

INFO-RISES

Volume 4, June-November 2019

Department of Information Science and Engineering



CMR INSTITUTE OF TECHNOLOGY

ACCREDITED WITH
A+ GRADE
BY NAAC*

*National Assessment and Accreditation Council

APPROVED BY



DEPARTMENT OF
INFORMATION SCIENCE
&
ENGINEERING



INSIDE THIS ISSUE:

CLUB ACTIVITIES	4
INDUSTRY CONNECT	5
OTHER INITIATIVES	6-8
BEST MINI PROJECTS	9
FACULTY ACHIEVEMENTS	10-16
STUDENT ACHIEVEMENTS	17-19
RESULTS & TOPPERS	20
PLACEMENTS	21

INFO-RISES 2019-20 ODD SEMESTER



Dr. Sanjay Jain
Principal

**DEPARTMENT
VISION**

“To empower our students with necessary domain knowledge and professional skills in information technology for a global career to serve the society.”



Dr. B Narasimha Murthy
Vice-Principal

DEPARTMENT MISSION

To build a faculty team with industry and academic exposure, capable of empowering and equipping students with necessary domain knowledge.

To prepare the students for a global career in computing by enriching the curriculum with a blend of theory and practice.

To develop industry relevant technical and communication skills with cross-cultural sensitivity through training programs, vibrant student clubs and student internships.

To engage with industry and institutes of repute and collaborate in academics, research and development involving faculty and students.

MESSAGE FROM HOD

Indeed it creates immense pleasure in writing this message which spreads positive vibrancy among all of us. CMR Institute of Technology conducts various activities for the benefit of students, faculty, and society. This newsletter is the epitome of the success stories of these events. These kinds of proud moments encourage the student's community to move to higher levels in Academia, Sports and other activities. We, the faculty of ISE strive to impart our best in terms of knowledge dissemination and bring out our students with a holistic personality. Our initiatives definitely mold the students such that they face the external world with prompt technical, interpersonal and problem-solving skills. I thank the faculty who are involved in this newsletter making for their real efforts. I appreciate all who did a great job of winning competitions and brought accolades to CMRIT. I wish all our students and faculty a stupendous success in upcoming activities!!!!

-Dr. M Farida Begam

HoD, Dept. of ISE



NEWLY FRAMED PEOs

PEO1: Graduates will be competent with a strong foundation in engineering, science, technology and modern tools to be successful in their career in industry.

PEO2: Graduates will be equipped with knowledge and skills required to analyze, design, implement and test software solutions for real world problems.

PEO3: Graduates will demonstrate the traits of team builders and players with strong communication and interpersonal skills.

PEO4: Graduates will be groomed to manage and lead teams by instilling innovative approach and life - long learning traits in them.

PEO5: Graduates will portray ethical and socially responsible behaviour.

CLUB ACTIVITIES

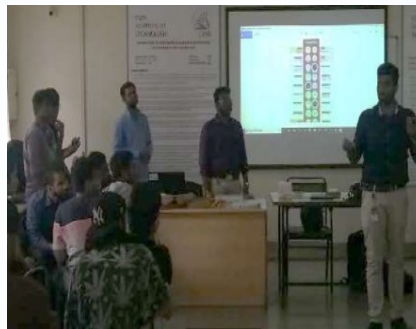


SL No	CLUB	EVENT	DATE
1	GOOGLE DSC	Cloud Career Readiness Program	03-08-2019
2	CO-DECHEF	Online Coding Competition	18-08-2019
3	GOOGLE DSC	Cloud Study Jam	19-08-2019
4	CODING NINJAS	Web Development – HTML, CSS, Bootstrap	19-08-2019
5	GOOGLE DSC	Google DSC Leads 2019 Live Viewing – ML, Android, Web, Cloud	24-08-2019
6	RISE	Web Designing using Python	28-08-2019
7	CODING NINJAS	Competitive Coding – Coding challenges and Solutions	30-08-2019
8	GLUG	Hands-on Training on GIMP	30-08-2019
9	CO-DECHEF	Hack-It-On 3.0 Summit	14-09-2019
10	CO-DECHEF	Hack-It-On 3.0	27-09-2019
11	CODING NINJAS	Cryptics	30-09-2019
12	GOOGLE DSC	Advanced Web Development with React	18-10-2019
13	CODING NINJAS	WebDev workshop 2.0	21-10-2019
14	CO-DECHEF	Codemia	10-11-2019
15	CODING NINJAS	The TRIVIA MASTER Brainstorming questionnaire activity	13-11-2019



