



RAMAIAH

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SUDARSHANA

2016 Annual College
Magazine



**M.S. RAMAIAH INSTITUTE
OF TECHNOLOGY**

(Autonomous Institute, Affiliated to VTU)

M.S. RAMAIAH INSTITUTE OF TECHNOLOGY

VISION

To evolve into an autonomous institution of international standing for imparting quality technical education

MISSION

MSRIT shall deliver global quality technical education by nurturing a conducive learning environment for a better tomorrow through continuous improvement and customization.

QUALITY POLICY

"We at M.S. Ramaiah Institute of Technology, Bangalore strive to deliver comprehensive, continually enhanced global quality technical and management education through an established, Quality Management System complemented by the synergistic interaction of the stakeholders concerned."

We also strive to communicate this policy to all persons at all levels so that this policy becomes a working reality within the organization.

33rd among the top 100
Engineering Institutions
across the Country.

-as per MHRD, Govt. of India, 2016

**MSRIT IS
RANKED No. 1** among the Private
Engg. Institutions
in Karnataka

-as per MHRD, Govt. of India, 2016

**MSRIT is accredited by NAAC
with "A" Grade**

A Tribute to our Founder Chairman Dr. M.S. Ramaiah (1922-1997)



Industrious and enterprising, Dr. M. S. Ramaiah is among Karnataka's illustrious sons and an engineering contractor of national repute. He founded 'Gokula Education Foundation' in 1962 without expecting any kind of assistance from the establishment with an objective of serving the society. M.S. Ramaiah Institute of Technology (MSRIT) was born under the aegis of this foundation in the same year, creating a landmark in technical education in India. Through the years MSRIT has imparted quality engineering education, accessible thousands from across India and abroad facing a lack of opportunity to pursue higher education.

Widely acknowledged as a visionary, Philanthropist, educationist & industrialist Dr. M.S. Ramaiah personally ensured that the institution which began with just two disciplines, grew phenomenally over the years. MSRIT now offers Bachelors, Masters and Doctorate programmes in several disciplines and is recognized as one of India's leading names in technical education. The Institution is equipped with state-of-the-art laboratories, well stocked libraries and has highly qualified, experienced and dedicated faculty. In tune with the noble ambitions and aspirations of Dr. M.S. Ramaiah to develop the institution so as to become a 'Jnana Sagara', all departments are continuously engaged in implementing appropriate procedures to initiate, include and conduct unique programmes keeping in touch with the emerging requirement of the industry.

FELICITATION ON FOUNDER'S DAY CELEBRATION



**Felicitation of Dr. V.K. Aatre, Padma Vibhushan Awardee 2016
Former Scientific Advisor to PMO**



**Felicitation of Dr. B.S Sonde
(Former Vice Chancellor, Goa University.)**

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EDITORIAL

From the Editors' desk

The Editorial Board of MSRIT proudly presents its unique creation in the form of the Annual Magazine 'Sudarshana' every year which serves as a platform to highlight the literary and artistic segment of the MSRIT family. Sudarshana is designed to present to its readers the year's events that have gone by, the magazine also showcases the talents of our faculty members and students. With a sense of pride and satisfaction I would like to say that with the active support of the management, faculty and students, Sudarshana has come alive. With all the efforts and contributions put in by the students and faculty, I truly hope that the pages that follow will make some interesting reading.

I congratulate the editorial team for making Sudarshana innovative and inspiring.

Editorially yours

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Message from Chairman



Dr. M.R. JAYARAM

Chairman, GEF & MSRT

Technical Education is the backbone of every nation and is the stepping stone for a country to move into the niche of a developed nation.

Creating better human beings' is our motto and we can do that when we are able to mould our students to be good human beings with values which are embedded for life. We aim to provide an overall development that nurtures them towards becoming strong and focused human beings. We nurture the latent talent lying in all our students and faculty and Sudarshana has emerged as a showcase for those talents.

We wish the best for all our students, and the members of the institution who reiterate their aims at providing the best in academic and extra-curricular fields. We must believe that success is inevitable where these exist- foresightedness, firm determination, hard work and discipline.

Once again, we wish all our graduating students a successful and rewarding career.

A handwritten signature in black ink, appearing to read 'Dr. M.R. Jayaram'.

(M.R. JAYARAM)

Message from Vice Chairman and Director



Sri. M.R. SEETHARAM

Vice-Chairman GEF & Director MSRIT
Minister for Planning, Statistics,
Science & Technology & Kodagu District Incharge.
Govt. of Karnataka

I am happy to note that **Sudarshana 2016** showcasing the talents of faculty and staff is being brought out. In this regard I congratulate the entire team of Sudarshana.

MSRIT presents a happy blend of traditional and modern education where knowledge is imparted to the students so that they may occupy a better place in the modern competitive world and develop all round personalities retaining the beauty of mind and intellect as well as of soul. It has made its mark in academic, sports and cultural fields. I can feel proud of its Alumni who are holding responsible position in social, political and economic life of the nation.

I congratulate our graduating students and wish them best.

A handwritten signature in black ink, appearing to read 'M.R. Seetharam'.

(M.R. SEETHARAM)

Message from Secretary



Sri. M.R. RAMAIAH

Secretary GEF & Director MSRIT

The main focus of the Institution is to empower students with sound knowledge, wisdom, experience and training both at the academic level of Engineering and in the highly competitive global industrial market. The infrastructure facilities and state-of-the-art equipments combined with competent, talented and dedicated faculty contribute to an enjoyable and an easy learning experience at MSRIT.

College magazine like **Sudarshana 2016**, serve as a platform for literary and artistic talents of our students and faculty. I congratulate and wish all the students and faculty to scale greater heights.

(M.R. RAMAIAH)

Message from Chief Executive



Sri.S.M. ACHARYA IAS (retd.)
Chief Executive, GEF (Engg.)

MSRIT has a reputation for attracting the best students in their chosen faculty. It is a matter of great pride that the College has made consistent progress, year on year, in academic and co-curricular activities.

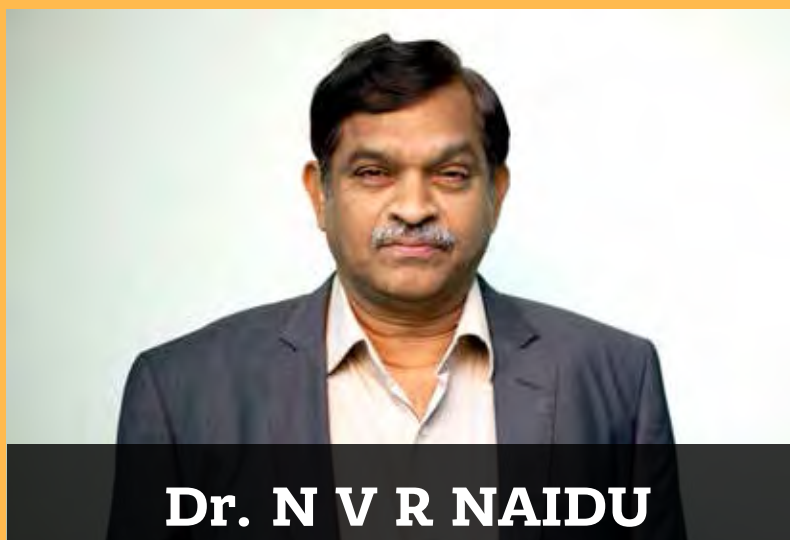
Challenges and Opportunities are two sides of the same coin. Modern education, curriculum development and teaching methodologies have to keep pace with the demand of the economic environment. The manager, businessman and the entrepreneur of today needs many more weapons in armory. Holistic education should include all round development of a student.

Overall development of the individual is the goal of education and we all have to ensure that there is no stone left unturned to equip the student of today for the challenges of life. **Sudarshana 2016**, has served as a platform for students and faculty to exhibit their talent. Congratulations to all faculty, students and the editorial board of Sudarshana for bringing out an excellent college magazine

I wish the students all the best for achieving greater success and scaling newer heights in your education and career ahead.

(S. M. ACHARYA)

Principal's Message



Dr. N V R NAIDU

Principal, MSRIT

It gives me immense pleasure to pen a few words as prologue to our in-house magazine **Sudarshana 2016** exclusively meant for bringing out the talent of faculty and students, which bears immense potentiality of sharpening communication skill as part of over all personality development. I congratulate all the contributors and the editorial board for bringing out such a beautiful magazine. Empowerment of students for their all round development through education is our cherished motto. Today education means much more than merely acquiring knowledge. It is acquisition of knowledge and skills, building character and improving employability of our young talent, the future leadership. Measures initiated by the Hon. Management, steps taken by the college administration, the willing contribution of the teaching and non-teaching staff and over whelming response and enthusiastic participation of students in the college activities in the recent past all vouch for this.

My heartfelt Congratulations and best wishes to our graduating students.

A handwritten signature in black ink, appearing to read 'NVR Naidu', written in a cursive style.

(N V R NAIDU)

DEPARTMENT OF CIVIL ENGINEERING

About the Department:

The Civil Engineering Department was started in the year 1971. Master program M.Tech in Structural Engineering was started in the year 1984. Another milestone was achieved in the year 1994; the department was recognized as Research Center. The department has been actively involved in conducting conferences, workshops, FDP's, Site Visits, Project Tours and several students related programs (SAMEEKSHA) to provide a platform for sharing and spreading the latest developments in the field of Civil Engineering.

Teacher's and Engineer's day was celebrated on 30th September 2015 by the department of Civil Engineering. The chief guests of the function were Sri N.P Sharma with the Guest of Honour Prof. K.Shankar Rao and Dr. N Krishna Raju.

A guest Lecture on "Career Opportunities in the Real Estate, Construction, Land & Urban Infrastructure industry" was organized by Royal MSRIT Society of Civil Engineer's on 04/11/2015. The speaker of the session was Monalisa Mallick who is the Deputy Head-Partner at RICS.

A two-day workshop "Strategies for Effective Way of Conducting Laboratory Classes" was conducted on 20th & 21st Jan 2016. The workshop was organized by the Department of Civil Engineering MSRIT, Bangalore.

A guest lecture titled "Elastic Buckling of Beams", was delivered by Dr. H Narendra, Associate

Professor Department of Civil Engineering on 19/02/2016 at Brindavan college of Engineering.

Civil Engineering students participated in various events organized at BMS College of Engineering, Siddaganga Institute of Technology, Tumkur, R.V college of Engineering, international conference at Pune and won 13 prizes in different events at various levels.

The Department of Civil Engineering inaugurated ICI-Student Chapter on 11th May 2016, in order to enhance the industry institution interaction and benefit the students with the ongoing projects and research in the field of Civil Engineering. The Department also initiated MOU with Manya Associates (Mr Asha Kiran Operational Head) to focus on institution industry.

List Workshop Conducted (last one year)

- A Three day workshop on "Mix Design of Neo Concretes" was conducted by the department of Civil Engineering on 7th and 9th October 2015.
- A two-day workshop "Strategies for Effective Way of Conducting Laboratory Classes" was conducted on 20th & 21st Jan 2016

Publications:

Number of Publications in International Journal: 24

Number of Publications in National Conference: 3

Number of Publications in International Conference: 4



DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering started in the year 1962 with an intake of 40 students. The department has grown strong over the last 53 years and today has an intake of 180 students and 50 teaching staff. All the faculty members are well qualified and possess post graduate degree with 17 doctorates. The department offers four year bachelor's degree course and two Masters Degree programme in Manufacturing Science & Engineering and Computer Integrated Manufacturing, with an intake of 18 each. The Department also offers research program which includes M.Sc Engineering by research and Ph.D degree from VTU.

DEPARTMENTAL ACTIVITIES 2015-2016

- Society of Mechanical Engineers (SME) activities for the year with Mr. Manjunath. G, Assistant Professor and Mrs. Bijaya Lakshmi Das, Assistant Professor, were the office bearers for the year 2015-2016.
- The Society conducted around 14 guest lectures by eminent experts from the field of mechanical engineering, industry, research organizations and academic institutions.
- The students of second and third year UG visited industries to understand current technology. Students visited nine different industries as part of the SME activity.
- The department encourages and supports the students to participate in various technical competitions.

The department also organized various seminars in the field of smart materials and two national level workshops on world class manufacturing and hard turning. The department to its credit conducted two, one week faculty development programs (FDP) on 3D printing and I.C. Engines and one, two week FDP program on materials

and manufacturing process funded by TEQIP, DST and other funding agencies.

The department is organizing an "International conference on recent advances in engineering sciences" (ICRAES-2016) at the institute in collaboration with other four departments in September 2016.

Two faculty members and four Ph. D Scholars obtained Doctoral degree (Ph. D) during the academic year. Three more faculty members submitted Ph. D thesis this year.

Our faculty published about 50 research articles during this year consisting of 33 papers in International/National journals and 17 papers in International/National conferences.

The department applied for two patents during this year. Our faculty members published nine books and a few of them have been recommended in VTU & Autonomous curriculum.

A string of strong performances from our students are:

- 1st Place in the international SUAV competition in Maryland USA in June 2015
- 3rd place in "Air Ambulance Design" competition in International Mechanical Symposium, top 10 in Piping Design competition conducted by Quest.
- 15th place among 41 international teams in the SAE Aero design west at Van Nuys, Los Angeles USA and many more.
- 5th Place in the 14th SUAV competition in Maryland USA in June 2016 among 24 teams.
- PG students published 24 technical papers in various conferences and journals.
- The department also conducted free UPSC/KPSC/GATE coaching class for pre-final year, final year and M.Tech students.

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

About the Department:

The department of Electrical and Electronics Engineering was started in the year 1962. In addition to the undergraduate program, it offers M.Tech Programme in "Computer Applications in Industrial Drives". The department has been recently accredited for the years 2015-2019, by NBA. The department is recognized as a Research Center by V.T.U and the research areas include Power Systems Stability, High Voltage Engineering, Power System Analysis and Control, HVDC Transmission, Renewable Energy Sources, MEMS, Power Electronics and Industrial Drives. The department has set up a Center of excellence in Process automation and Control in MSRIT in Collaboration with Schneider Electric, Bangalore. As a part of the department outreach activities our students have designed, developed and installed Solar Lighting System in 20 houses in two villages in Uttara Kannada district and they plan to install more in the coming months.

List of Conferences Conducted (last one year)

- Department of Electrical & Electronics and Telecommunication Engineering, MSRIT in collaboration with IEEE Sensor Council, Bangalore organized a Three day "International Conference on Smart Sensors & Systems" from 21st Dec-23rd Dec, 2015 at MSRIT. As a preconference workshop department of E&E conducted a one day workshop on "Smart Grid" on 21st Dec 2015.

List Workshop Conducted (last one year)

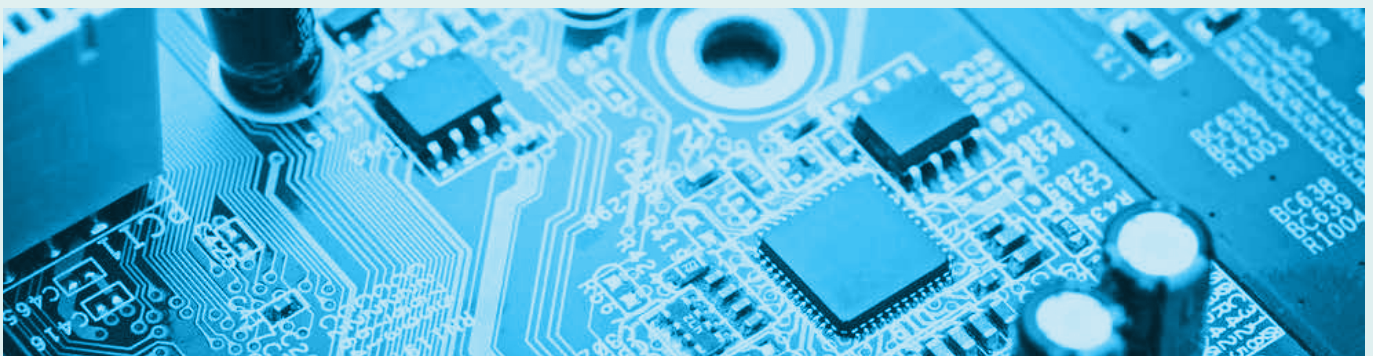
- Department of Electrical & Electronics Engineering in collaboration with National Instruments under TEQIP organized a three day event titled "LabVIEW for the Research in Power Systems and Power Electronics Engg", from 23rd to 25th July 2015.
- Department of Electrical & Electronics Engineering organized a 5 day Faculty Development Program (FDP) on "Advances in HVAC, HVDC & FACTS Controllers", during 13th to 17th July 2015.
- Department of Electrical & Electronics Engineering organized a three day Workshop on "Role of Power Electronics in Renewable Energy Systems", under TEQIP-II from 18th to 20th January 2016.
- Department of Electrical and Electronics and Instrumentation technology organized a Five day Faculty Development programme on "Trends in Industrial Measurements and Automation" from June 27th to July 1st 2016 under TEQIP-II.

Publications:

Number of Publications in International Journal: 03

Number of Publications in National Conference: 01

Number of Publications in International Conference: 10



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

About the Department: Half Page

The Department of Electronics and Communication Engineering was started in 1975 and has grown over the years in terms of stature and infrastructure. Apart from one undergraduate program in Electronics & Communication, the department offers two post graduate programs, Digital Electronics & Communication – was introduced in 2002, and VLSI & Embedded Systems was introduced in 2013. The Department has received funding for research from Vision Group on Science and Technology (VGST), Dept. of Science and Technology, Govt. of Karnataka. The department consists of highly qualified and experienced faculty members who have won several accolades and recognition in academics. The department has well-equipped simulation and electronics laboratories, and is recognized as a VTU approved research centre.

The various activities of the department include MATLAB TRAINING for faculty and PG students. Many guest lecturers were organized on the current trends in the Industry through our alumni. An industry exposure was given to our

Vith Sem students through a visit to M/s Gallant Electronics and Control at Peenya, Bangalore and Bharath Electronics Ltd. Bangalore.

List of Conferences Conducted (last one year)

Conference on “WIRELESS AND OPTICAL COMMUNICATION NETWORKS “(WOCN-2015) during September 2015.

List Workshop Conducted (last one year)

1. “ANALOG AND RF CMOS CIRCUIT DESIGN” during JUNE-JULY 2015.
2. “A PRACTICAL APPROACH TOWARDS EMBEDDED SYSTEM DESIGN” during JULY-AUGUST 2015.
3. “RECENT TRENDS IN VIDEO ANALYTICS “during JANUARY 2016.

Publications:

Number of Publications in International Journal: 7

Number of Publications in International Conference: 44



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

About the Department:

The Department of Computer science and Engineering (CSE) was established in the year 1984 to meet the needs of the emerging IT industry and research. The department started with an initial intake of 60 students in UG programme in CSE and enhanced its intake to 120 in the year 1994. In 1998, the department started a PG programme in “Computer Science and Engineering (CSE)” with an intake of 18 students. Presently the department has two PG programs in the branch of Computer Science and Engineering and Computer Network Engineering with in-take of 30 and 18 students respectively.

The curriculum at the department of CSE provides both breadth and depth across the range of engineering and computer science topics. The department has well qualified, experienced and dedicated teaching and non-teaching faculty. Two of the faculty members are awarded their Doctoral year in this academic year and many of the faculties are pursuing their doctoral studies. The R& D activity is also very active at the department. Two projects funded by UGC and DST and One project funded by KSCST in the current academic year. Faculties are also indulged in publishing Book chapters related to Cyber Physical System, Cloud Computing, Big Data, and Internet of Things.

The department of CSE has 100% placement track record every year. The students of the CSE

department have bagged Highest Package- 16 lpa in this current year. The Computer Science and Engineering department also hosts several activities such as, the Project Exhibition, The department ACE Tech Fest, the department Alumni Meet, Conferences, Seminars from eminent Industry and Academic personalities. The Association of Computer Engineers (ACE) conducted several co-curricular and extra-curricular activities in the current year.

List of Conferences Conducted (last one year)

The department is actively involved in the annual IEEE Sponsored “International Conference on “Circuits, Control, Communication and Computing”, which will be held at MSRIT every year.

List Workshop Conducted (last one year)

Workshop on SAP Lumira, FDP on Foundations for Innovation in Cyber Physical Systems, FDP on Machine Learning and its Applications, Workshop on Simulation of WSN using Qualnet, and Hands-on session on Intel Galileo development board, Hands-on sessions on SAP HANA.

