CMR INSTITUTE OF TECHNOLOGY

JNANADHARA

2016










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JNANADHARA TRUST

-THE BIRTH AND JOURNEY

Sri Chikka Muniyappa Reddy, Founder

"EDUCATION REFORMS SOCIETY"

The CMR Jnanadhara Trust was established in 1990 as a tribute to the late Sri Chikka Muniyappa Reddy, a visionary educationalist and philanthropist who believed that every individual deserves access to quality education. In accordance with his vision, the CMR educational institutes were founded to give every student a chance to experience outstanding, value-based and well-rounded education. The CMR Jnanadhara Trust supports and manages all the activities of the CMR Group of Institutions.

PRESTIGIOUS INSTITUTIONS GOVERNED BY THE TRUST:

- CMR UNIVERSITY
- CMR NATIONAL PUBLIC SCHOOL
- CMR INSTITUTE OF MANAGEMENT STUDIES
- CMR NATIONAL PU COLLEGE
- CMR INSTITUTE OF TECHNOLOGY
- CMR LAW SCHOOL
- CMR HIGH SCHOOL
- CMR CENTER FOR BUSINESS STUDIES
- EKYA SCHOOL, J.P. NAGAR
- EKYA SCHOOL, ITPL
- EKYA SCHOOL, BTM LAYOUT
- EKYA SCHOOL, KANAKPURA ROAD
- CMR LIFE SKILLS INSTITUTE

EKYA SCHOOL, ITPL

CMR INSTITUTE OF MANAGEMENT STUDIES

CMR INSTITUTE OF TECHNOLOGY

CMR IDENTITY

The CMR logo is rooted in Indian tradition, yet rendered in the contemporary form of the Hansa - the swan. The swan is the carrier of Goddess Saraswathi – the Goddess of Learning. It is said that the swan with its sensitive beak has the power of discrimination – an ability to distinguish pure milk from a mixture of milk and water. The wings of the Swan rendered in the alternating flowing lines of blue and white represent the metaphor of milk and water. The blue stands for clarity of purpose and the white for purity of vision. The overall form of the logo radiates and sparkles in the calm, self-contained posture of the swan gliding over water.

VISION

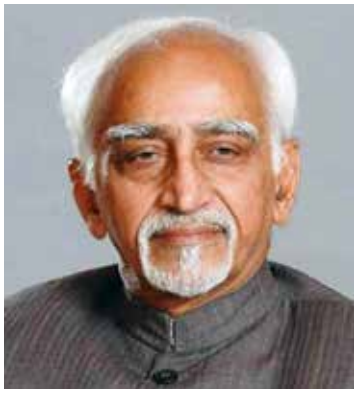
CMR Institute of Technology is to be recognised as a premier institute in the state for technical education that fosters centers of excellence in training, research and consultancy.

MISSION

- Strive to create value in its offerings by including depth and intensity in its management education standards.
- Provide excellent infrastructural facilities to aid delivery of coursework and create an environment conducive to learning and harmony.
- Produce ethical, creative and dedicated business leaders who will add value to an organisation.
- Create avenues for personal, intellectual and professional growth.
- Partner with industries and the government to provide educational, technical and cultural support to the workplace.

MESSAGES FROM THE ELITE

THE VICE PRESIDENT OF INDIA



भारत के उप-राष्ट्रपति के विशेष कार्य अधिकारी
OFFICER ON SPECIAL DUTY
TO THE VICE-PRESIDENT OF INDIA
नई दिल्ली/NEW DELHI - 110011
TEL.: 23016422 / 23016344 FAX : 23012645

The Honourable Vice President of India is happy to learn that CMR Institute of Technology (CMRIT), Bangalore is publishing its College Magazine 'Jnanadhara 2016'.

The Vice President extends his greetings and congratulations to the students, teachers and staff, and wishes the publication success.

(Anshuman Gaur)

CHAIRMAN & MANAGING DIRECTOR, HAL

I am pleased to know that CMR Institute of Technology is bringing out a special magazine "Jnanadhara 2016" as part of its Graduation Day celebrations. It is heartening to note that the Institute has been playing an important role in fulfilling skill-set requirements of India in the field of Engineering, Management and Information Technology by preparing the students to be the leaders of tomorrow.

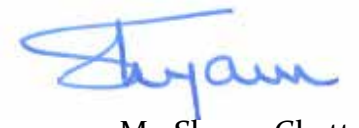
On this special occasion, I invite the students to think beyond and apply the knowledge they gain for the benefit of the nation. Our youngsters are the agents of change and the movers of technology. Considering that the country needs extensive expertise in key disciplines, I strongly believe that with heightened sense of responsibility, the young generation will play a critical role in the nation building.

I wish the Institute and all the participants the very best and trust that this magazine will serve as a platform for exchange of ideas and lead to innovative outcomes in the future.

(T. SUVARNA RAJU)

DIRECTOR, CSIR-NAL

The coming decades hold the promise of revolutionary developments in science and technology that will contribute to economic growth, national security and the quality of life. Success will require investing in human capital and research infrastructure, establishing partnerships across disciplines and institutions, integrating industry, research and education, and more importantly, maintaining excellence with relevance. According to the latest reports from research agencies, there are at least 12 emerging technologies which include Internet of Things, Cloud Computing, Advanced Robotics, Next Generation Genomics, Autonomous Vehicles, Advanced Manufacturing and Materials etc. which will result in massive economic transformations and disruptions in the coming years. It is also estimated that together, application of these 12 technologies could have a potential impact between $14 trillion and $33 trillion a year by 2025. Considering the importance of such technological developments, I am happy to know that CMRIT is releasing a college magazine, Jnanadhara 2016, on the Graduation Day. This is an ideal platform to display institutional talent and disseminate much needed information contributing to the development of the Society. I take this opportunity to wish the Institute and students all the success in their future endeavours



Mr. Shyam Chetty

VICE CHANCELLOR, VTU

It is a matter of great pleasure that CMR Institute of Technology, Bengaluru is bringing together their college magazine, Jnanadhara 2016. The college magazine is a reflection of the literary skill of the students and staff. It is a great way of recording the events conducted during a given academic year. Today there is widespread knowledge everywhere with newer technologies, skills and emerging avenues. The horizons of professional activities are expanding and hence today there is much more scope for the younger generations to uncap their talents and touch greater heights of achievement. At the same time, you must realize that there are many challenges in the emerging situation. Since the educational situation in our country has become quite dynamic and competitive, we have to be ready and equipped with the required abilities and capacities to conquer these newer fields of knowledge and master newer techniques and skills. I wish the institution all the best for achieving greater success and scaling newer heights.

Dr. H.G. Shekharappa

Jnanadhara is a platform for the students and faculty of CMRIT to showcase their creativity and imagination. I applaud the efforts made by all contributors to create this wonderful magazine, and express my gratitude to the magazine team for all their hard work and sincere efforts.

-Shri KC Ramamurthy
Chairman,
Jnanadhara Trust

The 12th edition of CMRIT's annual magazine, Jnanadhara, successfully demonstrates the passion and dedication of the students and faculty. Congratulations to the magazine team for portraying all aspects of art, photography, technology, literature with the finesse and quality Jnanadhara has become a hallmark for.

-Dr. Sabita Ramamurthy
President,
Jnanadhara Trust

In the fast paced world of technology, bridging the gap between industry and academics is a challenging task. CMRIT not only focuses on training the students to face these challenges, adapt and create great technology, but also on getting them to be all rounders, so that they emerge to be the next generation of leaders. Jnanadhara shows how the students effortlessly balance academia and extracurriculars. Kudos to the magazine team for their wonderful work.

-Mrs. Shreya Jayadeep
Director , HR & Finance,
Jnanadhara Trust

The launch of MakerSpace and an Incubation Centre in 2016 are the highlights of CMRIT's constant endeavor to provide the very best for our students. We strive to create some of the best leaders, ready to solve real world problems using the culture of creativity and innovation we foster at CMRIT. I congratulate the students on the publication of the latest edition of Jnanadhara.

-Shri K.R. Jayadeep
CEO,
Jnanadhara Trust

Jnanadhara 2016 showcases the immense passion, talent and dedication of the students and faculty of CMRIT. The various achievements in curricular and cocurricular activities are a testament to the quality of students CMR produces. It gives me great pleasure to present the latest edition of the college magazine, Jnanadhara. I congratulate the editorial team, faculty, trustees and all other contributors on this occasion of success.

-Dr. Sanjay Chitnis
Principal,
CMRIT

I am immensely pleased to present the latest edition of Jnanadhara, an illustration of the journey undertaken by CMRIT in the year gone by. It testifies the talents and achievements of the students and faculty. My congratulations to everyone involved in creating the magazine.

-Dr. Bhaskar Reddy
Director,
Jnanadhara Trust

In the 16 years of our existence, CMRIT has produced some of the most successful engineers, innovators, academicians, leaders and entrepreneurs. The caliber of our students and faculty is reflected in this 12th issue of Jnanadhara. I hope the excitement about the work of our students and faculty in this edition of Jnanadhara, will be shared by all.

-Dr. B. Narasimha Murty
Vice Principal,
CMRIT

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VIBHAG

Master of Business Administration

Established in the year 2002, the department of MBA functions with an annual intake of 120 students. The number of University rank holders has seen a steady rise since its inception. The department focuses on training programs besides regular teaching. With a well stocked library that subscribes to international and national journals, the course offers the students adequate facilities to expand their horizons in their field of learning.

Master of Computer Applications

Started in the year 2002, the department of MCA functions with an annual intake of 120 students. The department was accredited by the NBA in the year 2010. The course is supported by well equipped laboratories. The thrust areas of the department are Application Design, System Modulation and Simulation.

Computer Science & Engineering

The department of Computer Science & Engineering, established in the year 2000, offers undergraduate & postgraduate programmes in Computer Networks & Engineering, and Computer Science & Engineering. The department has chapters of professional bodies like FSMK, CSI & ISTF, and hosts co-curricular activities to expand the horizons of learning, conducted by the 'Association of Computer Engineers' (ACE). The department exposes students to the industry through corporate partnerships with TCS, IBM and Infosys. The thrust areas of the department are ADA, Database & Network Applications and Computer graphics.

Telecommunication Engineering

The department of Telecommunication Engineering is a distinct unit within CMRIT. Inaugurated in the year 2000, the course has been accredited by the NBA, New Delhi. Along with its undergraduate programme, it offers a postgraduate programme in Digital Communication and Engineering. The department has student chapters of IETE and ISTE. Regular sessions that aim at interaction with the industry are conducted by the student forum, TEC. The department offers elective courses in accordance with recent trends in the field. Such courses are supported by well equipped laboratories. The thrust areas of the department are Image Processing and MEMS to name a few.

Electronics & Communication Engineering

The department of Electronics & Communication Engineering was established in the year 2000. The department offers undergraduate and postgraduate programmes in Digital Electronics & VLSI. The department, apart from regular teaching, also focuses on research projects and training programmes.

Various co-curricular activities are conducted by the student forum, 'Electronics & Technical Association', and are provided platforms such as the Advanced RSIC Machines lab to enable research on high end DSP processing. The thrust areas of the department are Digital Signal Processing & VLSI.

Electrical & Electronics Engineering

Established in the year 2000, the department of Electrical & Electronics Engineering has a Research Centre under the VTU, to facilitate research and development activities for both faculty and students. Various activities are organized by the student forum, 'Forum of EEE' for the benefit of students. The department assists students in receiving internship and project opportunities in reputed companies like Schneider, Siemens, ISRO and Bosch. The thrust areas of the department are Power Electronics, Control Systems and Electrical Machine Design.

Information Science & Engineering

The department of Information Science & Engineering, established in the year 2000, has student chapters of professional bodies like FSMK, CSI & Moziety(Mozilla Firefox Club). Co-curricular activities are organised by the student association 'Representatives of Information Science Engineers'(RISE). The department focuses on bridging students to the industry through partnership programmes with TCS, IBM & Infosys. The thrust areas of the department are ADA, DBMS & OS.

Mechanical Engineering

Inaugurated in the year 2009, the department of Mechanical Engineering has an annual intake of 120 students. In addition to the undergraduate programme, the department also offers a postgraduate course in Machine Design. The department aims to provide every student with adequate training required for the industry. Numerous seminars, conferences, extra and cocurricular activities are organized by the student association, 'Society of Mechanical Engineers'. The department has well equipped AV halls and laboratories to support the course. The thrust areas of the department are CAD, CAED, Mechatronics, Thermal Engineering and Automation to name a few.

Civil Engineering

Established in the year 2011, the department of Civil Engineering is committed to research and development and has an annual intake of 120 students. Through well equipped laboratories and workshops, the department aims to ensure academic growth along with special emphasis on planning, design and supervision of constructional facilities that cater to modern life. The thrust areas include Estimation and Valuation, Pavement Design, Advance Concrete Technology and Hydraulics.

Basic Science & Humanities

The Basic Science & Humanities department offers courses in Physics, Chemistry & Mathematics. Each department organises guest lectures, seminars and training programmes with prestigious institutions such as Indian Institute of Astrophysics, Department of Chemistry- Bangalore University and National Innovation Foundation. The involvement of the illustrious and competent staff in research areas such as Nanotechnology, Solar Radio Physics, Graph Theory and so on, helps students cultivate aptitude and drive.

CMR University School of Architecture

The CMR University School of Architecture is established with a vision to become one of the country's leading architecture schools. The School currently offers a 5-year (ten semester) B Arch programme. The School's all-star faculty team brings decades of experience at the highest levels of the profession. CMRU has drawn leaders in the field of architectural education to form the core team of faculty. Leading architects from India and abroad comprise the visiting faculty, who give students an insight into the trends and requirements of the real world within the academic framework. The course work emphasizes hands-on learning and skill development in studio, lab and workshop environments in-line with the demands of the market and international Universities.

Office Staff & Support Staff

The administrative and office staff serves as the backbone for any organisation. With several staff providing smooth running of operations with the help of computer technology and quick wit, they serve as a good interface while helping out students and faculty alike.The Field Staff of CMR Institute of Technology comprises not only of the Security Staff but also the Maintenance Staff. Since the inception of the college, this core group has worked seamlessly to maintain the aesthetic appeal of the college. Working tirelessly in the background, they are the backbone of the college's day-to-day functioning.

UDHYAM

Career Guidance & Placement Bureau

Placement Report

The 2016 graduating batch, students saw more opportunities and increase in number of placements in comparison to the 2015 graduating batch. Our placement season started in August 2015, and continues till date. Opportunities included on-campus, pool campus and off-campus drives. Visiting companies included ITeS, product based, financial Institutions/Banks, consultancy and startups. This year saw new logo additions and opportunities for our vibrant UG and PG students (Example: AIG, Amazon Webservices, Societe Generale, HDFC, Decathlon).

This batch saw diversity in profiles offered, comprising Business Analytics, Technology Consulting, Business Development, Risk Analysis, Corporate HR, B2C marketing, Supply Chain Management, Manufacturing and ITeS space(Mobility, Social Media, Analytics and Cloud computing). Average salary offered this season was Rs 3.76 Lacs PA (Highest Rs 15 Lacs PA., and minimum Rs 2.2 Lacs PA).

Hiring trend was unique:

- UG streams - niche based hiring by companies, competition based, coding contest/hackathon and platform hiring.
- PG streams – Technology based hiring across Banks, startups and ITeS based organizations.

Placement Coordinators

Sarfaraz Nawaz Khan H,
HR - TAG,
Campus Recruitment,
Tata Consultancy Services

"Students from CMRIT come with loads of passion and dedication towards work. Their performance has been stupendous in TCS. They are found to be good during the course of ILP and post ILP as well.

Students' performance and contribution on campus commune is found to be reasonably good. We look forward to hire talented young professionals from CMRIT year after year and wish to continue a very healthy and friendly relationship every year."

Below points provide the general feedback from companies on the current batch and expectations from the next batch:

- Fundamental knowledge of subjects studied during their course.
- Ability to talk effectively about their projects/mini projects/hobby projects. In depth knowledge and articulation was the key focus area during interviews.
- Communication skills: both written and oral .
- Other focus areas in interview evaluation included:
    1. Problem solving, logical reasoning and analytical skills.
    2. Attitude, willingness to learn, adaptability and behavior.
- Go beyond academic syllabus - Information about industry trends in their stream.

Differentiators from Career Guidance and Placement Bureau for the placement season included:

- PREPARE program to provide the soft skills training and technical training to pre-final year undergraduate and post graduate students
- Company specific training
- Company and department specific Mock Tests
- Mini projects for undergraduate students to help students prepare for the final projects and their placement process
- Scholarship opportunities(Ex: GRE, TOEFEL) from third party consultants for students opting for higher studies overseas
- Launch of Incubation Centre to help, mentor and coach students keen on pursuing Entrepreneurship
- Internship opportunities in companies and third party platform teams
- Edifying talk session from industry representatives to address students

Partial list of companies who visited CMRIT

- Deloitte
- SAP LABS
- TCS
- Indian Navy
- L&T Infotech
- Sony
- IBM - GTS
- Asian Paints
- Maventic Solutions
- Analytics Quotient
- TE Connectivity
- DeltaX
- Good Through
- Aptean
- Fractal Analytics
- IBM - GBS & GBS
- Trianz
- Mindtree
- Just Dial Ltd
- CloudThat Technologies
- Ericsson
- Anora Labs
- Manhattan Associates
- Microland
- Nokia Solution & Networks
- AIG
- ACT
- Decathlon
- Berger Paints
- Neudesic
- Capgemini
- Wipro Technologies
- Epsilon
- Societe Generale Global Solution
- HDFC Bank
- Huawei Technologies
- HP Enterprise
- Brigade Group
- Continental Automotive Components
- AMAZON
- Ellucian
- XL Dynamics
- Kyrah Technologies
- Dell
- Cease Fire
- HealthifyMe Wellness Products & Services Pvt Ltd
- HP Incorporation.
- Cognizant
- SAN Engineering and Locomotives Pvt. Ltd.
- Bajaj Corporation
- Winjit
- Robert Bosch
- CareerNet Consulting
- ICICI Securities
- HSBC
- Amazon Web Services

PLACED STUDENTS-2016 BATCH

DELOITTE, SAP LABS, SONY, TE CONNECTIVITY, ANALYTICS QUOTIENT & MAVENTRIC SOLUTION

L&T INFOTECH

IBM

MICROLAND, ERICSSON, NEUDESIC, CLOUDTHAT TECHNOLOGIES, HUAWEI TECHNOLOGIES & ELLUCIAN

TCS

HP INC &
HP ENTERPRISES

MANHATTAN ASSOCIATES , WIPRO TECHNOLOGIES, BRIGADE GROUP, CONTINENTAL AUTOMOTIVES, AMAZON, NOKIA NETWORKS, KYRAH TECHNOLOGIES, DELL, CEASE FIR , CTS, ANORA LABS, NOKIA SOLUTIONS, SAN ENGINEERING, BAJAJ CORPORATION, WINJIT, ROBERT BOSCH & HEALTHIFYME

JUSTDIAL, HDFC BANK, BAJAJ CORPORATION, CAREER NET CONSULTING & ICICI SECURITIES

TRIANZ, JUSTDIAL, MINDTREE, FRACTAL ANALYTICS, DELTA X, WIPRO & CAPGEMINI

AIG ANALYTICS AND SERVICES PVT. LTD.

ANVESHAN

LIGHT WEIGHT MECHANICAL BIRD

Micro air vehicles (MAV) propelled by flapping wings are gaining interest for certain applications because flapping can provide more agility and maneuverability at low speeds. A four-wing miniature aerial vehicle was designed by a student group of CMRIT from the Department of Mechanical Engineering, with a wingspan of 28cm, total length of 175 cm, weight of 14g, and a tail rotor. The vehicle is controlled by a RC flight controller.
The weight factor plays an important role on wing loading and is as low as possible. The prototype that was manufactured and assembled went through several tests and achieved commendable flight. The flapping MAV demonstrated the ability to perform acrobatic moves, such as dashing, rapid turning, take off and landing, looping and hovering. It has successfully achieved outdoor flight with a gust wind of 5 mph.

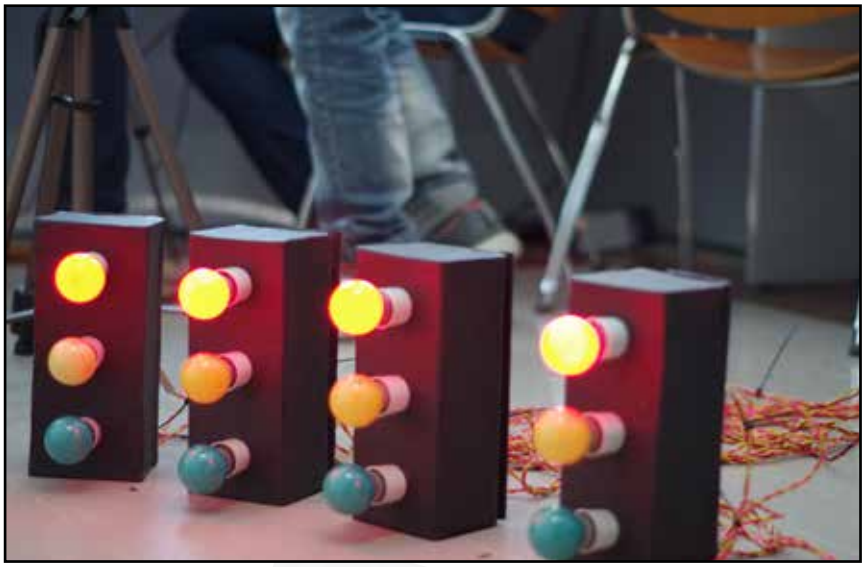
The flapping wing unmanned micro air vehicles have a wide range of applications in military, surveillance, search and rescue, etc. However, the development of flapping wing MAV has been lagging due to the complexity of the design and the unsteady aerodynamic forces of flapping wings. Few other such vehicles were designed like the Microbat and Delfly. Flapping wing aerial vehicles have substantial advantages over traditional vehicles: low noise signature, high efficiency at smaller scales, low Reynolds's number, survivable and robust.

Usually MAVs can be categorised into: Ornithopter (bird-like flapping) and Entomopters (insect-like flapping). An ornithopter is capable of only flying forward where as the entomopters is able to fly forward and hover as well. The group has developed an MAV of clap-and-fling type wing flapping, which is able to generate required lift comparable to conventional flapping.

The flapping wing MAV will be based on an ornithopter design. With more research and the discovery of the clap-and-fling method of flight, the group decided upon a four-wing vehicle with tail surfaces to provide stability and control. The highest frequency of flapping achieved by the ornihopter is in the range of 24 Hz.

Utmost care was taken in the development of the body and wing of the vehicle. The materials that were lightweight and durable enough to withstand impact were selected. The thus developed light weight MAV enables it to have outstanding flight performance compared to other existing MAVs. The record flight time was 10min with a 55 mAh battery. This MAV generates a flapping pattern similar to that of birds,making a breakthrough innovation.

-Lohit . A
III year ,MECH



CONTROL OF TRAFFIC LIGHTS BY A HANDHELD DEVICE

The recent inauguration of the Makerspace at CMRIT successfully showcased a few ideas and innovations of students and experienced innovators. One such innovation was 'The development of a handheld device for the traffic police to wirelessly control traffic lights' which was developed and presented by the students of CMRIT.

This idea was developed by a few alumni of CMRIT who had won the first prize at SRISHTI 2014. The innovation was further developed by a group of 3rd year ECE students.

Traffic signals in the city currently operate on 'Zig-Bee' technology, an automatic system where traffic signals are programmed to a preset sequence and timing. The system is not infallible and has been known to cause delays and jams. To clear congestion, policemen manning junctions are forced to switch to a manual 'wired-control mode'. This means the constable at the junction, based on his assessment of the traffic situation, controls the lights from a control box mounted on a pole at the junction. While the method offers better management options, police say that it ties the constable down to the control box, often at an obscure location near the junction. Finding no policeman in sight, some motorists tend to break traffic rules, sometimes causing a jam. Such offences have been known to cause road accidents leading to death or injury.