INDUSTRY CONNECT

- ◇ Workshop on **Cyber Security and consumer awareness** by **Mr. I L Narasimha Rao**, Senior Project Manager, Cyber Peace Foundation on August 1st.
- ◇ Guest Lecture on **Analytics** by **Mr. Ganesh Madhavan**, AVP, ATOS on August 24th.
- ◇ Guest Lecture on **DevOps** by **Ms. Pusp Priya**, DevOps Architect, SAP Labs on August 24th.
- ◇ Expert Lecture on **Use cases in IOT** by **Mr. Navratan Katariya**, Director, IOT -COE Cell, NASSCOM on September 26th.
- ◇ Workshop on **Internet of Things using Raspberry Pi and Thingworx** by **Mr. Deepak**, **Mr. Bharadhan** and **Mrs. Anitha**, IOT Application Developers, CADOpt Technologies during September 23rd to 24th.



I&E CELL ACTIVITIES

Micro community platform development for business predictive analytics by **Adityatej Dhaliwal and Zoheb Ahmed**, CEO and CTO, AIMEO on August 26th.



INDUSTRY VISIT

Industry visit to **C-DAC, Bangalore** by 3rd semester students accompanied by Dr. R Chinnaiyan and Prof. Priyadharshini A on August 8th, followed by a **Seminar on IETF**.

SOCIAL ACTIVITY

Visit to **Countree side home**, Whitefield as a part of social activity and interaction by Dr. Geetha S and students across all semesters.



MOU

An MOU was established with **Enable India** under the collaboration title **Equal Opportunity** Cell from August 1st, 2019 to August 1st, 2022.

TEACHING PEDAGOGIES

Most of the 2nd and 3rd year faculty members have implemented **flipped classroom concept** and **video sessions** in their teaching.

Other pedagogies implemented include **Role Play**, **Quiz**, **Brainstorming sessions**, etc.



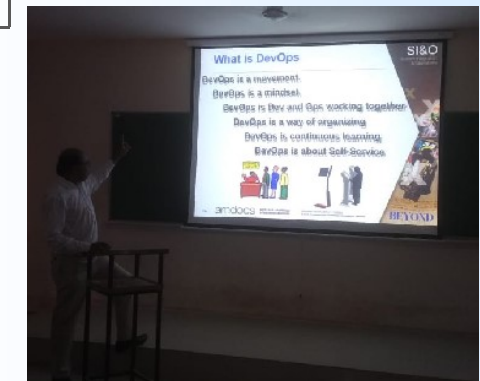
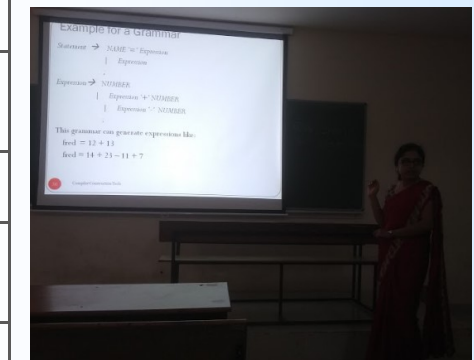
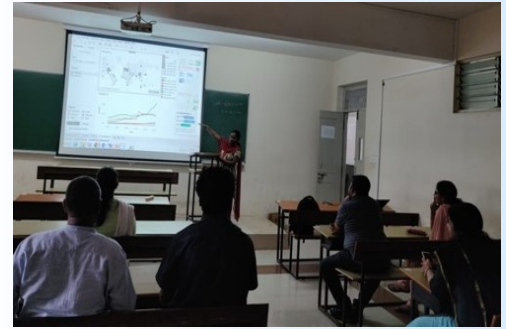
3rd SEMESTER ORIENTATION PRO- GRAMME



An Orientation Programme was conducted for the 3rd semester students as a part of welcoming them into the Department. The students were addressed by the HOD, class teachers and subject faculty as well as coordinators for different activities with respect to the B.E course and about the extracurricular and club activities that they can be a part of. The whole idea was to motivate the students to transform themselves and do better ahead.

FACULTY TECH TALK

Faculty members in the department have given a tech-talk on latest trends, software tools and research focused topics related to ISE.