Publications:

Number of Publications in National Journal: 4

Number of Publications in International Journal: 10

Number of Publications in National Conference: 4



DEPARTMENT OF CHEMICAL ENGINEERING

About the Department:

Starting in 1978, the Department was the first to offer a course in Chemical Engineering by a self-financing engineering institution in Bangalore and the fifth to be started in MSRIT. The Department is certified thrice in succession by the National Board for Accreditation, certified with 'A' grade by NAAC and was ISO 9001:2000 certified till Jan 2016. Over 2000 students have graduated in 33 batches. We have secured majority of the university ranks. The expertise of the faculty covers a wide range of disciplines and they are engaged in cutting edge technological research. A testimony to this is the fact that the Bangalore Regional Centre of the Indian Institute of Chemical Engineers is functioning from this department for almost a decade. The country's most prestigious event in Chemical Engineering CHEMCON-2011 was organized at MSRIT.

The department is approved as Research Center by VTU for acquiring higher qualification leading to M.Sc and Ph.D degrees. The department offers excellent infrastructure and students have won various prestigious awards, international internships and high accolades for innovative projects.

Apart from having several sponsored projects it is recognized as a research centre. With the qualified, dedicated staff and committed students, the results are always good. The students are encouraged to participate in co-curricular activities like Organizing seminars, Invited lectures, Industrial visits, etc. The conducive professional atmosphere helps the students in their all-round development and to become dedicated to profession. The department takes pride in its past achievements and has the dream and action plans to make it as one of the best Chemical Engineering Department.

List Workshop Conducted: 09

Publications:

Number of Publications in National Journal: 01

Number of Publications in International Journal: 14

Number of Publications in National Conference: 03

Number of Publications in International Conference: 07



DEPARTMENT OF MEDICAL ELECTRONICS

About the Department:

The medical electronics department at M. S. Ramaiah Institute of Technology (MSRIT), Bangalore was started in the year 1996. The department is offering 4-year full time B. E. degree course in Medical Electronics, affiliated to VTU, Belgaum, recognized by Government of Karnataka, approved by AICTE, New Delhi and accredited by NBA. The department is recognized as a research centre by VTU and is actively involved in R & D activities in the area of Biomedical signal processing and Instrumentation. The department has been actively involved in conducting workshops, FDP's, Industrial visits and seminars to provide a platform for sharing and spreading the latest developments in the field of Medical engineering ethics. The Department is a part of IEEE EMBS Bangalore chapter and IEEE EMBS student chapter. The Department is also a part of IEEE System Man and Cybernetics (SMC) Bangalore chapter.

List of Workshops/Conferences Conducted (last one year):

1. Two days Hands on training Programme on **"Arduino Open Source Prototype Platform"** was conducted by Prashanth Pai, Graduate Intern, CSIR-NAL, Bangalore, doing MSC in Embedded systems and control, University of Leicester, UK.
2. Three days foundation course on **"Image Processing-Concepts to real-time processing"** in the Medical software Lab. The speakers were Dr. Kumar Rajamani (Architect at Robert Bosch Engineering and Business Solutions Ltd) and Vijaya Saradhi Gannavaram (Manager- Data Scientist at Symphony Teleca) Bengaluru.
3. Winter school on **"Scientific Computing using Open source Software for Signal, Image Processing & Soft Computing Applications"** for five days from 28th December 2015 to 01st January 2016

at Medical Software lab .The resource person was Mr. Mahesh Anand S. Founder, Chief Consultant & Master Trainer, Scientific Computing Solutions, Chennai.

4. One day International seminar on **"Significant Challenges in Healthcare and the Role of Biomedical Engineer- Perspectives of Healthcare Problems and Bioengineering Ethics"** was organized at ESB seminar hall II on 09-01-2016.

5. One week Faculty Development Program **"Cognitive Neurosciences and Brain-Computing Interface"** was organized under (TEQIP Phase II) from 14th- 21st January 2016 at ESB Seminar Hall II, MSRIT.

6. The IEEE EMBS MSRIT Chapter, IEEE EMBS Bangalore Chapter in association with Medical electronics, M. S. Ramaiah Institute of Technology, organized a **"Two days Hands on session on SCILAB"** for students on 20th and 21st February 2016.

Publications:

Number of Publications in International Journal: 08

Number of Publications in International Conference: 03

Number of guest lectures conducted: 04

Number of guest lectures delivered: 05

Funded project:

The following collaborative project entitle: design and development of wearable cardiac loop recorder with wban for civilian and military applications (BT/PR14751/MED/32/422/2015) submitted to Department of Biotechnology(DBT) got approved with a budget of Rs 50 Lakhs.

DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING

Department was established in the year 1992. The department is certified thrice in succession by the National Board of Accreditation(NBA), Certified with 'A' grade by NAAC and was ISO 9001:2008 certified till January 2016. We have secured majority of the university ranks. Achieved hat-rick in getting 1st rank. The department has state of the art laboratory I.e. Instrumentation and Automation Lab. The expertise of the faculty covers a wide range of disciplines and they are engaged in cutting edge technological research. The department has active MoU with Mitsubishi Electric India Private Ltd., and the consultancy work with ITC Healthcare & Technology Center, Bangalore.

The department is approved as Research centre by VTU for acquiring higher qualification leading to M.Sc(by research) and Ph.D degrees. The department offers excellent infrastructure and student innovation centre to motivate the students to do innovative projects. All faculty members are actively participating in R&D activities. Department regularly conducts workshops and faculty development programmes. Regular interaction with Alumni. Guest Lectures from industry to deliver talk on latest technology. Organized National and International conferences.

Every year students' projects are selected for KSCST and Alumni funding. Students of department wins prizes regularly in contests organized by leading industries like ABB, TI, FREESCALE etc. Students have undergone internships in renowned

organizations like ABB, ISRO, HMT, HAL etc. Students have won various prestigious awards, international internships and high accolades for innovative projects. A number of students have published papers in National and International journals. Students are constantly involved in a number of extra-curricular activities.

- **List of Conferences conducted:**

Three day International conference on Smart Sensor and Systems (IC-SSS-2015) Organized by Dept. of EIE, TCE and EEE, MSRIT.

- **List of Workshops conducted:**

Three day workshop on Trends in Industrial Measurement and Automation from 27th June - 1st July 2016.

Three day workshop on Current Trends in Digital Image Processing and it's Application from 19th - 21st January 2016.

Three day workshop on Soft Computing and it's Application in Engineering from 10th - 12th August 2015.

Publications:

Number of publications in National Conference: 2

Number of publications in International Journal: 3

Number of publications in International Conference: 4



DEPARTMENT OF INFORMATION SCIENCE & ENGINEERING

About the Department:

The Department of Information Science and Engineering (ISE) was established in the year 1992 with an objective of producing high-quality professionals to meet the demands of the emerging field of Information Science and Engineering. The department started with UG programme with an annual sanctioned intake of 30 students and the intake was enhanced to 60 seats in the year 1999, to 90 seats in the year 2001 and then to 120 seats in the year 2008. The department started M.Tech in Software Engineering in the year 2004. The department has been recognized as R&D center by VTU. The department has well equipped laboratories. Some of the laboratories have also been set up in collaboration with industries such as Intel, Apple, Honeywell, EMC2, Nokia Siemens and IBM. The department has highly qualified and motivated faculty members. All Faculty are involved in research and technical paper publications in reputed technical journals, conferences across the world. The department has been accredited by the NBA in 2001, 2004, 2010 and re-accredited in new format (outcome based education) of NBA in the year 2015. Out of a total strength of 29 Faculty, 7 of them have PhD and 12 have registered for PhD. Two of our Faculty (Krishnaraj PM and Dayananda P) have obtained their PhD this year. The department has successfully conducted seminars & workshops for students and academicians in the emerging technology.

Students' achievements: Nihal Nayak, IEEE/ IBM Watson Student Showcase Worldwide Event (Online), Project title: Wordinator, Position – (Amongst top five), Cash- \$2000; Abhilash K and Samarth M N - Hackathon Finalists, US

Consulate Cyber Security Workshop; Sidhant Patra - Award for best original Composition for Hindi Short movie at Goa International Film Festival (October, 2015); Tanmay Chinchore - Winners of Microsoft's Data Science Student Challenge (DSSC), 29th Feb, 2014. DeIn 2015, Watson Student Showcase; Abhilash Kishore - Winners of Microsoft's Data Science Student Challenge (DSSC), 29th Feb, 2015. DeIn 2015, Watson Student Showcase; Nihal V. Nayak - Cognitive app was among the top five and were awarded cash prize by Watson Student Showcase. Year 2015.

List of Conferences Conducted

- National Conference on Product Design (NCPD) 2016 with Microsoft in association with Mobility Research Forum, 1st to 3rd July 2016

List of Workshops Conducted

- FDP on “ of Machine Learning to Music Data Analytics”, 20-22nd May 2015
- Three Day Workshop on “Big Data Analytics”, 4-6th June 2015
- Oneweekworkshop on “Design for Everything: Opportunities in Internet of Things”, 11-16th January 2016
- Student Internship Program and Workshop with Microsoft Student Developer in June -July 2015

Publications:

Number of Publications in International Journal: 12

Number of Publications in International Conference: 5

DEPARTMENT OF TELECOMMUNICATION ENGINEERING

The aim of this workshop was to provide both theoretical and hands-on experience on Embedded-System which uses MSP430 as well as give awareness about the new applications which can be developed using it. MSP430 is a 16-bit low-power microcontroller from Texas Instruments which is widely used in applications such as Wireless Sensor Networks, Medical Applications, Wearable Electronics, and many more, where power efficiency is critical. The MSP430 is a mixed-signal microcontroller family from Texas Instruments, built around a 16-bit CPU, it is designed for low cost and, specifically, low power consumption embedded applications. The electric current drawn in idle mode in MSP430 can be less than 1 μA with top CPU speed of 25 MHz. MSP430 also uses six different low-power modes, which can disable unneeded clocks and CPU. Additionally, the MSP430 is capable of wake-up times below 1 microsecond, allowing the microcontroller to stay in sleep mode longer, minimizing its average current consumption. The device comes in a variety of configurations featuring the usual peripherals: internal oscillator, timer including. PWM, watchdog, UART, SPI, I²C, 10/12/14/16/24-bit ADCs, and brownout reset circuitry. This kit also

includes peripheral options include comparators (that can be used with the timers to do simple ADC), on-chip opamps for signal conditioning, 12-bit DAC, LCD driver, hardware multiplier, USB, and DMA for ADC results. Apart from some older EPROM (MSP430E3xx) and high volume mask ROM (MSP430Cxxx) versions, all of the devices are in-system programmable via JTAG (full four-wire or Spy-Bi-Wire) or a built in bootstrap loader (BSL) using UART such as RS232, or USB on devices with USB support.

Industry Visit

ISRO, Marathalli, Bangalore on 11th September 2015 for 5thsem students under the guidance of N. Shivashankarappa and UmeshaRaddy

1. Faculty Publications

International Journal - 21

International Conference - 13

2. Workshops conducted by the department

a) One week Faculty Development Programme on “Embedded System Design using MSP 430” under TEQIP II held during 20th to 24th July 2015.



DEPARTMENT OF BIOTECHNOLOGY

About the Department

Established in 2002 the department offers a four year B.E. Biotechnology Program with an intake of 60 students and a two years PG Program, M.Tech in Biotechnology with an intake of 18 students. The department is also a recognized Research Centre by VTU, Belgaum, offering M.Sc (Engg.) by research and PhD programs. The Department has excellent infrastructure and state of the art laboratories. The department has 15 faculty members, 10 of them are PhD holders and the rest are M.Tech/M.Pharma. Many of the faculty members have post doctoral experience in premier institutions in India and Abroad. The department research is focused towards these core areas and funded by national and state funding agencies like DST, VGST, VTU and RGUHS.

In the year 2015 – 2016, the Department of Biotechnology Engineering was active in conducting FDP programs, publications and other co-curricular activities.

Departmental Activities 2015-2016

The Department of Biotechnology, MSRIT, conducted a five day Faculty Development Programme (FDP) - Technical workshop on “Drug Discovery and Development Strategies” under TEQIP –II (Technical Education Quality Improvement Program) from 20 – 24 July 2015.

The Department of Biotechnology, M S Ramaiah Institute of Technology (MSRIT) has conducted a one week Faculty Development Programme (FDP) on “**Downstream Processing of Biologics and Nutraceuticals**” during 4th -8th January 2016.

The Department of Biotechnology and Department of Computer Applications, MSRIT,

conducted one day National Symposium on “**Next Generation Sequencing and Microarray data analysis**” on 19th January 2016 for the benefit of faculty and research scholars.

A one day seminar on ‘**The Craft of Writing Research Grant Proposal**’ was conducted on 20th May 2016. The seminar was inaugurated by Prof. G Padmanaban, Former Director of Indian Institute of Science (IISc), NASI Senior Scientist, Department of Biochemistry, IISc Senior Science and Innovation Adviser, BIRAC, Department of Biotechnology, Government of India.

The faculty at the Department of Biotechnology was active in delivering lectures in various forums during the year 2015 - 2016.

Around 15 research publications were published by the faculty in National and International Journals. The faculty also presented papers in International and National conferences.

Several student projects were funded by MSRIT AA and KSCST. The projects of Mr. Ravishankar Shivanand Nilegar, MTech student guided by Mr. Gokulakrishnan M, Assistant professor Department of Biotechnology, was adjudged as “Project of the year” under the Biofuel category and Ms. Keerthi VR MTech student guided by Mrs. Bhavya S.G, Assistant professor Department of Biotechnology, was adjudged as “Project of the year” under Biotechnology category.

The department of Biotechnology and SRIGEN (Society of Biotechnology engineers) published the annual departmental magazine, ‘Progenitor’ for its 2015 edition. The magazine sought to serve as a platform for students to show off all their talent and share their experiences.

DEPARTMENT OF INDUSTRIAL ENGINEERING AND MANAGEMENT

ABOUT THE DEPARTMENT:

The department of **INDUSTRIAL AND PRODUCTION ENGINEERING** was established in the year 1979 as a part of Mechanical Engineering. The Department got separated as an independent department in the year 1984. Industrial and Production Engineering department was renamed as Industrial Engineering and Management in 1992. The department was under Bangalore University from 1979 to 1998. The department is under Visveswaraya Technological University (VTU) from 1998. The department of Industrial Engineering and Management obtained the academic autonomous status in the year 2007 affiliated to VTU along with other departments of the institute. Post Graduate Program in Industrial Engineering was started from academic year 2012- 13.

The department was accredited by the NBA in the year 2001 and has been reaccredited

subsequently in the year 2004, 2010 and 2015. The Department is backed by highly motivated and result oriented staff members. 60% of faculties hold a Ph.D degree from prestigious universities and the remaining faculty members are pursuing their doctoral research work. Most of the faculty members hold important positions in the institute/university and also examiners in the Visveswaraya Technological University/ other autonomous institutions. All the eligible students are successfully placed in prestigious organizations.

The society of Industrial Engineering and Management, **“INDEMAN SOCIETY”** established in the year 1996, was formed with the intention of bringing out the hidden talents of the students and to expose them to latest technological developments. The society is engaged in organizing invited lectures, industrial visits and other co-curricular activities.

DEPARTMENT OF PHYSICS

The Physics department has a team of dynamic and well qualified faculty with a passion for research. It is recognized as a research center by VTU and has 11 part time and one full time research scholars. The department has received grants from BRNS and VGST, and has a research lab with equipments like Spectrofluorometer, Polarizing Microscope with hot stage, Digital microbalance and an oven. At present, active research in the department is in the fields of Fluorescence spectroscopy, Material science, Crystallography, Liquid crystals, Synthesis and characterization of nano materials,

Luminescence of Nanomaterials, rheology, Cell mechanics, Atomic and molecular collisions.

Workshops Conducted

- The department of Physics conducted Five Day FDP on Principles of Photonics and Applications.

Publications in (National/International) journals: 17

Papers Presented in (National/International) Conferences: 05

DEPARTMENT OF MATHEMATICS

The department came into existence in the year 1962 along with the institution itself to teach mathematics for electrical engineering and mechanical engineering students. In those days mathematics was taught in all the five years of study and in the fifth year mathematics was offered as an elective subject which plenty of students used to take and scored very high marks. Thus mathematics has remained always a popular subject and even today it is a popular subject in its own way.

In 1971 civil engineering branch was started in the college and there after branches after branches, namely, Electronics and Communications, Computer Science and Engineering, Chemical Engineering, Information Science and Engineering, Instrumentation Technology, Electrical and Electronics Engineering, Medical Electronics, Industrial Engineering and Management, Telecommunication Engineering, Biotechnology, B. Arch and several PG courses were added as branches of study in the institution.

In tune with this progress of the institution the department of mathematics also grew in size and stature to its present condition consisting of twenty staff members with ten Ph.D. holders and remaining are pursuing for their Ph.D. degree.

Also, department is recognized as a research centre in the year 2004 under VTU. At present, eight students have obtained their Ph.D. degree and fifteen students have registered for Ph.D. programme in the department. To its credits, the department have taken up many funding projects from various organization to meet the needs of the industry, research and higher education.

The department is offering engineering Mathematics course to I and II year B.E and I Sem M.Tech programme. Open electives are also offered for the students in the seventh semester.

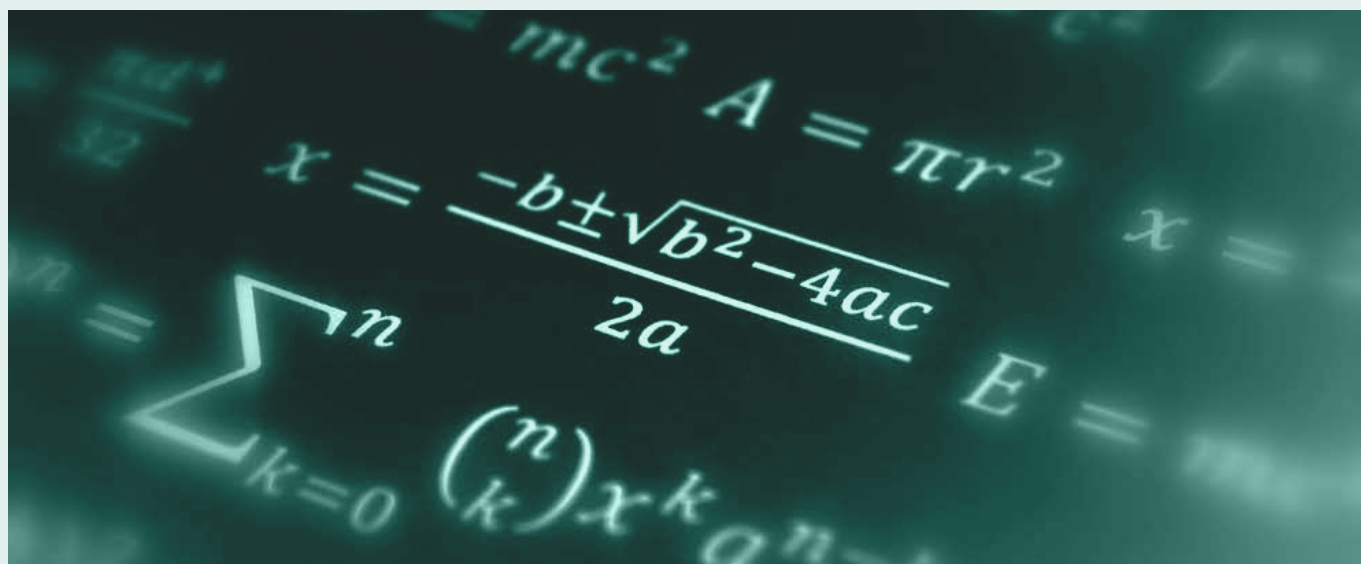
Workshops Conducted

- Three Days workshop on 'Applied Mathematical Modeling' from 13-15 July 2015
- Three Days workshop on 'Applied Mathematics in Engineering' from 12-14 Jan 2016

Publications in (National/International) journals: 06

Papers Presented in (International) Conferences: 07

Papers Presented in (National) Conferences: 03



DEPARTMENT OF CHEMISTRY

The Chemistry Department is one of the oldest Departments (established in 1962) of MSRIT. The Department consists of well qualified and experienced faculty members. The Department aims at preparing the students for careers in all the fields of engineering aspects and also carry out basic and applied research work.

The main activity of the department is to teach engineering chemistry theory and Laboratory courses to the under graduate engineering students of all disciplines.