With the remote control device, the constable, based on an assessment of the flow of traffic, can choose from among several sequences and timing options and even flip from one option to another. In a scenario where the traffic police wants to make the signal green for the road with an ambulance, or to control heavy traffic, he need not run to the board to control. The handheld remote makes this job simpler and faster.

The current remote is designed for a 4 way intersection with features such as:

- All the features of the board
- Password to access the remote (for security purposes)
- Automatic and Manual control for traffic lights
- Range detector which automatically switches control to automatic mode when the traffic police(with the remote) goes out of range. The policeman is also warned about this, by an inbuilt feature.

The functionalities of the remote and the board were demonstrated by the students at the inauguration of Makerspace. Volunteers from the audience were chosen for hands-on use of the remote, and demonstrations of traffic light control(through board and remote), range detection, etcetera were given. The students state that the remote can be further developed with many more features to suit real-life scenarios. B Dayanand, additional Commissioner of Police (Traffic and Security) also found this idea exciting. Very soon the students plan to test their equipment at the nearest traffic junction.

The students part of the project :

Aishwarya C, Akhila Vijay, Anirudh A, Anjaly S George, Aswath Kumar & Nirish Patil

DEEP LEARNING

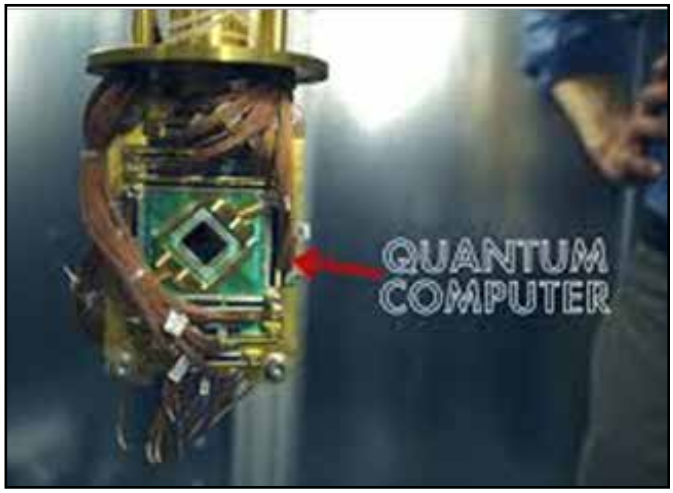
If you read the news, you'd remember that not too long ago, Google's photo service mistakenly tagged an African-American woman as a gorilla. Besides, the fact that this incident was and largely embarrassing for both Google and the lady, what we need notice here is, Google's photo service managed to recognize and tag a photo on its own. Although the recognition was faulty, it's still worth noticing and asking yourself "How?" -The solution is Deep Learning. Although, Google's new photo service clearly needs a lot of refining, it is possibly our first ever interaction with deep learning and something very close to artificial intelligence.

Deep learning is like the adult version of machine learning, and for those of you who don't know how machine learning works, it works by trial and error, In theory: a human being provides data for analysis and then gives error-correcting feedback that enables the system to improve itself. So, basically the system is self developing without the need for explicit programming. Instead, the self development happens by acquiring knowledge through a 'supervised' learning experience making machine learning a very powerful tool. But the reason deep learning is so much more valued is because the system does the self development process with barely any human input. Therefore, the system is now able to develop in the absence of, or with much less, human supervision.

Face recognition is based on the concept of deep learning. Recognizing a face involves recognition of various sub-structures, known as features, such as eyes, the chin, nostrils, cheeks and other body parts. Eyes in turn are broken down into pupils, iris, and cornea. In case of machine learning, the system would have to learn to recognize the nostrils. Then the nose, all with the help of a human pointing these things out to the computer before it can become really good at recognition. Deep learning on the other hand, will be able to reach its own conclusions and identify these features without a human to point it out to the system.

Deep learning has been attracting big investments. Last year, Google invested around $500 million in a London-based artificial intelligence outfit 'DeepMind' that specializes in deep learning. Apple has recently been on a hiring mission, seeking 80 plus AI experts to help make Siri smarter than Google Now and Microsoft's Cortana. Facebook hired one of the best known deep learning academics to lead a research team of 50 researchers called "Facebook AI Research" (FAIR). As of now, Google remains at the forefront of the deep learning revolution especially because of the large amounts of data they've been able to accumulate from their Android users across the globe.

-Priya Vani Upadhyay
ECE



QUANTUM COMPUTING

> "If you think you understand quantum mechanics, you don't understand quantum mechanics."
>
> -Richard Feynman

All these years, we have seen that the number of transistors on a single integrated chip (IC) has exponentially increased, which has boosted the computational capability of computers significantly. But now the size of a single transistor has reached 14nm, which is relatively close to the size of an atom. So if the size of the transistor is further decreased, quantum physics is to be brought into the picture.

A traditional computer stores all its information in the form of bits. A quantum computer, on the other hand, stores information in the form of qubits. A qubit is represented by a single electron and its state is 1 or 0 (depending on the spin or polarization of that electron). The biggest advantage of using these qubits is that a single qubit can have both high and low states simultaneously (by the quantum-mechanical phenomena of superposition), which means that 4 qubits can simultaneously have all the 16 different values that 16 bits can have, and when these qubits are passed through a filter the required state can be obtained.

Another important quantum-mechanical phenomenon is quantum entanglement, where the states of the entangled qubits can be determined by knowing the state of one qubit, independent of the distance between the entangled qubits.
Using both superposition and entanglement, the speed of the processor can be enhanced to a very large extent. In databases, to search a query a regular computer would have to go through all the entries in the database. A quantum computer on the other hand, would need only the square root of that time to search the given query.

Google and NASA have teamed up to create a quantum computer; they have created a working prototype with the help of a Canadian company called D-Wave Systems. They claim that it is 3,600 times faster than a supercomputer, which is some serious speed!
It will be interesting to see when these computers will be available commercially and what capabilities they can have when they are utilized to their full potential.

-Rajat Agarwal
II year, CSE

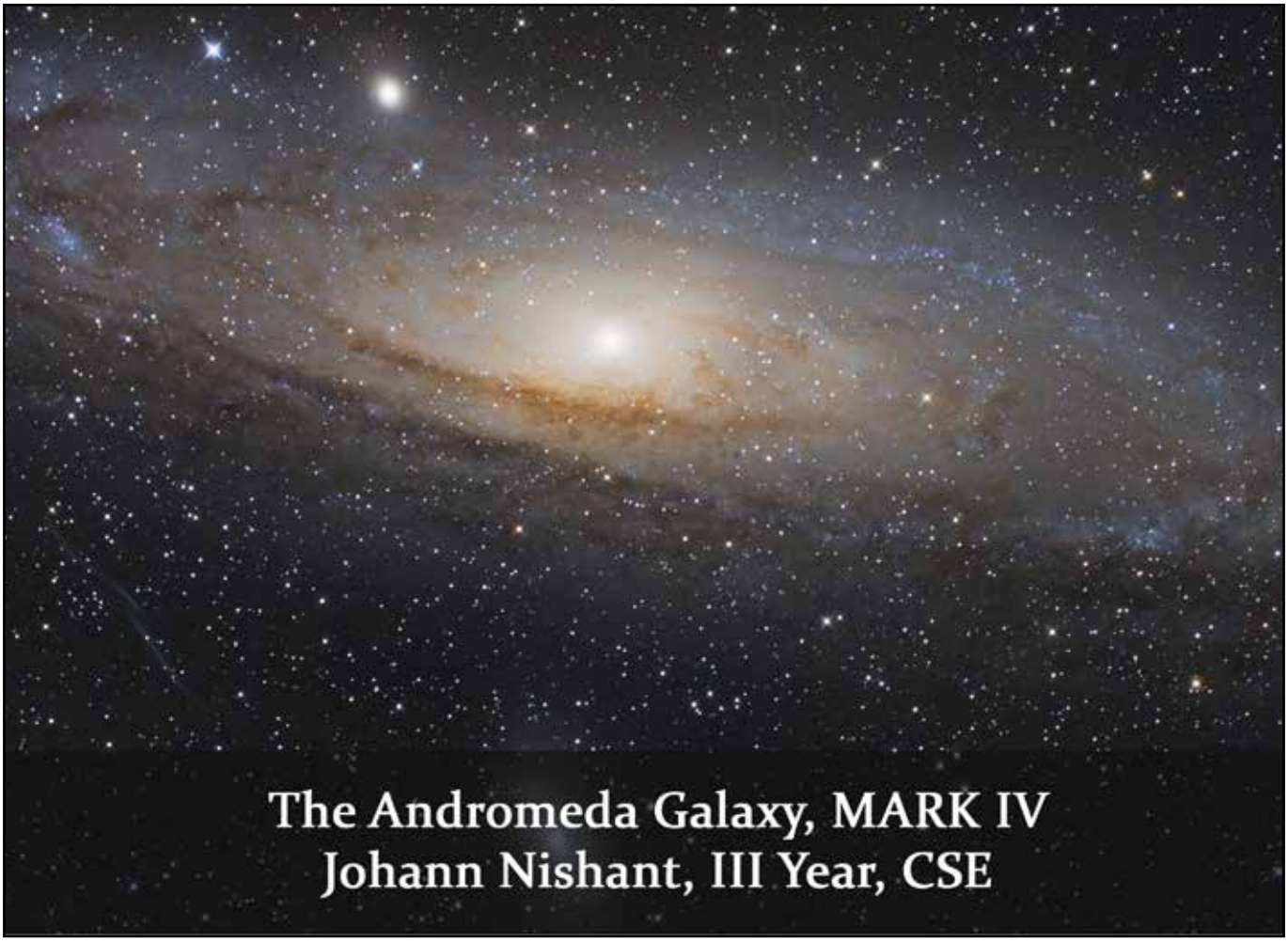
CHAYACHITRAN

Sheetal, Assistant Professor, ISE

Prasenjit Sardar, IV Year, ECE

Carina Nebula

Orion Nebula

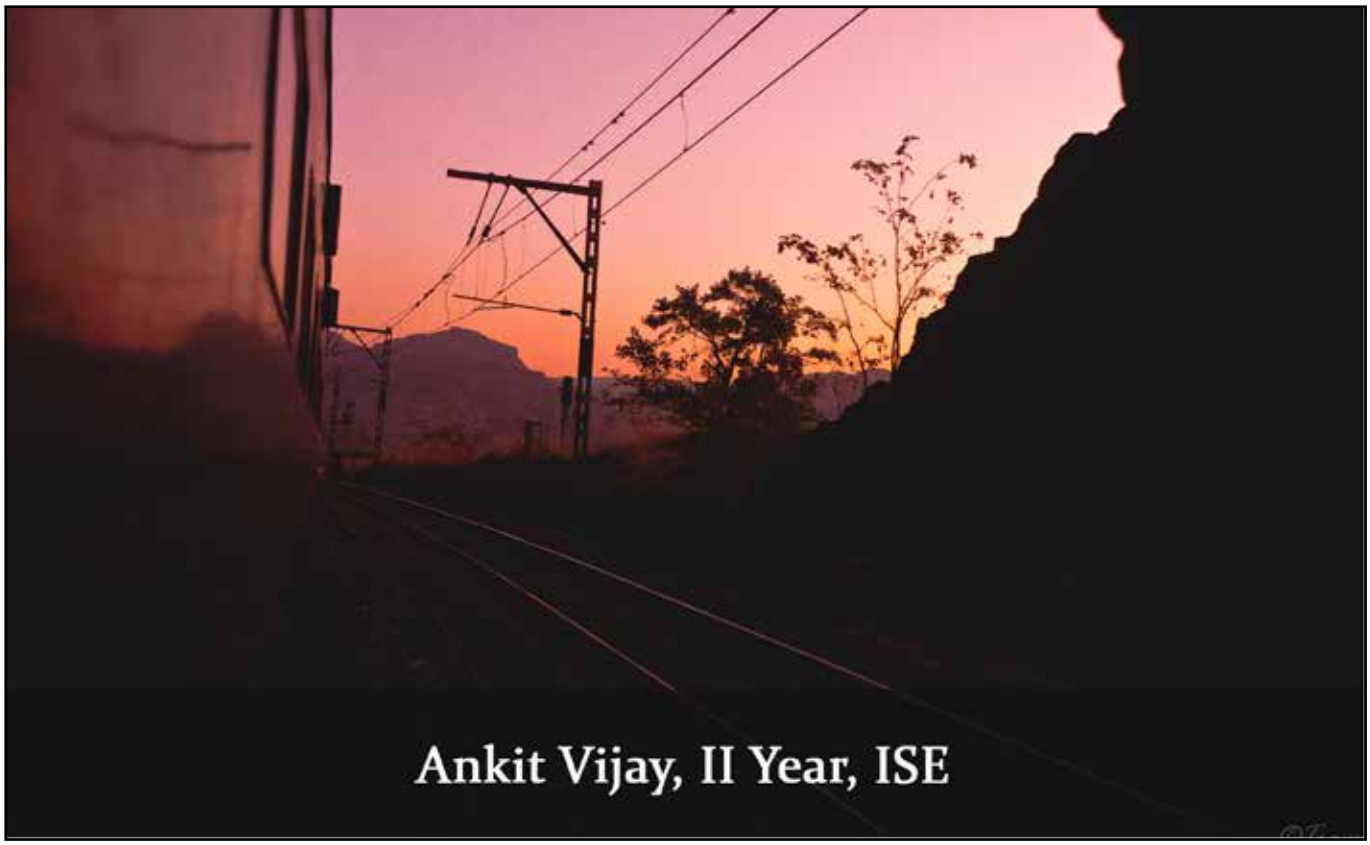


The Andromeda Galaxy, MARK IV
Johann Nishant, III Year, CSE

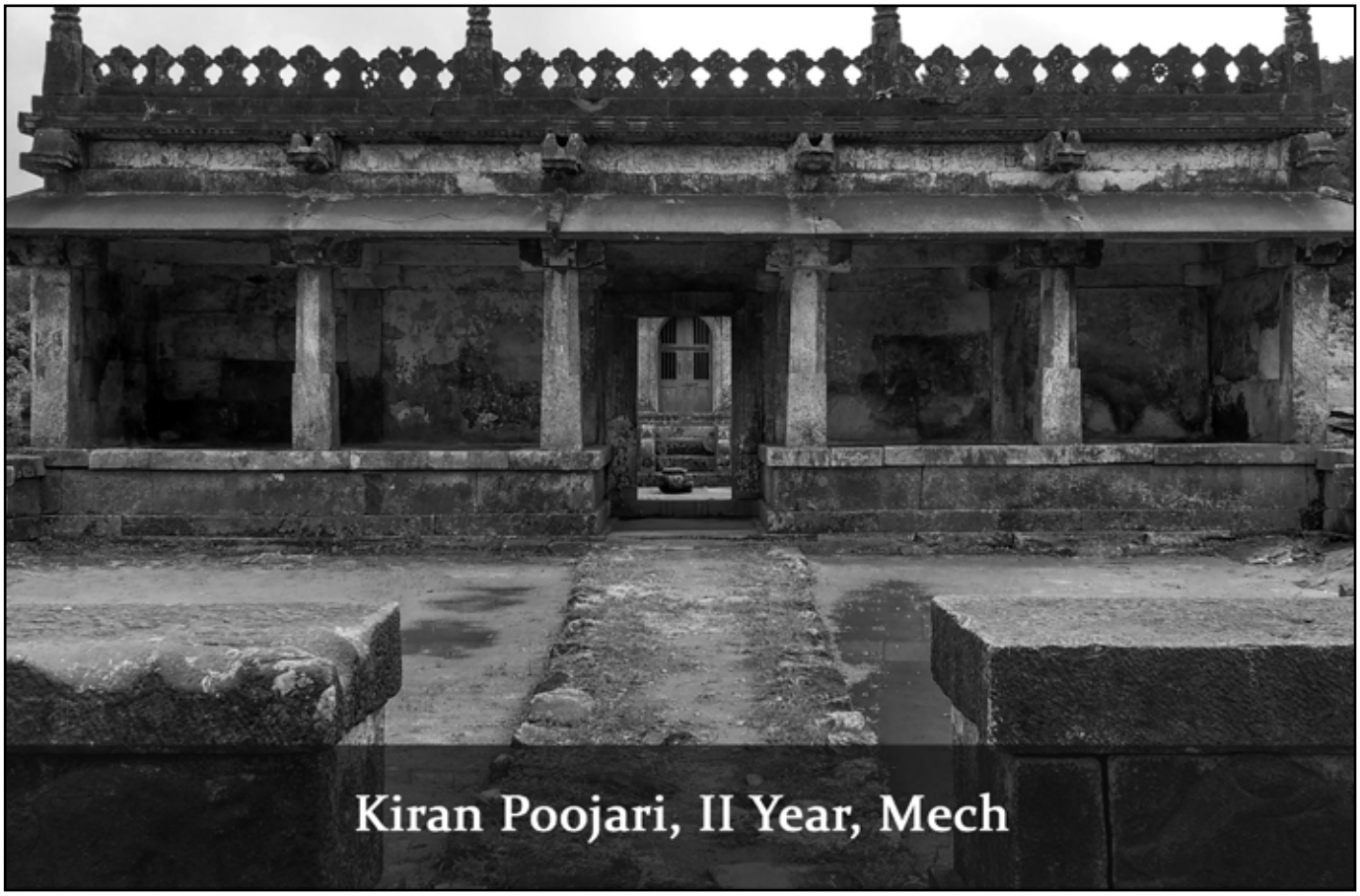
Keerthana M Srinath, II Year, ECE

Geetha, Assistant Professor, ISE

Kiran Poojari, II Year, Mech

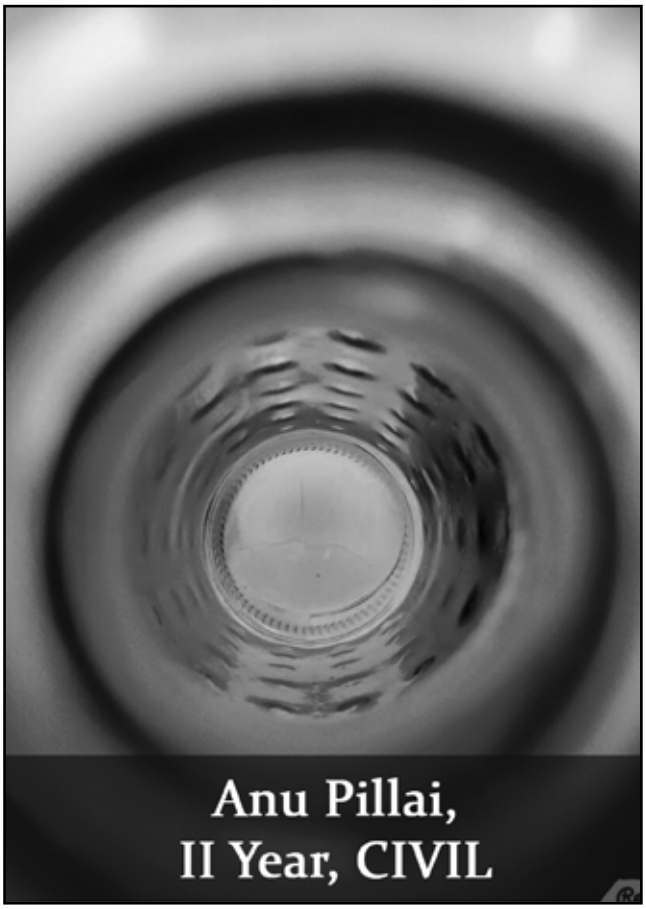


Ankit Vijay, II Year, ISE

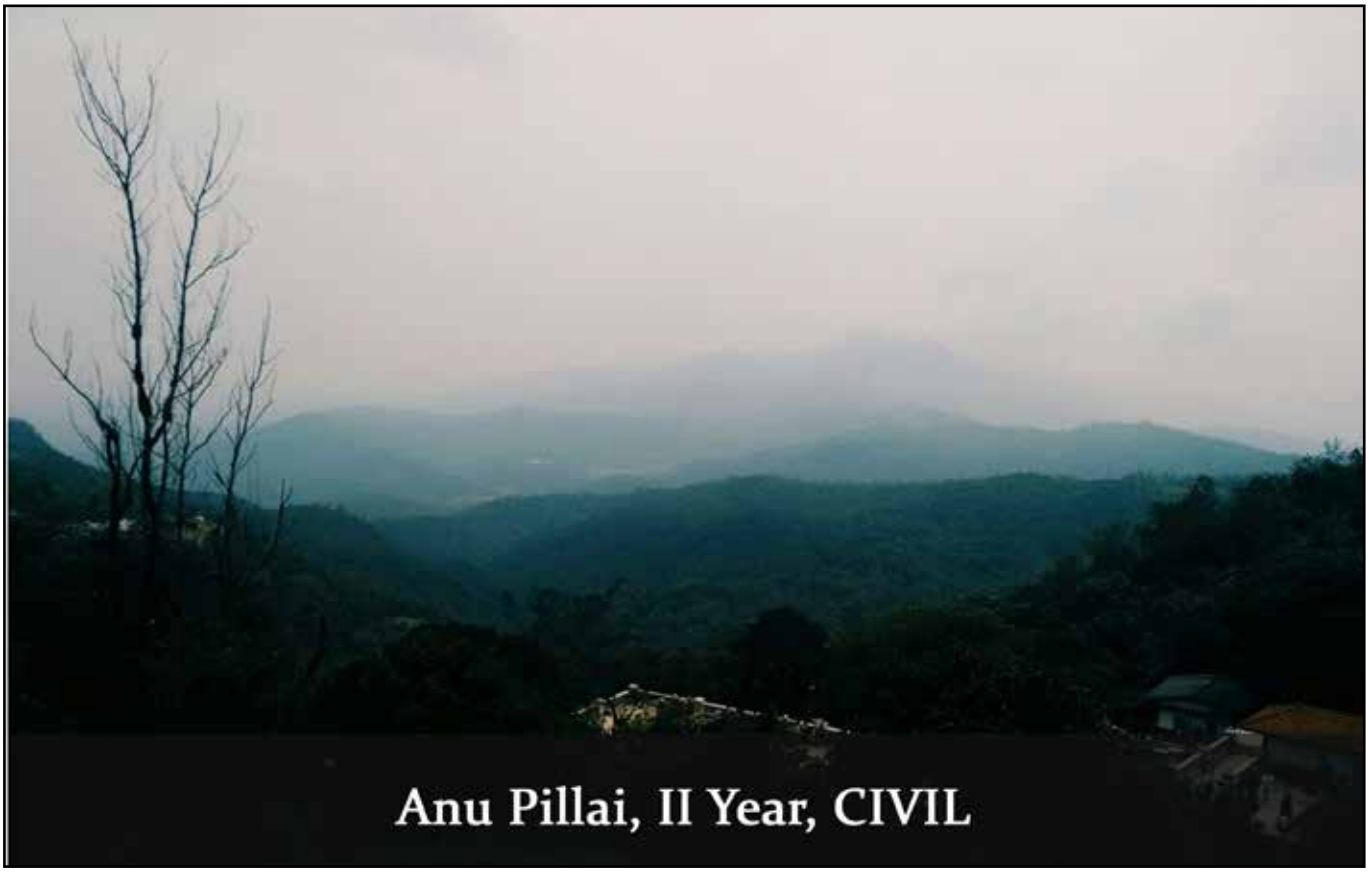


Kiran Poojari, II Year, Mech

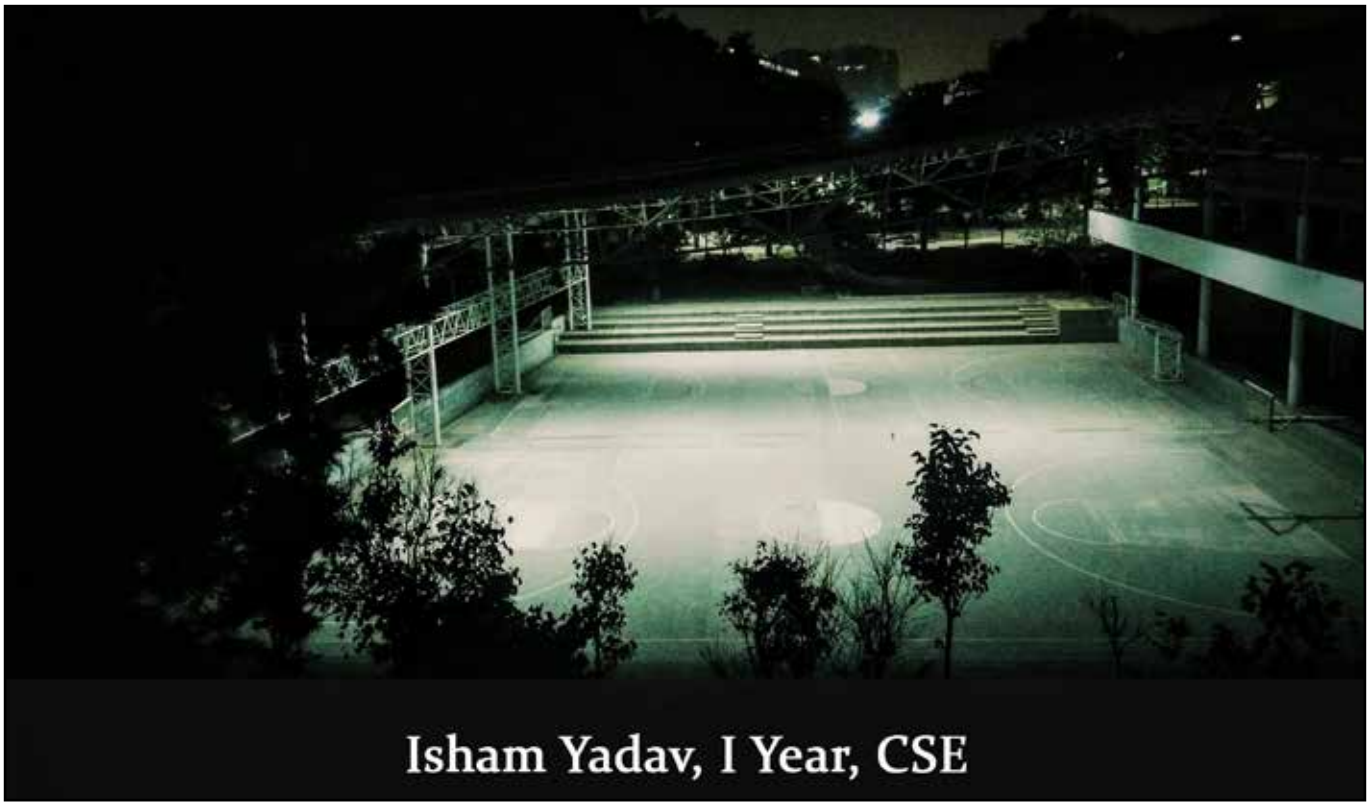
Danthuluri Sudha,
Assistant Professor, ISE



Anu Pillai,
II Year, CIVIL



Anu Pillai, II Year, CIVIL



Isham Yadav, I Year, CSE

MANTHAN

MAKERSPACE

A fab-lab with toolboxes, spanners, hammers, a couple of 3D printers, a CNC machine and a Laser cutter- this makes up our MakerSpace. The 1,500-sqft facility is a cross between a laboratory and a builder's garage, with plenty of opportunities to explore new technologies and fresh methodologies, to become ideators, tinkerers, makers and innovators of modern times. At MakerSpace, one can experiment with the cutting-edge of innovation and weave their dreams into reality.

