kumar	Development of Inventory and Purchase Informational system using interactive reports of ERP	
48	1CR11MCA51	Susmit Kar	Data Migration from Non-ERP to ERP system using LSMW & BDC Approaches	
49	1CR12MCA55	Naveen Meka	Project Management Plan	

50	1CR12MCA57	Nirmala M	Oss Okapia-Notification,Inventory,Leaves and Payroll		
51	1CR12MCA58	Oinam James	News Feed Android App		
52	1CR12MCA59	Onkar Mishra	Seedbuzz Mobile App		
53	1CR12MCA60	P Sowmya	Mail Marketing with List Management & Analytics		
54	1CY12MCA01	Pampapathi K	Efficient Claiming System		
55	1CY12MCA02	Partha Sarathi Majee	Building Auto Assessment tool for success		
56	1CY12MCA03	Patil Ashwini Parshuram	Resource Manager		
57	1CY12MCA04	Pavan Padmashali B S	Gossips and Reviews for Pocketstarz		
58	1CY12MCA05	Pooja Sambrani	Rocket-Tillage		Ms. Uma B
59	1CY12MCA06	Pratyush Kumar	framework for CRM applications		
60	1CY12MCA07	Praveen Gowda S C	Enterprise Collaborator with Resources		
61	1CY12MCA08	Preethi M	All in One Business Management System		
62	1CY12MCA09	Priya S	Inblox - app		
63	1CY12MCA10	Priyanka Mishra	Zeppeline Reservation		
64	1CY12MCA11	Punyakeerthi B L	Implementation of Hybrid cloud using OpenNebula		
65	1CY12MCA12	Pushpanjali V	Rocket - cash crop		
66	1CY12MCA13	R Meghana	Business Planning Using Mobile Remote Server		
67	1CY12MCA14	Rajesh N Joshi	Live-Migration of VM's in Private		

			cloud Using OpenNebula	Mr. Vikash
68	1CY12MCA15	Rajesh Tiwari	Online Loan and Recovery Management system	
69	1CY12MCA16	Rakesh D G	Implementation of Private cloud using OpenNebula	
70	1CY12MCA17	Rakesh Kumar	Legal Desk	
71	1CY12MCA18	Ramesh G	Amazing villager	
72	1CY12MCA19	Roopa M Shet	Club VA	
73	1CY12MCA20	Rufus Paul Thomas	Competitive terms and trends analyzer with reports	
74	1CY12MCA21	Sabarish C T	Share@OnceAnalytics	
75	1CY12MCA22	Saini Sarkar	Portal for 99acres's employees	
76	1CY12MCA23	Sangeeta	User Related Enhancements for e-book portal	
77	1CY12MCA24	Sangeetha C	CRM Easy Contact	
78	1CY12MCA25	Santosh Kumar	Ohh-Yes	
79	1CY12MCA27	Sharana Basava G	Online Logistics Management System	
80	1CY12MCA28	Shridhar V	Medicare Billing System	
81	1cy12mca29	Shweta SH	Admin Dashboard for e-book portal	
82	1CY12MCA30	Siddalingappa K	Creed Global Digital Learning	
83	1CY12MCA31	Siddhartha Chowdhury	CONTRAMAT Backend-API	
84	1CY12MCA33	Sourav Mondal	Contrammat - Frontend, Ecommerce menu, SEO & analytics	
85	1CY12MCA34	Sowmya S	Testing on CRM	
86	1CY12MCA35	Subhasish Bhattacharjee	Employee Profile Management System	



87	1CY12MCA36	Sumanth S	Bug Care Tool	Ms. Sathya M
88	1CY12MCA37	Sunil Kumar Sharma	Appointment Call-Back Application	
89	1CY12MCA38	Surbhi Kumari	Akademe	
90	1CY12MCA39	Surendra Darisi	Featured, Diningout and Helpful Links for Morning Side	
91	1CY12MCA40	Swarnava Ray Barman	Status.-A platform for social elevations	
92	1CY12MCA41	Syed Ahmed Taha Quadri	Implementation of personalization features for e-book portal	
93	1CY12MCA42	T Basavaraj	Market Analyzer with Decision Charts and Presenter	
94	1CY12MCA43	Vamshi Krishna	Creed Tourist Booking System	
95	1CY12MCA44	Veena K	Recommendation Engine for E-book Portal	
96	1CY12MCA45	Vimalan D	Watchin	
97	1CY12MCA46	Vineetha K P	Our Crop: Loan management	
98	1CY12MCA47	Yagnya B K	Enterprise process efficiency metrics with accelerated standard responses	
99	1CY12MCA48	Yogendra Mishra	e-Vote Online India Elections	