The Department is a recognized research centre by VTU. All faculty members are actively engaged in research work. Eighteen research scholars have registered for Ph. D. The faculty members of the Department have published about

20 research papers in reputed international journals in the current academic year. More 25 research papers have presented in national and international conferences.

The department has conducted FDP program on 'Design of Advances Oxide Materials and their Applications', 'Australian national chemistry quiz-2015' and 'zero-budget programs' for Research scholars.

In association with Luminescence Society of India: Karnataka Chapter (LSIKC), Department of Chemistry has conducted Research Orientation Program for Research Aspirants (ROPRA) for young research scholars on 27-01-2016.

DEPARTMENT OF HUMANITIES

The department of Humanities is involved in teaching Languages and Social Sciences subjects to the students particularly concerned with the first year BE/B.Arch program. Apart from this core responsibility, it also provides additional support to students to improvise language skills by conducting additional coaching programs. At regular intervals, meetings with foreign and needy students are held to know their performance levels and understand their academic grievances to give solutions. Guidance is provided to higher semester students in language proficiency for competitive exams.

Additional Coaching Programs:

- English Bridge Course: The department conducting Bridge Course in the month of June and July every year for NRI First year students to get basics of English language skills in order to excel in their core subjects.
- Basic English Communication Course: This course is introduced for foreign and needy students to learn English Communication skills. Classes conducting every Friday and Saturday for whole academic year.

DEPARTMENT OF COMPUTER APPLICATIONS

About the Department:

The Department of Computer Applications was established in 1997 with the objective of producing high – quality professionals to meet the demands of the emerging field of Computer Applications. The department got academic autonomy in the year 2007 and is accredited by NBA. The Department of Computer Applications is recognized as a Research Center under Visvesvaraya Technological University in 2012. The department is able to provide services of high quality to its students because of the motivated and cohesive staff members of the department. The department comprises of eight doctorates out of twelve faculty members. The department has established stable and adequate infrastructure, library and well-equipped laboratory facilities. The Curriculum is framed on par with the standard of IIT/International Universities to enable the students to meet the requirements of industries and to do higher studies.

List of Workshops Conducted:

- Workshop on Predictive Analytics with R during 30th to 31st July 2015
- Workshop on Global Business Project Management with Lightworks Corporation, Japan during 5th to 16th October 2015
- Workshop on Cloud Analytics during 11th and 12th March 2016

Publications:

Number of Publications in International Journal: 6

Number of Publication in National Conference: 1



DEPARTMENT OF MANAGEMENT STUDIES

About the Department:

The Department of Management Studies (MBA Programme) was established in 1998 with an objective of creating high quality professional managers to meet the emerging and ever growing demands and challenges of the industry in an ethical and responsible manner. Over the years, the Department has built a strong reputation for its program and graduating students are placed in reputed institutions and leading corporations.

The department offers a 2 year MBA degree course of Visvesvaraya Technological University (VTU). The department is a recognized Research Centre of VTU and, at present there are 4 Doctorates and 13 researchers are pursuing their Ph.D under the their guidance. Two Researchers are already been awarded their doctoral degree from our VTU Research Centre. Recognizing the quality of management education imparted by our Institution, the department was the first in Bangalore Region to receive academic autonomy from VTU in the year 2007.

The faculty of the department are well experienced both in industry and in the academic field. Many of our faculty members have authored books and published papers in leading journals and they have attended national and international conferences and seminars.

The Department has professionals with ample industrial experience as visiting faculty leading some of the significant and contemporary subjects. The department believes in continually enhancing the expertise of the faculty by deputing them to various workshops and faculty development programs.

The department is committed to deliver quality management education. Facilitating this, processes like Teaching process, Proctor process, Quality Audit programs are in place. The department has conducted programmes and workshops for the benefit of teaching Fraternity and students.

DEPARTMENTAL ACTIVITIES 2015-2016

- **Received a grant of Rs. 10,000** for the project titled “Financial & Economic Assessment of Bio Diesel Production in Bangalore City”, Sponsored by Karnataka State Council of Science & Technology (KSCST).
- **Indian Council of Social Science Research sponsored** Two days National Seminar on “Sustainable Development in Power Sector through Renewable Energy Resources” and two Days National Seminar on “Rural Women Entrepreneurship in India: Way for Social and Economic Empowerment”.
- Panel Discussion on Union Budget 2016-17.
- Special Training Programme on “Cyber Laws”.
- Capacity Building Programme In “How to write Research Proposals” has been delivered by Dr. Anitha Kurup, Professor, NIAS, Bangalore, Dr. Gopal Naik, IIM, Bangalore. and Dr. Ashwin Kumar, IIPM, Bangalore.
- Department visited The Bengaluru Urban & Rural District Milk Producers’ Co-operative Societies Union Limited (Bamul).
- FDP On “Research Methodology”.
- National Conference on “Business Excellence for Inclusive and Sustainable Growth”.
- One day workshop on “Stock Market Trading”.

PROCTORIAL SYSTEM



The Proctorial system is introduced with the main objective of providing supportive care and advice for the students to help them in their academic and personal problems, if any, from time to time and to counsel them appropriately. This system would help the students to complete their studies comfortably and successfully.

Proctorial process is a supportive process, where in Chief Proctor heads the system. Every department has a deputy chief proctor and all the faculty members are called the proctors. Each proctor is allotted to about 20 students. The proctor acts as a local guardian helping to solve the academic and administrative problems faced by his wards, she/he would help in solving personal problems, if any. Proctor maintains a student information record for each of his/her wards, this record gives all the details of the students, in terms of course registration/course dropping/withdrawn/re-registration etc.. In addition to the details of Proctor-student/Proctor-parent meetings held from time to time. It also gives the details of the performance of the candidate in the semester end examination. Proctor dispatches two rounds of progress reports at the end of 45 and 90 days from the day one of starting of the semester.

Chief Proctor conducts scheduled meetings with the deputy chief proctors and HODs to update the details of the Proctorial process.

Student Information System

MSRIT has in place a Student Information System (SIS), an online application that offers students and their parents /guardian up-to-date information. The attendance/CIE Marks entered by each faculty member in SIS is constantly monitored in the Chief Proctor's Office. This information is displayed in the respective departments. Finally this data is used to prepare the candidate eligibility list for the semester end examination. Student whose performance is not up to the mark is asked to appear for counseling with the proctor/deputy chief proctor/chief proctor in order to help the student to improve upon in the coming semesters

Dr. G.S. PRAKASH
CHIEF PROCTOR

LIBRARY AND INFORMATION CENTRE

(Welcome to treasure house of wisdom)



The Library begins its existence in 1962. The library with its modern collection knowledge resources and innovative information services fills an essential role for students, faculty and the surrounding community in their intellectual pursuits. It is a centralized Air Conditioned fully automated library predominantly related to Engineering, Technology, Management and allied subjects. The collection comprises of 1, 16, 304 volumes of Books with 31,770 Titles. Library subscribes to leading National /International e-Resources pertaining to Engineering & Management, which include 8611 full text e-journals from IEEE [IEEE Conference Proceedings (6514), 3043 IEEE Standards from IEEE/IET Online], Springer link, ASCE, Taylor & Francis, Proquest and K-Nimbus. We have also subscribed to 21997 e-Books from Springer and Taylor & Francis publications. The e-resources can be accessed remotely. The other learning resources preserved in the Library are 3720 Bound volumes of journals, 4404 Compact Discs (CD's), Handbooks & Data Books, 75 Video Cassettes &

Indian Standards. Library has developed a State of the art Digital Library with Wi-Fi connectivity & automated all services through Web based Library Management Software called “**Libsys 7 Rel. 3**”

Recent developments in enhancing user Services:

- As a routine, Orientation programme has been conducted for I year students on 7th August 2015 to familiarize them with all library facilities & services.
- Subscribed to IEL Online (comprehensive IEL online package which covers full text vast resources of IEEE Journals, Conference proceedings & IEEE Standards with back files from 1988), ASCE Digital Library, Springerlink, Elsevier Science Direct and Proquest (Engg. & Management) .
- To enhance the use of e-Resources, we have subscribed to Cloud based remote access solution provided by K-Nimbus, and has been already implemented to all users of Library to access to resources 24x7 from remote location on user authentication
- Initiated Anti Plagiarism web tool to check similarity of Thesis, Dissertations, Journal Articles etc of Students and Staff through Turnitin web tool.

ICT enabled services:

Library and Information centre is providing the automated Library services through LIBSYS (Release 3.0), and we have set up a Digital Library having 143 Personal Computers with a higher bandwidth speed of 100 mbps.

Important web links to our services are available through the following links:

- LIBRARY WEBSITE: <http://www.msrit.edu/library/>
- E-RESOURCES: <http://www.msrit.edu/msrit-e-resources/>
- WEB OPAC: <http://172.1.20.20:8080/jopacv11>

- INSTITUTIONAL REPOSITORY: Dspace IR (Q.Papers, Research Articles etc.): <http://172.1.20.21:8080/jspui>
- E-LEARNING (NPTEL): <http://172.1.20.9/localguru2>

Institutional Membership & specialized services:

Library caters to the user needs by becoming a member of the following Institutions of National importance

- DELNET www.delnet.nic.in
- BRITISH COUNCIL LIBRARY www.britishcouncilonline.org
- INDIAN INSTITUTE OF MANAGEMENT www.iimb.ernet.in/

- CMTI, BANGALORE www.cmti-india.net/

Achievements & Contributions of Staff:

Peer reviewed Articles Submitted for Journal Publications:

- Analysis of Engineering College Websites in Karnataka State: A Webometric Study by Dr.Shivaputraapa Kattimani
- Cloud Computing Libraries in the Era of ICT by Dr.Shivaputraapa Kattimani

Ph.D Registration:

- Mr.Vinod Kumar, Assistant Librarian has registered Ph.D in VTU, Belgavi under guidance of by Dr.Shivaputraapa Kattimani

SCHOOL OF ARCHITECTURE

With a vision in mind, life attains clarity.

The School of Architecture (S.O.A), M.S.R.I.T strives to attain the above said philosophy, and to constantly reach greater heights. Founded in the year 1992, the S.O.A is an amalgamation of the best of all worlds – in terms of academics, design competitions, co-curricular and extra-curricular activities. The department encourages students to think outside the box, and gives them ample opportunity to do so. 'INSPIRIT'- an annual inter college fest organized by the students and faculty of the department paves way for excellence in creative fields, while the annual magazine of the department, 'RENDER', brings forward the literary talent of the architecture family. Within the department, there is solidarity of thought, creativity of the mind, and keenness of spirit. Together, these join and form the building blocks of the School of Architecture.

School of Architecture organized knowledge trips to Pondicherry Goa Kerala and North Eastern States during Feb/ March 2016 to have greater interaction with Master Architects and eminent

Professors of premier Schools of Architecture to expand knowledge base of students with case studies of Historical and Contemporary Architecture of the region. A group of final year students attended "LA -BIENNALE "council at Venice for a work shop and worked under the guidance of stalwarts. SOA organized periodical guest lectures on all Fridays by Celebrity Practicing Architects. Conducted seminars and Symposia on various topics like " Nature in Design " , " Recent trends in Practice " , IPR and Professional Ethics , REVIT Architecture ' Structural Glazing , High rise buildings , Interior Design , Ceramic arts and many others. Students attended LBC Training Programme on Cost Efficient Design Techniques by Laurie Baker Foundation in Trivandrum for 1 week. They have won trophies in ZONASA NASA VTU events / Fests. The most important event of the year INSPIRIT 2016 Design Fest was held on April 15 & 16 2016. Students works were show cased in the Exhibitions held with events like Design competitions , Quiz, Debates ,Cultural programme & Treasure house.

PLACEMENT REPORT - 2016

Breaking our own record

Placement Department, MSRIT has proved to be the most preferred destination for campus placements from various organizations across the country.

The highlights of this 2016 batch campus placements are:

- a) This recruitment drive saw participation from **303** domestic and **2** international recruiters.
- b) Total number of offers made is **1746**
- c) The highest CTC : **Rs 50 LPA**
- d) The average CTC: **Rs 6.86 LPA**
- e) The number of startups visited : **22**
- f) The first time visitors: **77**
- g) Public sector organization BEL visited for campus recruitments. **6** students got selected
- h) International placement opportunity was given to students from Civil engineering. **4** students got selected
- i) Opportunity was given for the students to do their internships in various organizations. Nearly **64** companies have given internships.

This placement season saw the participation of esteemed firms like Cisco, Texas Instruments, Endurance, Amazon, Microsoft, J P Morgan Stanley, Google, Flipkart, Adobe, Thorogood, National Instruments, Intuit and so on which marked the ascent of MSRIT as a preferred recruitment destination.

Also some of the top recruiters were Accenture, Infosys, wipro, Cognizant, Capgemini and so on.

The first time recruiters included Infineon Technologies Pvt Ltd, Kennametal, Grofers, Knowlarity Communications, Berger paints and so on.

Recruitment drives were also conducted by Armed forces.

A lot of student connect programs were conducted to give a maximum exposure to the students.

- 1) Women in Technology, a coding challenge by Morgan Stanley
- 2) International women's day by Accenture
- 3) Girls in Technology by CISCO
- 4) Code for good by J P Morgan
- 5) Testimony 2015 by TCS
- 6) Interactive session by Infosys
- 7) CodeVita by TCS
- 8) iCode by Cisco
- 9) Hackathon by Societe Generale
- 10) Dialogues by CTS
- 11) i<code> by indigene
- 12) Interactive session by Vijaya Bank
- 13) Interactive session by Prof. Dr John R. Williams, Director, Auto-ID Laboratory, MIT, USA. Prof. Dr. Williams is internationally recognized in the field of computational algorithms for large-scale particle simulators and has authored two books and over 100 publications. He was recently named, alongside Bill Gates and Larry Ellison, as one of the 50 most powerful people in Computer Networksand so on

Photos: with MIT professor



Interaction Session with Director, Auto-ID Laboratory, MIT, USA

“We have achieved nearly 100 per cent placements for this 2016 batch students in a record time of 8 months, breaking our own record.

Mr Kenneth bagged an offer of 50LPA



Mr. Kenneth V Kennedy
USN: 1MS12IS044

Photos of students selected by BEL



Mr. Punith Kumar R G
USN:1MS13EC411



Mr. Srihari Krishna G M
USN:1MS12EC120



Mr. Shivalingappa Salagar
USN:1MS13ME425



Mr. Madhumohan N
USN:1MS12EC053



Mr. Sooraj T O
USN:1MS12ME166



Mr. Raghavendra Shigihalli
USN:1MS12ME113

Photos of the students selected by EAMCO



Mr. Nilesh Rai
USN:1MS12CV070



Mr. Bharath Kumar T P
USN:1MS13CV402



Mr. Arun M
USN: 1MS12CV050



Mr. Sujith Shetty S
USN: 1MS12CV127

2016 IEEE - “Women in Engineering: Milestone to Intellectual Growth and Leadership Qualities”

International Women’s Day has always been celebrated with great vigour and joy at M. S. Ramaiah Institute of Technology, Bangalore-54 on March 8th to 9th 2016. The organisation strongly believe in equal emphasis on men and women when it comes to education.

The inaugural session was graced by Ms. Pamela Kumar, Vice President, Cloud Computing Innovation Council of India. She emphasized on the topic Sprint for Results: Management versus Technical Career - How to make the choice and the “mantras for success”.

Ms. Josephene Justin, Sr. Engineer in IBM India Software Lab spoke on the topic “Achieving Technical Eminence”. The follow up session was

addressed by Ms. Subhathra, Program Director in the IBM India Systems Lab. The topic of this address was “Against all odds

On the second day, we had Mrs. Sudha K V, Executive Director, Engineering, Dell who spoke on the topic “Are you industry ready?” This was followed by Ms. Vijaya K Matt, Workforce Diversity Program Manager, IBM India who addressed us on the topic “Building your Personal Brand”. The final session was delivered by Ms Gayathri Handanahal, Waste Impact (NGO).

This women’s day event was one of the most memorable events ever conducted.



ENTREPRENEURSHIP DEVELOPMENT CELL (EDC)

TALK BY GAURAV MUNJAL AND ROMAN SAINI

Mr Gaurav Munjal is an entrepreneur who has founded two companies namely Flatchat and Unacademy. an avid reader and a blogger. Mr. Munjal is a very well-known personality in startup scene. Dr. Roman Saini is a motivational speaker and one of the youngest IAS officers. He along with Mr. Munjal started Unacademy. The event was a sort of talk show where Mr. Munjal and Dr. Saini were asked questions from students regarding their journey and what they overcame to be become entrepreneurs.



They asked to stop making excuses and start working towards their startup idea if they want to succeed. Excuses like job security, salary and family pressure is what holding back most people from pursuing their ideas.



What a person learns after failing at something is more than what a person can after gaining success. So they urged students to learn from their mistakes and keep innovating to achieve success.

The also stressed on the importance of reading autobiographies and books which help people avoid committing the same mistakes and thus save valuable time, energy and effort.

They also asked students to spend less time on social media and concentrate on their ideas and studies.



VENTURE HACK: ELEVATOR PITCH

What if you get a chance to pitch your idea to an investor, but all that you have in mind is to be said while both of you are in the elevator! Elevator pitch is succinct and pervasive sales pitch. The idea originates from having to impress a senior executive during a brief ride in an elevator. The competition had students pitching their ideas to our panel of judges in a very short time interval of five minutes.

The judging panel included Mr. Ponnappa P G, a startup mentor and investor and Mr. Rithin Ravindran. A total of eight teams were selected to pitch their ideas to the judging panel.



The teams were very keenly scrutinized by Mr. Rithin Ravindran who gave a lot of insights into what really happens during an actual elevator pitch.

The teams were judged based on their ability to grab and hold attention, the problem and the solution and the accessible market. The winners of the competition were announced



ADVERTISING WORKSHOP

This was a really big event to approach public mind to think up to a different level.

A workshop over how to publicize goods was conducted giving people various topics to work upon like:

- Students were divided into a group of six.

- Every group was given a virtual product to advertise.
- The products were like an old mobile phone which no one uses, a hair removing shampoo, an umbrella etc.
- The students were asked to sell such a product which is out of public demand.
- The ideas of advertising with what people came was phenomenal.
- Their skills were highly appreciated by the jury members and the better of the two teams were given a face off round to encourage the hard work.



A great change was noticed in the way in which people used to think after the workshop. The base part of an entrepreneur is to learn how to advertise his own stuff which was achieved by the help of this amazing round of workshop meet.

This event was extremely influential and it actually changed the mind sets of the people. And being great in magnitude it assembled around more than 500 people and the outcome was highly appreciated.



PERSONALITY DEVELOPMENT TRAINING

'Better the personality better the person' is what this meet aimed at.

There were over 500 students taking part in the event which introduced a new level of glint in the personality of the people. The aspiring entrepreneurs were given a great task to perform like to:

- Introduce themselves among the ventures and officials.
- They were taught to make their resume to present at an official level.
- They were asked to tell the unique quality about them.
- They were groomed on how to present their idea over a higher level.
- Professional interaction skills were emphasized upon.



A great improvement in the interactive skills were noticed. People gave a very positive reviews after this training session. This event was called to train people to present themselves at a highly professional level.

The motive to change the personality was achieved very prominently and the outcome and review of the public very highly acknowledged. This was another very affective event to develop new entrepreneurs for the nation.



VOLUNTEERS QUIZ

An enthusiastic start by our team to introduce the new volunteers to the entrepreneurship world.

The fresh minds were given a set of interesting questions to put their views upon and share ideas among the others. The round of discussion went off in the series like:

- A set of question upon what is entrepreneurship according to them.
- A situation was given to express their ideas upon.
- The ideas were further discussed and put up together to encourage students to think out of the box.
- Discussion over personal life and views were done.
- A highly accessorized set of reviews were given to each student's idea to brighten the minds and encourage them.



The team encouraged the new comers with a huge level of personality development skills

and a great outcome of the meet was received. New ideas were inculcated among the students by sharing their own views and a level of comfort was achieved by the students after the interaction and quiz round.

Curriculum Vitae:

The EDC 3rd volunteer meet had a huge turnout. The volunteers were enthusiastic about the meet. Today's event focused on building Curriculum Vitae. Curriculum Vitae plays an important role in a student's career and CV defines a person's professional competency.

We started the event with a brief discussion by questioning the volunteers and took a head count of the number of people with a CV. As expected, we noticed that most of the volunteers did not have a CV and they never had an experience of making a CV. We then presented them with a list of key points and guidelines to be followed when preparing a CV. We clearly stated the do's and don'ts while making a CV, thereby mentioning the significance of each section.