Here at MakerSpace, students will be engaged intellectually, emotionally, and physically into 'making' their ideas into a reality. They will experience adventure, risk-taking and uncertainty and evolve into self-directed learners, capable of taking charge of their learning. They will actively engage in projects by experimenting, solving problems, assuming responsibility, being creative and constructing meaningful projects.

The students had a first hand experience during our fest- Cultura'16- where they got a chance to make earrings, key chains, and other souvenirs using the laser cutter.

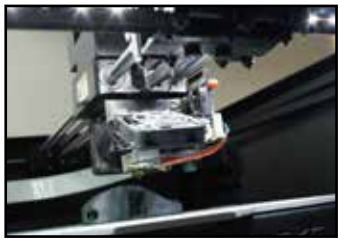
'KickStarter – 101' training sessions were organized in the MakerSpace for faculty members and students. During these sessions, the attendees were given a hands-on introduction to 3d printers, laser cutters and the CNC routers.

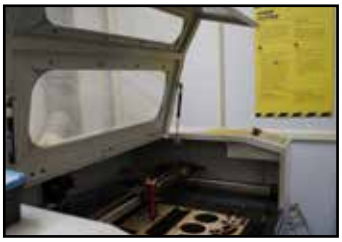
An on-campus MakerSpace gives students an opportunity to showcase and share their own skills through student-driven workshop sessions as seen in the Doodle Art workshop organized by the students of the Department of Architecture.

Ultimately, the MakerSpace @CMRIT seeks to instil an essence of the 'Maker Movement' in each student and be more creative than they ever have been. Live the maker-spirit. Collaborate. Communicate. Create.

Sessions organized at MakerSpace:

1. Kickstarter 101: Familiarization trainings on 3D printing, laser cutting and CNC routing.
2. Mosaic Making: Turning broken pieces of glass into specimens of art.
3. Dodoodle Art: Make your doodles stand out.
4. Creative WireCraft: Make cool shapes and designs using nothing but wire and a pair of pliers.
5. Raspberry Pi: A hands-on session to introduce the world's most popular single-board





CHINGARI

Our first annual architecture exhibition titled 'CHINGARI'- derived from the Hindi word, meaning a spark, was put together to showcase student works. Eminent Architect Nagaraj Vastarey inaugurated the exhibition on Feb 20, at the school premises, CMR Institute of Technology campus.

The central purpose of the exhibition is to showcase student works, and get reviews and comments from students of other institutions, architects and the community in general.

The exhibits included drawings, paintings, printouts and three-dimensional models, showcasing the work done by the 1st year B.Arch students in various courses - Basic Design, Architectural Design, Foundation Workshop, Visual Arts, Building Construction, Graphics and History of Architecture. The exhibition was well-received and brought people together, both within the school and outside.

CONFLUENCE 2015

'Confluence 2015' was an attempt to instigate the general public to engage and associate with Art, the Artist and its relation to Architecture. This event intended to spark involvement and initiative from larger sections of the society. It is well known that scores of highly creative and talented artists across the country do not get the required visibility and exposure. It is very essential that sufficient opportunities to expose these talents be created. From the CMR Group of Institutions the camp was a small attempt to bring in artists of different regions and provide a platform to share their identity, local experience, background, culture etc.

This camp created the right atmosphere for artists to share individual and collective concerns, observe and learn from each other's processes and techniques. The entire management of CMR University and CMR Group of Institutions including the Chairman Shri. K.C. Ramamurthy, Dr. Sabitha Ramamurthy, Shri. K. R. Jaydeep and Smt. Shreya Reddy took keen interest in enhancing the value and importance of the camp. A special mention is in order and deep appreciation towards the efforts of Smt. Tristha Ramamurthy, Vice-President of CMR Group of Institutions for her total involvement in making the Art Camp a success and a reality.

Prof. Muralidhar K. and Prof. Ravikumar Kashi with their varied background, knowledge, experience, insight and contacts created the right ambience for the entire Art Camp with total commitment.

'Confluence 2015' is a small effort to make a difference in the way art is perceived. It has been a joy to see the mingling of artists, interactions they have had with students, teachers and other curious visitors. It is a big value addition to the engineering and management students and a different dimension from the usual mode of studies. Art will flourish only if proper and large patronage is available. It is necessary to create such patronage whenever and wherever possible.

INCUBATION CENTRE

The launch of the Incubation Centre is one of the most important CMRIT events of 2016. As an institution dedicated to developing quality leaders, visionaries and entrepreneurs, the establishment of the Incubation Centre is an important milestone for CMRIT. Incubatees experience entrepreneurship, engage in innovation driven activities at the institute and gain from the comprehensive and integrated range of support including space, mentoring, training programs, networking and an array of other benefits that the Incubation Centre offers.

The Incubation centre will be a hub of innovation, business development, investor-connect activities, business development sessions and more importantly, a second home to CMRIT's most ambitious and enterprising minds.

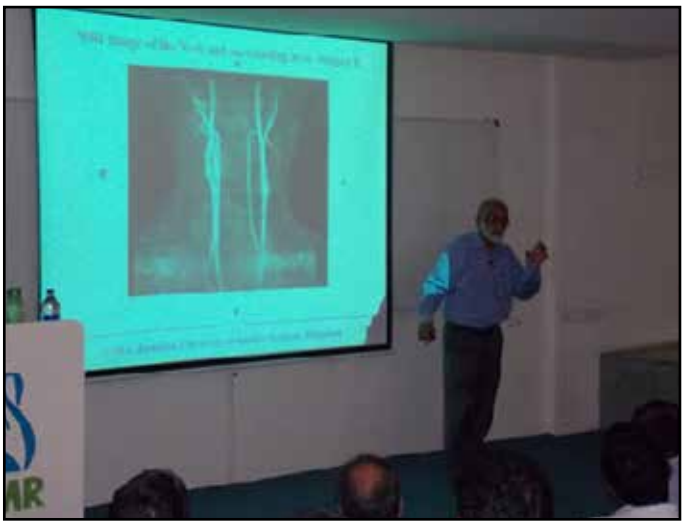
The CMRIT-Sherpify Incubation Center, along with the CMRIT MakerSpace, aims to be the hub of innovative and high impact ventures in social, educational, commercial and other domains. It hopes to bring forth a revolution in how and what students learn and achieve while in college.

To bring this Incubation Centre to the students and faculty, CMRIT is partnering with Sherpify, an organization committed deeply to help students reach their highest aspirations. The Sherpify management team has years of experience working in some of the largest and most successful global organizations and has been part of many entrepreneurial initiatives.

BARCAMP SPRING 2016

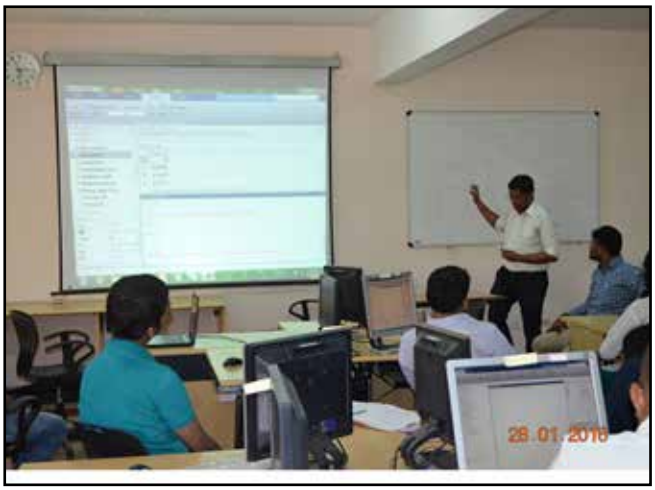
Barcamp Bangalore (BCB) is a biannual conference that started in the spring of 2006. The Spring 2015, Autumn 2015 and the Spring 2016 editions were held at CMRIT. Each edition sees a footfall of about 500, with 50 speakers on themes ranging from lifestyle to technology. A few sessions held at the latest edition were 'Being a Super-Hero,' 'Building a startup form Zero to One' and 'Cycling across India'. Techlash, one of the regular events involves a 6 minute demo pitch of ideas, hacks and products from the community. Various startups have forked out from these demostrations over the last decade of it's existance. It has been an insightful experience for all the participants of Barcamp at every edition.

DEPARTMENT EVENTS



The department of Mechanical Engineering organized a Workshop on "Computational Fluid Dynamics" by Dr. Bijay Sultanian, Professor University of Central Florida on 18th to 22nd January, 2016 and saw a participation of 100 people.

The departement of Electronics and Communication organized a three day hands-on workshop on "Analog and Mixed mode Design Using Cad tools" by the Research Centre, CMRIT on 27th -28th January, 2016



The department of Electrical & Electronics condcuted a four day intensive Faculty Development Program on "Control systems with Matlab"

The department of Telecommunication Engineering, CMRIT, Bangalore conducted a two-day workshop on "Plagiarism" on the 4th and 5th of March 2016. The workshop was conceptualized to introduce the different dimensions of academic integrity. Specifically, the program exposed participants to plagiarism and the process adopted by VTU towards checking plagiarism for PhD, MTech, MBA and MCA thesis.

The department of Telecommunication Engineering conducted a Faculty Development Program on, Recent Trends in Antenna Design- using FEKO simulation software, in association with VTU.

The departments of CSE, ISE & MCA together organized an IEEE event, "Application & Directions in Big Data" in association with IEEE CMRIT Student Branch from 9th -13th February, 2016.

CLUBS IN CMRIT

TOP(LEFT TO RIGHT): SOUMITRO CHAKRABORTY, PRATITH SHETTY, ANKUSH AK, PRAJWAL SUBRAMANYA
BOTTOM(LEFT TO RIGHT): ANJALY GEORGE, AISHWARYA C, AISHWARYA BHATT, C. BINDU

"MINERVA"

-LITERARY CLUB

Potterheads, poets, writers, debaters and voracious readers form Minerva's core. It manages everything literary- from editing the college magazine, to sending out young, prize-hungry talent to conquer literary contests.

Minerva is one of the most encouraging clubs in CMRIT. Everyone is welcome in the club- all they require is a passion for literature. Combine that with an ambitious desire to represent the college to the best of its literary abilities.

"ART'ED"

-ART CLUB

Creative work is not a selfish act or a bid for attention on the part of the actor. It is a gift to the world and every being in it, don't cheat us of your contribution. Give us what you got.

"S.W.A.T"

-TECHNICAL CLUB

On a mission to bridge the gap between your knowledge and your passion, we are your pathway to technology. SWAT aims to make your desire to become technologically savvy, a reality. A transition from the norms of your usual academics to a more exciting platform, where you explore your interest and unlock your potential. Some of the events we conduct are Hackathons, Coding and Debugging sessions, Tech awareness sessions etc.

"SAMSKRUTI"

-KANNADA CLUB

Samskruthi Kannada Sangha- The Kannada Sangha creates awareness about the language of Karnataka, Kannada. We also try to infuse a sense of belongingness and rekindle the spirit of Karnataka.

"TAKE A BOW"

-THEATRE CLUB

Our aim is to entertain people of all ages with this fine art and to encourage more people to realize their talents.

We have conducted an improvisational theatre event OFF THE CUFF on October 19th, 2015. A lot of students had enthusiastically participated and the event was a real success.

"KINESIS"

-DANCE CLUB

Kiniseis, meaning movements, as a club believes that every individual has the right of expression. We believe there is no form of expression that can beat the beauty of dance. By bringing competitiveness back to the dance floor, we aim to provide every dancer an opportunity to stage their talent with a variety of dance events lined up throughout the year.

"IRIS"

-PHOTOGRAPHY CLUB

We, the photography club aim to help our members master the fascinating art and science of photography. We also aim to provide a forum for students to communicate and connect about photography. All this we achieve by organizing enthralling events and spreading awareness about this beautiful art.

"AAROHAN"

-MUSIC CLUB

Music is called the universal language. It cuts across religion, language and ethnicity to pull down the barriers between people. We at AAROHAN are a group of people who come from various backgrounds with one common passion that unites us all. We strive to keep the youth of today exposed to good music irrespective of the genre.

Music is everywhere, all we have to do is to take a moment and listen.

CLUB ACTIVITIES

Art'ed

Workshop on Photoshop(Digital Image Editing)

The workshop was carried out by Shreyash Sharma to expose them to the leading image editing software, Photoshop.

Abhay Rangan of Minerva Club, has secured first place in English debate at the Sir MVIT fest and NMIT fest

PAPER WINGS

Bringing the best childhood game back from time, turning the field into the good old classroom arena, a lifeless engine and airframe of paper come to life with human touch. Paper wings is a paper plane competition where Paper Planes are judged on the flight distance and the best airtime.

200OK - HACKATHON

S.W.A.T, the Tehnical Club of CMRIT had organised the first ever 12 hour-Hackathon in CMRIT in association with Sherpify . Sherpify mentored all the participants, refine their ideas, in order to help them achieve their goal.

Pregos(Western Dance Team)

- *I place -CMR IMS 2013.*
- *I place-ESTRALIS 2015 & 2016, Gopalan College of Engineering.*
- *II place-CHIGURU 2015 & 2016, Cambridge Institute of Technology.*
- *II place-CULTURA 14 & 15, CMRIT.*
- *II place-ROTA FEST 2015, CMRIT.*

IEEE CMRIT Student Branch

IEEE CMRIT Student Branch organised a two-day workshop on " Image Processing using Python"

IEEE CMRIT Student Branch has organised a one day workshop on "Web Development"

Mad Heads

- *I Place- Anaadyanta '16, NitteMeenakshi Institute of Technology*
- *I Place- MIME eclat '16, Jain College*
- *I Place- Cultura '16, CMR Institute of Technology*
- *I Place- Estralis '16, Gopalan College of Engineering*
- *I Place- Nirvaan '16, St. Joseph's College(Autonomous)*
- *II Place- Lasya '16, Sri BhagwanMahaveer Jain College*

Nrithyathmika (Indian Dance Team)

- *I place -ESTRALIS 2015, Gopalan College of Engineering.*
- *II place - RUDRAKSH 2015, NHCE.*
- *III place - CHIGURU 2015, Cambridge Institute of Technology.*

ADVITIYA

FACULTY YEARS OF SERVICE

15 YEARS OF SERVICE:

Mr.PHANIRAJU M
Asst. Professor,
CIVIL Dept.

10 YEARS OF SERVICE:

Dr. GIRISH
HOD, MBA Dept.

Mr. SUDHAKAR K. N
Associate Professor,
CSE Dept.

Dr. KAMAL KUMAR ,
Associate Professor,
Mathematics Dept.

5 YEARS OF SERVICE:

Mr. SARVANAKRISHNAN
Asst. Professor,
MBA Dept.

Prof. H.N. SHANKAR
Dean of Academics & Research

Mr. KASHIF AHMED
Asst. Professor,
EEE Dept.

Mr. HARISHA P
Asst. Professor,
MECH Dept.

Mr. VENKATESH NAIK
Asst. Professor,
MECH Dept.

Mr. PUNEETH KUMAR
Asst. Professor,
MECH Dept.

Mrs. SHANTI M. B
Asst. Professor ,
CSE Dept.

SRIDEVI S
Asst. professor,
ECE Dept.

CHETAN
Asst. professor,
ECE Dept.

SUNIL KUMAR K H
Asst. professor,
ECE Dept.

ARCHANA N
Asst. professor,
ECE Dept.

FACULTY PUBLICATIONS

1. Dr. Krishnan (Professor), CSE Dept. has published a paper titled "**Integrated Test Environment for Combinatorial Testing**" in IEEE IACC 2015, June 2015

2. Dr. Vijayananda Kaup (Professor), Mech Dept. has published a paper titled "**Characteristic Polynomial for Detecting Isomorphism among 1-Link, 1-Freedom Simple Jointed Kinematic Chains (SJKCs)**" in European Journal of Advances in Engineering and Technology, Vol. 2, Issue 5; pp 32-37.

3. Dr. Vijayananda Kaup (Professor), Mech Dept. has published a paper titled "**An Atlas of 12-Link, 1–Freedom Simple Jointed Kinematic Chains and Mechanisms**" in International Journal of Research and Scientific Innovation, ISSN 2321 – 2705, Volume 2, Issue 6, pp 16-31.

4. Dr. Solaimuthu. C (Professor), Mech Dept. has published a paper titled "**Experimental investigation of evaporation rate and emission characteristics of Mahua (MadhucaIndica) biodiesel and its blend with diesel**" in International Journal Green Energy, Taylor and Francis, Vol. 12, pp. 635-640 ,ISSN: 1543-5075

5. Dr. Jhansi Rani (Professor), CSE Dept. has published a paper titled "**Bernoulli Keyed Hash Function for Authenticating the data over Virtual Private Network**" in ACM-International Conference on Information and Communication Technology for Competitive Strategies (ICTCS- 2016), March 2016.

6. Dr. Krishnan (Professor), CSE Dept. has presented a paper on "Broken Kannada Character Recognition- a N**eural Network based approach**" at the IEEE-ICEEOT-2016, on March 3 - 6, DMI College of Engineering, Chennai.

7. Mrs. Pooja Mohnani(Asst. Professor) , TCE Dept. has published a paper titled "**Modeling and Optimizing Wireless Body Area Network Data using PSO in Virtual Doctor Server**" in Communications on Applied Electronics (CAE)-ISSN: 2394-4714. Foundation of Computer Science FCS, New York, USA, Volume 4–No.2 ,January 2016

8. Mr. Shreyas. P. (Asst. Professor), Mech Dept.has published a paper titled "**Enhancing Mechanical and Biological Performance of Metallic Biomaterials for Orthopaedic Applications through Changes in Surface Oxide Layer by Nanocrystalline Surface Modification**" in Nanoscale, Royal society of chemistry, DOI: 10.1039/c5nr00574d.

9. Mr. B. Rajendra Prasad Reddy (Assoc. Professor), Mech Dept. has published a paper titled "**Synthesis of Fatty Acid Methyl Esters (FAME) from Schizochytrium Marine Microalgae oil**" in ICAER-2015

10. Mrs.Sharmila. K P (Head of the Department), TCE Dept. has published a paper on "**Efficient & dynamic routing protocol in VANET: A Survey**" in International Journal of Advanced Research in Electronics and Communication Engineering(IJARECE). Volume 4, Issue 4, April 2015.

11. Dr. Sudhir K. Routray(Assoc. Professor), TCE Dept. has published a paper on "**Statistical Analysis and Modeling of Shortest Path Lengths in Optical Transport Network**s" in IEEE/OSA Journal of Lightwave Technology, Mar. 2015.

12. Dr. Kamal Kumar (Assoc.Professor) , Mathematics Dept. has published a paper titled "**Embedding index in graph**s." in Journal of Advanced Mathematics and Applications 4(2), 1-7-2015.

13. Dr. Kamal Kumar (Assoc. Professor) , Mathematics Dept. has published a paper titled " **Alternative methods of determining radius of curvature using Newton's rings set up**" in .International Letters of Chemistry, Physics & Astronomy, 9(1), 27-31, 2015.

14. Mrs. Swathi.Y (Head of the Department), CSE has published a paper titled "**Improving Routing in Infected Areas of WSN Using Fuzzy Clustering**" in International Journal of Research in Computer Applications and Robotics(IJRCAR), Vol.3 Issue.5, Pg.: 56-61,May 2015.

15. Mr. Narendra N. (Asst. Professor), Mech Dept. and Mr. Sagar M. B.,(Asst. Professor), Mech Dept. have published a paper titled "**Design & Development of Bi-Plane MAV**" in International Advanced Research Journal in Science, Engineering and Technology, Vol. 2, Issue 8, August 2015(ISSN 2393-8021. eISSN 2394-1588)

16. Dr. K. Meenakshi(Head of the Department),Mathematics Dept. has presented a paper on "**Semigraphs and Fermats Theorem**" at the International Conference on Mathematics, organized by University of Kerala in collaboration with IMRF, 27th Nov 2015.

17. Ms. Maya Krishnan (Asst. Professor) CSE Dept. has published a paper titled "**Survey on security risks in Android OS and an introduction to Samsung KNOX**" in International Journal of computer Science and Information Technology(IJCSIT), ISSN:09759646, August 2015.

18. Mrs. Pappa. M (Head of the Department), ECE Dept. has published a paper titled "**Frame Acquisition and Carrier frequency synchronization for OFDM Systems**" in IJIFR Journal, April 2015.

19. Dr. Sudhir Kumar Routray (Assoc. Professor), TCE has presented a paper on "**4.5G:A Milestone Along the Road to 5G**" at International Conference on Information Communication and Embedded System(ICIES-2016) , SAEC Chennai

20. Mrs. Sharmila K. P.(Head of the has published a paper titled "Spectrum Sensing for Cognitive Radio Emplo**ying Time Domain Symbol Cross Correlation for Vehicular Ad-Hoc Networks**" in International Journal of Engineering and Development And Research (IJEDR),Vol 3, issue 2., May 2015.