SL	FACULTY	TOPIC
1	Ms. Priyadharshini A	Chatbot
2	Ms. Sheetal R	Data Visualization
3	Mrs. Shilpa Pande	Data Pre-processing
4	Mrs. Vaishali Deshmukh	Big Data Analytics—Map Reduce Programming
5	Mrs. Vidya U	Circuits in Tinkercad
6	Mrs. Anu Jose	Compiler Construction Tools
7	Dr. Shankar Ramamoorthy	Agile vs DevOps

MOOC



17 Faculty members have completed their MOOC.



227 students have completed their MOOC courses.

BEST MINI PROJECTS

3RD SEM

1st Prize



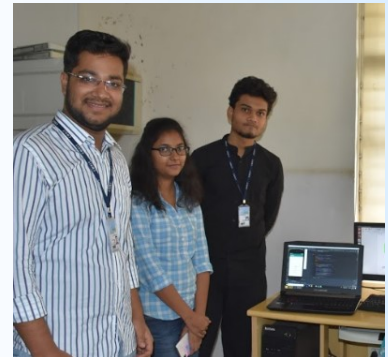
Animation of Array Operation—Teaching Tool

2nd Prize



Linear Algebra for Traffic Flow

3rd Prize



Quiz App

Students of 3rd semester and 5th semester ISE have taken up mini projects relevant to their semester subjects as well as real world problems.

5TH SEM

1st Prize



Predicting Sentiment of a Brand

2nd Prize



Book Management System

3rd Prize



RF Machine Controller

FACULTY PUBLICATIONS

- * [Dr. R Chinnaiyan](#) has published a paper titled “**Reliable Constrained Application Protocol to Sense and Avoid attacks in WSN for IoT Devices**” in IEEEExplore during July 2019.
- * [Dr. R Chinnaiyan](#) has published a paper titled “**Reliable Machine Learning Approach to Predict Patient Satisfaction for Optimal Decision Making and Quality Health Care**” in IEEEExplore during July 2019.
- * [Prof. Savitha Hiremath](#) has published a paper titled “**Semi-supervised domain adaptation and collaborative deep learning for dual sentiment analysis**” in Springer nature during July 2019.
- * [Prof. Swathi Y’s](#) paper titled “**Smart Home automation using IOT**” published by Springer Lecture Notes in Networks and Systems was accepted in the 4th International Conference on Inventive Computation Technologies (ICICT-2019) during July 2019.
- * [Dr. Joshua Samuel Raj’s](#) paper titled “**Road accident Data analytics using map-reduce concept**” by Blue Eyes Intelligence Engineering & Sciences Publication was published in the International Journal of Innovative Technology and Exploring Engineering during September 2019.
- * [Prof. Prasad B S](#) and [Prof. Akhilaa](#) jointly published a paper titled “**Supervised Machine Learning Algorithms for Early Stage Detection of Alzheimer's Disease**” under Blue Eyes Intelligence Engineering and Science Publication in the International Journal of Recent Technology and Engineering during September 2019.
- * [Prof. Akhilaa](#) published a paper titled “**Customer Aware Recommender System (CUARS) For Push Notifications in an E-commerce**” in the Global Conference for Advancement in Technology during October 2019.
- * [Dr. Joshua Samuel Raj](#) published a paper titled “**Application of Discrete Transforms with Selective Coefficients for Blind Image Watermarking**” under Wiley Publications during October 2019.
- * [Dr. Shahina Parveen’s](#) paper titled “**NFDDC: Novel Neuro-Fuzzy Logic based Methodology for Distributed Data Classification**” was published in the International Journal of Recent Technology and Engineering under Blue Eyes Intelligence Engineering and Science Publication during November 2019.
- * [Prof. Bineet Kumar Jha](#) published a book titled “**Introduction and Programming SQLite**” by Amazon KDP in November 2019.

PATENTS

SL No.	FACULTY INVOLVED	PATENT TITLE	MONTH OF SUBMISSION
1	Dr. Joshua Samuel Raj	Garbage waste monitoring and collection system with reduced human intervention	July 2019
2	Dr. Shahina Parveen	System and method to secure monetary transactions using Block-chain technology	September 2019
3	Dr. Joshua Samuel Raj	IOT based smart water contamination detection	September 2019
4	Dr. Shahina Parveen, Dr. M. Farida Begam	Neuro-Fuzzy logic based system for distributed data	November 2019
5	Dr. Joshua Samuel Raj, Dr. S Saravanan	Sensor based irrigation system facilitated by inter-	November 2019
6	Dr. Joshua Samuel Raj, Dr. S Saravanan	Internet of things based smart grid systems for	November 2019