Thereafter, we had a session of intellectual questions where two teams comprising of the volunteers competed against each other. The questions involved reasoning and aptitude based on interesting interviews which have taken place in the past all over the world. The volunteers had a great experience as they discovered a new perspective about their personality.

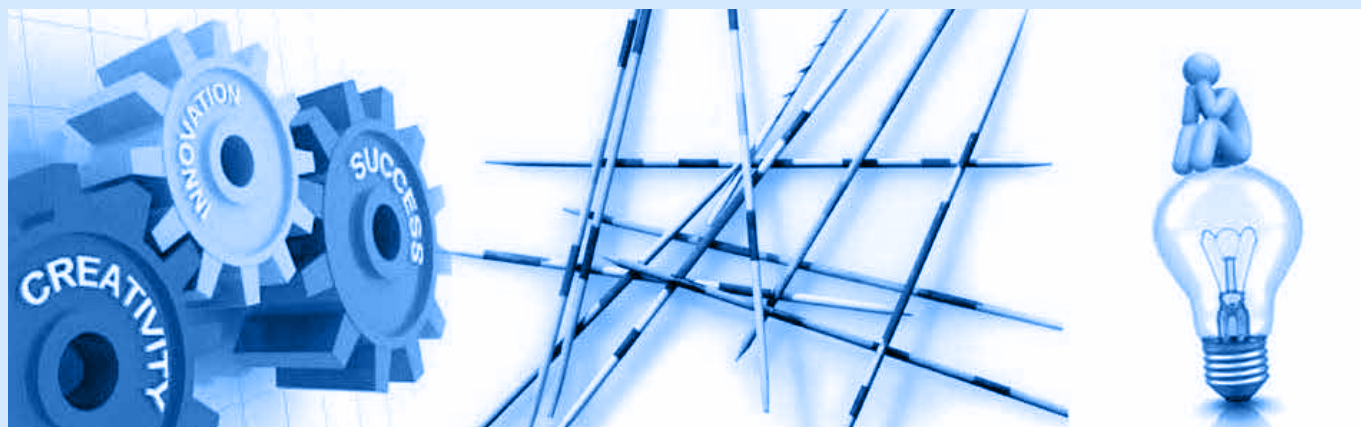
NEN E-week :

To spread the spirit of entrepreneurship, we have conducted many programs from 8th Feb

2016 to 15th Feb 2016. In this regard we have conducted many events inside and outside the campus of MSRIT, Including Business plan competition which was conducted in association with VTU, Belgaum (state level).

Many events conducted during even semester of 2015-16

- Mock Stock
- Treasure Hunt
- JAM
- Case Study
- Event Management of Open Day – Project Exhibition 2016
- The Open day-Project exhibition, “Pradarshana 2016” was held in MSRIT campus during 11th and 12th may 2016. The inauguration of this event took place on 11th may 2016 at 11:00 am by the chief guest Mr. Ganapathy, CEO Axilor Ventures and with the guest of honor Mr. P. G. Poonappa CEO of Limites Non along with our Honourable Vice Chairman Sri M R Seetharam and other dignitaries.
- On 11th may 2016 our honorable Vice Chairman visited all most all the stalls and encouraged the students of MSRIT in diversified areas to take their projects to the higher level, along with the chief guests. On 12th May 2016 our honorable Chairman along with the Secretary GEF, and CFO visited most of the stalls and interacted with the students and few faculty of MSRIT.



DEPARTMENT OF EXTRA-CURRICULAR ACTIVITIES

Dr. M S Ramaiah Memorial Parliamentary Debate Tournament (31st July – 2nd August 2015)

Dr. M. S. Ramaiah Memorial Parliamentary Debate, or MSRMPD as it is commonly known, is the annual parliamentary debate tournament held by the Literary and Debating Society under the guidance of the Department of Extra-Curricular Activities, which is in its sixth edition now. The tournament has grown to become one of the biggest debate tournaments in India and has seen the highest participation in any debate tournament in South India. The preparation for the tournament began in early June. For the coming months the Organizing Committee planned every aspect of the tournament and worked to give shape to our ideas and with the support and guidance from DECA, we successfully mobilized resources to host one of the most successful events in the college. MSRMPD 2015 was organized on 31st July, 1st and 2nd August. The tournament played host to some of the best debating minds in the nation and after five preliminary rounds, sixteen teams made it to the knockout rounds. At the end of grueling Quarter Finals, Semi Finals and Finals, Nayan Banerjee and Isha Jain's team from National Law School of India University Bangalore, emerged victorious. The other three finalist teams were from VIT University, Vellore. Some of the country's best debaters were part of the adjudication pool for the tournament and the chief adjudicators for the tournament were Sukrut Gejji from MSRIT, Sparshith Sampath from RVCE, Dibyojyoti Mainak from NLSIU Bangalore and Aparna Raturi from NLIU Bhopal. The Literary and Debating Society and the Organizing Committee, of Dr. M. S. Ramaiah Memorial Parliamentary Debate, take immense pride in presenting this landmark event in the

extra-curricular calendar of our college. We are grateful for the unflinching support we have received from the college administration and DECA and we hope that we did justice to the expectations from us. We hope to keep reinventing ourselves for future tournaments and keep making MSRIT proud.



Cultural Orientation (ICE BREAKER) for freshers (21st August 2015)

The cultural orientation is one of the most looked forward events of MSRIT. The fresher's are introduced to the various clubs in the college and to the truck-load of talent filled seniors. The clubs give them their chance to shine, nurture and explore their talents to become the best of all. The event kicked off with much enthusiasm mirrored by the fresher's. The acclaimed dance clubs of MSRIT- Black Illusion, FTN, Inferno, Invincibles, Kinkini, Lasya, Prayag showcased their wonderful talents. This inspired a lot of them to join the team and be a part of the legacy of the clubs. The Debating

Club-Debsoc, is one of the most happening club in the college. They have brought huge laurels to MSRIT in various national and inter-national debating circuits. The crowd was awed by their debating skills. The theatre clubs –Theatrix and Chiraranga is a platform for theatre enthusiasts to showcase their acting skills. The movie club- Ramaiah Talkies screens acclaimed movies and have deep discussions regarding the same. MSRIT has its very own student-run magazine- The 19A. This is a platform for writers, designers to share their ideas. This club also provides an opportunity to explore beyond ones limit- both in writing and designing abilities. Quiz and Literary Club helps to showcase ones quizzing abilities. The members of this club constantly add a feather to MSRIT'S cap, by winning many competitions across the state. The Indian and western musical clubs render the most entertaining “once more” performances. The crowd got to witness this, thus inspiring budding artists. The photography club- iClick nurtures like-minded group, to capture the essence of beauty in everyday life. The nature club helps one become closer to nature. This is achieved in their treks and nature awareness programs. The School Tree Project aims at providing underprivileged kids with the finer aspects of good education. This club gives a wonderful opportunity to discover new talents. Thus with a wide range of clubs, the crowd at MSRIT is spoiled for choices. One is served with ample opportunities to explore their hidden talents.

Freshers' Quiz (1st October 2015)

The fresher's quiz for the academic year 2015-16 was conducted on 1st October 2015, the quiz was sponsored by www.tatynrds.com an online book portal which gave vouchers to the winners and runners as prizes. The quiz saw good amount of attendance from the first year batch of 2015, the batch was very enthusiastic in answering all the questions of the quiz. The quiz was conducted by the third and fourth year

members of the quiz club of MSRIT.

The event was conducted in the Division of Electrical Sciences Seminar Hall (Hi-Tech) on the 1st of October 2015 from 3 P.M onwards, the event started off the Dr. K.R Phaneesh, the coordinator of the Department of Extra Curricular Activities, MSRIT addressing the fresher's and telling them the importance of quizzing in life. He wished the students the very best and expected some good quizzing brains to come out of the current first year batch to take the legacy of the quiz club forward.

The quiz consisted of two main rounds, a preliminary round which was open to all the fresher's, i.e. first and second year students of MSRIT, each student had to form a team of 2 or 3 to take part in the preliminary round. The top six performing teams of the prelims would go to the final round. The competition was very healthy among the students to make it to the final round. The final round was made to introduce the fresher's to the type of quizzes that are conducted in the college level, the fresher's coped really well with the format in a very small amount of time.



Shoutout- The Intra-collegiate Theatre Fest (8th – 10th Oct 2015)

ShoutOut is the annual theatre fest held by The Theatre Society under the guidance of the Department Of Extra Curricular Activities, which is in its eighth edition now. The preparation for the fest began late September with the Organizing Committee planning every aspect of the fest and working to give shape to their ideas.

With the support and guidance from DECA, we successfully mobilized resources to host one of the most successful events yet. This edition of ShoutOut was held from 8th October 2015 to 10th October 2015. The fest saw participation from almost the entirety of the college, whose efforts were appreciated by an enthusiastic audience on all 3 days. The event showcased 23 Skits, 24 One Acts and 9 Short Movies, 2 Short Ads and a documentary which left the judges amazed with the young talent present in our college. The fest saw a huge array of genre being covered such as musicals, historical adaptations amongst many others. At the end of each day, the judges provided their valuable insights and feedback on each and every performance which was well received by every performer. The award for best one act was awarded to Wasim Nazami for "Papad". The award for best skit was awarded to Vamshi Krishna for "Sanju Mathu Geetha". The best short movie was awarded to Kiran Kumar for "Miss Understood". The Organizing Committee of ShoutOut 8.0 takes immense pride in presenting this monumental event in the ExtraCurricular calendar of our college. We are grateful for the unflinching support we have received from the college administration and DECA. We hope to keep reinventing ourselves for future editions and to bring the latent theatrical talents of all students to the foreground.



Kannada Rajyotsava (3rd – 6th November 2015)

Kannada Rajyotsava has always been the most celebrated event during an odd semester. Kannada Rajyotsava 2015 was no less, as it was

organized, publicized and executed to perfection. This edition of Kannada Rajyotsava was held on the 3rd, 4th, 5th and 6th of November 2015. The events conducted during these 4 days were well received and appreciated by the college faculty and students.

The event was flagged off by a performance by the music team and the following events were conducted -

Day one (3-11-2015)

- Street dance
- Fun events
- Photography

Day two (4-11-2015)

- Counter strike
- Poetry
- Antakshari
- Teachers Antakshari
- Karaoke
- JAM
- Debate
- Painting
- Voice of MSRIT

Day three (5-11-2015)

- Personality
- Staff Quiz
- Light Vocals
- Creative writing
- Face painting
- Treasure hunt
- DC
- Aircrash
- Cooking

Day four (6-11-2015)

- Rangoli

Main stage events (6-11-2015)

- Chief guest of the function were Sri. M S Narasimhamurthy and Sri P Ravishankar
- Prize distribution for all prize winners in various events
- Dance performance by all dance teams of our college

- Fusion music performance by Indian music team of our college

These performances left the judges amazed with the young talent present in our college. At the end of each day, the judges provided their valuable insights on every performance and feedback, which was well received by every performer. With the success of the event, the next year's Kannada Rajyotsava is expected to raise the bar to a whole new level.



UDBHAV 2016

(30th, 31st March & 1st April 2016)

The annual cultural extravaganza of MSRIT, that has come to be known as Udbhav, continues to grow in size and magnitude, this year it was scheduled to be held between the 30th of March and 1st of April. It is no wonder, that across the years it has become one of the biggest and well-known fests in Karnataka, with a footfall of approximately 15,000 people and participants from over 35 colleges across Karnataka. Udbhav being a melting pot of culture, draws the talent of youth from across the state, showcasing the colossal talents that lay dormant in them. Spanning over 3 days,

this fest not only provides a platform to its own students but also to various young aspirants across the state. The events are categorized into intercollege and intracollege to create an atmosphere of maximum exposure to the students. Each year, we host 27 intracollege and 30 intercollege events, which enable students to showcase their talents in the fields of art, music, literature, dance and theatre, amongst many others. It incentivises and encourages them to do so by giving away various prizes and rewards. To create an atmosphere that is not only conducive to bringing out hidden talents, but also to create a sense of youthful exuberance, the fest carries various themes, this year's being "#16, Circus Street" To bolster our efforts in facilitating the metamorphosis of students from promising aspirants to future leaders, the MSRIT Management has been thoroughly supportive and has helped us monumentally in transforming Udbhav into what it is today. Also, various companies have come forth and endowed us financially and some in kind. This year, our title sponsor, Bengaluru Football Club (BFC) have rejuvenated the culture of football in India. Yokohoma, Bhagirath Constructions and Cognizant, being our associate partners, have also greatly helped us in bringing this fest to life. TVS, Radio Indigo, CreatHives, Hello Buddy, Karnataka Bank, Biriyan Night Out (BNO), Blue Frog, Axis Bank, Zebronics and Vijaya Bank have also contributed significantly in making this fest a success. This fest has created a niche for itself in the hearts of the students, and we hope that it continues to do so along with the ever enduring support from the college management.





16TH ANNUAL VTU YOUTH FESTIVAL “CHAKRAVYUH” (7th – 10th May 2016)

Every year, VTU organizes one of the most widely participated cultural extravaganza in Karnataka, at different host colleges affiliated to the university. This year, VTU fest was held in Moodabidri, at Alva’s Institute of Engineering and Technology. MSRIT was represented at the fest by a selected contingent of 38 talented students, under the guidance of Dr. K.R. Phaneesh and Mr. Sanjay H.S. of the Department of Extra-Curricular Activities. With the encouragement from the college

administration and faculty, the contingent was able to participate in the fest without any major hassle or letdown. At the festival, there were five categories of competitive events, namely, Dance, Music, Fine Arts, Literary and Theater, under which there were several events like “Western Group Music”, “Indian Group Music”, “One Act Play”, “Skit”, “Mime”, “Elocution”, “Debate”, “Cartooning”, “Clay Modeling” etc. We participated in 23 events out of 25 events, making our contingent one of the most diverse contingent at the fest. We began our winning streak on day one itself, and it became evident by day two; as we were positioned favorably in top three in events like Skit, Western Vocal Solo, Clay Modeling etc. With enough points in our bag we were already near the top spot and we solidified our lead with spectacular performances on day three, especially in Western Group Music, One Act Play and Mime. On day four our rousing performance in Indian Group Music, Folk Orchestra etc. brought us laurels and appreciation from everyone. Finally, at the end of the fest which lasted four days, saw participation from over two hundred colleges, our cumulative score which has incidentally also been our highest ever, placed us second amongst all participating institutions -as we lost the top spot to the host college by a nick. Additionally, we won the overall category award in Theater and Music, making MSRIT the only contingent to do so, at the festival. It is worth noting that the MSRIT contingent put up some of the most iconic performances at the fest. Our One Act Play “Manjha” was one of the most critically acclaimed play and received standing ovation during the event. Additionally, our performances by Indian Group Music and Western Group Music teams, which also won in their respective categories, were some of the most well-received performances as made evident by resounding rounds of applause our teams received. While none of this would have been possible without the collective

commitment shown by the contingent, it is important to thank two people- Dr. K.R. Phaneesh and Mr. Sanjay H.S. -our faculty coordinators who showed exemplary dedication towards the cause of winning this festival. The encouragement and support that we received from them has been a vital factor in catalyzing the success of the MSRIT contingent at the fest. We are grateful to the college administration, our Principal, members of staff and faculty and especially, the Department of Extra Curricular Activities for their unwavering support to the team. Organizing logistics, constituting a team and finishing relevant paperwork at record pace, would not have been possible without the dedicated efforts of the team managers, team captain and the college support system and, we hope we have done justice to the expectations

of the college from us. We also hope that the endeavor to support extra-curricular activities in the campus receives continued patronage, so that the student body can continuously make MSRIT proud at prestigious events, like the VTU Youth Festival.

Here are a few glimpses from the festival:



PRADARSHANA 2016 - Project Exhibition

Pradarshana 2016, two days Open Day - Project Exhibition for the academic year 2015-2016 was organised at MSRIT during May 2016. Our beloved chairman Dr. M.R. Jayaram & vice chairman Sri. M.R. Seetharam & out principal Dr. N.V.R. Naidu released the proceedings of Pradarshana 2016, a book of abstracts of all the projects carried out by the students from various engineering disciplines of MSRIT. Around 350 projects were displayed by students of 13 Undergraduate Programmes under one roof. The projects from each department were evaluated by a panel of external judges and winners of these best projects were felicitated at the Farewell function held in May 2016. The media partners for this programme were TV9

and 92.7 BIG FM. The programme was telecasted by Chandana TV in May 2016.



DEPARTMENT OF SPORTS

VTU ACHIEVEMENTS 2015-16

GAME	TOURNAMENTS	POSITION
BADMINTON (WOMEN)	VTU Bangalore Central Zone held at BNMIT on 23rd & 24th Aug. 2015 V/S BMSCE	Winners
	VTU Inter Zone held at NMAMIT, Nitte from 26th to 28th Aug. 2015 V/S BMSCE	Winners
BADMINTON (MEN)	VTU Bangalore Central Zone held at BNMIT on 23rd & 24th Aug. 2015 V/S BMSCE	Runners
	VTU Inter Zone held at NMAMIT, Nitte from 26th to 28th Aug. 2015 V/S DSCE	1st Runner-up
CHESS (WOMEN)	VTU Bangalore Zone held at HKBKCE on 30th & 31st Sept. 2015	Winners
	VTU Inter Zone held at SJMIT, Chitradurga from 2nd to 4th Sept. 2015	Winners
CHESS (MEN)	VTU Bangalore Zone held at HKBKCE on 30th & 31st Sept. 2015	Runners
TABLE TENNIS (MEN)	VTU Bangalore Central Zone held at CMRIT on 7th 8th Sept. 2015 V/S BIT	Winners
TABLE TENNIS (WOMEN)	VTU Bangalore Central Zone held at CMRIT on 7th 8th Sept. 2015 V/S BMSCE	Semifinals
SWIMMING (MEN & WOMEN)	VTU Single Zone held at BMSCE, Bangalore on 23rd & 24th Sept. 2015	SILVER- 5 BRONZE-3
THROWBALL (WOMEN)	VTU Bangalore Central Zone held at Dr. AIT on 8th & 9th Oct. 2015 V/S BMSCE	Winners
THROWBALL (WOMEN)	VTU Inter Zone held at GSSIETW, Mysore on 13th & 14th Oct. 2015 V/S NIE Mysore	1st Runner-up
JUDO & WRESTLING (MEN)	VTU Single Zone held at MVJCE, Bangalore on 19th & 20th Oct. 2015	JUDO SILVER- 2 BRONZE-1 WRESTLING BRONZE - 3

BEST PHYSIQUE (MEN)	VTU Single Zone held at GAT, Bangalore from 29th & 31st Oct. 2015	90 KG GOLD 85 KG BRONZE TEAM CHAMPIONSHIP 4TH PLACE
VOLLEYBALL (MEN)	VTU Bangalore Central Zone Volleyball tournament 2016-17 Held at Cambridge IT on 29th Feb. & 1st March 2015 Final v\s NHCE	WINNERS
CRICKET (MEN)	VTU Bangalore Central Zone Cricket tournament 2016-17 Held at MSR IT from 24th Feb. to 1st March 2016 Final v\s BMSCE	WINNERS
	VTU Inter Zone Cricket tournament 2016-17 held at NIEIT, Mysore from 4th to 7th April 2016 Final v\s GIT, Belagavi	RUNNERS
ATHLETICS (MEN & WOMEN)	VTU Inter Collegiate Athletic Meet 2016-17 held at Sir MVIT, Bangalore from 24th to 27th March 2016	WOMEN 100 Mtrs.- Gold Long Jump – Gold 4x100Mtrs, Relay- Gold Long Jump - Bronze <u>Women team</u> 2nd runner - up Sandur Praneeth Pradeep “BEST WOMEN ATHLETE 2015-16 MEN 4x100Mtrs, Relay- Silver
BALL BADMINTON (WOMEN)	VTU Bangalore Zone held at Nandi IT, Bangalore on 4th April 2016	4TH PLACE
FOOTBALL (MEN)	VTU Bangalore Central Zone held at BMSCE Bangalore on 11th & 12th April 2016 v/s BMSCE	RUNNERS
HOCKEY (WOMEN)	VTU Single Zone held at RYMEC, Ballary on 20th & 21st April 2016 v/s RYMEC	RUNNERS
TENNIS (MEN)	VTU Bangalore Zone held at PESCE, Mandya on 5th & 6th May 2016 v/s BIT	RUNNERS
TENNIS (MEN)	VTU Inter Zone held at PESCE, Mandya from 7th to 9th May 2016	4th PLACE
TENNIS (WOMEN)	VTU Single Zone held at PESCE, Mandya from 7th to 9th May 2016	3rd PLACE