21. Mr. Sudhakar K.N. (Assoc. Professor), CSE Dept. has published a paper titled "**Real-Time Monitoring Of Agricultural Activities Using Wireless Sensor Network**" in International Journal of Science and Research (IJSR), Volume 4 Issue 5,May-15.

22. Mrs. Sujatha S. (Asst. Professor) , TCE Dept has published a paper titled "**PAPR Reduction Techniques using DCT and IDCT based Partial Transmit Sequence Technique in OFDM**" in ARPN, Journal, Jan-2015.

FACULTY ACHIEVEMENTS

Dr. MANAVAALAN G.
Associate Professor, Dept. of EEE

He has been awarded a Ph.D. from IIT Kanpur for the thesis titled 'Path Tracking Control of a Moon Rover: Modeling, Design and Implementation'. Also, he organized a one-week workshop on Embedded Control systems and a four-day faculty development program on Control Systems with Matlab.

Dr. PRIYAMEET KAUR KEER ANAND
Asst. Professor, Dept. of MBA

Dr.Priyameet Kaur Keer Anand has two books to her credit- "Public Relations", ISBN No: 978-93-5163-891-9, Thakur Publisher and " E-Recruitment :Issues and Challenges , Published by Archer& Elevators. She has also been invited as Guest Editor for Science Publishing Group, USA for Human Resource Journal "Stress and workplace", and has reviewed journal articles for the same.

Dr. CHAITANYA LEKSHMI INDIRA
Associate Professor, Dept. of Chemistry

Principal Investigator & Project Coordinator for Research projects:

- Development of Metal-oxide Heterostructures for Nanoelectronic and Photocatalytic Applications (Department of Science & Technology, Government of India, Nanomission Scheme).
- Spintronic Studies for Nanostructured Ferrites and their selected Composites(Department of Science & Technology, Government of India, Young Scientist Scheme).

Mrs. MIRIAM GEORGE
Asst. Professor, Dept. of MBA

Mrs. Miriam Georgewas invited by Facebook for a Q&A session at Town Hall held by Mark Zuckerberg, CEO of Facebook at IIT Delhi on October 28, 2015. She was also invited as a panelist in Zee Business Channel on October 29, 2015 for the topic Net Neutrality. She has published a case study analysis based on Focus Group Discussion on Packaging of Cosmetics in the International Journal of Informative and Futuristic Research, Volume 3, Issue: 6 February 2016 ISSN Number: 2347-1697 Paper Id: IJIFR/V3/E6/ 035 Page: 1988-1995 Impact Factor 4.781

Dr. GIRISH C
HOD, Dept. of MBA

Dr. Girish C. has published a book on "E-Marketing", ISBN NO: 978-93-5163-887-2, for MBA-IV semester students. Dr.Girish C and Dr. Priyameet Kaur Keer Anand together have published a paper on "Organizational Change and its effects on Employee Behaviour on 19& 20 Feb 2016.

Dr. PHANI KUMAR PULLELA
Professor, Chemistry

Dr.Phani Kumar Pullela has recently been awarded a US Patent #8,986,976 entitled "Method for isolation of nucleic acid and a kit thereof". He has received three research grants- one from VGST Karnataka for affordable and safe pesticide use, another from DST Nanomission for the detection of MTB from breath and DBT, and the BIPP grant for simple colorimetric estimation of pesticides, chemicals, adulterants, and heavy metals in water/ produce/ packaged foods.

Mr. SARVANA KRISHNAN K
Asst. Professor, Dept. of MBA

Mr. Sarvanakrishnan K has cleared the entrance exam of IIM Calcutta for an Executive program in applied finance, in Dec 2015.

Mrs. SARANYA S
Asst.Professor, Dept. of EEE

Mrs. Saranya S has been awarded the 1st place in National conference on Futuristic Trends in power Integration and computing techniques, held during November 2015.

Mr. KAMAL KUMAR
Associate Professor, Mathematics

Mr. Kamal Kumar has completed his PhD in 2015 for his thesis which was on "Study on different parameters of domination theory in graphs".

Dr. KRISHNAN
Professor, Dept. of CSE

Dr.Krishnan has been selected for the Outstanding Educator & Scholar Award during the 6th Teacher's Day Awards & Celebrations 2015 hosted by the National Foundation for Entrepreneurship Development (NFED), Coimbatore.

Dr. BIJAYANI PANDA
Asst. Professor, Dept. of Mechanical Engineering

Dr. Bijayani Panda, worked on a project titled "Effects of Various Parameters on the Liquid Metal Embrittlement of Stainless Steel when welded to Galvanised Steel" which was funded by the DEPARTMENT OF SCIENCE AND TECHNOLOGY (DST). It was sanctioned in 2015 and was granted an amount of Rs. 18 lakhs for the project.

Dr. S.V. PRAKASH
Professor and HOD, Dept. of Mechanical Engineering

Dr. S. V. Prakash recently published a paper on "Design, fabrication and experimentation of a small scale anaerobic biodigester for domestic biodegradeble solid waste with energy recovery for sizing calculation". It was published by ISWMAW in the year 2015. It was recognised on both national and international forums and was awarded the IconSWM 2015 Excellent Paper Award.

Mrs. PRAKRUTHI S
Asst. Professor, Dept. of Mechanical Engineering

Mrs. Prakruthi S completed her PhD in 2015 for her thesis which was on "Friction Stir Processing for Fabrication of Al-Fe and Al-Ni Based Bomposites and their Characterization".

SRISHTI 2016

It has been a great year for CMRIT. We've played host to many events which stake a firm place in today's day and age. This year CMRIT had the privilege of hosting a grand event, Srishti 2016.
Srishti is a competition aimed to catalyze the exchange of ideas, to celebrate science, and to invoke amongst the youth of today, the intent and power to overcome and neutralize the problems we face everyday. Organized by ABVP, the largest student organization in India with over 25,00,000 members, Srishti is only one among the many different programs organized by ABVP, like World Organisation for Student and Youth, Think India, Student for Development and Youth Against Corruption to name a few. It organizes national level conferences, science and technical exhibitions.

The three day event, held between 6th-8th May, saw participation from over 70 colleges all over Karnataka and garnered a sense of purpose to make a change in the world amongst all its participants. Srishti 2016 was inaugurated by the Chief Guest, Shri. D. H. Shankara Murthy, Speaker of the Legislative Council of Karnataka. He was accompanied by Mr. Omkar Rai, Director of STPI, Mr. K. C. Ramamurthy, IPS & Chairman of CMR Group of Institutions and Mr. Srinivas Balli, National Vice President, ABVP. The Chief Guest for the 3rd and final day of the competition was Mr. Aravind Limbavali, MLA, Mahadevapura Constituency and the other dignitaries present were Prof. V. Shridhar, Vice Chancellor of VTU, Mr. E. S. Chakravarthy, Center Head-TCS Bangalore and Mr. T. S. Nagabharana who is an internationally recognized film director for his work in the Kannada Film Industry. It was truly an honour to have such dignified and respected members of society to be present at the college.

This year Srishti added many more feathers to its hat, such as 'Start-Up-Right', 'Waste-O-Mania' and 'Art Matters'. The guest speaker for 'Start-Up-Right' was none other than Mr. Suhas Gopinath who was named the youngest CEO. He was aged 17 at the time and is the CEO of an IT multinational company, Globals Inc. As there were fine art events also featured, students who dabble in the fine arts had the opportunity to showcase their talent by exhibiting their paintings and sculptures. Srishti 2016 saw 450 project entries compared to the 320 of its previous edition, proving that the competition is still picking up steam heading into its 14th year.

The projects displayed by the student covered a wide range of applications. These projects, if implemented, could serve a purpose in agriculture, e-commerce, mechanical engineering, health care, construction etc. The judges were truly amazed by the ideas and innovations that were given life by the students. Apart from demonstrating working models of 3D printers, drones, robots etc, many students also presented Technical Papers that were lauded by judges and the audience.

CMRIT played an active role in Srishti 2016, not only by playing host but also by contributing in numbers to the projects and papers that were presented. The overall prize was bagged by BVBCET, Hubli and bagging the runners up prize was our very own CMRIT. At the end of the day, it was a great weekend for everyone who was present and there were many qualities that were imbibed, many networks created and many ideas exchanged. Srishti 2016 truly achieved what it set out to do.

LEADERSHIP AWARDEES

Left: Keerthi Gopalakrishnan *Right: Abraar Syed*

The latest recipients of the prestigious CMRIT Leadership Awards are Keerthi Gopalakrishnan and Abraar Syed.

Keerthi's contributions to CMRIT are immense and applaudable. Her vision is to leave a positive mark in every task she commits to. Her contributions to CMRIT began right from her junior year and since then, she has come a long way. On being asked about her opinion on receiving the award, her response was "The prestigious CMRIT leadership award came along with instilling a sense of immense honour, extreme gratitude, happiness and pride. To be able to witness the joy and pride in the eyes of my parents and teachers gives me immense pleasure and happiness. Receiving this award made me believe that no amount of hard work goes unrecognized."

Our second awardee - Abraar Syed, a tech-enthusiast, FOSS evangelist, public speaker, organizer and a dynamic leader. Abraar Syed has served as the Technical Secretary in the Student Council for the past year. He helped design the Tech Club and CULTURA'15 websites. His response on receiving the award was "It feels awesome. I still remember the first day I came to this college and not being sure what I wanted to do in life or how I would make a difference at the end of four years. And now, here I am receiving the leadership award, I feel that I've made a difference and left a mark behind by initiating new clubs such as glug, Mozilla etc., which will help budding engineers. I feel privileged to be a part of CMRIT."

STUDENT COUNCIL

Top (Left to Right): Rohit Ravindran, Shashank Menon, Ronak Jain, Chandrashekar B, Prajwal S.H, Neha Bhardwaj
Bottom (Left to Right): Vamsi Sai T, Shriyanshi Raj, Medha Seth, Keerthi Gopalakrishnan, Manasa D. Patgar, Aishwarya Jakka, Keerthana Ashok

Team Jnanadhara congratulates the Club Presidents and the CMRIT Student Council for efficiently organizing and aiding different events, and adding to the campus dynamism.

The Student Council for the year 2015-2016 :

- Ms. Keerthi Gopalakrishnan , TCE (President)
- Ms. Medha Seth, ISE (Secretary)
- Mr. T. Vamsi Sai, CSE (Cultural Secretary)
- Ms. Manasa D. Patgar, CSE(Cultural Secretary)
- Mr. Rohit Ravindran, MBA (Cultural Secretary (PG))
- Mr. Ronak Jain, CSE (Technical Secretary)
- Mr. Chandrashekar B, TCE (Technical Secretary)
- Ms. Keerthana Ashok, MCA (Technical Secretary (PG))
- Ms. Aishwarya Jakka, CSE (Literary Secretary)
- Mr. Shashank Menon, ME (Literary Secretary)
- Ms. Shriyanshi Raj, TCE (Hostel Secretary)
- Mr. Sharath S., EEE (Hostel Secretary)
- Mr. Prajwal S. H, ME (Sports Secretary)
- Ms. Neha Bharadwaj, ISE (Sports Secretary)

STUDENT ACHIEVEMENTS

Polymer-Flyash Bricks

Neem-based Bandage

Smart Mouth Imaging Tool

Treating Bellandur Lake

*There were several projects presented at Ideas for India Awards 2015 by students of CMRIT. The projects were mentored by Prof. Phani Kumar. Some of the concepts presented included "**Treating a frothy lake using a multi-metal catalyst**", which won first place; "**Methodology to create polymer-flyash bricks**" winning second place;building of a "**smart mouth imaging tool**", "**a natural neem-based bandage against pest wounds in plants**" each bagged a second runner up place in their respective categories.*

Mr. Abraar Syed was one of the 23 Firefox Student Ambassadors from all over the world.

Ms . Aishwarya Baruah and Mr. Siddharth E. S. were the Second Runner Up in the Clean & Clear Bangalore Times Fresh Face, 2015.

Kushal I, Anoop CJ, Pavan R were awarded the IEEE UPP mini sponsorship award 2015 with a cash prize of INR 15000& also qualified in the top 25 finalists in the GE Edison Challenge, 2016.

Mr. Sanjay Kumar Gupta has published a novel "The Bubble that Burst" in May 2016

VTU TOPPERS

I RANK
BHAVYA S
III SEM,MCA

I RANK
SUKANYA
I SEM,MCA

IV RANK
BIRENDRA KUMAR SAHU
VII SEM , ME

V RANK
AKSHAY PRABHU
V SEM, TCE

V RANK
D.PRIYADARSHINI
VII SEM,ISE

BRANCH TOPPERS
ODD SEMESTER

CHARANYA V
I SEM,
MBA

RENU M
III SEM,
MBA

HARSHITA VISHWAKARMA
III SEM,
MCA

PAWANI TUNGANA
III SEM,
CSE

SHEETAL CHAHAL
V SEM,
CSE

SHARATH KUMAR
VII SEM,
CSE

SHRUTI S
I SEM,
MTECH(CSE)

SUVIKA K.V
I SEM,
MTECH(CNE)

RAKSHITHA T
III SEM,
TCE

AKSHAY PRABHU
V SEM,
TCE

S.GOWTHAMI
VII SEM,
TCE

MEGHA K.M
I SEM,
MTECH(TCE)

VEENA MOHAN
III SEM,
MTECH(TCE)

VARUN K
III SEM,
CIVIL

APPORVA RAJAN
V SEM,
CIVIL

ZEESHAN SAYEED
VII SEM,
CIVIL

NAMITHA
III SEM,
ECE

KRITHIKA S
V SEM,
ECE

DIVYA S
VII SEM,
ECE

INDU RANI
I SEM (DE),
MTECH(ECE)

POOJA AIAPPA
I SEM (VLSI),
MTECH(ECE)

RANJITH
III SEM (DE),
MTECH(ECE)

SHRUTI K
III SEM (VLSI),
MTECH(ECE)

PRUTHVI N
III SEM (VLSI),
MTECH(ECE)

KAVYA S
III SEM,
ISE

SAMEENA
V SEM,
ISE

D. PRIYADARSHINI
VII SEM,
ISE

SURAJ R.
III SEM,
EEE

PAVAN K. SHETTY
V SEM,
EEE

ANUSHA A
VII SEM,
EEE

SAI YATINDRA T
III SEM,
ME

MANJUNATH Y M
V SEM,
ME

BIRENDRA KUMAR
SAHU
VII SEM,
ME

RAKSHITH A. C
I SEM,
MTECH(MACHINE
DESIGN)

SANDEEP SHIRASYAD
III SEM,
MTECH(MACHINE
DESIGN)

NIHARIKA GUPTA
I SEM (P CYCLE),
BASIC SCIENCE

NIDHI PODDAR
I SEM(C CYCLE),
BASIC SCIENCE

EVEN SEMESTER

RENU M
II SEM,
MBA

MANASA REDDY
IV SEM,
MBA

PRASANNA C. D
II SEM,
MCA

AISHWARYA R
IV SEM,
CSE

S. JAYASHREE
VI SEM,
CSE

POOJA KAUL
VIII SEM,
CSE

TEJASHREE S
II SEM,
M.TECH(CSE)

SADIA SUROOR
II SEM,
M.TECH(CNE)

AKSHAY PRABHU
IV SEM,
TCE

S. GOWTHAMI
VI SEM,
TCE

VASUDHA A.B
VIII SEM,
TCE

VEENA MOHAN
II SEM,
MTECH(TCE)

LAKSHMI R
IV SEM,
MTECH(TCE)

NANDHINI R.T
IV SEM,
CIVIL

ZEESHAN SAYEED
VI SEM,
CIVIL

CHANDANA
REDDY
VIII SEM,
CIVIL

SONAL RAKWAL
IV SEM,
ECE

SUMAN B
IV SEM,
ECE

DIVYA SAMPATH KUMAR
VI SEM,
ECE

SAI DEEPTHI
VIII SEM,
ECE

ANURAGA R
II SEM (DE),
MTECH(ECE)

SHRUTHI
II SEM (VLSI),
MTECH(ECE)

TANMOY PAUL
IV SEM,
ISE

D. PRIYADARSHINI
VI SEM,
ISE

ASHISH RAJ
VIII SEM,
ISE

NIRANJAN SINGH
IV SEM,
EEE

MANJUNATHA S.A
VI SEM,
EEE

ASHWINI T. V
VIII SEM,
EEE

VISHWAS B.S.
IV SEM,
ME

ABHISHEK K
VI SEM,
ME

RAVI KUMAR RAI
VIII SEM,
ME

CHETHAN BABU C
II SEM, ME
MTECH (MACHINE DESIGN)

SPARDHAA

PHYSICAL EDUCATION

Sporting events motivate students to inculcate positive attitudes, self-motivation, the ability to face any eventuality and many such noble qualities apart from providing better physical and mental health.
At CMRIT, it has been the tradition to provide constant encouragement to students by organising sports events all around the year and consequently, our students have won medals at the state and national levels.

SPORTS EVENTS IN CMRIT

VTU TABLE-TENNIS TOURNAMENT, 2015

The college played host to the VTU Table Tennis Tournament on the 7th and 8th of September. The tournament saw an unprecedented display of splendid sportsmanship, camaraderie and talent. The tournament had a great number of participants with 11 colleges for the men's and 5 for the women's. The result of the mens tournament concluded with MSRIT taking the pole position and BIT clinching second place.
The women's tournament ended with BNMIT sweeping the trophy and with BMSCE as runners up.

ANNUAL SPORTS DAY

The annual sports day of CMRIT was held on 2nd April 2016, in the campus grounds. The event was inaugurated by our honourable Chief Guest Mrs. K. Shashikala and Guest of honour Mrs. Bindu.

The day began with a spectacular march-past presented by the different departments of CMRIT, after which, students with significant sports achievements handed over the torch to the Chief Guest, who flagged it off.

The students and staff who won the interdepartmental sports events were presented with trophies and medals. The MBA department was declared the best team in march past and the overall trophy was bagged by the Mechanical department. After the prize distribution ceremony, the Sports day was declared open by the Chief Guest.

Along with students, the faculty of our college also participated in various sports events with great enthusiasm. They were joined by our Dean, Principal and Vice Principal who actively participated in a few events. Finally, the Sports day concluded on a note of happiness, glory, the pride of winning and the sportsmanship of students and faculty.

INTER DEPARTMENT SPORTS

CMRIT truly believes in the saying, "All work and no play makes Jack a dull boy," by encouraging students to always put their best foot forward in various sports activities. This academic year was a proof of just that. Glorifying the diversity of the infrastructure in the CMRIT campus, Inter-Department tournaments were conducted, where the Inter-Department Basketball match found winners in the Mechnical Department, Cricket was taken away by the Telecom Department and Football was won by the Basic Science Department, just to name a few. The Womens' Inter-Department Throwball match was won by the ECE Department. Even the Faculty put their enthusiasm to the task and had events like Table Tennis, Chess, Volleyball and Throwball to name a few. Such events and a constant encouragement in various forms like Martial Arts and Skating classes, encourage the students and faculty at CMRIT to preach and believe that a sound mind, is always in a sound body.

SPORTS TEAMS OF CMRIT

Athletics

Boys Hockey Team

Boys Cricket Team

Boys Basketball Team

Boys Football Team

Girls Volleyball Team

Girls Basketball Team

Girls Hockey Team

Girls Table Tennis Team

Kabbadi Team

Boys Volleyball Team

Swimming Team

Girls Throwball Team

SPORTS ACHIEVEMENTS

CMRIT's Cricket Team won the UVCE Cricket Tournament held at Bengaluru university Cricket Ground.

CMRIT 's Girls Hockey Team participated in the VTU Hockey Tournament on April 2016 and secured 3rd place.

CMRIT's Girls Basket Ball Team secured 4th Place in VTU Basketball Tournament, 2015

CMRIT's Girls Hockey Team secured 4th Place In VTU Hockey Tournament 2015.

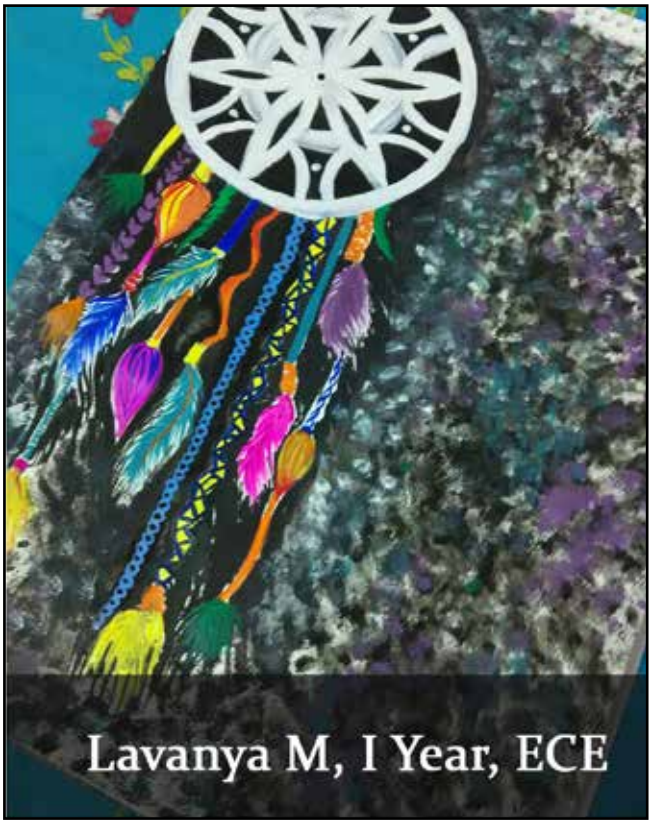
Siddharth E S (1st Sem Mech Branch) participated in the 71st South Zone inter State badminton championship, 2015 held at the Rajiv Gandhi indoor stadium, in Pondicherry U.T from 30th September to 3rd October, 2015 and secured second place.

CMRIT's Football Team participated in the Haji Nabi Shariff Memorial Tournament held at Ghousia Institute of Technology on 22nd and 23rd September, 2015 and secured 2nd place.

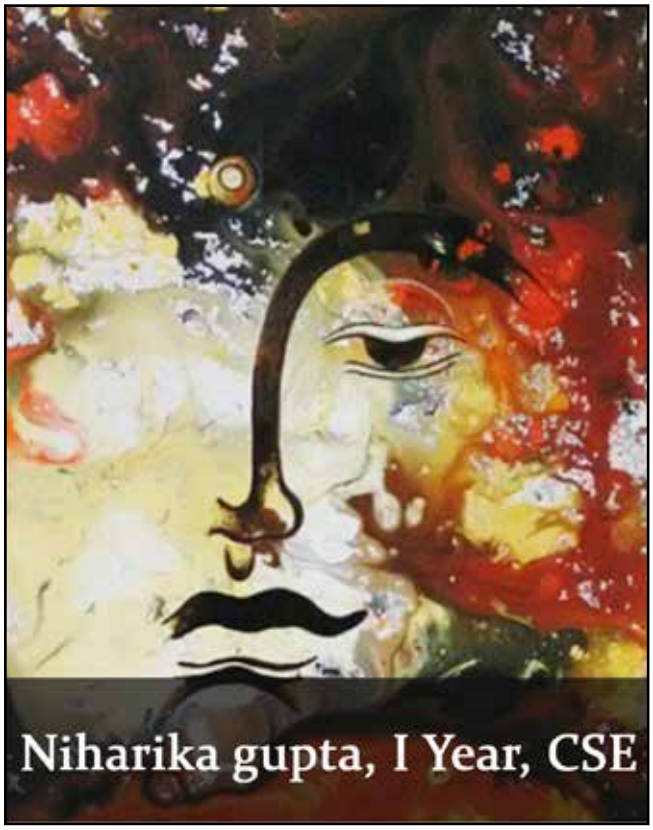
CMRIT's Volley Ball Team Runner Up in State level MVJ College Volley ball Tournament, 2015.