SPONSORED RESEARCH PROJECTS

SL NO	FACULTY	FUNDING AGENCY	PROJECT TITLE	GRANT RECEIVED	MONTH
1	Dr. R Chin-naiyan	AICTE	IOT	Rs. 50000	June 2019
2	Prof. Swathi Y	VTU TEQIP	Outcome Based Education and NBA Accreditation Training Program	Rs. 300000	November 2019

FACULTY AWARDS



SL NO.	FACULTY	CATEGORY OF AWARD
1	Dr. M Farida Begam, Prof. Prasad B S	Leadership
2	Dr. R Chinnaiyan	Common Org Events - Faculty for significant contribution and leadership for initiatives
3	Prof. Swathi Y	IQAC Process and Compliance - Faculty for significant contribution and leadership
4	Dr. Deepa Anand, Prof. Sheetal R	Median Salary - Faculty who provided significant support to achieve the target
5	Prof. Sudhakar K N, Prof. Shilpa Mangesh Pande	Learning Experience - Faculty with most effective videos and e-resources utilization
6	Prof. Anand R	Dept Mega Project - Faculty members for significant contribution and leadership
7	Prof. Vidya U	University Ranks - Subject teachers who put special effort
8	Prof. Priyadharshini A	Learning Experience - Faculty with most effective Flip classroom implementation
9	Prof. Anu Jose	Mini Projects - Faculty for significant support and guidance
10	Prof. Akhilaa	TYL Training - Faculty putting special efforts for providing training
11	Prof. Dhanya Viswanath	Graduation in minimum time period - Mentor of student in probable ineligible list
12	Prof. Anu Jose	Faculty achieving >95% results in even semester & >90% feedback in current semester



FACULTY ACHIEVEMENTS

- * Dr. M Farida Begam and Dr. Shankar Ramamoorthy served as Jury in the Software Testing Conference (STC) 2019 during September 2019.
- * Dr. Geetha S served as Chairperson in the Conference on Power Electronics with IOT at Nagarjuna College of Engineering and Technology during October 2019.
- * Prof. Savitha Hiremath served as Reviewer in the IEEE Fifteenth International Conference on Information Processing (ICInPro) – 2019 during November 2019.



Ph. D STATUS UPDATES

- * [Prof. Sudhakar K N](#) has submitted his thesis on Load Balancing in Self Organised Wireless Sensor Networks in VTU.
- * [Prof. Anand R](#) has submitted his thesis on Bandwidth Aware Queue Management and packet scheduling schemes for QoS in MANETS in VTU.
- * [Prof. Savitha Hiremath](#) has completed coursework and submitted her thesis in Bangalore University in the field of Data Mining.
- * [Prof. Geetha S](#) has completed her Ph. D and was awarded the Doctorate Degree in the research field of wireless sensor networks by Kalasalingam University.

INDUSTRY CONNECT ACTIVITIES ATTENDED BY FACULTY

SL NO.	FACULTY	EVENT	VENUE
1	Prof. Prasad B S	Mathwork Webinar on Data Science with	Webinar
2	Prof. Prasad B S, Prof. Vidya U, Prof. Akhilaa, Prof. Dhanya Viswanath	Workshop on Research Review Article Writing & Training	Workshop at CMRIT
3	Prof. Vidya U	Mathwork Webinar on Sensor Fusion and Tracking for Automated Driving	Webinar
4	Prof. Swathi Y	Educational World India private Higher Educational Rankings 2019-20	Educational World, Taj Bangalore
5	Prof. Akhilaa	FDP on Frontiers in Machine Learning and Soft Computing	Reva University
6	Prof. Sudhakar K N, Prof. Swathi Y	FDP on Role of Blockchain and Artificial Intelligence in Applica-	Ramaiah Institute of Technology
7	Dr. Joshua Samuel Raj	Workshop on IPR	IISC, Bangalore
8	Prof. Priyadharshini A	Online Webinar on Gamification in the	Webinar
9	Dr. Shankar Ramamoorthy	Next Gen Testing Awards	Le Meredian, Bengaluru
10	Dr. Shankar Ramamoorthy	UI/IUX Conference	Hyatt centric, MG Road