INVITATIONAL INTER COLLEGIATE ACHIEVEMENTS 2015-16

GAME	TOURNAMENTS	POSITION
TABLE TENNIS (MEN)	St. Johns Inter Collegiate Table Tennis tournament 2015	WINNERS
CRICKET	18th Dr. M S Ramaiah Memorial Inter Engineering Colleges CRICKET tournament conducted by MSRIT , from 1ST to 11th Sept. 2015 V/S RVCE	WINNERS
TENNIS (WOMEN)	BMSCE Inter Collegiate “KREEDOTHSAV 2015” From 1st to 3rd October 2015 V/S BNMIT	WINNERS
CHESS (WOMEN)	BMSCE Inter Collegiate “KREEDOTHSAV 2015” From 1st to 3rd October 2015	WINNERS
THROWBALL (WOMEN)	BMSCE Inter Collegiate “KREEDOTHSAV 2015” From 1st to 3rd October 2015 V/S BMSCE	RUNNERS
FOOTBALL (MEN)	BMSCE Inter Collegiate “KREEDOTHSAV 2015” From 1st to 3rd October 2015 V/S BMSCE	RUNNERS
BASKETBALL (MEN & WOMEN)	10th Dr. M S Ramaiah Memorial Inter Engineering Colleges BASKETBALL (Men & Women) tournament conducted by MSRIT , from 3rd to 6th Oct. 2015	MEN “A” TEAM WINNERS WOMEN WINNERS MEN “B” TEAM 4TH PLACE
BADMINTON (WOMEN)	RVCE Inter Collegiate “ MOMENTUM -15” from 15th to 18th October 2015 V/S RVCE	WINNERS
BASKETBALL (MEN & WOMEN)	RVCE Inter Collegiate “ MOMENTUM -15” from 15th to 18th October 2015 V/S RVCE	MEN TEAM WINNERS WOMEN RUNNERS
TENNIS (WOMEN)	RVCE Inter Collegiate “ MOMENTUM -15” from 15th to 18th October 2015 V/S RVC	WINNERS
FOOTBALL (MEN)	Sir. MVIT Inter Collegiate Football Tournament From 16TH to 18TH October 2015 V/S SMVIT	RUNNERS
TABLE TENNIS (MEN)	St. Joseph College of Commerce Inter Collegiate “ SPIEL -2016” from 6th to 13th February 2016 final V/S SJCC	WINNERS
HOCKEY (MEN)	St. John Medical College “ST. JOHN’s Inter Collegiate Hockey Tournament held from 6th to 10th February 2016 final V/S DSCE	WINNERS
HOCKEY (MEN)	MIT All India Inter Collegiate Hockey “REVELS-16” Tournament held at Manipal from 9th to 12th March 2016 final V/S MIT	WINNERS

BASKEBTALL (MEN)	MIT All India Inter Collegiate Basketball "REVELS-16" Tournament held at Manipal from 9th to 12th March 2016	WINNERS
BASKETBALL (WOMEN)	MIT All India Inter Collegiate Basketball "REVELS-16" Tournament held at Manipal from 9th to 12th March 2016	WINNERS
TABLE TENNIS (MEN)	MIT All India Inter Collegiate Table Tennis "REVELS-16" Tournament held at Manipal from 9th to 12th March 2016	RUNNERS
VOLLEYBALL (MEN)	Sai Ram College of Engg., Inter Collegiate Volleyball Tournament 2016 held at Sai Ram College of Engg., Anekal on 12th & 13th April 2016	3rd PLACE
BASKEBTALL (MEN)	State Level Inter Collegiate Basketball Tournament Organized by NHCE on 18th & 19th April 2016 V/S NHCE	WINNERS
VOLLEYBALL (MEN)	State Level Inter Collegiate Basketball Tournament Organized by NHCE on 20th & 21st April 2016 V/S NHCE	RUNNERS

In House Activities:

Organized 45th Annual Athletic Meet in college new ground on 5th March 2016.



Conducted MFL – MSRIT Premier Football League held from 20th to 30th April 2016.



Conducted Sports Felicitation, Cash Award for the Achievers and Annual Sports Prize Distribution Function on 3rd May 2016:



Team Achievements Photos



Cricket Team Secured Winners Trophy in VTU Bangalore Central Zone and Runners Trophy in Inter Zone Tournament 2016



Football Team Secured Runners Trophy in VTU Bangalore Central Zone Tournament – 2016



Hockey Team Secured Winners Trophy in MIT, Manipal All India Inter Collegiate Invitational Tournament 2016 and St. John Medical College Tournament 2016



Women Athletic Team Secured Second Runner up Trophy in VTU Inter Collegiate Athletic Meet 2016



Sandoor Praneetha Pradeep of II Sem Civil declared Best Women Athlete of the year 2016-17 in VTU Inter Collegiate Athletic Meet 2016 held at SMVIT, B'lore on 24th to 27th March 2016. She Won Gold in 100 Mtrs, Long Jump & 4x100 Mtrs Relay.



Women Basketball Team Secured Winners Trophy in MIT, Manipal All India Inter Collegiate Invitational Tournament 2016



Basketball Men Team Secured Winners Trophy in MIT, Manipal All India Inter Collegiate Invitational Tournament 2016



Table Tennis Men Team Secured Runners Trophy in MIT, Manipal All India Inter Collegiate Invitational Tournament 2016



Volleyball Team Secured Winners Trophy in VTU Bangalore Central Zone Volleyball Tournament 2016 held at Cambridge IT

MY SUICIDE NOTE



SACHIN N.H.
USN: 1MS13CV102
6th Semester
CIVIL Engg.

Hi so called Humans,

“It’s my suicide note written with eyes full of tears and a broken heart full of sorrow.

Myself tree, born in the soil and brought up in the forest where I have spent my most memorable moments enjoying the uncomparable beauty of the nature and the essence of the soil. The warm sunlight and the cool breeze took my heart away everyday.

Now I have grown up giving shelter to many small cute birds and insects. Those cuties used to play on me, talk to me, sleep on me, love me and we had the world’s best relationship. But this happiness didn’t end last.

My life was so peaceful and beautiful but it came to a tragic end like all other stories when a few group of builders entered the forest and started uprooting my friends one after the other.

My turn has not yet come as I live in the middle of the forest. I am going to die tomorrow. Birds and animals running away to save their lives stole the glory of the forest. The forest has turned into barren. Its heart breaking to see all this.

But before I am uprooted I wanted to make an appeal to all humans which is why I wrote this note.

Humans, please save us, help us. All we demand is nothing but a little bit of security. We are the reasons you get rainfall, we are the ones who give you oxygen to breathe, we combat climate change, we clean the air, we provide food. We are here to serve you.

Can you even imagine what would happen without us? No rains, no water, no shelter for animals. All that would be left will be land filled with pollution. You will have to face the hell here itself on the earth if we are all uprooted.

If not for yourself, just think of your future kids. Will they have a healthy atmosphere? Can they be happy? Definitely no. This suicide note is not to gain your sympathy but to create an awareness among all you people.

I am myself committing suicide before my turn comes tomorrow. I know I am useful to you even after I die. Always wishing you a happy, joyful and peaceful life...”

Yours Undemandable

Tree

**A Small world
just Big enough !**

Shambhavi
Alumni, ISE

Back in my small hometown,
 when I was a carefree school girl,
 All the time in my turbulent mind,
 only mischiefs would swirl.

Dad would wake me up
 without fail at daybreak,
 so that I never missed my bus
 for my own sake.

Mom would prepare my Tiffin
 That I was least bothered to taste,
 Knowing she put all her effort,
 That too, in such a haste.

Every evening after school,
 I would declare a war like a fool

against my invincibly strong brother
and we would nearly kill each other.
The only thing I dreamed of
was a big dazzling world where
I'd be in my life's next stage,
Where I would rule my life,
like a bird just freed from a cage.

And see! Here I am,
in a big city that hardly sleeps;
with young crowd and illuminated streets ,
glitzy cars and horn beeps.
nobody really hovers above my head,
addicted to "The Vampire Diaries", I go late to bed.

But now that I'm far away from home
and now that I live all alone,
I realize how life has become
Messed-up and junk-food-prone.

I wish the very same Tiffin box
came to me every day and night,
and I wouldn't spare a stuff cooked
by my favorite chef (mom),
eating with delight.

I wish my dad was here
to bring my life back into discipline,
To motivate and help me focus
towards what I have come here to win.

Every evening I crave to combat
with my-brother-aka-the-Karate-Kid,
No matter, how many times
I would lose balance and skid.
But I'm happily ready
to lose the duel, being fragile,
just to secretly enjoy
my little hero's triumphant smile.

People who really care for me,
who are always there for me,
Are the ones who aren't near,
Ergo I miss them everyday
Hiding the drop of tear.

This world's really big and beautiful,
Stupendous and vibrantly colourful;
Clubs, casinos, malls, multiplex,
Glamour twinkles at its apex.
But, with my true inner feelings unfurled,
I confess that I actually miss my old small world.

FLOATING ARCHITECTURE

NIHAL A SALDANHA

6th Semester

School of Architecture



Floating City by AT Design Office Source: Dezeen

We humans are obsessed with all things trying to kill us and we constantly ponder the question 'What will eventually wipe us out?' Having driven any threat, we have to near or complete extinction we hypothesize about fanciful events that will cripple human life- a nuclear holocaust perhaps, zombie apocalypse? or more recently global warming.

The last one however, is actually happening. weather we choose to believe it or not, sea levels are rising. Last year, an article in the New York Times said 2015 is the hottest year on earth so far, come 2016, the Washington Post had just the same thing to say about 2016, notice a trend? Bangalore supplements this fiery news where the highest temperature being officially recorded stood at 39.2°C (103 °F) on 24th April, 2016.

Architecture is ever ready to create solutions for a crisis that may arise in the future. Sometimes, even at the cost of turning a blind eye to the disasters that take place presently. However, nothing will stop the thinkers in us and so we look to build on the sea.

India is fourth, after China, Vietnam and Japan in the number of people who are threatened by the rising sea level. The cities in question- Mumbai and Kolkata- according to a report by Climate Central, a US based research organization, as many as

11 million people are at risk in Mumbai alone if the temperature rises by 4°C.

So after we ravage the land, will we poison the sea- we have the chance now to start anew and use clean and sustainable practices. In recent trends, 'permanently moored' or floating buildings cover all possible typologies from the Makoko Floating School to the conceptual MORPhotel by Ginaluca Santosuosso. With a spine like shape, the complex is composed of capsules with function as lobbies, guest rooms or house amenities. The 32-year-old designer says "When I started to think about the project I first wondered to myself what the most luxurious thing we have is? The answer was time. From this came the idea, and then concept, of this never ending travel across the world without a precise destination, without hurry." The hotel will constantly move, giving residents the opportunity to enjoy ever-changing views of the sea from their rooms. Access to the floating hotel would be through a bay-centric dock connected to a harbor or a helipad. Additionally, the half mile spine's detachable ends would allow guests to explore the surrounding waters. The facilities on board will include a swimming pool, restaurant and a garden. Self-sufficiency would be achieved by the use of solar panels, rainwater and wave energy harvesting technologies and a vegetable garden.



Makoko School Render
Source: Dezeen



MORPhotel
Source: Daily Mail

China being China, have come up with a 4 square mile floating city. AT Design Office's proposal is to build a series of pre-fabricated hexagonal modules that tessellate to create the city's infrastructure. Architect Slavomir Siska explains "The mega box is cast on a nearby island and floated to site before being connected." Transport will be supported

by a network of yachts and submarines, and recreational green spaces, farms, hatcheries and rubbish collection facilities with sustainable waste disposal systems will all be part of the city's infrastructure.



Floating City by AT Design Office
Source: Dezeen

The time to design infrastructure for the sea is not too far away, from house boats on the Dal lake in Kashmir to the backwaters in Kerala, we've been doing something similar for a while now. Ecoflolife, a company based in London, specializes in the creation of ecological floating habitats, and they've designed a concept village of 100 floating suites that can be positioned in calm waters. Our generation of Architects needs to research and popularize these technologies, and with an added dash of smart, sustainable, self-supporting ideas, we can make Floating Architecture the foundation for cleaner, greener coastal living.

HAPPY DAYS ARE HERE AGAIN

Soumasish Das
Alumni, ISE

This poem is more of a vision of a Utopian world devoid of conflicts, crime, strife and all evils. A world without borders or restrictions. A world where God is our parent and we are His children and we are all tightly integrated together by His Divine Love....

Come on, come on everyone,
Let us celebrate and enjoy: a new era has begun!
Humanity has achieved its greatest gain,
Happy days are here again!

Destroyed, the fiendish slavery chain.
 Drenched humanity the 'free' rain.
 There is Hope and no Domain,
 Happy days are here again!

Embossed and guided by the Supreme God.
 Humanity recognises its only Guardian – The Lord.
 Aim of harmony, peace and tranquillity is the main.
 Happy days are here again!

In this world where there is no disparity,
 It belongs to one and everyone – it is humanity.
 In this world where there is no more pain,
 Happy days are here again!

Gone are those days of royalty and pride,
 Superiority, monarchy and corruption – all died!
 Dark, gloomy days of suffering are slain!
 Happy days are here again!

In this world full of unity,
 Brotherhood universally builds the city.
 So, long live all women and men,
 Happy days are here again!

Exam Invigilation- A Philosophical Touch

Dr. Sravanti V.
 Assistant Professor
 Dept. Of Biotechnology

It is summer and the faculty are back to that time of the year where we are loaded with exam duties. Some of us are awaiting the student results, as we believe that the results might indirectly reflect on our semester long effort. Whether it is invigilation or paper scrutiny most of us execute it as a mundane chore without much emotions attached. There is a lot more to invigilation duty than just physical labour. This is the only time when we sit down for three straight hours without using our electronic gadgets or having to do a serious preparation for a classroom lecture. This is a good time to study student personalities and reflect on our personalities as well.

In an examination hall there are always students who present themselves 10 minutes before the scheduled time and seem to be sitting down as if in deep meditation. Probably recapitulating the important concepts or may be mentally reciting hymns or mantras to fare well in the exam. Surprisingly these are the students who also turn in the answer scripts after the scheduled time. There are a second group of students who walk in on time, do a good job and leave on time. Then we have our famous lot of students who turn in late but manage to leave on time. Awesome time management skills!! This analysis of student attitudes reminds me of a middle school lesson that I learnt in a language class; "The story of Three Fish" (Telugu- Moodu Chepala Katha). The story is about three fish with different personalities and about how they face challenges. The first fish always plans for the future and is ready to take up challenges. The second fish life in the present, has a great presence of mind and believes in enjoying every moment. The last fish is lazy to the core and lives blissfully, oblivious of the outside world. As a kid I was amused by the illustration and the narrative ability of my teacher, but today I realize that the story has a lot more to it than just being another lesson in the course. Though this lesson was learnt 15 years ago it still seems to fit well in the present day world. This drives home the point that human nature and behavior has not changes over generations. No surprise that the same story is now taught in classrooms with high-end teaching methods and animations but the students graduate with the same stinking attitudes.

Today we have a great access to philosophical discourses, online sources of "thought for the day", inspiring whatsapp messages, personality development courses, but did we bother to imbibe these qualities and make our lives meaningful? Or did we just exchange and forward messages on whatsapp, emails and like people's pages on Facebook? It is sad, that in spite of all technological advancements for

sharing philosophical knowledge and online sources for self-motivation we continue to lead unhappy lives filled with discontent, dismay, envy and resentment.

Now getting back to the examination hall, another noteworthy scene is when the examiner distributes the question papers. The first glimpse of the question paper brings in a special expression on the students' face and is worth discussing. Few students are in cloud nine and feel that the question paper is made for them. Few of them look at their close friends at the other end of the room and exchange a smile as if to say "we are lucky dude only what we learnt has cropped up". A few do not scan through the questions, until they jot down a religious symbol on the answer script. Some go overboard, close their eyes and start praying before they can have a glimpse at the questions. A handful of them are heartbroken and instead of giving their best they keep brooding over what might be the consequence if they fail. On the other hand few students decide within 5-10 minutes that the current exam is not their cup of tea and they will fail. Still, they enjoy the three hours and do their best. Once in a while they keep looking at other students and the invigilator not knowing how to while away time and end up writing very creative answers. Such students end-up answering all questions without choice and will leave no stone untouched. Thus they make the life of the evaluator miserable and fun at the same time!!!

There is an underlying message that we can learn from this exam hall scenario. Irrespective of the students' preparedness and mind set all of them have only 3 hours to face the same set of questions and challenge their mental abilities. Few enjoy the three hours and score an S grade while few enjoy writing gossip and fail. The rest fall at various categories in between A-E grade. Likewise all of us have 24 hours and one lifetime to cherish. It's up to us as to how we make the best of it. We might be lucky enough and

life could bestow us with all the good things. Sometimes we could be talented and worthy but not lucky enough to get the best. Few of us could be lazy and misfortunate but a blissful lot. Whatever be our personality and preparedness we all have to face the examination of life. Unlike the examination hall scenario where a common question paper is answered, each of us has to face a different set of challenges in life and importantly life does not provide choice between problems. Thus life's examinations are tougher with no prescribed syllabus or scheduled timetable. In such situations we need to find a catalyst in our lives which/who can reduce the activation energy of the challenge and let us sail smoothly until we overcome it. Just like the students, our catalyst can be a true friend, a lucky pen, a religious mantra, internal courage or GOD. Above all it can just be our happy-go-lucky attitude and a positive thinking which can aid in overcoming difficult times.

So next time we enter an examination hall let's learn from our students and let's think of how we can pool up our ammunition and be ready to face the challenges of life with a positive attitude!! Positive attitude is contagious let's pass it on....

Good things I Ponder of MSRIT.....



Ms. Parkavi. A
Assistant Professor
Dept. of Computer Science & Engineering

MSRIT is a Metro high way to perform Innovations in Teaching...

MSRIT is a cosmodrome to launch researchers ...

MSRIT is an amphitheater to open up talents...

MSRIT is a grove to grow with Professionals...

MSRIT is a orchard to make people fruitful...

I Thank God for placing me in MSRIT.....Do you.....

The Broken Mask



Punitha P

USN: 1MS12EC093

8th Semester

Electronics and Communication Engg.

She knew humans have many layers. But she thought the inner most, darkest layer was who a person truly was. That's where she was mistaken. She thought that layer was their "true color". Oh! She was wrong! It took her a long time to realize that who a person truly was, is an amalgam of all these layers. The entire package!

She smiled, because now people will accept all her layers just like she had accepted all their layers. Oh! But she was mistaken again.

You see, each layer actually defines a part of your personality. It is defined by how you feel or react to a given situation. Now these layers can be as ugly as it gets or simply beautiful. We all need to accept the entire package because every single person has an ugly, painful, dark layer as well as a beautiful, delightful, bright layer. But people only want a "perfect" person, with only the beautiful layers.

Alas! We don't always get what we want. And we are never satisfied with what we get. But you know what is worse, we never leave behind what we get gracefully. We always find a way to destroy it and then leave it behind.

So here she was, standing in a room, surrounded by her friends. But she never felt more lonely. She was standing in a room, surrounded by her family. But she never felt more detached. Because she wore a mask. A mask to hide her ugly layers inside, from the view of the world. Afraid, people will judge her, hate her, shun her, be disappointed in her. She knew her mask was her only protection.

She put on her mask. Oh! She believed it was a solid mask covering her completely. Since no one even knew about the existence of such a mask. But deep down, she knew she had dropped it, intentionally and unintentionally, hoping someone will see her inner layers and not judge her. But no one saw. She put on her mask. Only each time, the mask was a little broken. Had a few cracks. Now it was a broken mask. Her broken mask.

She put on her broken mask. She let those cracks stay. In hopes, that someday, someone will notice these cracks. Find her mask, pull it down and maybe even accept her inner layers. Set her completely free. Accept her entire package.

As time passed, there came a few people, who seemed genuinely interested in her and they realized the existence of her mask. Some stayed, promised to not judge and persuaded her to drop her mask. They penetrated deep into her layers. Saw her entire package. Made her believe those layers were accepted. But they weren't. When there was no longer a mask to break, they fled. Ripping open her mask. Breaking it a little more.

Once again she put on her broken mask. She let the cracks stay. In hopes, that someday, someone will notice these cracks. Find her mask, pull it down and maybe even accept her inner layers. Set her completely free. Accept her entire package.