KALAKRITI

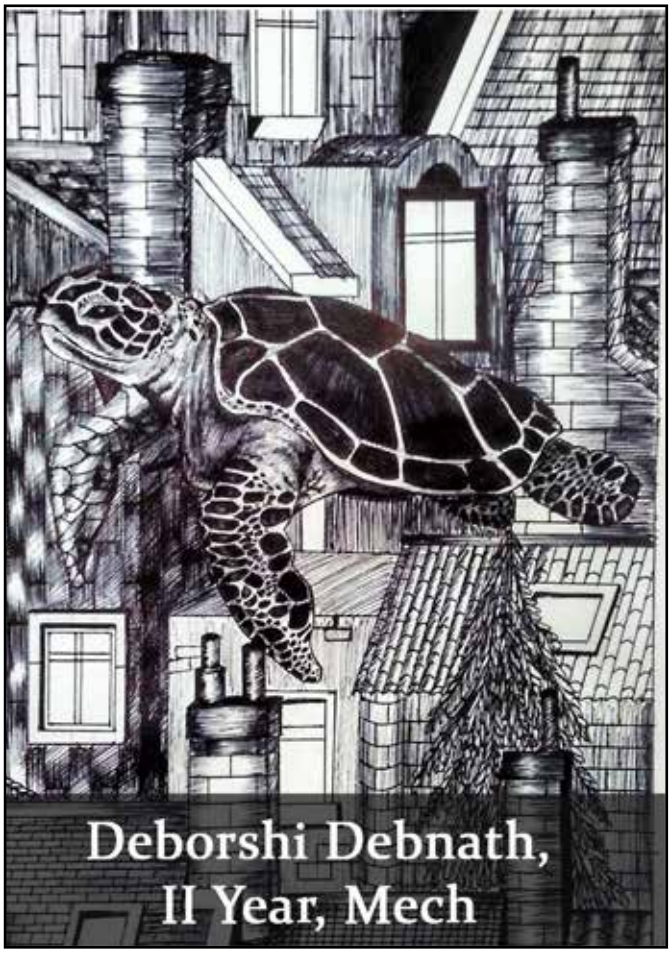
Moumita Roy, Assistant Professor,
MCA Dept