11	Dr. Shankar Ramamoorthy	National HR & LD Conference	Hyatt centric, MG Road
12	Prof. Anu Jose	Online Webinar on Fostering Social-Emotional Learning Through Text-	Webinar
13	Prof. Vidya U	Webinar on Deep Learning with Raspberry Pi and MATLAB	Webinar
14	Dr. Joshua Samuel Raj, Dr. S Saravanan, Dr. Shahina Parveen, Dr. Geetha S, Prof. Priyadharshini A, Prof. Anu Jose	Design Patent workshop	CMRIT
15	Dr. Geetha S	Webinar on Automated operations across a unified hybrid cloud	Webinar
16	Dr. Geetha S	Financial Literacy Workshop	CMRIT
17	Dr. Geetha S, Prof. Priyadharshini A	Webinar on Reimagine Cloud for better business outcomes	Webinar
18	Dr. Shankar Ramamoorthy, Prof. Priyadharshini A	Summit on Cyber Security	The Chancery Pavilion
19	Dr. S Saravanan	Guest Lecture on Use cases in IOT	CMRIT
20	Dr. S Saravanan	Expert Lecture on Learn Arduino using simple drag and drop blocks	Udemy

21	Dr. S Saravanan	Expert Lecture on Arduino programming and simulation without coding online	Udemy
22	Prof. Akhilaa	Faculty Summit—Google Cloud Readiness Program	Google
23	Dr. Shahina Parveen, Prof. Bineet Kumar Jha, Prof. Savitha Hiremath	Workshop on Investment Planning: Capital Market and Risk Toler-	CMRIT
24	Dr. Shahina Parveen	Workshop on Stress Management	CMRIT
25	Prof. Prasad B S, Prof. Akhilaa	AICTE_ATAL One week FDP on Artificial Intelligence	UVCE, Bengaluru
26	Dr. Shankar Ramamoorthy	Conference on Blockchain	Chancery Hotel, Lavelle Road, Bengaluru
27	Dr. Joshua Samuel Raj, Dr. S Saravanan, Dr. Shahina Parveen, Prof. Bineet Kumar Jha, Prof. Shilpa Pande, Prof. Dhanya Viswanath	FDP on Significance of IPR and Innovations with special focus on prior art search for Engineering	CMRIT
28	Dr. Geetha S	Red Hat Forum/Panel discussion	Taj, Yeswenthapur
29	Dr. Joshua Samuel Raj	Workshop on IOT	UVCE
30	Dr. Joshua Samuel Raj	Enable India Session on Entrepreneurial Projects	Samarthanam Trust

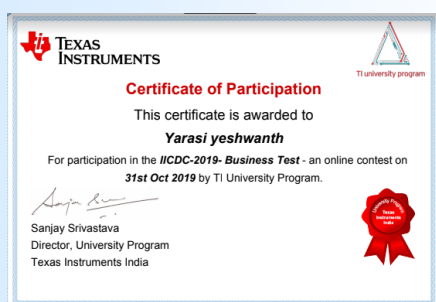
STUDENT ACHIEVEMENTS

SL NO.	STUDENT	EVENT
1	Siri H A	Academic Topper in 3rd semester— Inauguration day 2019
2	Rohan Raj	Chosen as Microsoft Student Partner by Microsoft
3	Ayush Dubey	1st Prize in FEEE club activity and 2nd Prize in Debate by Innovation club
4	Muskan Gupta, Manyam Tejashwini, Khushi Gan- gopadhyay	1st Prize in Technovation
5	Rohan Raj	Organized a one-day event on AI and Cloud Computing in RVCE Bangalore
6	Jessica Srivastava	Miss Cultura (Greatest Showman)
7	Namitha K P	1st Prize in Hockey Tournament
8	Rakesh B Seervi, Kanha- ya Kumar Yadav	2nd Prize in DMS Quiz by Maths De- partment
9	Jessica Srivastava	Semi-finalist in Logo Quiz 2019
10	Tarang Sinha, Reena T G	Workshop on IoT using Raspberry and Thingworx at CMRIT
11	Shreya S, Siri H A, S N Anisha, Sumithra V, Vedant Barbhaya, Viraj Patel, Vishal Kunder, Monisha P	Workshop on Big Data at CMRIT