But this time she knew. One day her mask will break into a million pieces. That day she would not require a mask to put back. Because that day, she would be accepted. Till then she will put on her broken mask and continue her journey.

How to Empty and Free your Mind



Mr. Balasubramanya H S

Assistant Professor
Dept. of Mechanical Engg.

A nice story of Adi Shankaracharya teaching his students how to empty and free their mind:

“AdiSankara was walking through the marketplace with his disciples.

They saw a man dragging a cow by a rope.

Sankara told the man to wait and asked his disciples to surround them.

“I am going to teach you something” and continued...

“Tell me who is bound to whom? Is the cow bound to this man or the man is bound to the Cow?”

The disciples said without hesitation “Of course the cow is bound to the man! The man is the

Master. He is holding the rope. The cow has to follow him wherever he goes. The man is the

Master and the cow is the slave.”

“Now watch this”, said Sankara and took a pair of scissors from his bag and cut the rope.

The cow ran away from the master and the man ran after his cow. “Look, what is happening”,

Said Sankara

“Do you see who the Master is? The cow is not at all interested in this man. The cow infect, is trying to

escape from this man.

This is the case with our MIND.

Like the cow, all the non-sense that we carry inside is not interested in us. WE ARE

INTERESTED IN IT, we are keeping it together somehow or the other. We are going crazy trying to keep it altogether under our control.

The moment we lose interest in all the garbage filled in our head, and the moment we

Understand the futility of it, it will start to disappear. Like the cow, it will escape and disappear.”

Feeling Free and Relaxed is a Choice!

Teacher for All Seasons



Mrs. SUDHA. K

First Div. Asst.,
Department of Mechanical Engineering

A teacher is like Spring,
Who nurtures new green sprouts,
Encourages and leads them,
Whenever they have doubts.

A teacher is like Summer,
Whose sunny temperament
Makes studying a pleasure,
Preventing discontent.

A teacher is like Fall,
With methods crisp and clear,
Lessons of bright colors
And a happy atmosphere

A teacher is like Winter,
While it's snowing hard outside,
Keeping students comfortable,
As a warm and helpful guide.

Teacher, you do all these things,
With a pleasant attitude;
You're a teacher for all seasons,
And you have my gratitude!

Thank you, skillful teacher, For teaching me to be
A stronger, smarter person, Academically.

Don't drop the Chanel

Aishwarya Muralidhar

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6th Semester, Dept. of ISE

"Fashion can be bought but style one must possess"- Edna Woolman Chase.

Fashion, for me, is all about striking the right balance between comfort and trend. A good dress sense is not merely about wearing fashionable clothes, it's also about wearing them to the right place at the right time.

A fashionable and at the same time, a comfortable outfit can do wonders to one's confidence and self-esteem. Fashion is all about painting a picture of one's persona by playing with fabrics and colors. In today's competitive world, being up to date with fashion is the need of the hour. So much so that, people invest exorbitant amounts in owning the latest trends. Keeping it stylish yet easy on the wallet is not everyone's cup of tea.

It's no walk in the park to ensure your outfit is on point every time you step out the door, agreed. But, throw in a ton of elegance and poise and there's none taking notice of the faux pas.

It is extremely essential to dress complimenting one's body type, skin tone and

comfort level in mind. Fashion is an extremely subjective study where there is no defined right or wrong. There's just you. What seems appealing to the eye, works. Or so we wish. Each individual has a fashion sense entirely disparate from another. A common ground is hardly found. Especially, among the youth, there is constant scan of another's outfit followed by truckload of criticism. "OHMYGOD! What is she wearing? It's hideous" said everyone of us at some point in time.

Oh the infamous identity crisis in front of the mirror every morning or at least before a special occasion! All of a sudden, we are struck with penury and claim to have run out of clothes (just a pathetic excuse to go shopping)

After much pondering we somehow pick a decent outfit more or less suitable for the occasion. Now we stress over whether to accessorize or not. And if yes, what and how much. Then comes the pressure of matching the outfit with the right footwear. Remember, the venue and the occasion matter while making this decision. For instance, stilettos to a concert, no. How will you dance, baby girl? Then we have a mental debate over whether the makeup should be light or detailed. Along with the occasion the hour matters here. For instance, keeping the eyes dark for a night affair can do the trick whereas for a day event, play with colors if your outfit demands it. At the same time, make sure you don't look plastic. Makeup should never look made up.

When it comes to fashion, rule of thumb - less is more. Always. Donning everything in your closet all at once is called being overdressed not stylish.

Don't we always wonder why that which looks fabulous on the ramp looks horrendous when worn by the layman? No, we don't need to beat ourselves up for it, it's got to do with not just professional styling but also the lack of glamour in our day-to-day lives which is what

embodies the silver screen. Even hairstyles for that matter. The funkier, the better when it comes to showbiz but it's literally the opposite with the common world. This goes to show that what's on the cover of Vogue doesn't always work.

Fashion and the weather are a couple. They do everything together. Wearing boots on a hot, summer day is not only absolutely tacky but also downright uncomfortable. Sleeveless on a cold, winter morning, you asked for that running nose, lady.

Experiment. Be it scarves or junk jewelry or even hair extensions, make a statement. You were there, let that be noted. DIY tips are cost effective, give it a try. Not only will you end up with adorable stuff but they will also be one of a kind. I can't help but share this one DIY tip I came across in the last week's newspaper – Got an old pair of leggings? Cut a hole in between the thighs just big enough to fit your head through. The fabric that covered the legs will now act as the sleeves. Now you have your very own crop top!

Here are a few fashion tips that every non - hourglass woman out there can relate to:

- For the tiny humans out there like myself, avoid layers. Love your body for the way it is but if there is a way to hide your shortcomings, why not? Loving that the Pallazos made a comeback? Well, forget they did. You know what gives you length? Vertical stripes. Embrace high waist bottoms and stick to monochromes.
- On the heavier side and it shows? First step is to get your size right. Baggy clothes are not the answer, they merely add volume and you can really do without that. But this does not mean you wear body-sticking clothes. Invest in shape wear, they do let you breathe.
- Your only issue is your arms and thighs?

Disguise them. Draw attention elsewhere by using bold colors and patterns. Avoid puffed sleeved tops if your arms are not thin per se and in case of thunder thighs, you can use skirts. Try avoiding shorts especially hot pants.

It's a hectic day ahead of you but you hit the snooze button anyway. But showing up looking like a mess is not an option, right? For such calamities, one word – go-to clothes. These are your best friends, they will never let you down. An LBD, a pair of black heels, a white linen shirt and a pair of washed blue and black jeans are a must-have for every girl.

Dress to breakup with Photoshop and to cajole Instagram. Long story short, it's all about who paints the prettiest picture so pick up them brushes Senorita, the world is your canvas.

What is already dead cannot be killed

Ramya Hasini.D.V

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6th Semester, 'B' section. Dept. of ISE

You took away my innocence
My hopes, my dreams, my youth.
You took from me my very soul,
What could have been, I never know.

You crushed me as I screamed in pain,
Your words ripped out my heart,
Which stung me like a thousand knives
And left me torn apart.

You made me regret for all my choices.
No more do I have any voices.
But for all its worth, you must know,
What is already dead cannot be killed.

Standing here, a brighter future I see.
Leaving no traits of the past in me.
No more tears, no more pain.
No more fear resides in me.

Picture Imperfect

How TV shows changed my life

Annju Joy
Alumni, Dept. of ISE

There I was, feeling like I had had the worst year of my life. Like I had been kicked to the curb a dozen times and had been shat on by all the crows in Bangalore. In reality, it was quite the opposite. But I couldn't shake off this feeling. This feeling that had been lurking over my shoulders since 2am last night. Since I watched Breaking Bad take another depressing turn of events.

I should really differentiate the positive and negative impacts TV Shows have on our daily lives. Put them in 2 separate paragraphs, give them a nice little indentation and end with a distinct conclusion. But that's near impossible. Because as much as TV shows have ruined our lives, they have made us who we are today.

TV shows took the word 'addiction' to a level we didn't even know existed. Staying up till 3am, staring into those screens, we become so invested in the story they are selling to us that we become one of them. We somehow find ourselves spending more time with these characters, which are so perfectly sculpted, than our own families and friends. So socially, we are impaired. But is that so bad? When there are so many exciting stories to be told, so many secrets to be spilt, so much to learn, so much to appreciate, should we really not just indulge our senses and stay glued to the screen?

Whenever I finish watching a TV series, I embarrassingly find myself aping some characters on the show. When I finished a marathon of the British comedy 'Coupling', I found myself talking in, what my brain thought sounds like a British accent. But to everyone around me it just sounded like I was having a really painful stroke. But this is a very common effect. After Breaking

Bad marathons I found my friends getting angry at the universe in general. Then there are my "I can solve this problem if you tell me what colour socks you are wearing" friends (self-declared top notch detectives), my "I want to slit her elbow with this pencil and remove my trace with this eraser" friends (courtesy Dexter). You get the picture, right? But we also pick up on positive character traits we admire. We ape them too. We are left more educated about the world and with a slightly altered version of our views on what's 'good and bad'. Our minds are widened just a little to accommodate people who are very different from you. The people whom your society refuses to accept. But your favorite characters accept them, and now so do you.

TV shows turn into that friend with whom that socially awkward kid got through his teens. It's that sitcom which helped with the grief of losing someone dear. It's that drama that took my mind off my bad day and all my failings. It's watching the protagonist go through a similar situation as I am and I don't feel so alone anymore. But it takes our mind off of our responsibilities so well, that the day our laptops crash, we become that famous sinking ship. The illusion of that other dimension where you were one, with your newly found family, comes crashing down so fast. All the things you didn't do, stare blankly at your face while you stand there quivering trying to remembering your lines, your excuses.

So there you go, TV shows both makes and breaks lives. They make people despise all form of social interaction, but at the same time makes you best friends with the protagonist. It instills important values but at the same time loosens our morals. But it has become an undeniably important force in the kind of people we are today and how we live our lives here on out. So I hope you let TV shows continue to entertain you, amaze you and take you on adventures. They say that TV shows are the chewing gum of the mind. Just make sure you spit it out once in a while. Lest you forget what chocolate tastes like.

The Person whom I love the most

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A question came to my mind like a ghost
Whom do I love the most ??
I thought of him, I thought of her,
Who do care for me, Who do I care ?
Crossing the stream of images in my mind
Seeing the person of that kind
Who do I love the most ?
Ah !! I found the true image ;
At last in my heart,
The person who loves me the most;
And whom I love the most;
When I cried, the hands and the moods soothed me,
When I laughed, the heart sang the song with me,
Whose one kiss feels like heaven,
Whose one hug feels the whole world in my little
hand;
Whose one scolding of anger brings me to my right
way
Whose one love I tend to,
Whose beliefs that I am her whole and soul
Do you know who is it
One and only person "MY MOM"
I LOVE YOU MOM !!!!

Experiential Marketing is a future if not a near present.

Ms. Padmalini Singh

Assistant Professor

Department: MBA



Where traditional marketing connects with customers by communicating verbally and visually, experiential marketing tries to connect to customers by engaging all their five senses, primarily helping consumers to experience the brand. The ultimate goal of any experiential marketing is to form a strong bond and loyalty between consumer and a brand by creating memorable and emotional link.

Just think of it for a second; what will be better than marketing your brand for what it really stands for? viz. its products and services. By allowing consumers to truly experience your brand by seeing, touching and feeling is what experiential marketing is all about. It allows your product to speak for your brand and give rise to an experience that the consumer has never had before.

I strongly believe that each product have an ability to morph and become a service to create a stronger link with consumers.

Coffee cannot be a product forever. It has to extend itself to Café. Tea has to morph to become 'Cha Bar' and 'Milk Bars' where you

sip milk and pay Rs. 80 for a tall chilled value added glass.

Every product can be seen from 'service glasses'. And when it does, this is where the experiential element of a brand comes forth.

A cup of coffee at home will cost you all of Rs.2. The same cup at a Café will cost you Rs.40! And for this experience the consumer is willing to pay a premium for value addition.

Crossword Bookstore gives the experience of learning by not only selling its product that is a book but also by offering a seating arrangement where customers can read the whole book without a question being asked in an apt environment. To ensure that customers spent more time and to provide the experience of their product, Crossword have set up a coffee store within the outlet and also provides a space for rest-rooms.

Coca-Cola India to promote unity between India and Pakistan, placed 'Small World Machines' across various malls in New Delhi and Lahore. Shoppers in both countries were given a chance to interact with each other in real time through 3D touch-screens. At the end of every session, the machine dispensed a can of Coca-Cola to each one with the brand message 'Open Happiness' to experience the brand as a whole.

From the 'Talking Newspaper' campaign in 2010 to the 'Shiver Newspaper' in 2011, Volkswagen is credited with some of the most innovative marketing initiatives in India. On a Tuesday morning in 2010 (September 22), when the readers of The Times of India and The Hindu opened their newspaper, they were surprised to find their papers talking about Volkswagen cars.

Volkswagen came up with another similar innovation exactly after two years yesterday,

also a Tuesday (September 11). The luxury car brand used a vibrator to create a 'shiver' effect. The German automotive giant launched this innovative campaign for the Polo and Vento in The Times of India, Hindustan Times and The Hindu. The opening page simply read: "Feel the shiver of excitement?"

Today, traditional marketing have to be supplemented with experiential marketing to be able to connect with customers by creating personal experience and unforgettable memories. Just like Ola cabs who roped India's Formula 1 driver Narain Karthikeyan to drive customers to their destination creating memories for them to talk about on social media where word-of-mouth was spread doing half of the marketing for Ola cabs from reliable source. Experiential marketing is swiftly becoming a key tactics for all the brands in India.

"Thoughts and Words Affect Water too..."

"The Message from Water"

Ms. Jyothi E Singh

Assistant Professor
Department: MBA



"I think that we are most of the time not aware of our thoughts. We are also not aware on how our thoughts influence our lives. May be this is a message to become more aware..."

Water has a very important message for us. Water is telling us to take a much deeper look at ourselves. When we do look at ourselves through the mirror of water, the message becomes amazingly crystal clear. We know that human life is directly connected to the quality of our water, both within and all around us. If you have any doubt that your thoughts affect everything in, and around you, the information and photographs that are presented here, will change your mind and alter your beliefs, profoundly.



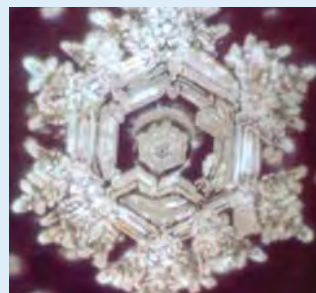
"Polluted water before prayer"



"After prayer is offered"

Water is a very malleable substance. Its physical shape easily adapts to whatever environment is present. But its physical appearance is not the only thing that changes, the molecular shape also changes. The energy or vibrations of the environment will change the molecular shape of water. In this sense water not only has the ability to visually reflect the environment but it also molecularly reflects the environment. Human vibrational energy, thoughts, words, ideas and music, affect the molecular structure of water, the very same water that comprises over seventy percent of a mature human body and covers the same amount of our planet.

Mr. Emoto has been visually documented these molecular changes in water by means of his photographic techniques. He freezes droplets of water and then examines them under a dark field microscope that has photographic capabilities. His work clearly demonstrates the diversity of the molecular structure of water and the effect of the environment upon the structure of the water.



"Am Happy"



"Am Satisfied"



"Am tension Free"



"Am I ugly"



"I like you"



"I will kill You"



"Thank you"



"Love and Appreciation"

"If thoughts can do this to water, can you image what they can do to us?"

"We are what our thoughts have made us, so take care about what you think. Words are secondary. Thoughts live, they travel far."

– **Swami Vivekananda.**

2^{74,207,281} – 1

Adwait Sharma

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4th Semester

Civil Engg.



This number was reported by a computer at the University of Central Missouri to GIMPS (Great Internet Mersenne Prime Search) server on September 17, 2015 which, much later on January 19, 2016 would be verified to be the largest prime number known to humans as of today.

This mega-prime would've been discovered much earlier had it not been for an error in the system that prevented the email notification to be sent which caused this number to remain in the database unnoticed for nearly 4 months until a routine database maintenance finally revealed this behemoth of a number, and confirmed it to be the largest known prime.

This beast was discovered under the project called GIMPS. The Great Internet Mersenne Prime Search (GIMPS) amasses a large number of volunteer computers around the world to search for large prime numbers. It assigns a number to each volunteering computer and has them check if the assigned number is prime. All you need to do is download their free software. And just like that, you're in the race to discover these leviathans! Your computer then keeps checking for the primality of the number(s) assigned to your computer by GIMPS until it finds one which is prime. This

is what Dr. Curtis Cooper, a professor at the University of Central Missouri who discovered this number, did. He had all the laboratory computers of the university signed up as GIMPS volunteer-computers, and one of them happened to spot a prime number.

Now let's talk about the actual number. This number dwarfs its predecessor by 5 million digits. While the previous largest prime, also discovered by Dr. Cooper under GIMPS about three years ago, had (mere) 17 million digits, this one has over 22 million digits. To put that in perspective, if you wrote this number in a single row, it would span over one thousand Titanics across! It took Dr. Cooper's computer over a month of processing time to check if it was a prime number. That's a deathly large number!

But there's a very concise way of writing this number in the mathematical community. This monster is simply denoted as $M(74207281)$.

Here's what that means.

You might have noticed the usage of the word "Mersenne" a couple of times above and you're probably wondering what the hell it means. Well, a "Mersenne Number" is a number of the form $2^n - 1$, where 'n' can be substituted for any natural number. For the sake of simplicity, mathematicians developed a shorthand notation for these numbers. $2^n - 1$ is written as $M(n)$ or M_n . Thus, $2^{11} - 1$ is often written as $M(11)$ or M_{11} .

And if $M(n)$ happens to be a prime number, then it's called a "Mersenne Prime". It is easy to check that not every Mersenne number is a prime. But an interesting fact to note is that if $M(n)$ is a prime, then 'n' has to be a prime as well. This trivial fact makes the search for large Mersenne primes much easier.

But the opposite is not always true. If 'n' is a prime, then it's not necessary for $M(n)$ to be a prime too. For instance, we know that 11 is a prime number. But just because 11 is prime, it doesn't mean that

$M(11)$ is necessarily a prime. Evidently, $2^{11} - 1 = 2047 = 23 \times 89$.

We won't get much into the gory mathematical details of Mersenne primes, but there's one question I'd like to address.

All of the largest primes that have been discovered in the past 20 years have been Mersenne primes! All of the top 10 largest prime numbers are Mersenne primes! Mersenne primes are dominating the leader board of largest primes. Why is that? Granted that GIMPS programmers have put in a ton of effort to create this project and there are thousands of enthusiastic volunteers all searching for the next biggest Mersenne prime, but why are we interested only in the primes of the form $2^n - 1$? In short, what makes Mersenne primes so special?

There are a couple of reasons for this. Firstly, and perhaps most importantly, because we have an incredibly efficient primality test (an algorithm to know if a number is prime), in fact the most efficient primality test, called Lucas-Lehmer test, which only works for Mersenne Primes. Sure, there are primality tests which can check if any given number is prime, but they take a hell of a lot more time than Lucas-Lehmer test does. Plus they can't tell you with absolute certainty if the number is a prime either. Lucas-Lehmer for the win.

Secondly, because prime numbers thin out as we go up in the number line (but never end). For instance, there are 25 prime numbers between 1 and 100 but there are just 14 primes between 900 and 1000. Going higher, between 9900 and 10000, there are 9 primes. Notice the decline in the number of primes. Higher in the number line we are, lesser the density of primes will be. This fact was proved over 3000 years ago by the Greeks. But the same cannot be said of Mersenne primes. Mersenne primes may eventually thin out to nothingness. So, unlike normal primes, there may be a "largest Mersenne prime". Having said that, it may also be that there are actually an infinite number of Mersenne primes. We don't know for sure. But if there is a

largest Mersenne prime, we never know when we'll stumble upon it. For all we know, $M(74207281)$ is the largest Mersenne prime! Hence, it is also for this (possible) quest that mathematicians are keen on finding larger and larger Mersenne primes.

Finally, another reason why mathematicians are so interested in Mersenne primes is that it is very intimately connected with another type of very interesting number called "Perfect Numbers". A Perfect number is a number whose sum of all divisors excluding the original number equals itself. For instance: 6 is a perfect number because $6 = 1+2+3$, and 1, 2 and 3 also happen to be divisors of 6 (proper divisors if you want to be technical about it), $28 = 1+2+4+7+14$, and again, 1, 2, 4, 7 and 14 happen to be proper divisors of 28. Next is 496, then 8128. And the list goes on. There is a hype in the mathematical community (largely unknown to the outside world) about finding large Perfect numbers as well, much like the hype about finding large primes.