Lavanya M, I Year, ECE

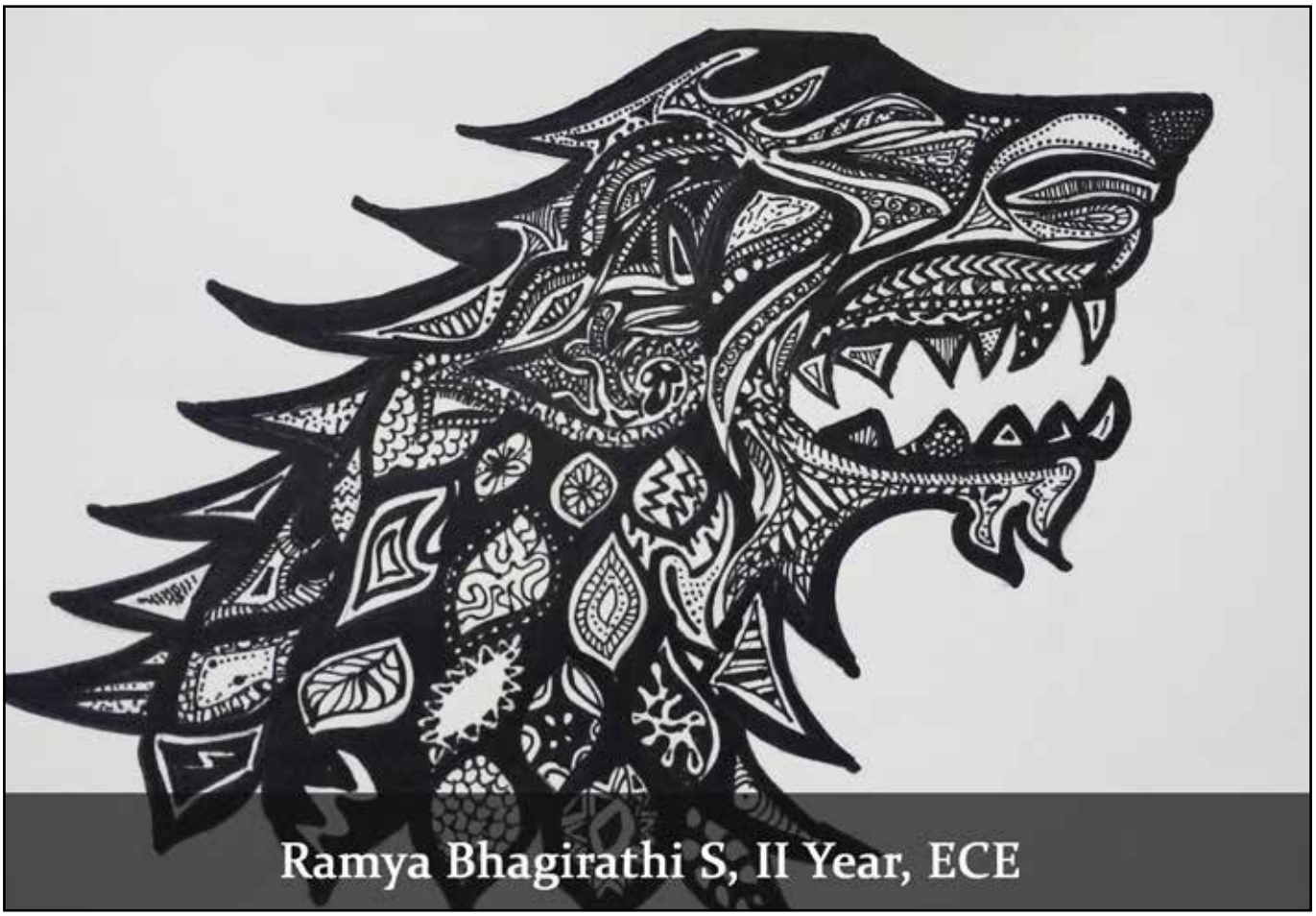


Niharika gupta, I Year, CSE



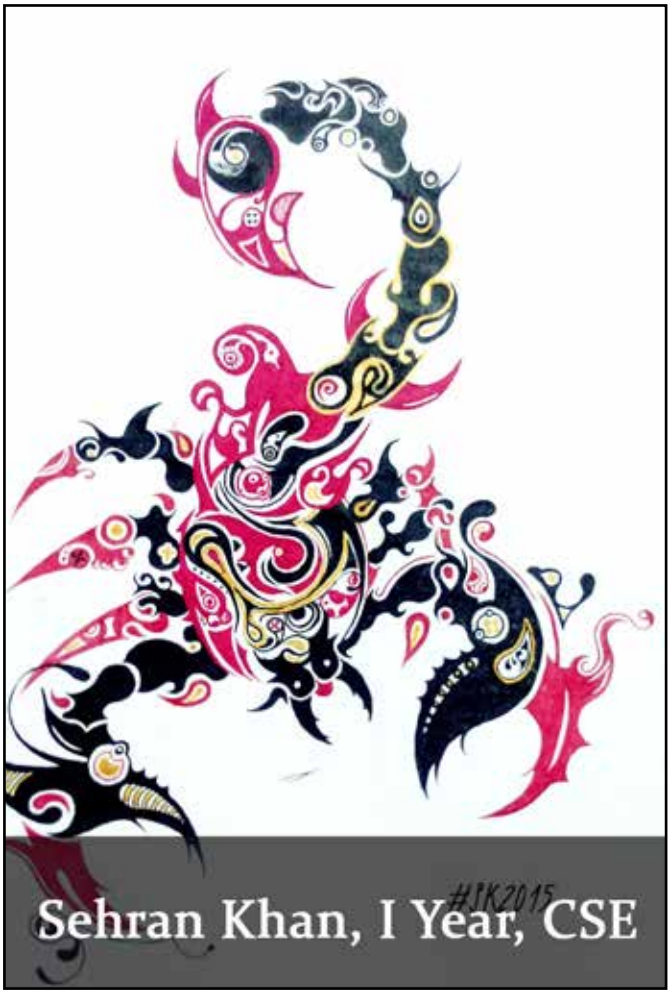
Deborshi Debnath,
II Year, Mech

Lohith A.,
III Year, Mech

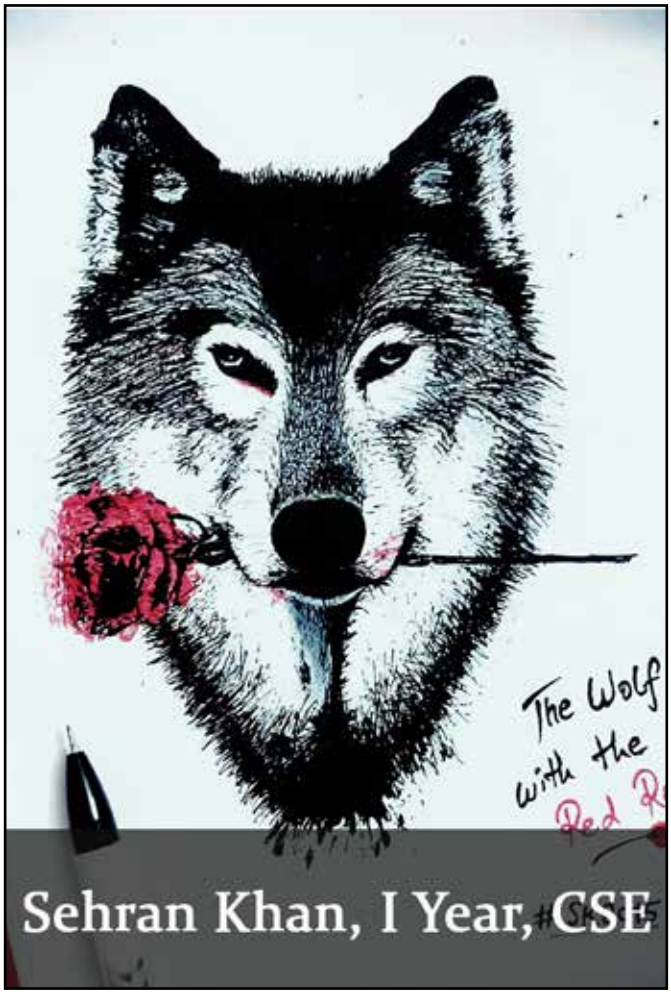


Ramya Bhagirathi S, II Year, ECE

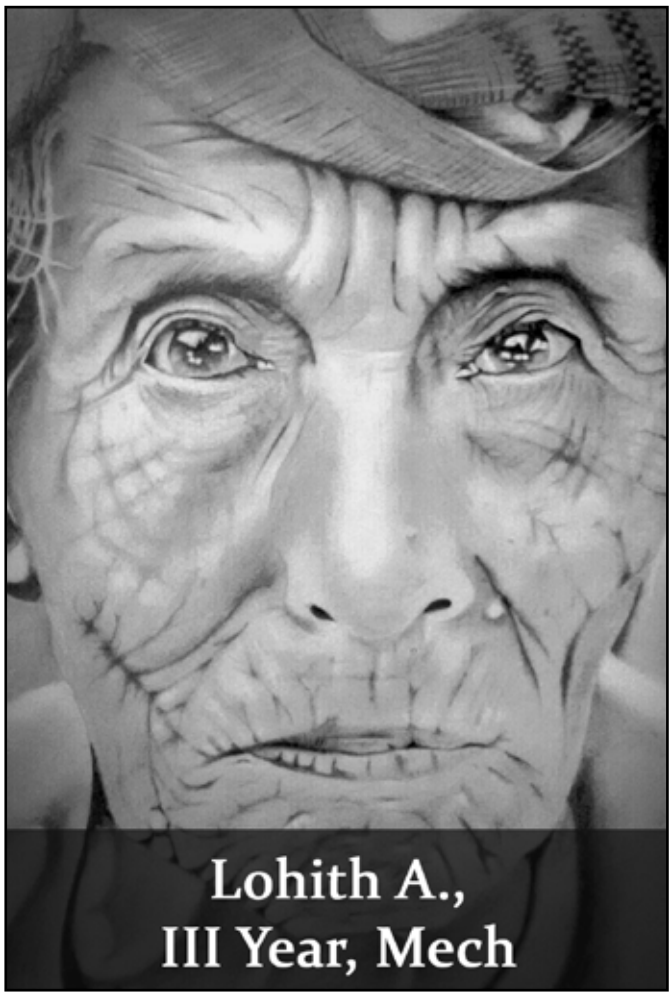
Radhika Vinod Kumar, IV Year, MECH



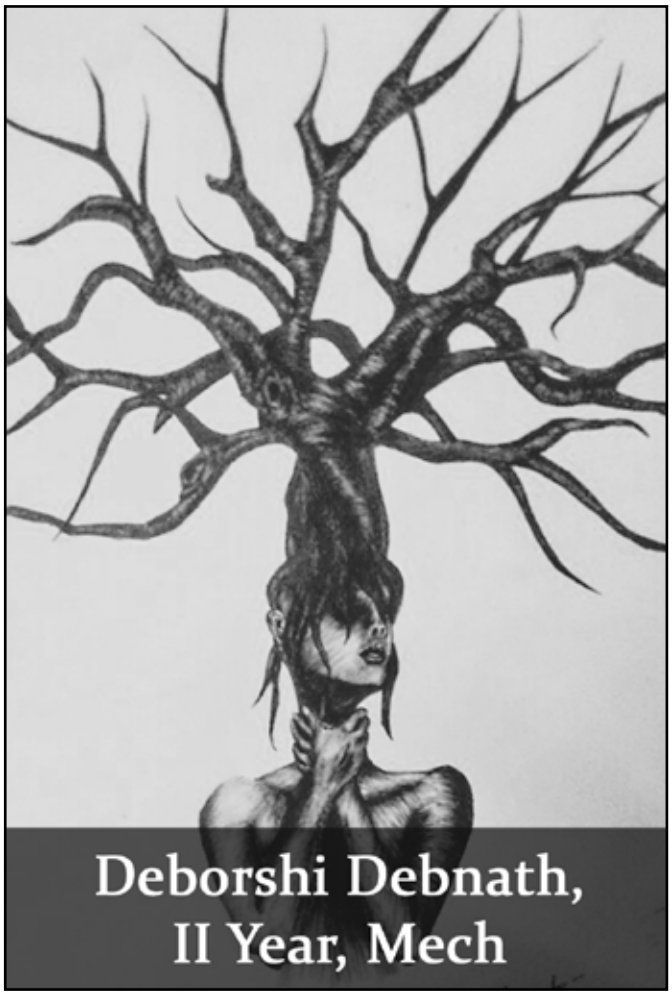
Sehran Khan, I Year, CSE



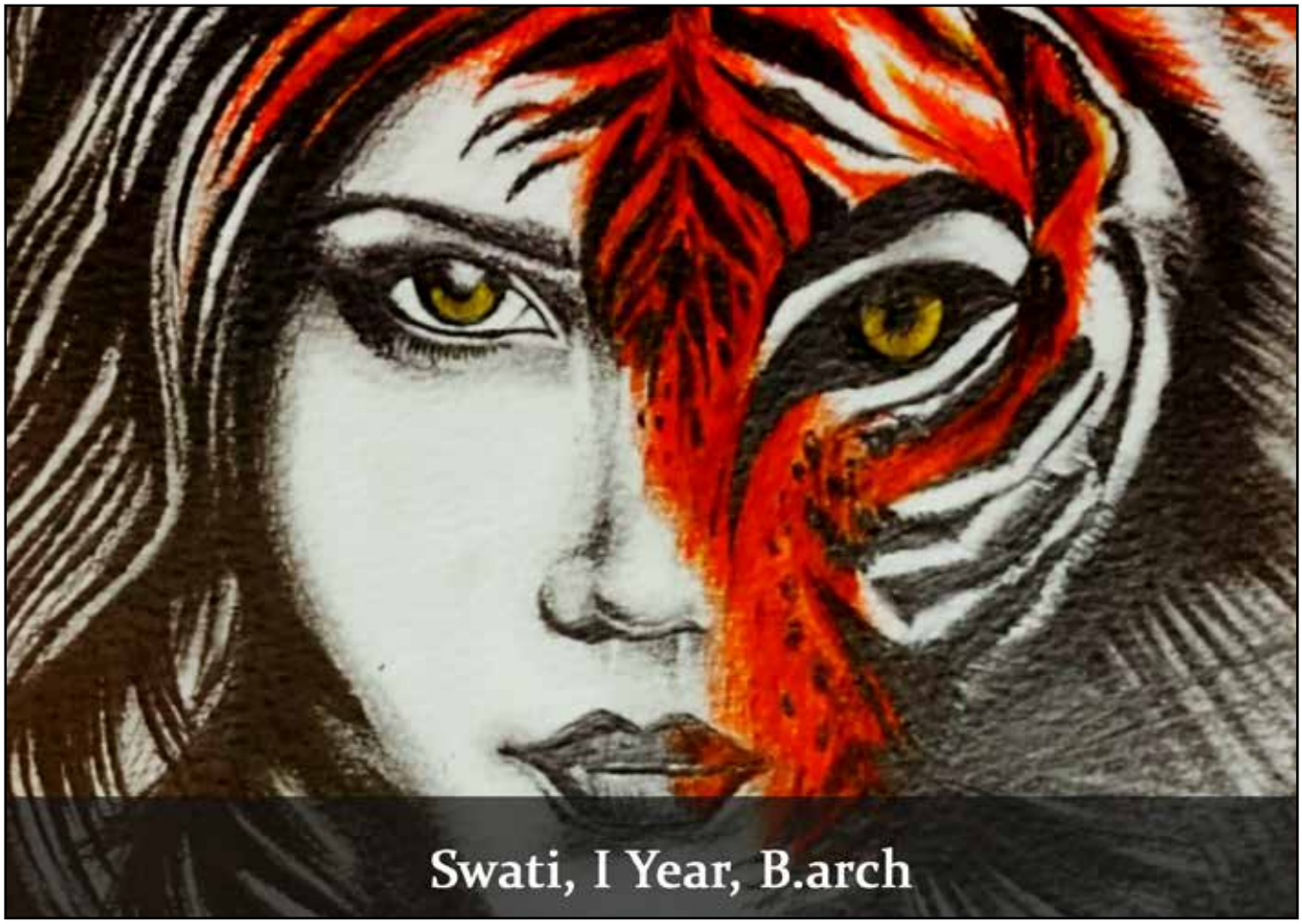
Sehran Khan, I Year, CSE



Lohith A.,
III Year, Mech



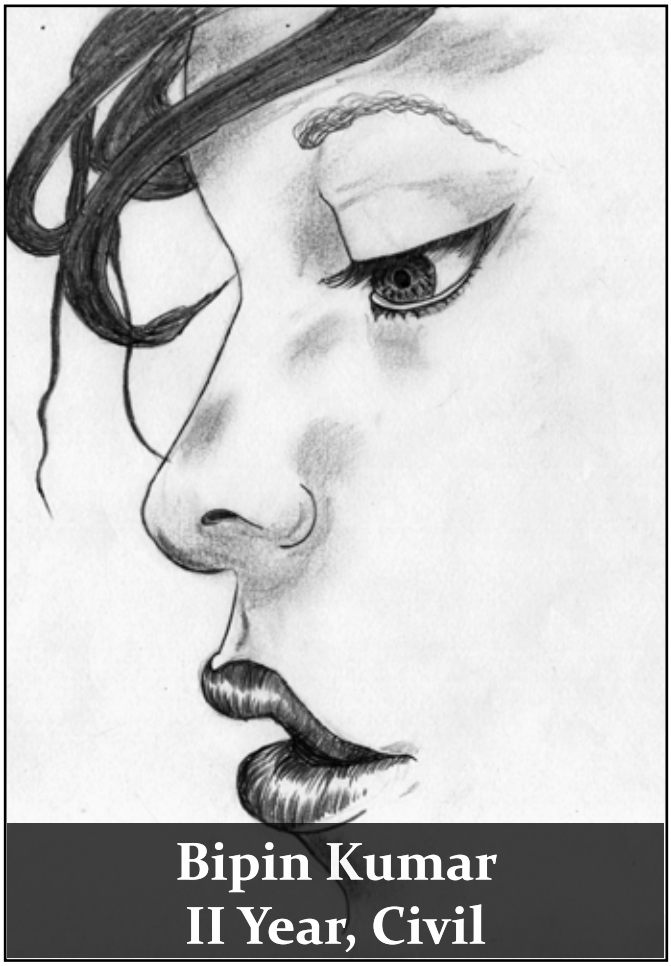
Deborshi Debnath,
II Year, Mech



Swati, I Year, B.arch

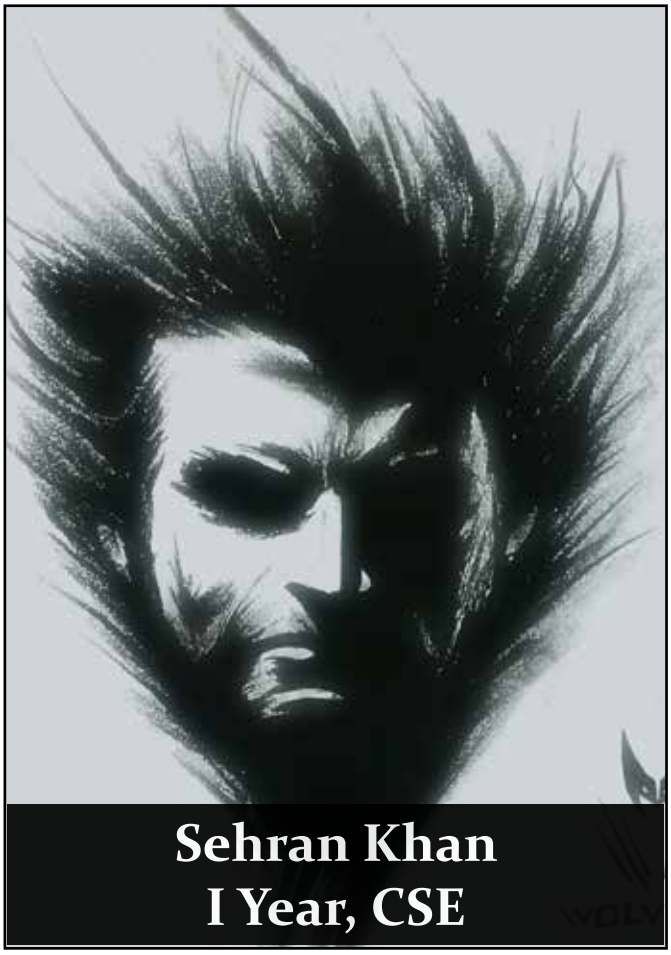
Shivam Malik
III Year, CSE

Sagar Sharma
III Year, ECE

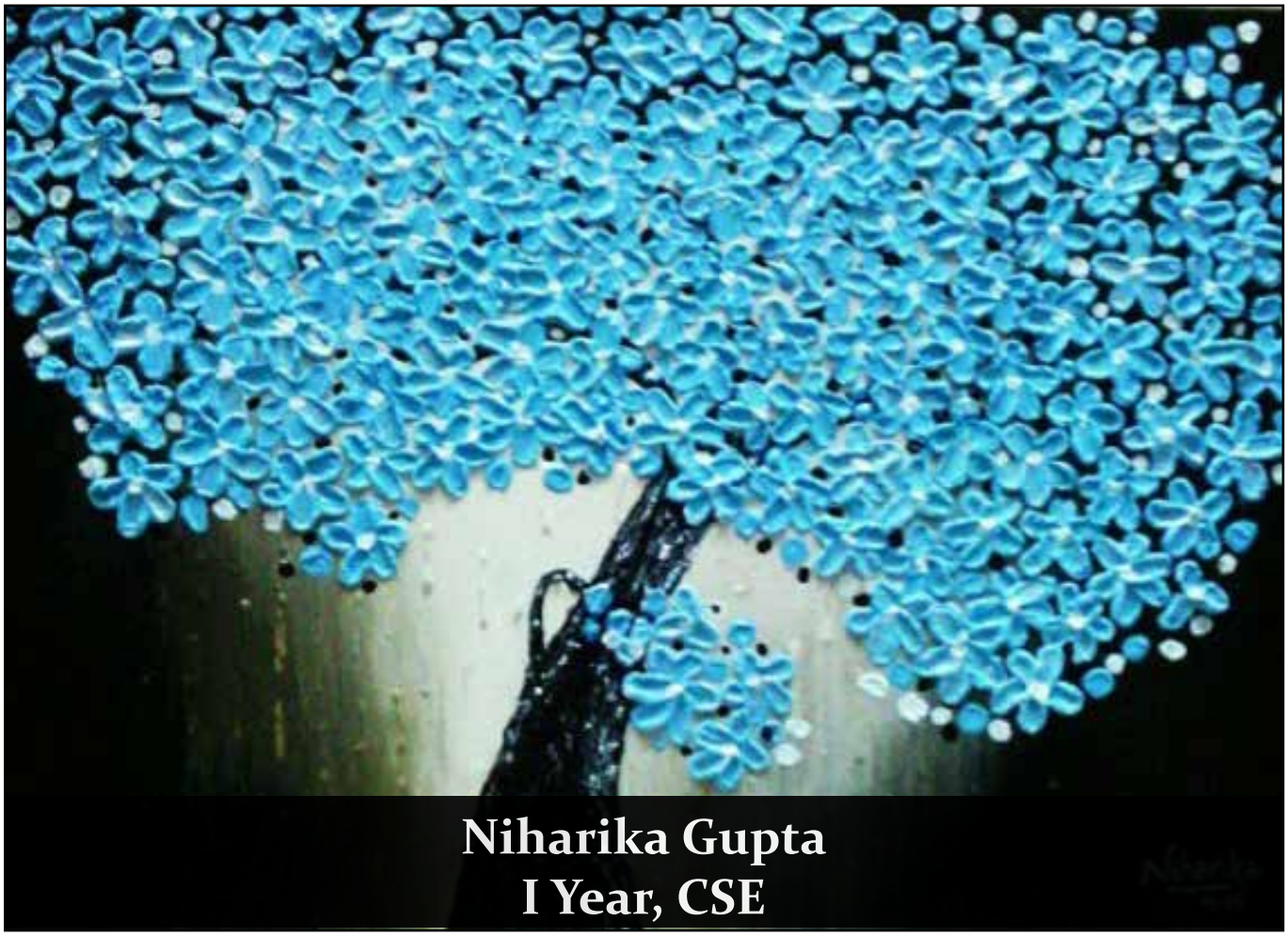


Bipin Kumar
II Year, Civil

Ramya Bhagirathi S
II Year, ECE

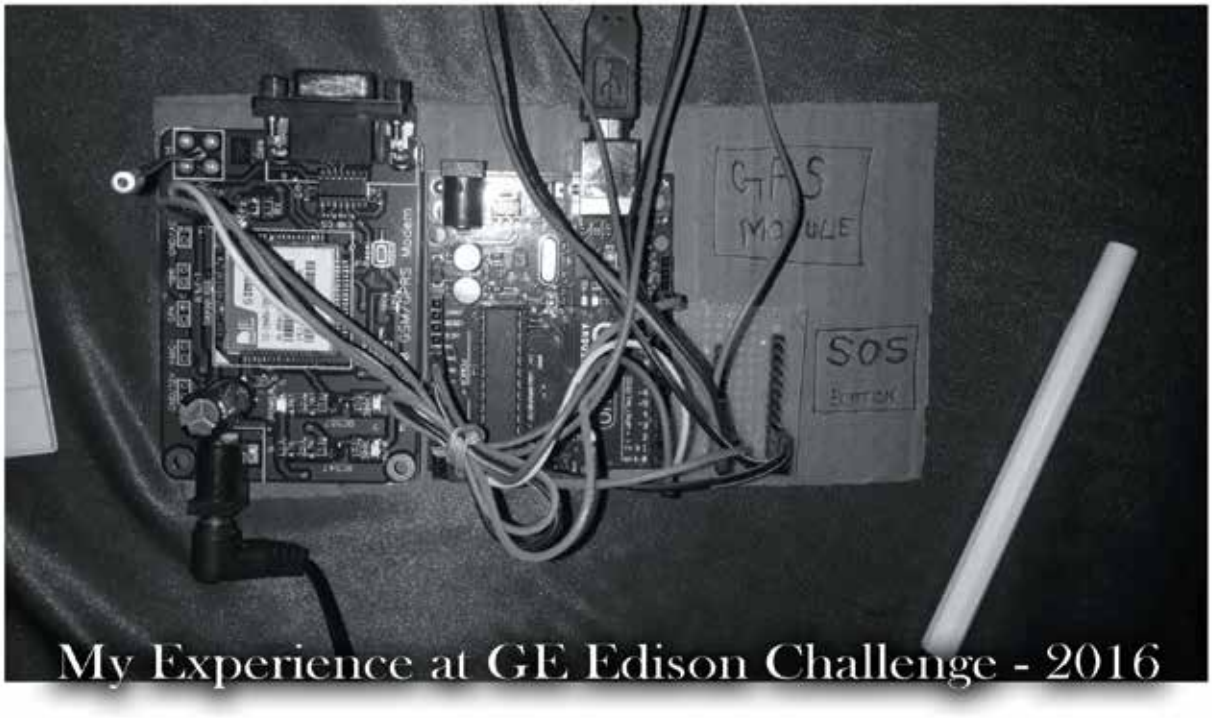


Sehran Khan
I Year, CSE



Niharika Gupta
I Year, CSE

RACHANA



In the first week of January we received an e-mail from the Dean of our college regarding the GE Edison challenge 2016, during which I was working on a project that aimed at saving thousands of lives in road accidents. Since one of the topics for the competition was healthcare and transportation, I thought of giving it a try. In February we received a mail that our project was selected for the next round, so we were quite excited and started working on the prototype and the detailed report of the project. After a week of hard work we finally submitted the detailed report. Our hard work paid off when we made it as finalists for the GE Edison Challenge - 2016. We were one of the top 25 finalists out of the total 350 teams that participated and were now at par with institutions like IISc, IITs and NITs. Every week posed a challenge, from attending teleconferences where we were terrified with rules, regulations and sudden surprises to making an entire working prototype at a Make-a-thon within 6 hours at the finals.

We wrote our internals on the 15th and we had to check into Ginger hotel, Whitefield before 5 pm. After 7 pm we had an opportunity to meet our SPOC, Ms. Shruthi Ajay, and from there we took a bus to attend a networking dinner where each team had been requested to give an elevator speech about their project. We had great food and the chance to interact with CTO (GE India), our mentor Mr. Rahul Srivatsa and other seniors of GE. The next morning after a sleepless night we were taken to GE John F. Welch Technology Center, Bangalore where we immediately kicked off our prototype building. All our required components and tools were provided. Fortunately we finished our fully working prototype within 5 hours and had spare time for intense testing of our prototype to avoid any flaws during demonstration in front of the jury. So inevitably, we were the first in line. After 20 minutes of interesting explanation to the jury and a Q&A session, the judges seemed really impressed with our concept. We eagerly waited for the results of the makethon and were disheartened when we didn't find ourselves in the top five for the grand finale. We went back disappointed to our hotel rooms and comforted ourselves with the thought that making it to the top 25 itself is our greatest achievement. The next day we had to stay for the grand finale and our journey of the GE Edison challenge 2016 ended with undeterred positivity.

It was an experience to cherish. Being among the youngest teams, we had also been requested by the media to give an interview. We learned a lot and got to mingle with amazing personalities and people from other backgrounds and colleges. We are proud to say that we gave it all our best and hopefully have given our college a national identity to stand out as one of the best institutions in the country.

- C.J. Anoop

II year, ISE

(This was one among many projects mentored by Dr.Phani Kumar Pullela, (Professor) Chemistry Dept.)

'Modern day' Newtons

"Patch Adams" starring Robin Williams is a movie worth watching! Not because it won a couple of Oscars or is based on a real life story, but for the message. Robin Williams is a medical student in the film and he notices that medical education has become bookish and realizes that practical knowledge is missing. People reading this article may not be aware of "Patch Adams" but a similar logic was communicated in "Munnabhai MBBS" starring Bollywood's Sanjay Dutt. Which is a class example of practical education verses bookish education. Let's look at the trends of great entrepreneurs in the world and find out whether practical knowledge is the reason for their success. We keep hearing stories about how the ideas for Google, Facebook, Apple etc came out of dorms of Harvard, Stanford or MIT. People also say that most successful entrepreneurs are college dropouts. Hewlett Packard was founded in a car garage. Steve jobs had the concept of Macintosh in a garage. Google founders had to meet a dozen investors before one saw the potential of it. Finally, the world's most incredible entrepreneur, Richard Branson, the CEO of Virgin Group was branded as an unsuitable child for school, due to autism and ended up doing most of his education at home. Mark Zuckerberg, Bill Gates and Steve Jobs are college dropouts. Is dropping out of college, staying in dorms, possessing autism, or starting a company in a garage the keys to success? No!

Sir Richard Branson has worked as a paper boy, Steve Jobs had taken up an interior design course in which he learned about designing things and our modern day computer keyboard was designed by him. Zuckerberg was so fascinated by his idea that he dropped out of college to start a company, HP founders did not have enough money to rent an office and converted their garage into a lab to build concepts of printers. The famous "Post It", the yellow colour label was created by a 3M employee, which till date has garnered about $50 billion in sales, was created in his free time.

We study that an apple fell on Newton's head and he ended up discovering gravity. Well, Steve Jobs, Richard Branson, Sara Blakley etc are the 'Modern Day Newtons'. The moment they get an idea, they refuse to rest until it is tested and realized. The zeal to do something is so much that they often violate fundamental beliefs of society like 'a college degree is essential', 'a company should be started after having enough experience or money' etc. Self-belief, going off the track, trying new things, dreaming big, ignoring impedances, taking undue risks, venturing into unknown territories, redefining the boundaries of business etc are the characteristics of these Modern Day Newtons.

Look at the CEOs of Flipkart, Snapdeal, Commonfloor, Jabong, Urban Ladder, Ola Cabs etc. One thing common for all these 'Modern day Newtons' is their core technical capability and deeper subject expertise. The Ola cabs founder spends most of his day coding to improve the app's user experience, Richard Branson bought an island and works from there, and Flipkart founders are hard-core coding people from IIT Bombay!

If somebody would have said that furniture can be purchased from a mobile phone about five years ago, people would have laughed. The founder of 'Urban ladder' recently revealed that he visited many furniture shops, observed customers' buying experience and noticed that the models liked by users are never available in the shop physically and usually ordered from the catalogues and realized that a website or a mobile app where people buy furniture by seeing a photo could be a viable idea. The 'Bla Bla car' and 'Redbus' came out of students who could not get a ticket to travel back to their hometown for holidays!

Look at what these 'Newtons' can do: Ola cabs had about five hundred cabs and 3000 rides per day about three years back and just by identifying one area that 'cab booking experience for a user is as pathetic as it can get' and addressing it, they have now 10,00,000 cabs on their 'roles' and offer on average five million rides per day and the company's valuation is comparable to great Indian companies like Mahindra & Mahindra/ Dabur! Uber, the cab app giant present across eighty countries is struggling only in India due to 'Ola'. OLA is expected to create about 20 million cab entrepreneurs ('Cabpreneurs') over the next five years with a monthly income of over Rs.75,000.

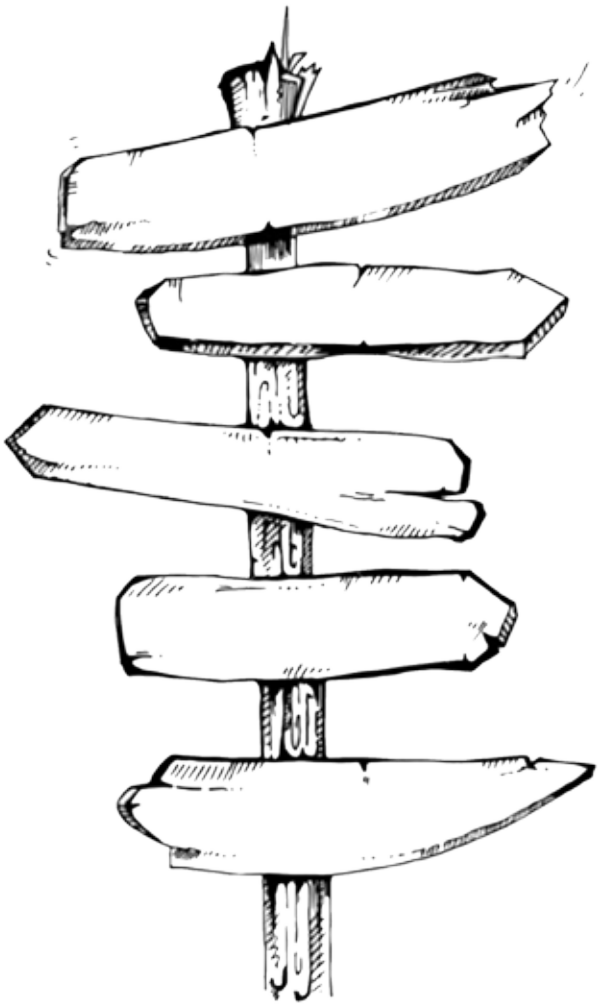
Many of these 'Modern Day Newtons' are Indians and we can hope to see many more of them in near future. By providing them the right platform and encouragement, we can mould a new India from the present, one that shall reach a new milestone of wonder and development, setting a new benchmark for centuries to come.

-Dr. Phani Kumar Pullela
Professor, ,Chemistry Dept.

PERKS OF BEING A GROWN UP

It's funny how everything seemed like a fairytale
When we were little kids
We got everything in the blink of an eye
There was always someone to give it all to us.
I remember,
Daddy used to sing to me when I couldn't sleep and
Mum used to hold me every time I cried.
That was my safe and sound, little world.
I couldn't wait to taste the perks of being a grown up,
Now I'd give anything to go back in time.
I feel so unprotected and exposed
We're all forced into a rat race, to get on top
And grab everything that we can set our eyes on.
There's not even a minute to have fun
Now,
When my mind runs, I toss and turn till I fall asleep
And when I'm miserably low, I just cry into my pillow.
My safe little world is starting to crumble after every blow.
As I grow, I learn about some harsher realities,
I don't want to taste anymore perks of being a grown up.

-Alibha
IV year, ECE



CROSSROAD

On the crossroad, where people come and go,
we met, you and I.
Our paths crossed,
when many have simply missed each other.
We look at each other in sincerity,
with our visions fixed on the future.
No matter what happens,
as long as we share the journey together,
I'm filled with courage inexplicably.
We can surmount any difficulty,
as we watch out for each other.
The red sky that fills the sunset.
The erstwhile vow has been,
attracted by the deep brown blue.
In the long road ahead, the deep love keeps growing
I hope it will stay as it is for the days coming.

-Anirban Ghosh
II year, EEE

THE TRAVELLING WRITER

The sun grips the horizon,
Setting on the sulking bay,
and he grabs hold of his Led-guitar,
The one he never, ever learned to play.
The road seems like an empty room,
and I know he'd like to stay.
But it's okay,
he's going to move on, anyway.

A troubled spouse- a broken house,
and a concsience turning blind.
A perfect place, to fall from grace,
settles down upon his mind.
What's he all about? What's forgot?
and does poetic justice rhyme?
Is left to find.
But he's moving on, anyway.

A travellin' writer, He doesn't know where anyone's heading to.
A travellin' writer, He's got a lot to say but nothing to do.
Like a flickering lighter, a lonesome fighter. Is it true?
That you'll find a bit of him, in you?

A dearth of faith, a fear of wraith,
and a rush of blood and spleen.
Makes him type, yet all in spite,
about places he's never been.
Writes cursive lies and brags in bold,
about things he's never seen.
But in the end,
he still moves on, anyway.

A million-and-three fancy words,
aren't good enough to address,
the feelings he should bludgeon out,
amongst memories uncaressed.
A lack of lines runs down his spine,
and he lacks his bit of rest.
Yet he's impressed,
and he's going to move on, anyway.

A travellin' writer, he doesn't know where he's heading to.
A travellin' writer, he loves silly hats and cheap tattoos.
Like a flickering lighter, a lonesome fighter. Is it true?
That you'll find a bit of him, in you?

-Satwaik Sihi
II year, ECE

YOU STILL HAVE A LONG WAY TO GO

An envisaged life she lives,
A charming personality she breathes,
An elegant beauty she posseses,
Yet life mocks her and says,
"You still have a long way to go."

She peals the Plaster of Paris off her face,
and bestows upon herself her best
She was done living in a shell
Yet life mocks her and says,
"You still have a long way to go."

She tried killing the mist
She withered scrambles,
She encountered indignant ,unjust
Yet life mocks at her and says,
"You still have a long way to go."

The lion within her roars,
Lets go off the past,
and too relieved to grieve,
Life mocks her and says,
"You still have a long way to go."

-Mada Pratyusha
I year, ECE

ಇದುವೇ ಕೆಲವರ ಹಣೆ ಬರಹ

ಮುದ್ದಾದ ನಗು, ಸೊಗಸಾದ ಅಳು, ಪುಟ್ಟ ಪುಟ್ಟ ಹೆಜ್ಜೆ,
ಸೊಟ್ಟ ಸೊಟ್ಟ ನಡುಗೆ, ಶುರುವಾಯಿತು ಈಗ ಅದರ ಕತೆ.

ಮೂರಕ್ಕೆ ಮಾಂಟೆಸರಿ, ನಾಲ್ಕಕ್ಕೆ ಪ್ರೀಕೇಜಿ,
ಐದಕ್ಕೆ ಯೂಕೇಜಿ, ಬೆನ್ ಮೇಲೆ ಹೊತ್ತಿಗೆ ಆರ್ಕೇಜಿ.

ಒಂದನೆ ಕ್ಲಾಸಲ್ಲಿ ಒಂದಕ್ಕೆ ಬಿಡುವಾಗದಷ್ಟು ಓದು,
ಎರಡನೆ ಕ್ಲಾಸಲ್ಲಿ ಎರಡ್ಲೊಂದ್ ಎರಡು ಬಾಯ್ ಪಾಠ ಮಾಡು.

ಮೂರಕ್ಕೆ ಬಂದರೆ ಸಾಕು, ಶೇಕ್ಸ್‌ಪಿಯರ್‌ನ ಗ್ರಾಮರ್ ಕಲಿ,
ನಾಲ್ಕೈದು ಶತಮಾನದ ಹಿಂದಿನ ಚರಿತ್ರೆಯ ತಿಳಿ.

ಆರ್ಯೇಳರಲ್ಲಿ ಸಿದ್ಧತೆ – ಹೈ ಸ್ಕೂಲ್ ಮೆಟ್ಟಲು ಹತ್ತಲು,
ಎಂಟ್ ಒಂಬತ್ತರಲ್ಲಿ 'ಆಕಾಶ' ಸೇರು – AIPMT, JEEಗೆ ಸಿದ್ಧತೆಯಾಗಲು.

ಉಶ್‌ಶ್‌ಶ್..... ಮನೆಯಲ್ಲಿ ನಿಶಬ್ಧತೆಯ ಕಾಪಾಡು,
ಹತ್ತಾರು ದೇವರನ್ನು ಪ್ರಾರ್ಥನೆ ಮಾಡು.

ಯಾವ್ದಾದ್ರು ಕಾಲೇಜ್ ಸೇರು, ಟ್ಯೂಷನ್ ಚೆನ್ನಾಗಿದ್ರೆ ಸಾಕು,
ದಿನಾ ಹನ್ನೊಂದ್–ಹನ್ನೆರಡ್ ಘಂಟೆ ಓದಲೇ ಬೇಕು.

ಹಿರಿದಾದ CET, JEE, AIPMT ರಾಂಕು,
IIT, NIT, ಮೆಡಿಕಲ್ ಕನಸು ಚೂರು, ಚೂರು.

ಇಂಜಿನಿಯರಿಂಗ್ ಇಷ್ಟವಿಲ್ಲದಿದ್ದರೂ, ಮೆಡಿಕಲ್ ಆಸೆ ಇದ್ದರೂ,
ಕುರಿಗಲು ಹಿಂಬಾಲಿಸುವಂತೆ ಕೊನೆಗೆ ಇಂಜಿನಿಯರಿಂಗ್ ಸೇರೂ.

ಕಾಲೇಜಲ್ಲಿ ಓದುವುದೇ ಒಂದು, ಕೆಲಸ ಮಾಡುವುದೇ ಮತ್ತೊಂದು,
ಪ್ರೀತಿಸಿದ್ದು ಯಾವುದನ್ನೋ, ಮದುವೆಯಾಗಿದ್ದು ಇನ್ಯಾವುದನ್ನೋ.

Smruthi Jain S. B.

6th Sem, C.S.E

CMRIT's Cultura caters to every taste of creativity. Some of the big names of this production have been fashioned in a way to rattle seats and leave the crowds cheering away to splendor. Cultura'16 has managed to entice one and all with a plethora of enthusiasm and vibrant excitement indulging events. In its 8th edition this year, 44 events that were conducted saw participation from over 120 reputed institutions across the country. The total cash prize for this year's fest was Rs. 3.5 Lakhs. Beckoning all budding Chanels and Alexander McQueens, and the ramp-walk fanatics was The Fashion Show. For the grooving and bone breaking dance enthusiasts, Bop Til' You Drop was an open arena. Music, being a form of expression to bring the entire world to stage, couldn't be left far behind. Battle Of Bands strum a chord of excitement undoubtedly and as if that wasn't all, Cultura '16 had its own Mystique Canvas Crate, set to bring about an element of mystery for the artist within everyone. It catered to the interests of all the technically adept to start from scratch and build their idea in a 24 hour Hackathon.

Cultura brought forth an extravagance like no other with sponsors Empire, GetBuddy, Identiti to name a few and online registration partner explara.com.

It managed to stage exuberance year after year and this time, succeeded to be better. If the events promised to challenge abilities, the trivia of food stalls were certain to feast a blazing appetite and tangle taste buds.

True to its essence, Cultura'16 managed to stage an experience like no other and fashionably set a new benchmark.

THE ORGANISING COMMITTEE

EVENT COORDINATORS

Keerthi Gopalakrishnan
President, Student Council

" 'It is good to have an end to journey towards, but it is the journey that matters, in the end.'
A four year long journey, encompassing the most cherishable moments, experience of extreme value, learning that moulds one's character, from Cultura'13 to Cultura'16.
With every rendition pacing up the treads of the ladder of success, the gradient of quality work was becoming rather too steep. I have had the opportunity of working for Cultura every year, in posts much different from the previous ones, each throwing a different set of challenges at me.
Holding true to general expectations, Cultura'16, saw adroitness in the fields of Dance, Music, Drama, Art, Photography, Fashion, and Technology. Every hidden talent received a platform for it to be evinced.
In the true sense, Cultura brings with it a time of excitement, exploration, fun, frolic, endless tricks, late night discussions, team work, and joy that leave us with a lifetime of memories. Whilst the previous editions set their own benchmarks, Cultura '16 did not just strongly stand up to all expectations, but also catered to diverse interests. It sure was a paradigm of an ideal fest to every individual- owing to which it saw participation from over 117 colleges, the maximum recorded by far.
Organizing a fest might seem hunky dory and full of perks. However it demands twice the amount of dedication, responsibility, and maturity to keep it up to snuff.
The Cultura '16 organizing committee worked harder than one can imagine. It turned every unturned stone, brought together hundreds of students, and worked towards a common goal. This gave the right push, encouragement and support that the team needed on the hardest of days.
I thank each and every student, faculty member, and the management for their endless support in this most memorable journey through four editions of Cultura. Brimming with nostalgia, I would like to wish the best to all the editions of Cultura to be held, and to every junior stepping into the responsible shoes of organizing a fest as memorable."

Manasa D Patgar
Cultural Secretary

"Being a part of Cultura encouraged me to make Cultura'16 one of the biggest and among the best fests in the city. Our seniors had set a high benchmark and we took it upon ourselves to make it better than its previous editions.
With all the guidance from my seniors and immense support from my team, we managed to pull it off and make Cultura'16 a grand success.
I see Cultura as an opportunity to learn. I learnt a lot of things by engaging in planning, strategizing, organizing, coordinating, generating sponsorship, taking responsibility for each and every element of the fest. The months of hard work, dedication and determination transformed me into a new individual- a leader.
I could visualize the dream I had every day as I moved around the stage, ground and auditorium.
The most memorable part of Cultura'16 was Raghu Dixit live in concert and the DJ night by Aerreo. Dreams turned to reality right in front of my eyes, as massive crowds turned up on both days of the fest. A true moment of bliss, all our hard work paying off.
Cultura'16 shall always be a beautiful memory, giving me one of the best experiences of my life.
I thank each and every one who was a part of Cultura'16 and I know that my juniors will carry forward the legacy and pride of CMRIT by taking Cultura to greater heights."