STUDENT PARTICIPATION IN INDUSTRY CONNECT ACTIVITIES

SL NO.	STUDENT	EVENT
1	Hari Pranav	1. Conference on Block-chain at Chancery Hotel, Lavelle Road, Bengaluru 2. Fifth Elephant - Workshop Conference 3. JS Foo Conference
2	Hari Pranav, Gokul J S, Alen Jacob Mathews	EthIndia 2.0 Conference & Workshop
3	Habiba Ahmed	VTU Bengaluru Zone Chess Tournament
4	Jessica Srivastava	1. National level 24 hr social hackathon volunteer 2. Workshop on Competitive Programming by Navdeep Sandhu 3. GI workshop
5	Yarasi Yeshwanth	1. DST and Texas Instruments in India Innovation Challenge Design Contest 2019 at AICTE 2. Regional Mentoring Session for Proof of Concept (PoC) at MHRD's Innovation Cell Amrita School of Engineering, Bangalore 3. Design Patent Workshop at CMRIT
6	Technoxian	Technoxian, Thyagaraj stadium, Delhi
7	S N Anisha	Design Patent Workshop



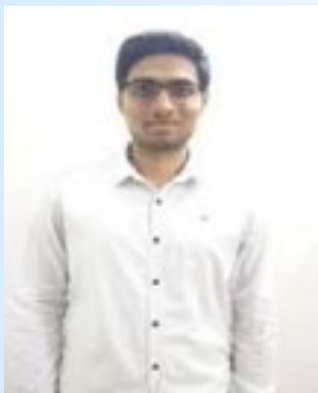
8	Tarang Sinha, Reena T G, Siri H A, Shreya S, Sonakshi Priya, Gaurav G S, Gautam Narendra Nayak, Gautam A Nagendran, Prachi Singh	Workshop on IoT using Raspberry Pi and Thingworx
9	Bharanidharan K, Bibi Ayesha S, Habiba Ahmed, Haricharan Hegde, Disha K, Gaurav Tiwari, Ejaz Ahmed C, Brinda V, Deeksha S, Guru Prasad R, Hari Pranav A, Gokul J S, Harshdeep Singh, Monisha P, Sumithra V, Vishal Kundar, Vedant Barbhaya, Viraj Patel, Alen Jacob Mathews, A D Jeevitha, Abhishek R, Ann Mary Joseph, Adithya G S	Workshop on Big Data, CMRIT
10	Gouthami T R, Harshitha M, Jessica Srivastava, Ragam Vaibhav Sairam, Shrish Saxena	Technovation
11	Nisha Panduranga Shetty	Hackathon, CMRIT
12	Siddharth Kumar Satpathy, Umar Farouque, Varun C Acharya	Hack-It-On 3.0
13	Sooraj Kumar Singh	Basketball Tournament, Christ, BMS, CMRIT



RESULTS—EVEN SEMESTER

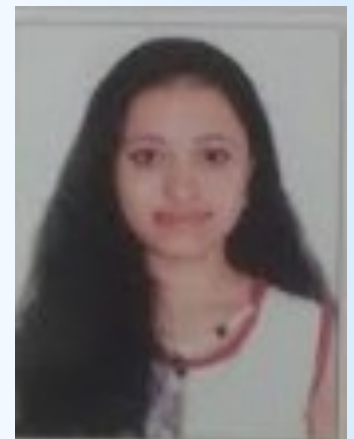
SEMESTER	RESULT PERCENTAGE
4 TH	75.7%
6 TH	86.07%
8 TH	100%

ACADEMIC TOPPERS



Dhruv Vatsa Mishra

1CR15IS025
91% - 8th Sem



Chaithanya M

1CR16IS026
86.25% - 6th Sem



Shreya S

1CR17IS086
85.53% - 4th Sem



Ragam Vaibhav
Sairam

1CR18IS112
89.88% - 2nd Sem

PLACEMENTS

COMPANY IN WHICH PLACED	STUDENT COUNT	PACKAGE
DELOITTE	3	7.6 LPA
MSCRIPTS	2	7.15 LPA
EUROFINS	3	7 LPA
FOKAL	1	6 LPA
CHAINALYTICS	1	5.5 LPA
ELLUCIAN	2	5.5 LPA
CRMIT	1	5 LPA
EPSILON	2	5 LPA
LTI	11	5 LPA
SURYA SOFTWARE	3	5 LPA
GLOBAL LOGIC	4	4.8 LPA
IBM	3	4.5 LPA
VALUELABS	2	4 LPA
ITC	9	3.75 LPA
INFOGAIN	5	3.5 LPA
TCS	4	3.36 LPA

Deloitte.

mscripts

 **eurofins**

 **chainalytics**

 **ellucian.**

CRM IT
Customer Success Partner

EPSILON

LTI

Surya
Software

GlobalLogic



 **infogain**
Engineering Business Outcomes

Value Labs
inspired by potential




TATA CONSULTANCY SERVICES