So it turns out (quite amazingly) that there is a very intimate connection between Mersenne primes and Perfect numbers. Without getting into the gritty details, let's just say that given one Mersenne prime, we can find exactly one Perfect number. Since we know exactly 49 Mersenne primes, we know exactly 49 Perfect numbers too! And now that we have a new Mersenne prime (our new superstar $M(74207281)$), a new largest Perfect number has been found!

This is why Mersenne Primes are special. Not only because of the thrill of the chase of what may be the last and largest of its kind, but also because it's rare and, therefore, valuable, especially on the scale we are at now. And not only does it have surprising applications, but in some capacity shows what mathematics is about; it's about finding patterns and finding connections between what may seem disparate. It's about rigor and hardship, but at the same time, it is so much more about elegance and simplicity.

Give Me Back My Aseptic, Green Terrain

Abhishek Kumar Chaurasiya

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2nd Semester

Civil Engg.



It has all started from 20th century; the time which has experienced many encroachment of technologies. The time might had been happy on seeing those things. It had only started. Who knew the over comings. Humans being more and more frenzied started thinking about their superiority with others which led to drastic drama coming forth. Who knew the consequence? Everywhere a joy of happiness came which was palpable; a joy of well-being; a joy of lenience; a joy of expertise; a joy of better future which no one thought will bring a joy of black future.

Time always has seen consequence; a huge mechanization which started creating happiness in human life was in a mood of giving a painful attack to time. We have experienced a lot of effects that has been wedged due to our own act either it may be the effect of global warming or rise of sea level which has resulted in mountain levels to lose their height. Also has made a lot of species to lose their existence; it all has resulted due to us and our uncontrolled deeds.

Various scientific inventions which people thought the ultimate boon for society gradually started reconnoitering its' negative impacts on human

and nature. On name of various comforts; we are deteriorating earth continuously. The prominence of earth is getting down and is not in its' original form. The humans have not left a soloexpanse may it be water, land, air or anything else? Use of fossil fuels, synthetic fertilizers these all are crafting hazardous effect which has now led of specific age of human to range of 70-80 and it's getting stiffer even to survive till that.

We all are very much known to many projects and cognizance programs run by government and other organizations for clean and green earth. But every man jack knows the result as it is not going to succeed until and unless we are sentient. The situation of launching those programs might have not come if we were solemn. Now we are in a status quo of purchasing clean and fresh air. Not only that we are seeing a lot of air purifiers available in flea market who assure to make available fresh air in your room. These all shows our botch. The rampaging odd even scheme which everybody discerns. What was the reason behind it? It even came due to our fault. We have adulterated our nature in a very swift manner and it's not going to comfort us in any reverence. Whenever it comes to reduce pollution from our perspective we keep on thinking as if our effort is acastle in the air. But we certainly not look on that a single exertion will be case in point for others which will sway them to have control on pollution. As drops make rivers a single effort will surely encourage others.

We from MSRIT must prime a case in point on scheming pollution governor trials and devise to set an instance to others that every Tom, Dick, and Harry goes with us and say no to fossil fuels, plastics, all other power resources which chomps non-renewable natural resources. Embracing 3R technique will also help to diminish pollution. And as every one of us have premeditated environmental science; we are familiar with techniques to have control on pollution. Let us make what we have studied in practice and help to have remedy on earth's present situation.

Ray - The Shepherd

Mrunmayi Kiran Anvekar

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4th Semester

Department of Civil Engg.



Once I went to call
Father Bhaer, who lived in Pierre Hall.
For a man was shouting
That his daughter was dying.

Father Bhaer came running
With his wig of hair slipping,
For he felt the matter was serious
That made the man so grievous.

When Father reached the road,
The man began his tale like a toad.
“My daughter”; he began in his croaky voice,
“had a dog that made a lot of noise.

My pretty girl loved the dog
Even though he played a lot in the bog.
He jumped a lot and ate a lot.
He also got into trouble a lot.

Ray was the Shepherd’s name,
My child’s love deepened ‘cause he was lame.
We had found him in a river.
Half drowned and shivering with fever.”

He stopped and loudly sobbed.
“What’s the matter?” asked Father, alarmed.
“Alas! The dog is dead.
And my daughter is sick in bed.”

“How?” exclaimed I with sudden grief.
For I liked Ray even after the introduction so brief.
“The dog was a faithful one.
Now I almost think he was better than a son.

Giving up everything, giving up life,
He happily kept his neck on the knife.
For the girl gave him a mother’s love
And was as sweet as a dove.

But fate had to play with her heart
And pierce it with its playful dart.
For once my girl was playing
On the terrace where she was running.

It was dangerous of all places,
Littered with broken pots and baseless vases.
Covered in slimy green moss and ferns,
And where a slip everyone did earn.

She did slip a couple times
And fell down among sticks and limes.
But the most fatal was the last fall
When she hit her head on the pole so tall.

To her death she would have fallen
Three stories below into the scattered pollen.
Instead died the faithful Ray,
Keeping danger from his little love at bay.

His death was a severe blow
For my daughter lost all her glow.
Alas! His efforts were fruitless,
For my daughter will soon become lifeless.”

-Mrunmayi Kiran Anvekar

Now it's our Turn – Go green

Ms. Sini Anna Alex

Assistant Professor

Dept. of Computer Science and Engineering

A globe. What colors do we see – blue and green?
These days we can see colors on globe changed to
red and blue. Red represents Danger. Danger to

mother Earth. Now it's our turn. We can try valuing what we have lost till now. Can we try loving and caring trees like our child or pets?

Planting trees – A Human Touch. Raising a child requires constant effort and faith that in the end, our child will become a mature adult and bring us deep satisfaction. Nurturing a tree is a lot like nurturing the growth of our children, but far easier.

Children have need of a great deal more of individual attention than trees in order to develop properly. Like trees, children require constant monitoring to ensure that their needs are being met. Basic items like adequate nutrition, shelter, clothing, and healthcare go without saying. However much children need physical care, they require constant, consistent care on a spiritual level even more. Children, like the trees of the field, cannot fulfill their potential unless constantly monitored, cared for, and individually nurtured.

During the earliest stages of their growth, saplings need to be trained on supports in order to direct their growth upward. Without the proper training, saplings may continue to develop, but are likely to grow in the wrong direction.

The same is true of human saplings! Parents and teachers must serve as strong, stable supports for them to lean upon as they grow. However, this external support is not intended to impose qualities on the sapling from the outside. Rather, the support should bring out the potential inherent in the tree itself and encourage self-expression. Children flourish when they sense that we are there to extend a helping hand whenever needed. An atmosphere of warmth, affection, and steadfast support gives children the security they need to thrive and to express their unique strengths.

Parenting and educating children is a demanding process, but nothing is more rewarding. After faithfully investing untold effort, and praying for success, watching our children blossom and thrive is the sweetest reward of all. The plant produces food for us as a return gift for the care and support

we given. It is the greatest reward.

WHEN YOU LISTEN TO THEM YOU CAN HEAR THEIR WHISPER “TILL MY STEM BREAKS, I WILL PRODUCE FOOD FOR YOU”.

Tree says “There will be a time where you feed me with your tears”.

When you are near to a tree, it will bend to hug you. Give life to trees, never let it die again.

LIFE'S INSPIRATIONS

Soumasish Das

Alumnus

Dept. of Information Science and Engineering

A prized possession for one and all,
Where everyone is an actor in a theatre hall!
Each shall come, play their part and exit;
'God' is the audience, 'Life' is this great skit.

Life provides you with all your needs:
To learn, enjoy and live, but never for greeds.
So never miss any of the opportunities,
As you venture through life with your priorities.

Learn from every object and every creature.
Learn from Nature, She is a great teacher.
Live and let live; never let even one moment go
dullest.
Live up to your expectations, live life to the fullest.

Do not follow the beaten track, instead you find,
A path never traversed and leave a trail behind.
Remember: the meaning of a new voyage lies,
Not in seeing new landscapes, but in having new
eyes.

Never let failures and obstacles ever disappoint you,
Instead advance boldly against them and find a
solution new!

Try and try again till you finally succeed in winning.
The race is not won by the swift, but by those who

keep on running.

Love all alike, as you do for yourself so,
Everyone around you - be it a friend, be it a foe.
Forgive all sins and hatred and remember this line:
"To err is human, to forgive is divine."

Always experience and feel life's splendour.
Go ahead every time with a new zeal and candour.
Rise and shine to become an inspiration.
To everyone, always be a role-model, a paradigm, an
admiration!

Remember, you are unique, you are gifted;
So never feel inferior, never get drifted.
Do not compare yourself with others and feel left
behind
You are strong; you can do anything if you mind.

Find yourself a target, set yourself a goal.
Past is over, future is coming, present is your gifted
role.
Be bold, get prepared, face and make sorrows your
friend,
You shall discover the secret to happiness' beginning
and sadness' end.

Finally, remember: in your hands is the power,
To reach unimaginable heights, and over others
tower!
Have faith in Him and always do your best,
Never give up on life and the Lord shall take care of
the rest.

WISH YOU ALL THE BEST FOR A HAPPY AND
SUCCESSFUL LIFE !!

**One who doesn't have
anything, Believes the most!!!**

Sadath

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8th Semester

Dept. of Electrical and Electronics Engineering



There's so much to write
The things within, which i fight
I just hope things will be alright
The words that flow through my tear
The things that are worse than my fear
Sometimes I feel like expressing
But I find them way too depressing

I want to express the feelings which i bare all alone
but i don't have a pen to write them down
where am i stuck, where none can hear my cries
and when someone does, they think they are my sad
lies
sometime i try to explain but no one wants to
understand
there i hear a pleasing music
which just pierces through every heart straight
away
this is not the place meant for me to stay

I see humans knurl and
I see the spirit die every day
I feel restless, I feel lost
I turn up to god , sing loud " oh my lord"
I look up in the sky and ask " why me lord "!!
Please hear my prayer, believe i am not a liar!
I hear the lonely winds telling me nothing
I see the light , i try to catch but it doesn't last!!
I take it all no matter what it is
I got to survive ,
I got to survive
To hope for a better tomorrow everyday
My life has become this way

LIFE AND BROOK

MONICA VENKATESH

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4th Semester

Department of Medical Electronics

“Life is just like “The Brook”,
Problems are like its obstructing rocks,
Some fragile rocks break easily,
Some hard and mounded rocks stand still,
It cannot be moved easily,
With force and pressure it can pass over it,
Brook rocks are smooth,
Due to continuous flow of water,
The sharp and hard rocks are carved,
And made smooth,
The problems are sharp and hard,
As the time passes it will turn to be smooth,
If the rocks are removed from the brook,
It would lose its music,
If the problems are removed from life it would
become worthless.”

FREE THOUGHT

Manshu Rathore

6th Semester

Dept. of ISE

Everyone knows free thought is the ability to think for one's self, but how many people actually apply this? Only when you can completely free your mind, will you be able to come into your own and know yourself. How to think, what to think, what to believe, what our likes, our dislikes, our concepts of right, wrong, good and evil are, are constantly being programmed by the media, peer pressure and those in power. Those in power can refer to the government, parents,

family, educational institutions and textbooks, the system, the medical association and so forth. Many live their lives by the values of others and as a result, they never come to know themselves. People are TOLD what to think and believe. The television is a good example. Canned laughter implies something is supposed to be funny and it's OK to laugh. Background music lets the viewer know when he/she should get scared or anticipate something. Emotional scenes lead some people to tears. Life is much like this. One is supposed to obtain some form of approval for any and every thought and/or action.

Ask yourself; what do I think? How do I feel? NOT how **SHOULD** I think, or what would someone else think, or what does everyone else think. We are all individuals. We all have different preferences and tastes. Just because someone else likes or dislikes something, that doesn't mean you as an individual should feel the same way. Whenever presented with a dilemma or something new, ask yourself the above questions.

Now, of course, those in power are dead against free thought. Sheep are easily controlled. Personalities tests are given to determine those who are a threat (think for themselves and don't conform). Though unaware, how we should think is drummed into our heads from the time we are born. Very few people really know themselves, in spite of living with themselves 24/7. This is really sad.

It's not all that hard. Just remember to always and frequently ask yourself to start out with; do I think this is right or wrong for me? How do **I** feel about this? What is **my** opinion? There are no right or wrong answers here. Just get to know yourself. This may take time, but in the end, you will experience the bliss of being free.

Start completely deprogramming your mind today. All of us are programmed to greater or lesser degrees and most are not even aware of it.

I miss missing you

Amin Shakya

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4th Semester

Department of Civil Engg.



"I miss missing you.", she'd said. Words so easy to fall for as an indication of her wanting the things to go back to the way they were, except for the honest plea in her voice. And her eyes, ah the bright brown ones - how many a times have I fallen for their sinful interplay - I wonder, were filled with tears, subtle and yet demanding recognition, screaming the impossibility of such an occurrence. What I'd have done to shake her belief, I wonder- Everything, and yet, deep down I knew I felt the same. Perhaps some things are too good to ever be truly replicated. My eyes swelled up in the acknowledgement of the sorrow of her soul. We shared the moment, that would later prove to be our last, and cried our hearts out. How some of the best memories we have are the most painful ones to look back on, we two ended up knowing the best.

Morning V/S Night

RAJITA SHUKLA

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Department of Biotechnology



We have all read numerous posts about the pros and cons of being a morning and a night person. So here is a little something I could come up with, which hopefully clears the fog!

I personally lie somewhere in between both the categories. I am fond of mornings- the slight chill, the misty rays of the sun, the fuzzy hair and all of that. Sleeping around 10 at night(which I very much try) and getting up latest by 6 is what works better for me, with the much-needed 8 hours of sleep. I do yoga and then a bit of meditation, which has proven to be very calming for my mind. I also go for a jog sometimes, with the sweet chirping of birds as my soothing music. I meet quite a few people on my way- the elderly who are trying to keep arthritis at bay, the couple who probably take joy in the morning serenity and the youngsters such as myself, who are trying to live in the moment. I also notice that people are so jolly at this hour, almost like at peace with themselves. Great mornings like these kick-start my day and make me look forward to the rest of it.

On the contrary, I become more productive at night. Research has also shown that night owls display greater reasoning and analytical abilities than their earlier-to-bed counterparts. I have my somewhat early dinner around 8, and as they say, there must be a gap of at least 2 hours before bedtime. I review my day's work and jot down "things to do" in my Sticky Notes app in my phone. I sit with my assignments(which are a plenty) and like to finish my work before the deadline. Deep conversations with friends usually happen at this time, and there is a lot of

movement in the hostel. Everybody sits down in one room and there are some movie or random dancing scenes among hostel mates. This may go on well until midnight, after which everybody retires to their respective rooms. Then, like an alarm clock, my body's biological clock wakes me up at a set time everyday.

All in all, I think strong sleep habits- being careful about caffeine consumption at night, sticking to regular sleep and wake times, making sure your bedroom is dark and electronic-gadget free – can help reinforce your sleep schedule, even if it doesn't align perfectly with your natural tendencies.

NATURE INSPIRED SIGNAL PROCESSING ALGORITHMS

Dr. S. Sethu Selvi

Professor and HOD

Dept. of Electronics and Communication



- Firefly algorithm
- Fruit Fly algorithm
- Bat algorithm
- Artificial Fish School algorithm
- Bumble Bee algorithm
- Cuckoo Search algorithm
- Artificial Bee Colony algorithm
- Genetic algorithm

Introduction

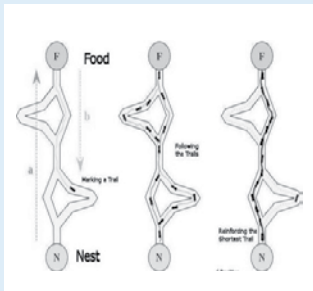
Signal, image and video processing form a part

of a major decision support system in medical, industrial and defense applications. Data obtained in these formats undergo pre-processing and is converted to a format amicable for future processing. A processing algorithm extracts features or meaningful information from the data, and then a post-processing algorithm infers a decision by an inference/decision mechanism. Techniques employed for data acquisition, enhancement, filtering and compression affect the overall system performance. So, this requires some algorithm specific parameters to be tuned optimally to achieve the best performance, and this boils down to optimization problems. Traditional optimization methods are not suitable as they require some assumptions for these algorithms. Although there are state of the art algorithms meant for solving these problems, they have some disadvantages such as being based on some assumptions, intolerance or sensitivity to noisy conditions, sensitivity to initial conditions, having high computational cost, having some parameters to be fine-tuned, having low processing speed, getting trapped to local minima, and the performance dependency to the shape of histogram. These reasons have led the researchers to use alternative optimization tools. So, other algorithms which do not make assumptions and which can be applied to wide range of problems are required. These algorithms improve the system performance using evolutionary computation paradigms.

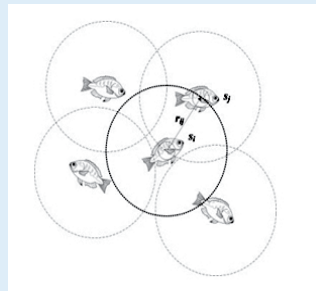
Evolutionary Computation Algorithms

These algorithms can deal with non-convex, non-linear, and multimodal problems subject to linear or non-linear constraints with continuous or discrete decision variables. They can be classified into two broad categories as evolutionary algorithms and swarm intelligence algorithms. Evolutionary algorithms mimic the natural selection and generic inheritance phenomenon based on the genetic adaptation of population to the environment. Some popular algorithms are genetic algorithm, differential evolution algorithms and evolutionary

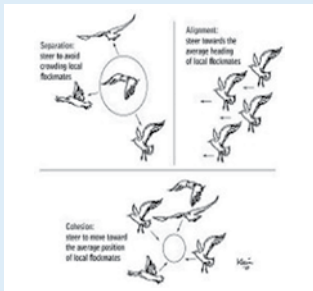
programming and strategy. Swarm intelligence exploits the behavior information obtained from swarms, which are self-organizing agents without any supervision. Local rules and individual interactions lead to collective intelligence named as swarm intelligence. Ant colony optimization, fish schooling or bird flocking and artificial bee colony are some of the popular swarm intelligence algorithms. These algorithms take advantage of the following behavioral characteristics of a swarm like group decision making process and searching for best site taking care of speed and accuracy.



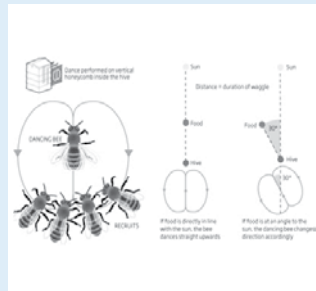
(a) Ant Colony



(b) Fish Schooling



(c) Bird Flocking



(d) Bee Colony

Ant Colony Optimization

This algorithm simulates an ant colony finding the shortest path between the food source and their nest through pheromone trails without using vision (almost blind). These trails are chemicals left on the ground, which act as signal to other ants. If an ant decides to follow the trail, it itself lays more pheromone, thus reinforcing the trail. The more ants follow the trail, the stronger the pheromone, the more likely ants are to follow it. The strength decays over time, but builds up on shorter path faster, facilitating ants to follow it. This is a population-based meta-heuristic algorithm that can be used to find approximate solutions to difficult optimization problems. In ACO, a set of software agents called artificial ants

search for good solutions to a given optimization problem. To apply ACO, the optimization problem is transformed into the problem of finding the best path on a weighted graph. The artificial ants incrementally build solutions by moving on the graph. The solution construction process is stochastic and is biased by a pheromone model, that is, a set of parameters associated with graph components (either nodes or edges) whose values are modified at runtime by the ants. Some of the applications of this algorithm are: Bus routes, garbage collection, delivery routes, machine scheduling, telecom networks

Fish Schooling

This is a family of algorithms suited for optimization in high dimensional search spaces. All fish perform local search and the school aggregates social information. This is a fast algorithm, computationally inexpensive and easily implementable on a GPU. The rationale behind this algorithm is: Swimming is a means of performing a local search, storing information of success and indirectly conveying social information. Success of Search is given by fish weights, school radius and school barycenter. Non-monotonicity is achieved by random hesitation before swim, by expanding/shrinking the school radius and by variations on swimming components. Larger fish weights, smaller school radius (more fish) and school barycenter closer to optima is better.