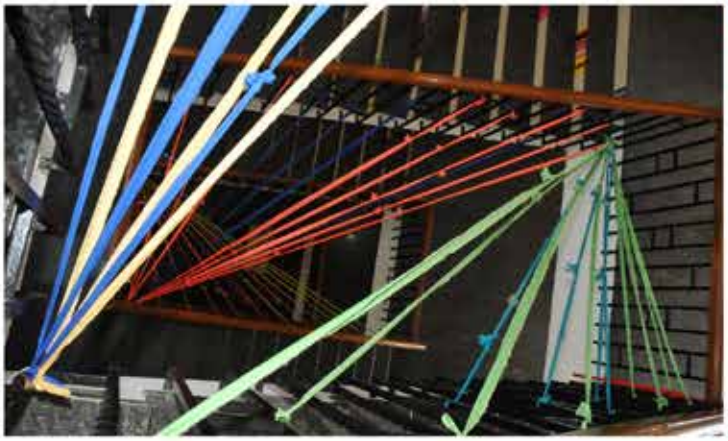












tura'16

KRITHARTH

DEPARTMENT of MBA

It was never my intention to be an MBA graduate. I joined the course on the advice of a few of my mentors and well wishers. After thinking about all the interests I had, I decided that I would specialize in Human Resources. Having made this choice, the only decision pending was which college I would choose to pursue the course. That is when I came across CMRIT's MBA department. It didnt take long for me to connect with this institution. The college focuses on the all-round development of a student. The faculty and management impart in us the practical knowledge needed to thrive in the outside world.They made sure we received all the training needed to acquire the skills that we required.

The journey has been an amazing one, I've changed a lot, learnt a lot, experienced a lot and implemented a lot. I transformed from being a student to a professional, and it has helped me immensely in all aspects of my life. I'm very grateful to CMRIT and all the faculty members who have made me the person I am, today. Thank you.

- Aditya R Reddy
MBA-IV SEM (HR)

Graduating is just the beginning of a lifetime of learning. As students, we have to prepare for new challenges waiting in our lives. Being a student of the MBA Depatrment in CMRIT is a privilege. The faculty went out of their way to help us build our fundamentals and gain practical experience through our internships.
I would like to conclude by saying, "Give a man a diploma and he will feed himself well. Give a man an education and he will feed a village"

-Rohit Ravindran
MBA-IV SEM
(MARKETING)

DEPARTMENT of MCA

Krushi (6thsem) JustDial –Software engineer.

Krushi was a Sports Coordinator as well as Placement Coordinator.

"Being a placement coordinator, I have attended a lot of interviews. In my view, students have to open up and be confident during the process. The key factors that decide the outcome of an interview are confidence, knowledge and honesty.
Companies look for well-rounded, wholesome employees. In order to develop these qualities, one has to take up the Prepare Program seriously. Building contacts is really important and the key to making this happen is by being more interactive."

Girish (6th semester) shared his experience as an M.C.A student. He was a part of the CMRIT Mad Ads Team called the 'Mad Heads'. This team has won innumerable awards.

"Taking up M.C.A in CMRIT has been one of the best decisions I've ever made. I had the chance to meet some amazing people. CMRIT provides a great platform to express one's talent along with the avenues to discover new flavours of life. Super-friendly and supporting faculty members enable an environment where every type of art is nourished. The passion I had has increased to a directed pursuit with a solid foundation. Hailing from a rural background, the exposure I found here has transformed my life!
I am proud to be a student of M.C.A at CMRIT."

DEPARTMENT of CSE

Millions of memories, thousands of inside jokes and hundreds of classes spent laughing till we couldn't laugh anymore. Only one reason for it all- I had the BEST classmates. Looking back to the Orientation Day 2012, four years went by exceptionally fast. It was nothing short of excitement, joy, seriousness and of course, plenty of emjoyable classes! I remember being very excited and nervous on my first day. I was at the college gate at 6.45 am, probably the only time in 4 years. I wasn't the only one to show up so early that day- that's when I knew the next 4 years were going to be just fine.

My first year started slowly. We spent the first few months learning the names and faces of our classmates, trying to find our place amidst the vast ocean of people. All of us- a bunch of strangers put together in a class, became friends very quickly. Getting through the monstrous viva in Chemistry lab and laughing at the shapes- if I can even call them shapes which we made in the Workshop lab is what comes to mind now.

We waved goodbye to Chemistry and Physics and entered second year, welcoming the core subjects we wanted to learn. We had officially arrived at the Computer Science Department. My biggest challenge was climbing five floors every day, which is quite a feat to achieve at any point in the day let alone early in the morning. I also got to meet and interact with an amazing set of seniors; people I love and will never forget. They made it their mission to take Club Activities and Cultura to a whole new level. None of it has been the same since.

Things became a lot more exciting at the start of my third year. Despite having harder subjects, monotonous labs and the assignments, being a part of Cultura and the club activities, were my favourite parts of the year. Being a part of Cultura'15 was an amazing adventure. I loved the chaos, anxiety, nervousness and excitement that I got from organizing the Treasure Hunt with my best friends. I had never before seen my juniors so excited to be a part of this journey! We even had Sunburn perform live during Cultura'15. What a night that was! The craziest thing I did in all my Engineering life has to be the all-nighter my friends and I pulled to complete our mini-project. Now that's the kind of time management and teamwork that one can only learn from CMRIT!

And then, in what seemed like the blink of an eye, I was in my final year. This year was undoubtedly the best; walking around the campus as goofy seniors, reminiscing the old days, wondering where time had gone, and being proud of having good attendance. Placements, seminars, reviews, internships, and mass bunking- these sum up my final year perfectly.

I feel privileged to have been taught by some of the best educators including the Principal, Dr. Sanjay Chitnis, the HOD, Mrs Swathi Y . and the most supportive and patient teachers.

I feel lucky to have been a part of the CSE 2016 Batch. Years from now, wherever I am, wherever we all are- these are the memories that I will cherish.

So, here's to the nights that turned into mornings with the friends that turned into family.

-Savitha Shankar
IV year, CSE

DEPARTMENT of TCE

So many of our dreams at first seem impossible, then they seem improbable, and then, when we summon the will, they soon become inevitable.

This is a time to reflect upon the 4-year journey that we have just finished, which represents what, at times, has been one the most challenging and rewarding experiences of our lives as we now start our journey as the custodians of our nation's youth and future.
I don't know about you, but I have come a long way from where I started.
I remember my first day here, I was a lost child . College seemed like a great deal. I was anxious about the kind of people I would meet, the kind of knowledge and experiences I was going to gain and, gradually, as the days passed by, everything started falling in place.
CMRIT has not only helped me achieve a BE degree, but has taught me so many valuable life lessons and has made me realize that anything can be achieved if you gain a positive outlook towards life. And of course, none of this learning would've been possible if it weren't for the friends and amazing teachers that have had my back through it all.

Our telecomm teachers have been so supportive and amiable throughout, even though sometimes, we did cross our limits, which I'd like to apologize for, on behalf of all my peers. Hats off to you guys for being able to handle such a rebellious and an overenthusiastic batch. I'd especially like to thank our HOD, Mrs Sharmila, for being patient and complying to our needs whenever possible.
My batchmates are truly a multifaceted and energetic set of people . Be it learning concepts in class, going for road trips, finishing assignments or even studying in groups a night before the finals, we've been through it all. I especially will not forget the days I've been a few minutes late for first hour and I've run across the field and climbed four floors just to make it to class for my attendance. It felt like an achievement when I was actually able to get in before the doors closed. We all got accustomed to our own niche and now it's time for us to come out of it and explore the outside world further. As we go on, we remember all the times we spent together and as our lives change, come what may, we will always be friends forever.

-Alisha Sanjeev,
IV year, TCE

DEPARTMENT of ECE

What is more important? What we become or how we become it?

We only arrived at CMRIT four short years ago, and now it is already time to leave. It seems like only yesterday that we were skinny little freshmen fighting for food over the canteen counters, trying to figure out where our next class was. Now we are the super-seniors, who stand here ready to graduate and move forward in our lives. Yet at this seminal moment, we can't help looking back.

How do we measure the time we've spent in college? In the beginning, we measured it in class periods, counting down the day to eventual freedom. As the days and weeks passed, we measured it in semesters, and later in years as we moved from being clueless freshmen to becoming sophisticated graduates who thought they had it all figured out.

Now here we stand. Our rule is over, and it is up to the next batch to step into our shoes and take over. I know that as I look back, I will measure my time here with all the friendships and memories I've enjoyed these last four years. When many of our college memories begin to fade, we'll ultimately measure the time we spent here, not in periods or semesters or years, but in terms of memories involving people we forged lifelong friendships with.

We have all worked hard to get to this point, but we didn't do it by ourselves. We owe a huge debt of gratitude to our teachers for selflessly sharing their time, talent and knowledge with us. What they have done for us went much beyond the call of duty. They took the time to explain assignments, sometimes repeatedly because we weren't paying attention. They were always available after college for any extra help we needed. They demanded excellence from us by setting the bar high and challenging us to live up to it. Thank you, teachers.

And to my dearest friends, who are graduating- hearty congratulations! Let us use our knowledge and our hearts to stand up for those who cannot stand for themselves. Let us be, a beacon of light for those whose lives have become dark. Let us fight the good fight and be an ambassador for the kind of world you want to live in. May we not follow where the path leads. May we go, instead, where there is no path and leave a trail.

As to my wonderful juniors, your time is limited here; so don't waste it living someone else's life. Don't let the noise of other's opinions drown out your own inner voice. Most importantly, have the courage to follow your heart and intuition. Each and every second of these four years is really special, so make beautiful memories and cherish it for a lifetime.

I hope your dreams take you to the pinnacles of success. Share your sparkle wherever you are.

-Sneha Benjamin,
IV year,ECE

DEPARTMENT of EEE

Four years in this mighty institution have flown by swifter than wind. The time I've spent here has only helped me shape up to become a better individual and in this moment of farewell, I am grateful for it all.

I would like to thank the entire staff of CMRIT for encouraging and guiding me throughout my academic career. I will always have the deepest regards for the faculty of the Department of Electrical and Electronics who helped me at each and every step and stood by my side. These were definitely the best days of my life. This everlasting experience of a student's life will always be special to me and I can only thank my parents, teachers and my friends who've been the strongest pillars of strength throughout.

-Sandeep Kumar,
IV year, EEE

DEPARTMENT of ISE

After graduating with great memories and experiences from CMR PU College, I had high hopes with CMRIT. A dedicated faculty, talented classmates and inspiring seniors, a great campus and captivating co-curricular events ensured that all my expectations were met and exceeded. It is not surprising to see CMRIT is one of the best colleges in Bangalore.

As daunting as college life may seem to a fresher, settling into CMRIT was never really a problem. The seniors were friendly and eager to get to know their juniors,this combined with a beautiful campus and ample opportunities to connect with fellow students, ensured a comfortable environment in the college. The college canteen will always house some of my fondest memories.

The highlight of CMRIT was definitely it's faculty. Being highly qualified and possessing excellent communication skills goes a long way in driving the students to achieve their true potential. All the teachers were very approachable and ready to help, be it inside or outside of class.

I will miss CMRIT and all the fun I had at college fests, ethnic days and other events. The experience I had here is something that I will cherish forever.

-Saral Anand,
IV year, ISE

DEPARTMENT of ME

They say words cannot portray a journey because certain experiences need to be lived and words alone cannot express them. These 4 years were exactly that.

It all started with the inauguration day about 4 years ago; new place, new people, new obstacles, new lessons and new friends.

Looking back, it was the little things that made this journey so memorable and the things I've dreaded that have made college life worth the time spent here.

Running into campus to make it for the first hour, the strict teachers and lab sessions to the infamous Parent Teacher Meetings. They are all experiences to look back upon "fondly".

The following 3 years were easily my favorite for a single reason, Mechanical Engineering. I wanted to pursue this for two main reasons: my obsession for automobiles and to follow in my father's footsteps.

I express my sincere gratitude to our HoD and entire faculty of our department for helping us through every step of the way.

To all my friends, thank you for making these 4 years so enjoyable! Endless hours chatting away in the canteen, aimlessly walking on campus and the gossip sessions. All this shall be cherished.

To my fellow last benchers, class would've been hell if it wasn't for you guys and how we drove our teachers crazy. The bond we share is going to last a lifetime!

A special thank you to our Dean Dr. HN Shankar for all the motivation, suggestions, care and most importantly for believing in me and always being a friend. A lot of what you've told me will always be remembered.

When I embarked upon this journey, I didn't realise there was so much in store for me. The things that I've learnt about life have taught me what books never can.

It was indeed a journey of a lifetime and I wish everyone the very best for all their future endeavors. The road ahead might not be this smooth, but go on and give it everything you've got. Farewell graduating class of 2016!

Thank you for the all bittersweet memories CMR Institute of Technology. Adios! You will be missed.

-Radhika Vinod Kumar,
IV year, ME

DEPARTMENT of CIVIL

Mid 2012- the most crucial point of my life. I was baffled with the choice of colleges I had to choose from to pursue my Civil engineering course. The Civil department of CMRIT has the most energetic, lively, enthusiastic and passionate faculty who strive hard to impart the knowledge and skills required for us.

Innumerable guest lecturers from the industry, umpteen industrial visits and constant encouragement to take up internships - all of these have shaped me into an engineer, in the true spirit of the word.
The faculty made sure we understood each and every concept. I admire their zeal and dedication towards the institution and its students as they were always available even after college hours just to clear our doubts.

The additional workshops held in the college, such as the hands-on experience of using the total station, an advanced course on Autocad, etc. helped us bridge the gap between academia and industry.

I will miss the three years I have spent in this wonderful department, and its fantastic faculty members, who endeavored to ensure that their students would reap success, after graduating.

-Mohammed Zeeshan Sayeed
IV year, Civil

DEPARTMENT of ECE (M.tech)

Studying at CMRIT for two years has been an exhilarating experience. An unmatched academic vigor, combined with a zeal for pursuing excellence in extra-curricular activities- this sums up the atmosphere at CMRIT. The sincere effort of the faculty who do their best to bridge the gap between industry and academics makes this institution stand apart from the rest.

The two years I spent here were marked with the rigorous courses taught wonderfully by the PG ECE faculty. Our department encouraged and facilitated our internship programs, which added immense value to our portfolio, enabling us to understand the intricacies of the corporate world, and helping us acquire the experience to deal with the same.

I admire CMRIT for their ambition, and the drive to pursue excellence in every new endeavor. It is this same wavelength of ambition that inspires students and faculty alike. It certainly drove me to perform at the best of my abilities.

Thank you, CMRIT for all the fantastic memories, knowledge and drive for success that I now leave with.

-Charan Kumar,
II year, ECE(M.tech)

DEPARTMENT of TCE (M.tech)

I stepped into CMRIT as a post graduate student in the year 2015. After a year-long learning experience, I feel empowered to understand and harness my potential and emerge as a well-rounded individual. The M-Tech program has influenced both my personal and professional progress. The course provided me with a strong foundation in the fundamentals of digital communication.

Another feature of the program is the practical work involved in the courses, seminars and thesis-writing. The resources, opportunities and connections that I've received are invaluable assets that will benefit me for many years to come.

CMRIT is one of the top engineering colleges in Bangalore. Knowledgeable faculty members, sound infrastructure, balanced curriculum and the right approach towards teaching methodologies makes CMRIT stand out of the crowd.

-Swathi Sharma,
II year, TCE (M.Tech)
(Digital Communication)

DEPARTMENT of CSE (M.tech)

One cannot believe how two years have passed so quickly. It seems like just a few days ago that I joined this college.

Having taken a break from studies for a few years after engineering, returning to college made me a bit nervous. On my first day, I met a couple of my classmates in the lobby.

All my classmates and I bonded very quickly irrespective of age, language and the cultural backgrounds we belonged to. We made a great team. Our faculty members were very friendly and guided us throughout. The seminars and workshops conducted in the department were very informative.

The day of our photo shoot was one of the most memorable days of our course. All of us were dressed gracefully. We had taken a significant amount of time to get ready and we capitalized on it by taking plenty of pictures.

I am proud to say that my classmates and I stood together through all the hard times.
Ours was the first batch for which VTU introduced internship and we were all intimidated instantly. But it turned out to be great experience for all of us. The internship period gave us an insight about life in the corporate world. We learnt many things about new technologies.
I am really thankful to this institution for all the wonderful opportunities and memories.

-Swathi Sridharan
II year, CSE(M.Tech)
(CSE)

DEPARTMENT of ME (M. tech)

The journey began in 2014 when I returned to CMRIT to pursue my post-graduation after completing my under-graduation in 2013.

Celebrating the birthdays of our faculty members and friends, the last minute preparation for presentations, running around for notes the day before exams, strategizing for exams, Rajyotsava celebrations, Ethnic day, Cultura and Sports day are the memories I cherish the most.

Our faculty members were always ready to help us in our academics, projects and all-round growth. I consider myself blessed to have had such wonderful people guiding me throughout the duration of my course.

I thank CMRIT for all the opportunities given to me which gave me the chance to showcase my talents.
CMRIT is indeed a golden chapter in my life!

-Chetan Babu
II year, ME(M.Tech)
(Machine Design)

MEDIA COVERAGE

అత్యధిక మార్కులు సాధించిన విద్యార్థికి జ్ఞాపికను అందజేస్తున్న రామలింగారెడ్డి

సాక్షి, బెంగళూరు: సిలికాన్ సిటీగా ఖ్యాతిగాంచిన బెంగళూరు ప్రస్తుతం ఎడ్యుకేషన్ సిటీగా కూడా దేశ వ్యాప్తంగా గుర్తింపు సంపాదించుకుంటోందని రాష్ట్ర రోడ్డురవాణా శాఖ మంత్రి రామలింగారెడ్డి పేర్కొన్నారు. నగరంలోని సీఎంఆర్ఐటీ కళాశాలలో సోమవారం నిర్వహించిన 'అకడమిక్ ప్రోగ్రామ్-2015-16' కార్యక్రమంలో రామలింగారెడ్డి ముఖ్య అతిథిగా పాల్గొన్నారు. ఈ సందర్భంగా ఆయన మాట్లాడుతూ...ప్రస్తుతం అంతర్జాతీయ స్థాయి విద్యాసంస్థల సంఖ్య నగరంలో రోజురోజుకు పెరుగుతోందని అన్నారు. ఈ కారణంగానే వివిధ దేశాల నుంచి విద్యాభ్యాసం కోసం నగరానికి వస్తున్న విద్యార్థుల సంఖ్య కూడా పెరుగుతోందని పేర్కొన్నారు. ఇక విద్యార్థులు చదువుతో పాటు సంస్కృతి, సాంప్రదాయాల రక్షణ, క్రీడల పట్ల సైతం ఆసక్తిని పెంపొందించుకోవాల్సిన అవసరం ఎంతైనా ఉందని అన్నారు. ఈ సందర్భంగా విశ్వవిద్యాలయ పరిధిలో అత్యధిక మార్కులు సాధించిన విద్యార్థులకు జ్ఞాపికలను అందజేసి అభినందించారు. కార్యక్రమంలో సీఎంఆర్ఐటీ కళాశాల ప్రతినిధులు కె.సి.రామమూర్తి, డాక్టర్ సవితా రామమూర్తి తదితరులు పాల్గొన్నారు.

TEDx talks gaining in popularity in City

BENGALURU: The worldwide popularity of TEDx talks and events has spurred organisation of such programmes in the City by various colleges, corporates and individuals.

Joining the fray in the last few years are also a few schools and school students.

PU students of CMR National PU College, Kalyan Nagar, are an excited bunch these days as they are about to organise their first-ever TEDx talk on December 12 called the TEDxYouth@Brookefield.

Sidharth, a PU student and one of the lead organisers, said: "We will be one of the handful of schools in the City to hold a TEDx event. We contacted a few other schools to find out the ins and outs of conducting such an event. A great group of speakers is scheduled to speak and hopefully it will be a good show," he said.

Mallya Aditi International School in Yelahanka holds the distinction of being the first school in the country to have organised a TEDx event four years ago, according to grade 12 student Divyanshu Pachisia. Pachisia was the lead organiser of the a TEDx event that took place in his school this year on December 6. In fact, since 2012, TEDx talk has been an annual feature at the school.

"Students now take it for granted that the event will be held in the school. It is a completely student-organised event. I was in the core team last year and this year I was the head organiser. It is a completely student-run event and for this year we were a team of 25 students from 10 to 12 grades. This was further divided into various teams with particular responsibilities such as getting in touch with speakers and organising the funding. Overall, it was a great experience," said Pachisia.

As many as 65 TEDx events have been organised in the City since July 2010. Of these, around 10 have been organised by school students. The International School Bangalore, Varthur, organised a TEDx talk in 2012. Another TEDx event is scheduled to be organised by students of Green Wood High International School, Sarjapur Road, next year.

DH News Service

ಆಸಕ್ತಿಗೆ ಪೂರಕ ಕೌಶಲ ಕಲಿಯಿರಿ

'Mad Heads'

With a hint of madness

Some of the members of 'Mad Heads'

CMR INSTITUTE OF TECHNOLOGY

Staff and students of CMR Institute of Technology organised a blood donation camp in association with Vydehi Institute of Medical Science and Research Centre, Bangalore & Sanjay Gandhi Institute of Trauma and Orthopaedics in the college campus. In all, 225 units of blood were collected in the day.

రక్తదానం జీవనదానం

CMRIT's Cultura begins with a bang!

Cultura 2015

DC CORRESPONDENT
BENGALURU, FEB. 18

The Raghu Dixit Project, DJ Aerreo and 3D printers for anybody to use - the ninth edition of Cultura, the annual fest at CMRIT, is back with a bang. "We're trying to up the ante even more this year," said Karan Acharya, a student from CMRIT and one of those organising the festival this year.

"Students who have made trinkets and LED keychains with the 3D printers can also sell them on campus during the festival," he said. The organisers are expecting about 1500 people over the course of the two days.

"We're also organising an art exhibition in the architecture block, which is a first for us," said Karan. That apart, the festival includes the Fashion Show, Battle of the Bands, Saorsa - a chance for budding poets to create, narrate and perform their poetry and Paper Wings, an event that showcases original music. The Raghu Dixit Project will be the headlining act today, with DJ Aerreo bringing the festival to a close at what will be his first campus gig. The fest has been sponsored by HackerEarth, GetBuddy and Campus Diaries.

CMR INSTITUTE OF TECHNOLOGY

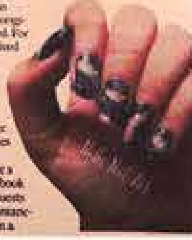
A SPIRITED SHOW OF MYRIAD SKILLS

CMR Institute of Technology: Inauguration of workshop on Entrepreneurship Development by Vice President Investments, Orios, Venugopal Sathyanarayana, CMR Institute of Technology Campus, AV Hall, PG Block, 132, Aecs Layout, IT Park Road, 9 am

Canvas on the cuticle

CUTE A nail art on minions

Nidhi

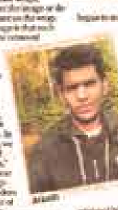


... She had a chance to hone her talent in college as she bagged a few prizes at nail art events during fests. Her skills now have a fine polish and her Facebook page is flooded with requests from friends and acquaintances. "I've never painted on a ...

Anushka Sivakumar

Creative venture

And that's a wrap!