### YEAR 2013 – 2016

Sl. No.	USN	Name	Project Name	Internal Guide (Name/ Designation)
1	1CR13MCA02	AJOY PORE	Tiffmiffs	Dr.Deepa Anand
2	1CR13MCA03	AKHIL	RENTAL MANAGEMENT SYSTEM	
3	1CR13MCA04	ANAND	TalentSpear Campus Recruitment Management	
4	1CR13MCA05	ANIL KUMAR SOMANI	Peep India – News Portal	



5	1CR13MCA06	ARAVIND K	Online Android Application For Health Test Booking	
6	1CR13MCA07	ARJUN J NAIR	Job Portal	
7	1CR13MCA08	ARPITHA K L	Business Analytics	
8	1CR13MCA09	ARUN KUMAR M M	Mobile FG Warehouse Management – Outbound	Ms.Gomathi T
9	1CR13MCA10	ARUNKUMAR M G	Dream Entries	
10	1CR13MCA12	ASLAM	UNO-IN	
11	1CR13MCA13	AVINASH KUMAR MISHRA	Mobile Finished Goods Warehouse Management - Inbound	
12	1CR13MCA14	C SYAMSUNDARREDDY	Fitness Master	
13	1CR13MCA15	CHINMAY M G	Question Responder Engine	
14	1CR13MCA16	DHANANJAYA R B	Implementing Resource Management System For Vikas Group Of Construction	
15	1CR13MCA17	G LAKSHMI TEJA	Webheay School CRM	
16	1CR13MCA18	GANESH V KAREMANI	Web Application for Online Booking of Health Checkup	
17	1CR13MCA19	GAYATRI	Property Portal	
18	1CR13MCA20	GIREESH K J	Patient Emergency Management App	
19	1CR13MCA21	GOPAKUMAR V	Banking Transactions with Secure Payment	
20	1CR13MCA22	GYANANDA NONGTHOMBAM	Banking Software For Loan Operation Procedure With Raspberry PI Mini CPU	
21	1CR13MCA23	HARITA TAMMINA	Restaurant Combo-Chicken County	
22	1CR13MCA24	JAYARAJ R V	Webheay Application	Ms. Uma B
23	1CR13MCA25	JEPHY SABORE	Mercury Attendance System based on Internet of Things	
24	1CR13MCA26	JYOTI AMBI	Case Management System	
25	1CR13MCA27	K.SANTOSHKUMAR	Implementing Annotate Feature For Building Design	
26	1CR13MCA29	KISHANPRASAD	School Management	
27	1CR13MCA30	KRUSHI KUMAR B P	Automation Testing on SunGard Private Equity Application Investran-7.0	
28	1CR13MCA31	MARY JANIFHA EVANGELINE.X	Webheay Techies	
29	1CR13MCA32	MD ALI J H	Warehouse Management and Product Tracking	
30	1CR13MCA33	MEGHA P	ICASA Subscriber Verifier	