Arjun

'2015-16ನೇ ಸಾಲಿನ 'ಅಕಾಡೆಮಿಕ್ ಕಾರ್ಯಕ್ರಮಗಳ' ಉದ್ಘಾಟನಾ ಸಮಾರಂಭ. ಉದ್ಘಾಟನೆ: ಸಚಿವ ರಾಮಲಿಂಗಾರೆಡ್ಡಿ. ಅತಿಥಿಗಳು: ಸುಮೀತ್ ಜೈನ್, ಕೆ.ಸಿ ರಾಮಮೂರ್ತಿ, ಡಾ. ಆನಂದ ಕೆ ಜೋಶಿ. ಅಧ್ಯಕ್ಷತೆ: ಡಾ. ಸುಬೆಥ ರಾಮಮೂರ್ತಿ. ಸ್ಥಳ: ಸಿಎಂಆರ್ ಇನ್‌ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿ, ಎಇಸಿಎಸ್ ಲೇಔಟ್, ಐಟಿ ಪಾರ್ಕ್ ರಸ್ತೆ. 9.30.

ಸಿಎಂಆರ್ ಇನ್ಸ್ಟಿಟ್ಯೂಟ್ ಆಫ್ ಟೆಕ್ನಾಲಜಿಯ ಉದ್ಯೋಗ ತರಬೇತಿ ಕಾರ್ಯಾಗಾರದಲ್ಲಿ ಫ್ಲಿಪ್‌ಕಾರ್ಟ್‌ನ ಹಿರಿಯ ಮಾನವ ಸಂಪನ್ಮೂಲ ಅಧಿಕಾರಿ ಮೆಕಿನ್ ಮಹೇಶ್ವರಿ, ಸಿಎಂಆರ್ ಜ್ಞಾನಧಾರಾ ಟ್ರಸ್ಟ್ ಅಧ್ಯಕ್ಷೆ ಡಾ.ಕೆ.ಸಿ. ಸಬಿತಾರಾಮಮೂರ್ತಿ ಹಾಗೂ ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲ ಡಾ.ಸಂಜಯ್ ಭಾಗವಹಿಸಿದ್ದರು.

Bellandur Lake gets a lifeline

Four students from CMR Institute of Technology have come up with a prize-winning solution to clean the polluted lake. Here's why it might just work

Prajeet.Nair

It's a new year, but the woes of Bellandur Lake have not changed. In the news for all the wrong reasons, the lake, which covers 148 Km2 catchment area with a length of 3.6 km and 1.4 km width, receives most of the sewage water from Bengaluru. The accumulation of waste of 30 to 40 years and a lack of drainage systems has led to its current sorry state. Four students from CMR Institute of Technology have proposed a solution to clean the lake by developing a 'field-deployable technique to purify Bellandur lake water.' Their project was awarded first place in the 'clean and green Bangalore' category of Ideas for India 2015, a competition conducted by a Universe Health, Education and Environment Trust, a city NGO. The year-long project will be funded by the Universe Trust organisation.

First-year students Shashank Javgal, Vijeth Devang, Avinash Kumar and ... after realising that the existing approach to tackling the lake's pollution may not work. So far, the government methods attempted for the purification of Bellandur Lake have not been scalable in nature or are too expensive to implement, the students believe. These include cleaning the weed/leaves from the lake and plans for implementation of sewage plants to curb pollution from industries.

In their method, the students hypothesised that with rapid industrialisation and urbanisation in Bengaluru, they needed out of the box thinking to purify the lake. Technically, Bellandur Lake water contains two kinds of pollutants — industrial and domestic. The students' work was to purify these, while keeping in mind the scalability and cost. According to Prof (Dr) Phani Kumar Pullela, one of the mentors of ... they will "pump 10,000 litres of water from the lake using a regular water pump". This will be purified in a water purification plant using a multimetal catalyst (fly ash), which they will get "for no cost from different thermal power plants in Karnataka which will settle down the pollutants". Then, the purified water will be pumped back into the lake.

> The plan is to pump out 10,000 ltr every day and purify the whole lake in three years. Bellandur Lake will be pollution-free within five years
> — DR PULLELA

The plan is to pump out 10,000 litres every day and eventually purify the whole lake in three years. By the time the lake's surface water gets purified, the ground level of water will also improve and Bellandur Lake will be pollution-free within five years, they hypothesise. In the next step, the pollutants will be taken to a solid waste treatment plant in the outskirts of the city to be oxidised and released into the atmosphere as gases. According to the ...

From left: Vijeth Devang, Nikhil Kumar, Sashank Javgal and Avinash Kumar

help in taking these pollutants out of the city and getting this thing done." The proposed project targets purifying Bellandur lake water to a typical ground water or canal water level purity. They have so far conducted experiments using 50 gm of fly ash and purified one litre of water within a minute.

Dr Pullela believes the idea is workable because it cleans the contaminated water on the surface, which will eventually lead to the ground level water also being purified. "It won't happen overnight, but eventually the entire lake will be purified," he says. "We have sent samples of the purified water taken from Bellandur Lake to Robustmaterials Pvt. Ltd, which is an analytical service laboratory." H Mallesha, Director of ... idea is doable and can be performed on a large scale. The test reports will be submitted to the concerned government departments soon."

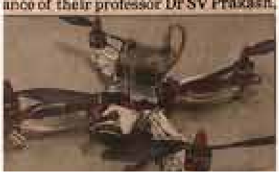
The concern, however, is getting permissions and funds to establish a plant near Bellandur Lake where they can purify the contaminated water. Dr Pullela believes once the project gets a heads-up by the government, they can come-up with plans on where to set up the plant. Environmentalist AN Yellappa Reddy raises another point. "What about the air pollution which will be caused by oxidising the pollutants?" But the Dr Pullela has an answer to that. "The pollution from the oxidisation will be only 1 per cent of the current pollution levels of ...

Students build multipurpose drone to help cops

Times News Network

Bangalore: Four students from CMR Institute of Technology have built a remote control quadcopter for their final year project that aims to help Bengaluru police monitor traffic and carbon monoxide levels in the atmosphere. The surveillance drone is also equipped with humidity and temperature sensors which will help monitor climate changes.

Designed and built by four students, Taha Shah, Vikas Suneja, Jay Bilakhia and Yadhunandan A, under the guidance of their professor Dr SV Prakash.



Placement training

"2015–16ನೇ ಸಾಲಿನ ಅಕಾಡೆಮಿಕ್ ..."

Students build multipurpose drone to help cops

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Designed and built by four students, Taha Shah, Vikas Suraja, Jay Bilakhia and Yadhunandan A, under the guidance of their professor Dr SV Prakash,

SKY IS THE LIMIT

the quadcopter is a final semester project for these students. The drones are easily available in the market in the form of RC quadcopters and DIY kits. "Our main aim was to achieve the build and have a stable flight of the quad. It was fun working with the motors, flight control board, programming and calibration of the different components," the students said.

The quadcopter has good manoeuvrability and agility in the air and can be used to get live video feeds in Bengaluru roads for police that can help in avoiding traffic blocks and congestion. Equipped with carbon monoxide (CO), humidity and temperature sensors, it also helps monitor climate changes.

"At first the quad would just fail to take-off due to failure of calibration or binding of the few components together. We faced a few hard landings while we tested the quad for flight, which resulted in many broken propellers and landing gears. Replacing them was a little hard on our pockets but wanting to see the project through had us driven."

Srikanth Krishna

Ombudsmen to Take Care of Foreign Students in Colleges

To deal with complaints of study and stay of international students

Express News Service

Bengaluru: Universities and higher education institutions in the state have to mandatorily appoint an ombudsman from the next academic year to take care of the interests their international students.

The Karnataka State Council for Higher Education (KSCHE) has finalised the guidelines, based on the recommendations submitted by an expert committee, headed by Dr N R Shetty, former vice-chancellor of Bangalore University.

One of the major recommendations was to appoint ombudsmen in all colleges and universities which admit foreign nationals, to represent their academic and other interests.

Colleges should also mandatorily keep the jurisdictional police stations informed about their international students.

"We have recommended that the college authorities provide complete details of foreign students admitted in their institutes, along with the contact number. This will help even the police keep track of their activities," said a committee member.

The college authorities also need to keep the police informed about the academic performance of the students to avoid unnecessary hassles. "There are cases like drug pedlling where involvement of international students is suspected. In such cases, if the police have academic records of students, then they will double check before initiating action," explained a member.

WHAT COLLEGES SHOULD DO

- Create a separate portal on admission of foreign students
- Strictly monitor attendance. Defaulting students should be reported to the Foreigner Regional Registration Offices
- No extension of visa should be granted beyond the official duration of the programme
- Senior faculty members can be appointed as ombudsman. They should deal with complaints of study and stay

The Karnataka State Council for Higher Education has finalised guidelines, based on the recommendations submitted by an expert committee

ಕೌಶಲ್ಯಕ್ಕನುಗುಣವಾಗಿ ಕೈಗಾರಿಕೆಗಳ ಸ್ಥಾಪನೆಗೆ ಕರೆ

CMR Institute of Technology: Inauguration and Launch of CMRIT - Sherpify Incubation Center, followed by panel discussion, CMR Institute of Technology, AECS Layout, IT Park Road, Kundalahalli, 1 pm.

New system in the pipeline to cut waiting time at signals

Traffic signals will be controlled based on vehicle density: Police

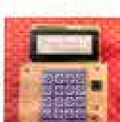
Naveen Menezes

BENGALURU: From just one lakh in 1976 to about 60 lakh in 2016, the vehicle population in Bengaluru has grown at an alarming rate of about 700 per cent in 40 years. But the condition of roads remains the same, especially in the Central Business District (CBD).

The explosion in vehicle numbers has increased the waiting time at traffic signals.

DH News Service

Students' gadget may help cops change traffic lights with remote



DH News Service

Jill of all trades

"I have learnt that one should always be able to paint one's mind. I cannot assemble a patchwork of art abstractly."

Making 3D printing practical

3D printing as a technology may not be new, but the emphasis on growing and expanding its market seems to be growing since the government's Make in India initiative came into being. Leveraging the opportunity, four second year Mechanical Engineering students of CMR Institute of Technology have come up with their own 3D printing machine, which they claim is the cheapest compared to all those that are available in the market. It prints one cubic cm in less than five minutes and is capable of printing a solid cube within 10 minutes.

As part of their engineering project when the students were looking for ideas, their professor Sagar M Bolligidad gave them the idea of building the printer. It took the students a month to complete the project after much research.

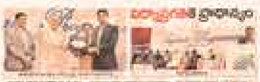
The process of 3D printing a solid three-dimensional object using this printer, involves layer by layer printing, also known as additive manufacturing or desktop fabrication. "It took us 2 months to do the research and it took another 15 days to develop the model. It was quite challenging, yet an amazing experience. We are in the process of developing another printer by using this one to manufacture parts for it. That will help us cut cost," says Manjunath YM, one among the four students.

The project has costed them close to Rs 27000 till now, which is nearly half of what it costs in the market, where the cost is around Rs 47,000. Once they master the model and are successful in building their second product, the students may look at launching it in the market. Though right now the focus is on making it cost effective and as good as any 3D printer available out there. 3D printing plays a key role in the medical industry. It helps surgeons produce mockups of body parts of their patients that needs operation. And with this technology, it is possible to make a part from scratch in a matter of few hours. It also enables developers and designers to move from the flat monitor screen to the exact three-dimensional part.

As the technology grows, it will surely find many more places where it can be used and applied.

AGENCIES

రక్తదానం మహాదానం



ಎಂಆರ್ ರಾಷ್ಟ್ರೀಯ ಕಲಾ ಶಿಬಿರದಲ್ಲಿ ಕಲಾವಿದ ಥಾಮಸ್ ಉಮ್ಲಾಂಗ್ ವರ್ಣಚಿತ್ರ ರಚಿಸಿದರು

ಸಿಎಂಆರ್ ರಾಷ್ಟ್ರೀಯ ಕಲಾ ಶಿಬಿರಕ್ಕೆ ತೆರೆ

ಜಾವಾಣಿ ವಾರ್ತೆ

ಂಗಳೂರು: ಸಿಎಂಆರ್ ತಾಂತ್ರಿಕ ಕಾಲೇಜಿನ ಾಸ್ತುಶಿಲ್ಪ ವಿಭಾಗ ಆಯೋಜಿಸಿದ್ದ ನಾಲ್ಕು ದಿನದ ಷ್ಟ್ರೀಯ ಕಲಾ ಶಿಬಿರಕ್ಕೆ ಭಾನುವಾರ ತೆರೆ ಬಿತ್ತು. ದೇಶದ ವಿವಿಧೆಡೆಯಿಂದ ಬಂದಿದ್ದ 20 ಾವಿದರ 20 ವರ್ಣಚಿತ್ರದ ಕಲಾಕೃತಿಗಳು ಪ್ರದರ್ಶನಗೊಂಡವು. ಸಮಾರೋಪ ಸಮಾರಂಭದಲ್ಲಿ ಕಲಾವಿದ ಎಸ್.ಜಿ.ವಾಸುದೇವ್ ಮಾತನಾಡಿದರು.

ಕೊಲ್ಕತ್ತದ ಮಾಹುತಿ ಚಕ್ರವರ್ತಿ, ಆಂಧ್ರಪ್ರದೇಶದ ಸಂಜೀವ್ ರಾವ್, ಬೆಂಗಳೂರಿನ ವಿ.ಜಿ.ನೇಣು ಗೋಪಾಲ್, ಜೈಪುರದ ಗೌರಿಶಂಕರ್ ಸೋನಿ ಮೊದಲಾದ ಕಲಾವಿದರು ಶಿಬಿರದಲ್ಲಿ ಭಾಗವಹಿಸಿದ್ದರು.

'City is now an important centre for visual arts'

At an art camp, artist SG Vasudev talks of bringing art closer to public

Three students from CMR Institute of Technology have won the IEEE UPP Mini project. The team comprised Anoop CJ , Pavan R and Kushal I, 187 colleges participated in the competition and 10 among them won awards. The judges panel included professors from Georgia Tech, Drexel, Virginia Tech & UCLA.

The idea that the team proposed was called 'Vehicle Safety Module' which transmits information about an accident on the road to a nearby ambulance. The module has an impact sensor which judges the severity of accident and automatically transmits the data.

Rajya Sabha MP D. Kupendra Reddy will take part in founder's day functio of CMR Group today

home for the elderly. The event was marked by a program call 'Ullas', with a cultural perfor ance by 'Sunadha', a troupe of d ferently abled children from t Samarthanam Charitable Trust

On October 3, a 'Teach Transform' session was condu ed by IIMB students for over children from the NGOs Sam thanam and Sahastradeepika, a for children of contract worke in IIMB. A magic show by Ra Krishnan, a life-skills session a storytelling event kept the ch dren engaged.

City College Makes Its Own Makerspace to Spur Innovatio

DO IT YOURSELF

The 1,500-sqft facility will be something between a lab and a builder's garage, where students can experiment with ideas and build prototypes

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» CAMPUS CAPSULE

MR Institute of Technology organized a blood donation mp, in association th Vydehi Institute Medical Science and search Center, Banlore & Sanjay Gandhi stitute of Trauma d orthopaedics on gust 27 at its premes. The Blood Donaon Camp saw active rticipation from stunts, professors, facty and management. otally, 225 units of ood were collected in e day. Dr.Sanjay Chits, Principal of CMRIT id, "If the younger neration come forard to give blood voltarily, there will be dearth of blood orldwide."

"When you donate ood for an unknown rson, the artificial rriers of caste, creed, ligion and languages e automatically deolished," said a do.

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MS College of Engiering and Electron Sector Skills Council India (ESSCI) inaurated the first Center Excellence of VLSI ery Large Scale Integation) and Embedded stem Design in In.ThisThis is a Cenal Government itiative under kill India" unched by ime Minister arendra Modi. K Mohapatra, O, ESSCI, inugurated the ogramme in e presence of N Vidyashan-

President, Indian Electronics and Semiconductor Association (IESA), Dr. Madhusudan Atre, CEO & Founder, Vegashakti Consultants and Dr. K Mallikharjuna Babu, Principal, BMSCE.

ESSCI has developed over 140 Qualification Packs (QP)/ National Occupation Standards (NOS) across 14 subsectors of which Embedded System Design (ESD) and VLSI are key domains absorbing engineers.

Dr. K Mallikharjuna Babu said, "Engineering education has gone through tremendous change and it becomes the institution's responsibility to produce quality engineers. To do that, it is important that we train the trainer. Hence, the Center of Excellence is one such place which will train the trainer to develop the skills that the industries require today."

* * *

Recently, Surana College organized 'Enlightenment-International Year of Light- 2015', an intercollege festival in collaboration with Karnataka Science and Technology Academy.The festival was organised by the college for science students and professionals between the age group of 18 and 26 . The International Year of Light is a global initiative adopted by the United Nations to raise awareness on how optical technologies can promote sustainable development and provide solutions to worldwide challenges in energy, education, agriculture, communications and health.

The festival comprised three main activities: quiz, collage and poster making. Around 66 students from 12 colleges including colleges from Gauribidanur and Kolar participated in the

former Indian Hockey player, Ashish Ballal were the chief guests on the occasion.

Limbavali said that the importance of institutions delivering quality education cannot be stressed enough in this day and age, when education has become more of a commercial enterprise. While praising CMR Group's efforts to reward deserving students from economically weaker sections of the society, he added, "We need more educationists and educated people entering the field of politics and only then will the public stop looking down upon our profession."

Ashish Kumar Ballal, lamenting on the lack of playgrounds in the city, said, "Since a former minister is present here, I would like to use this opportunity to request the government to provide ample space for children to play. Any government notified land available should be converted into playgrounds for the benefit of our youth."

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The students of Trio World Academy experienced the melodies of the violin, contrabass and the harmonium through the SaPa workshop conducted on November 17. SaPa is a syllabus that introduces students to music and presents performances to develop music appreciation and create a strong foundation. The artists of Norwegian musical troupe, Bansal Band, visited the school as a part of the workshop.

Band members Harpreet Bansal, Andreas Bratlie and Prochazka spoke to students about the symphonies musical instruments create. During the hour-long interactive session, the artists discussed the musical style developed by Bansal Band. The band plays music by Harpreet Bansa (Norwegian/Indian Violinist from Oslo) based on the raga tradition,arranged by Harpreet and the other members. The artists spoke to the students about the band's focus on playfulness and improvisation, and the inspiration it draws from

The CMR Group celebrated its 24th Founder's Day at the CMR Institute of Technology premises. The CMR Jnanadhara Trust distributed scholarships worth Rs. 20 lakhs to 194 candidates. In addition to the CMR Memorial Merit Scholarships and Sports Scholarships, Leadership Awards were given to all-rounders.

Former minister for Higher Education, Aravinda Limbavali and Olympian and

CMR Group distributes scholarships to students

BENGALURU, DHNS: Sc arships worth Rs 20 l were given to 194 deser candidates on the occa of the celebration of 24th Founder's Day by CMR (Chikka Muniya Reddy) Group here.

Along with the memo merit and sports scho ships, leadership awa were also presented to selected students by C Jnanadhara Trust at event held on Thursday.

Former Indian hoc player Ashish Kumar Ba who graced the event, the City lacked playgrou "I request the governm to provide ample space children to play. Any gov ment-notified land avail should be converted i playground for the benef our youth."

Referring to the schol ship distribution, Ballal s "I wish we had such schol ships during my time. W that money, I could have e ily afforded a sports kit."

President of CMR Jnan hara Trust and Chancel CMR University, Dr Sahi Ramamurthy, and forn minister for higher edu tion Aravind Limbavali w

AMUKTA

Aditya Kalro (B.E. Computer Science & Engineering – Batch of 2005)
Engineering Manager, Facebook Inc, San Francisco

How was your experience in college?
It was very interesting. I was the typical geek, sci-fi reader. Computers were my favourite pasttime which then went onto become my field of interest from the 6th grade. The college provided us with good transport facility and an excellent infrastructure.
We loved what we learnt, enjoyed working on computers and solving problems. I miss my friends from college the most. During college, we are surrounded by friends everywhere which becomes a rare sight at our workplace. As a manager I have a lot of individual conversations, but no conversation with the same people in a large group. That's what I miss, the sense of camaraderie you tend to lose once you leave the college sphere.

As an Engineer Manager, what do your day to day activities involve?
No two workspaces are the same. Being an engineering manager in Microsoft is very different from being one at Facebook where I am currently working.

Here at Facebook, I manage the team that develops machine learning tools that drive the platform. Facebook, as you can imagine, collects a significant amount of data and all of that data needs to be processed. We generate machine learning models from it, which then goes to production. We work through this process, from getting data to pushing it to production models. The easiest way to imagine is that when you're using Messenger, News Feed, or see an advert on the platform it has to use the tool-FB Learner, which it has to go through,to become the final product.

What did you work on previously?
Previously, I worked on advertisements for about a decade at Yahoo and Microsoft. My career began at Yahoo where I started off with SMS advertising and then moved on to E-mail marketing and later to creative security.

After that I moved to the US to revamp Yahoo's video advertising system. Which is when I moved on to media marketing, the incredibly immersive ads that work on phones and tablets. During this period, I worked with the Interactive Ad Bureau, a standards organisation for digital advertising, to write the MRAID standards for these ads. That's what caught Microsoft's eye when they were working on Windows 8, which was their first tablet based operating system.

I ended up heading the ad experience's team and after a year and a half, the team started working on their own. I managed the Creative Asset Management Team in Seattle, that manages the pictures and videos that people upload and show ads on MSN, Skype, Windows 8 and Windows 8 Phone.

Next tech revolution?
It's going to be based on AI, of any kind, like the one we are currently using in bots. I think neural networks are going to be much more complicated, deeper and powerful. I think that there exists a common misunderstanding that AI will cause the realisation of a sci-fi movie by taking over the world. Definitely wouldn't. The currently existing machine learning model would be able to perfect only one or two actions at a time if well-trained. It isn't proficient enough to mimic human behaviour and abilities. The amount of data required to train it to differentiate a 9 from 1 is enormous while a human child can tell them apart without breaking a sweat.

Advice to us, juniors and the graduating batch?
Don't be afraid to ask stupid questions. Don't be afraid to learn new things that might seem scary. That's one thing that can help you grow.

Bhagirath Vasant Gaonkar (B.E. Computer Science & Engineering – Batch of 2007)
Service Architect Senior Lead, Akamai Technologies, San Francisco

How would you describe your days at college?
I used to travel by the college bus the first couple of years. I used to reach the campus before 8 AM every day, head to the canteen to grab a quick tea or coffee and then get to class. I was always pre-occupied in college with some or the other activity. I was the class representative and was also part of the college fest organising team in my second year and later in my third year took the lead as the chief coordinator of Cultura. Recalling my college years, there were a mixture of bittersweet memories which helped me become the person I am today. Belonging to one of the upcoming colleges of the time, we had a burning desire to compete with the other colleges and prove ourselves.

As you mentioned you were the Cultural Secretary, Placement Coordinator, Class Representative and so on. How did you keep pace with your academics and manage the extra-curicular activities that took place in college?
I've always been inclined to get involved and to do things outside of academics. It wasn't something that was new to me. But yes, it does get hard, that's when you have to start prioritising. All you need is a little bit of focus to make sure that you get it right before you decide to involve yourself in other activities. As long as you have your priorities set and you keep track of your time, it's just about being diligent and tracing that list.

What role do you play at your workplace?
I am a service architect at Akmai Technologies. It's a pretty niche role and I don't think many companies have it. It's a mixture of product management, program management and a little bit of services support strategy. It was a role designed specifically to solve problems thereby bridging the issues faced by both the engineering and product team.
My role is to provide effective communication between both the teams so that everyone works together to get the job done.

Is there anything that you would like to share about your work-life to the graduating batch?
The foremost thing is to not worry about your first job. Don't always aim for the highest paying job. Instead aim for a job that will make you happy and help you improve your skill set.But what I would recommend is that once you get that first job and you know that you have an offer with you, be non-complacent of what that offer can do for you. It's only when you have the right set of people and the right set of mentorsand your careers will change for good.

What is the one thing that you would have liked to inculcate in you back in college?
Back then I did not have the habit of reading the newspaper,which made me unaware of the world around me. But now, thanks to the RSS Feeds and social aggregators I am now an ardent reader.

What is the one mantra that you would like your juniors to follow?
Creating an identity for oneself. This would apply to various arenas be it personal, college or professional life. Being known for something unique or creative will come in handy at every point in your life. Also, keep your friends and family close. Make sure that they are a part of your life because when the times are tough, they're the only support system that you will have.

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