31	1CR13MCA34	MUDASSAR HASSAN	Direct Invocation Notification Service	Ms. Varsha P
32	1CR13MCA35	MYTHRA A J	Identifying Unauthorized User in Online Ranking	
33	1CR13MCA36	NAGARAJ	Development Of Private Cloud to Facilities Digital Publication	
34	1CR13MCA37	NALINI C	The Student Tracer Study	
35	1CR13MCA38	NAVEEN H P	Student Doctor Conference	
36	1CR13MCA39	NAVEENKUMAR G V	G P Restaurent	
37	1CR13MCA40	NISSAR M	SanZarniBo	
38	1CR13MCA41	POORNIMA G	Implementing NCache Storage Over The Counter Equity Trading System	
39	1CR13MCA42	POORNIMA R	Rambo-PDF	
40	1CR13MCA43	PRASANNA M S	Social Media Analysis (Twitter)	
41	1CR13MCA44	PRATIBHA	EASYLIB-Entire Automation Systems For Libraries	
42	1CR13MCA45	PRATIK KUMAR GUPTA	AVR Swarna Mahal Chit Fund Application	
43	1CR13MCA47	PREETI	Scoozy	
44	1CR13MCA48	RADHIKA B	CLOUDOS – The Next Generation Cloud Operating System	
45	1CR13MCA49	RAGHUNANDINI P G	SHOPNIX Ecommerce Website builder	
46	1CR13MCA50	RAGHUVVEER TORNAL	Business Status and Space Locator	Ms. Helen Josephine
47	1CR13MCA52	RAJESHWARI B	BookLahar-Online Book Store	
48	1CR13MCA53	RAKESH BYADGI	Bluetooth Chatting System	
49	1CR13MCA54	RANJAN G	Bluetooth Aided Remote Controls	
50	1CR13MCA55	RAVI TEJA V	Central Scheduler Illustrator with Gateways	
51	1CR13MCA56	REKHA A	Fault Progressive Payment System Allotment	
52	1CR13MCA57	SANJANA P	Placement & Training Cell	
53	1CR13MCA58	SANJAY KUMAR	Live Streaming Edited	
54	1CR13MCA59	SATHISH P	PETALS_Android	
55	1CR13MCA60	SHIVAPRAKASH D	Aggressive Capability Allocation System for Cloud	
56	1CR13MCA61	SHRINIDHI ADIGA	On Road Assist	
57	1CR13MCA62	SMITHA H N	Happy Cab Ride	



58	1CR13MCA63	SNEHA S	Talent Acquisition Using Social Media Analysis(Github)	Mr.Nagarajan S
59	1CR13MCA64	SOURABH V SAVANUR	Social Media Analysis(Instagram)	
60	1CR13MCA65	SOWMYA B V	LOKSATTA-IOS APP	
61	1CR13MCA66	SRINIVAS	Road Transport Authority	
62	1CR13MCA67	SUDHA RANI	WERPAMS-INTERVIEW MANAGEMENT	
63	1CR13MCA68	SURAJ JOSHI	Moodle Learning Management System	
64	1CR13MCA69	SURAJ SINGH Y	AI E-COMMERCE site Including M-Wallet System	
65	1CR13MCA70	TINOY JOHN	EdX Platform for LMS	
66	1CR13MCA71	TRIVENI H	PETALS IOS App	
67	1CR13MCA73	VANJARA MUKESH J	Life Saver	
68	1CR13MCA74	VARSHA C V	Price Reduction Personal Reco Engine	Ms.Neha Agrawal
69	1CR13MCA75	VARUN KUMAR	Online Ticket Booking System	
70	1CR13MCA76	VENKATA GIRI BABU V	Cip-Omr-App	
71	1CR13MCA77	VENKATESH	Research Scholar Management System	
72	1CR13MCA78	VIJAY VIKRAM S	Efficient And Secure Search On Encrypted Medical Data	
73	1CR13MCA79	VIJAYKUMAR C	Cloud Aggregation Security Software Application	
74	1CR12MCA56	NAVEEN R	Curb Obsession	
75	1CY12MCA32	SOBHNATH CHANDRAVANSHI	Nurturing Hands Mobile Application	
76	1CR12MCA23	DEEPTHI K T	Specialized Corporate Procedure Builder & Coordinator	
77	1CR12MCA27	EMIL ZOLA PHILIP	Art Exhibition Portal	

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### **Declaration by the Head of the Institution**

I certify that the data included in this Self-Evaluation Report are true to the best of my Knowledge.

This report is prepared by the institution after internal discussions, and no part thereof has been outsourced.

I am aware that the peer team will validate the information provided in this report during the peer team visit.

Place: Bangalore

Date:

Signature of the  
Head of the Institution with Seal  
Dr. Sanjay R Chitnis