Bird Flocking

Bird flocking was initially simulated by Craig Reynolds in 1986 in his model named Boids (Bird - oids implies Bird like). This consists of only three simple rules. Rule 1: Separation or Collision avoidance meaning avoid collision with neighboring birds, Rule 2: Alignment meaning match the velocity of neighboring birds, Rule 3: Cohesion meaning stay near neighboring birds. The neighborhood is defined using the model for the view of a bird. This requires only local knowledge and local interaction and affects the swarm behavior. Instead of controlling the

interactions of an entire flock, the Boids model only specifies the behavior of each individual bird. As in the Game of Life, the simple rules of the Boids simulation sometimes give rise to surprisingly complex behavior. Although the long-term behavior of an entire flock is difficult to predict, its motion and arrangement is predictable and orderly over small periods of time. Boids is only one of many experiments in swarm intelligence. A key aspect of swarm intelligence systems is the lack of a centralized control agent – instead each individual unit in the swarm follows its own defined rules, sometimes resulting in surprising overall behavior for the group as a whole. One application of the ideas involved in Boids and other swarm intelligence simulations is in the field of Swarm Robotics. Certain tasks such as mapping, nanorobotics/microbotics, or foraging lend themselves well to being solved most efficiently by a group of many small robots. A key component in these systems is communication between individual robots in order to ensure that each is devoted to an appropriate task at hand. Birds flocking behavior can also be used as a model for a company's predictive analysis data. Each data item corresponds to a single bird in the flock and the dataset corresponds to the flock. The natural flocking behavior corresponds to data patterns that might otherwise go undiscovered. The aim is to detect swarms (data clusters) among the flocking birds (data elements). Flocking behavior has been used in real life applications such as robotics based rescue operations and computer animation. For example, the producer of the movie *Batman Returns* generated mathematical flocking behavior to simulate bat swarms and penguin flocks.

Artificial Bee Colony

This simulates the foraging behavior of honey bees. In nature, foraging is the most crucial task for all creatures as well as for honeybees that live as colonies. The foraging behavior of each individual bee is directed by some information such as odor, location information in the waggle dance, the

presence of other bees at the source or between the hive. Foraging process starts with leaving the hive of a forager in order to search food source to gather nectar. In the foraging of honeybees, there are three types of forager bees: employed bees, onlooker bees, and scout bees. The employed bees are responsible for exploiting a certain food source and loading the nectar of the source to the hive. The employed bees in the hive also perform a dance, which gives information about the source they are currently exploiting. This dance recruits the onlooker bees waiting in the hive to reach sources. The onlooker bees choose food sources by watching the dances advertising the profitable sources. The unemployed scout bees explore new sources based on an internal motivation or external clue. During exploitation, the nectar of some sources is exhausted, and the bees exploiting these sources become scout.

Artificial Bee Colony (ABC) is one of the most recently defined algorithms by Dervis Karaboga in 2005, motivated by the intelligent behavior of honey bees. In the algorithm, each food source position corresponds to a possible solution to the optimization problem, and the nectar of the source is assumed to be equal to the fitness value of the solution. The artificial forager bees are responsible for finding the optimum solutions to the optimization problem considered. In ABC system, artificial bees fly around in a multidimensional search space and some (employed and onlooker bees) choose food sources depending on the experience of themselves and their nest mates, and adjust their positions. Some (scouts) fly and choose the food sources randomly without using experience. If the nectar amount of a new source is higher than that of the previous one in their memory, they memorize the new position and forget the previous one. Thus, ABC system combines local search methods, carried out by employed and onlooker bees, with global search methods, managed by onlookers and scouts, attempting to balance exploration and exploitation process. This algorithm finds application in

bioinformatics, scheduling, clustering, mining, image processing, fuzzy control and engineering design. Some of the pros are: this algorithm is very efficient in finding optimal solutions and overcomes the problem of local optima. Some cons are: this requires a number of tunable parameters and these parameters can be set through a number of trials and computational cost increases with the population of available solutions.

Conclusion

Swarming is the aggregation of similar animals, generally cruising in the same direction. Some examples are: termites swarm to build colonies, birds swarm to find food and bees swarm to reproduce. It is believed that swarms can achieve things that an individual cannot. Remember the story of an old man and three sons, where a bundle (swarm) of 10 sticks is given to them so that they would shed off their differences and stay united. Separate sticks were broken into pieces easily by the sons, but they failed to break the sticks as a bundle. This proved the power of unity. Likewise, swarming is a powerful algorithm, though simple as there is no central control, robust, simple rules for each individual and follows emergent and self-organization phenomena. To harness this power out of simplicity, these algorithms are used for global control of larger and complex technical systems.

When I'm walking with you!

Chinmay Hegde

USN: Alumni

Dept. of Information Science and Engineering

When I'm walking with you,
I'm a feather floating in the cool air,
Dusted with melting mist: warm and so rare,
Like the kiss of an angel I don't know from where!

When I'm walking with you,

I'm a bird flying free in the clear skies,
Caressing the mountain peaks: graceful and nice,
Seeing everything I want even with the closed eyes!

When I'm walking with you,
I'm a kid: gentle, innocent and cheerful,
Stupid, yet very lovable and playful,
Making every day so lively and wonderful!

When I'm walking with you,
I'm me, loving everything in the world,
I'm me, living every moment I could harness,
I'm me, seeing light where others see darkness,
'Coz with you, I'm the best in the world!

Is Perception a reality?

Mr. Chethan. C.T

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We normally tend to see things differently as we are, and not as they are. In many case, the mere act of rhetoric is the culprit which would make the people believe what someone claims it to be, though it may not be a fact.

This stops many of them from explaining when they realize other people have understood differently from the perception they hold, as it is a tedious exercise to make someone realize about the actual facts.

To take some examples, many of us think Inflation is bad for economy; but the fact is, optimal inflation is a boost for an economy in all prospects. Unless we don't do it comprehensively it would give a sense that perception is the reality.

Here is one such case, when crude oil was priced around 114USD/Barrel we used to pay Rs 80/liter of petrol and used to crib about the money we

spend on the petrol. Later, when crude price was around 48USD/Barrel we are happy to pay Rs 67/ liter. We tend to feel we saved Rs 13 from what we used to pay. But the fact is, petrol is overpriced now or it was underpriced then. If you go by same mechanism it was supposed to be around Rs 35/ liter. In a way, we are overpaying almost Rs 32/ liter. This is happening because of the wrong claims and forged data.

Perception is just similar to subjective reality and it has spread its wings so wide that it makes someone guilty until proven innocent; Perception is the reality that's the way in today's world.

People are blind to reality and they see what they want to see. It's not possible to change the reality , so they influence us to change the perception with the wrong facts.

Although we possess many tendencies, capacities and interest, we form a view on a particular thing which embraces many. We bring multi-faceted aspect into some definite relations which itself is a wrong act.

It works better if your eyes are open; At the end of the day, it is what it is.

Success comes in Installments

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Once upon a time lived a boy,
Who did nothing else but cry
He had no friend,
No one on whom he could fully depend.
He had a different perception,
But all he got from others was deception.

Critics teased him,
But their comments pleased him.
He took them to heart,
And opened the gates of his mind,
To pure knowledge, that left those critics behind.

Then came the time to perform,
Where by his himself grace,
He failed to be the ace.
Coz he got carried away
As he swayed them all away.

Yes , he cried , deeply he cried
He than sat up straight and mirrored himself till late;
“Come what may!” he vowed to himself
“I’ll come back better , I’ll come back stronger
And I’ll cry no longer”, replied the man in the mirror.

Again he took the failure to the heart
But this time, hit it back
With creativity , hard work and intellect.
Success succeeded him
As he felt he had paid the last installment of success.

XX

Years rolled by,
Leaving for him fair share of tears and joy
Every time he thought his share of failure was done

Life bounced again to test him with one.

XX

Time and again.....

Critics teased him

But their comments pleased him

“Come what may!” he vowed to himself

“I’ll come back better , I’ll come back stronger

And I'll cry no longer", replied the man in the mirror.

But this time, hit it back

With creativity , hard work and intellect.

And he felt he had paid the last installment for success.

The cycle continued and so did the stanzas

'Thank God' said he,

'For I choose these lines to shape my life'

Coz otherwise to would be hard to survive.

And till today whenever I meet him ,

He never stop saying :

"Success comes in Installments and

Life is too short to pay all of them and get complete Success"

She was the light and I was the dark

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I cautiously open the door of the room. With a minimal force it flings itself open. No creeky sound to add a touch of horror, just smooth and as quiet as the devil. I feel a shrude chill flowing down my spine. I hesitantly take a step into the room, and then another. I had no idea how big it was or how small. It was dark. Just dark. But I notice a very flimsy source of light a little away into the room. So, like a bandit I move towards the glitter. As I get close to the well lit I see a beautiful young woman, blindfolded. Her legs crossed over each other, her hands carelessly resting by her thighs, her clothes torn. Curious and concerned I questioned her, "hey there miss! Why are you sitting here all alone? In this room?". A few awkward seconds pass by but she doesn't jaw a word. I discover a strong urge to know her, to be by her, to listen to what she has

to say. After all she was the blindfolded woman in the blind room. So I sit beside her, noiselessly. A few minutes pass by and then a few hours but the mysterious woman does not break the silence. Unable to hold it in any longer I ask her, " what happened?". Finally she replies, "it's so dark". " well yes it is and silly you're blindfolded, of course it is dark" I say to her in a child-like voice, elated she responded at last. " I've tried taking it off but the light is too bright for my eyes. I'm scared but I feel safe in my misery". If only I could look into her eyes in that moment. But the heaviness in her voice spoke volumes of the visions in her eyes. Now, with a more serious tone I tell her, "I know life is hard. We'd all like to watch the sun rise right after it sets. But the magic is in the wait. You can leave home at sunset, visit a thousand other suns and still be back in time for sunrise. And then you can sit, eat your favourite cereal and watch the sun soar to it's zenith. See, you have to fight. Of course it's complex, of course it's brutal, hair-raising, bloodcurdling, spine-chilling, hideous and of course it is dark but you have to fight". I get startled as the light covering her suddenly burns up in intensity. I inspect her for a few seconds. So strange,so amazing. She breaks my thought flow when she says, " well, go on!". I smile to myself and continue," yes, so be the girl whose heart is as freshly fallen snow but guard it with titanium. Be a soldier, be a donor. Be the positive and be the negative. Be passionate. It doesn't matter what you are passionate about but that you are is essential. There is just one entity that can give you what you want and that's you. So all you have to do is ask yeah?". I move away with a jerk as I feel the light around her flare up. With a composed movement she moves closer to me and brushes her hand over my face. Drawing a beautiful pattern she moves closer to my eyes. She feels a soft fabric and retracts in horror. Then with a hint of curiosity and a lot of concern in her voice she asks me,"mister! How did you find this room?"

-The Cribbing Giraffe

CONNECTING THE TANGIBLE WITH THE INTANGIBLE

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“Sight separates us from the world, while the rest of the senses joins him”

- Juhani Pallasmaa

If you think back to a truly memorable space you occupied in the past, it is usually remembered as an emotional experience, although you may recall only some of it.

Humans in the first few seconds of entering a space, through unconscious perceptions, achieve a total impression that shows the dominant soul of the environment. . There's a real danger that the visual realm will completely dominate one's experiences.

SIGHT AND VISION: Vision is supposed to be the leading sense in architecture. This doesn't mean that architects only focus on the nice picture of their design and aren't balanced in terms of the other sensual possibilities. With a sense of materiality, buildings should be prevented from turning into sensory reduction.

Shadows and darkness are essential for the sense of vision to determine the depth and distance. Backside of the Moon, by James Turrell, contains a pitch-black space that renders one blind for what might seem like forever. Eventually, when one's eyes adjust an eerie grey light installation can be observed, and the space begins to make coherent sense. This structure, designed by Tadao Ando represents the essence of how light and darkness can be harnessed to create truly powerful experiences.



BACKSIDE OF THE MOON, JAMES TURRELL

SOUND: Unlike vision, sound is an omnipresent sense, providing a 3 dimensional experience. Soundscape can be defined as a sound or combinations of sounds in a given environment. Sounds can be generated or modified to enhance the experience.

For some people, a fountain provides a pleasant, refreshing sound. For others, such as those who have to spend their day working next to it, it may provide a faint din of white noise grating on the nerves.

One of the most exciting auditory experiences in architecture is tranquillity. Spend a few hours in an anechoic chamber, and all manner of previously unperceived sounds become apparent. From one's heartbeat and breathing to the blood gushing through the veins, into the ears, everything can be heard.



WALLS OF AN ANECHOIC CHAMBER

OLFACTION: Olfaction is more active in silence and lack of light. Odour can have the power to capture and preserve memory of any space, and every space has its own particular smell.

The ventilation of rooms and removal of strong and potentially unpleasant odours is a well-rehearsed practice. Every building has its own odour but in the majority of cases, these come about, as what architect Herve Ellena described, as an unforeseen consequence rather than as a planned effect.

Introducing smells enhance environmental 'authenticity'. An old country house has many levels of smell, created through time. Contemporary structures, on the other hand, have lost scent with the sterilized appearance

Each of the invisible artworks, in the Art of Scent in the Museum of Art and Design, aims to evoke memories and affect thought patterns of visitors. The minimalist architecture employed by the architects framed this experience beautifully, with fragrances emanating from a series of subtle dimples and pleats within the gallery walls.



ART OF SCENT, MUSEUM OF ART AND DESIGN

TACTILITY: Smoothness, roughness, bumps, hardness, contact, touch, texture, weight, density, heat and temperature are all related to the sense of touch. Tactility connects an individual to the time and tradition. The effects of a design's tactile properties are probably minuscule. Architects are designing buildings to look good, but not feel good. It almost always reverts to the way a texture looks, rather than feels. The tactility of buildings is still primarily a visual connection as, for example, when one perceives contrasting building textures

by the difference in the way that sunlight is reflected or, when observing a richly textured surface, one is reminded of the feel of the material against our skin. Judging whether something is flimsy or substantial, elegant or seedy, real or fake, in large part is by touch. The plan of Hazelwood School, Glasgow allows children to follow a linear route through the building, avoiding maze-like conditions. Furthermore, the interior walls are clad with multiple textured materials, which the blind students can follow with their hands to make sense of their whereabouts within the school



HAZELWOOD SCHOOL, GLASGOW

TASTE: While human tongue can identify only 5-6 tastes, the nose can distinguish more than thousands of smell and hence, olfaction enhances the taste. Architecture can make our mouth water just by the sight of appealing materials. Taste is often related to colours; red is usually associated with tanginess whereas green is associated with sourness or bitterness.

The chocolate room, American Pavilion of the 35th Venice Biennale had walls made up of Nestle chocolate. The smell of chocolate was so overpowering that one could almost taste it.



CHOCOLATE ROOM, AMERICAN PAVILION

Other than these five senses, there are sixteen other senses, some of which can be incorporated

into architecture to enhance the user experience. The Garden of Exile in the Jewish Museum by Daniel Libenskind plays with equilibrioception, the sense of balance and stability. Casinos have been designed to make people loses track of time no matter how accurate their sense of time may be, otherwise.

Architecture is an important part of our environment; it affects our experiences, feelings, memories, and even the decisions we make. There are vast resources at mankind's disposal to create experiences that delight the whole range of human senses.

THE 18 SENSES: sight and vision, aural, olfaction, taste, tactility, thermoception, proprioception, nociception, equilibrioception, magnetoception, synaesthesia, chemoreception, stretch reception, sense of pressure, hunger, thirst, itch and time.

From my dungeons

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Run away while the gates are open
While you have strength in your feet
I' m not a pass way to your freedom,
though you think so.

Run my friend
From this cage where the ill breeds

Where the disease takes over
and the rats gather to nibble what's left

Run!! Run!!

Down the road to some distant land.

If ever my thoughts torment you

And you wish the captivity of my company

Remember you were never meant to be tied

Never destined to suffer this darkness

Go away

Search for an open field

Or a sun flooded grassland

Not me darling,

In my dungeons you will find nothing but
bitterness.

On A Day

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It was the first day of spring
And roamed a blind man in the streets
Hand outstretched , hat in hand
Going round he was around the tower.

Met a literate on his way,
Alms he asked for , received none
But received a note instead
For that was all the literate could give.

He went around with the note stuck to his hat
Coins poured in as rain on the crop
His hat was full but he lay in a dilemma
As to what was written on the note.

Met a man who dropped a coin
Asked him to read the note aloud
The man amused read , "It's written –

'Its the first day of spring and I can't see it.'

GROWING UP

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Everybody has goals. As a kid, I had one of those too. Mine was this, I wanted to grow up. However there was a problem. When we normally set a goal for ourselves, we recognize the moment it is accomplished. It is our moment of glory which we bask in and never want to end. But the problem in setting 'growing up' as your goal has a slight complication. You never get to know when exactly you have accomplished your goal. You can only hope that you have reached it. There are moments when you think you are there but then an incident or two comes by and you begin to doubt your earlier sense of victory. I was in one of my teenage years, don't remember which one precisely. They are all the same anyway, full of colors. Some days, the sun never rises and on some others, the sun stays up all day just for me. A period whose uncertainty you begin to miss only once it is past you. So one day when the sun was all up and brightly shining for me, I asked my parents' permission to hang out with my friends at the mall. The response was quick. A no. Now normally the number of times my parents denied me something equaled the number of my outbursts of rage (followed by tears) in the house. But today I felt different. My parents 'no' should have automatically brought

forth the fit of rage. But I did not feel angry. I did not feel like throwing a tantrum. No tears either. I showed a disappointed face and walked back to my room. "You have grown up.", a little voice said within me.

As the celebrations of having reached my goal were about to commence in my head, my mother walked in and scolded me for all the clutter in my room. Not two in a row. The lights dimmed before they could even shine. The fit of temper which was suffocating inside me finally made its escape. My father had to intervene to bring the duel under control. Part of me was relieved to let the anger out. The other part went back to being on tenterhooks, waiting to bring to fruition my seemingly never attainable goal of 'growing up'. School feels like such a long time ago. First day of college, my father drove me to my hostel early morning. Fighting back my tears, I stood there at the gate showcasing a face which exhibited just enough courage to deceive my father into thinking that I could handle it. As I stood there watching the car in reverse gear before it swiftly took the turn and disappeared, the voices made an entrance. "You handled that well. You have grown up." The once shut out celebrations began to resurface with caution. But then something happened. Tears began trickling down my face. It ripped off the mask I had put on for my father. I ran to my room and cried like a baby. I was chased out of my victory once again.

The day of my wedding. I thought I was ready to cross the bridge. After the ceremony, I bid goodbye to my parents and my friends. The voices in my head sounded excited. Maybe they were hoping to finally bring out the rejoicing. But they were quietened. Neither by my mother this time nor by my whimpering. I silenced them. And just like that, I knew why I could never reach my goal.

The voices left me to hug my mother wishing to myself that I could do it all over again.

ನಮ್ಮೊಳಗಿನ ಮೊಬೈಲು



ಬಿ.ಪಿ.ಹರಿಚಂದ್ರ,
ಸಹ ಪ್ರಾಧ್ಯಾಪಕರು,
ಯಂತ್ರಶಿಲ್ಪ ತಂತ್ರಜ್ಞಾನ ವಿಭಾಗ

ಇಂದಿನ ಯಾವುದೇ ಅವಿಷ್ಕಾರಗಳನ್ನು ತೆಗೆದುಕೊಳ್ಳಿ, ಅವಿಷ್ಕಾರಕ್ಕಿರುವ ಶಕ್ತಿ-ಸಾಮರ್ಥ್ಯ ಇಲ್ಲವೋ ನಿಸರ್ಗ/ಪ್ರಾಣಿ/ಪಕ್ಷಿಗಳಲ್ಲಿದೆ, ಅಥವಾನಮ್ಮದೇ (ಮಾನವನ) ಶರೀರದಲ್ಲಿದೆ. ಒಂದು ಉದಾಹರಣೆಯನ್ನು ತೆಗೆದುಕೊಳ್ಳೋಣ. ಅದುವೇ ಕರ್ಣಪಿಶಾಚಿ! ಅಥವಾ ನಮ್ಮೆಲ್ಲರ ಇಂದಿನ ಅನಿವಾರ್ಯ ಅಂಗವೇ ಆಗಿಬಿಟ್ಟಿರುವ ಮೊಬೈಲ್! ಮೊಬೈಲ್‌ಗಳ ಬಳಕೆಯಿಂದ ನಾವು ಪ್ರಪಂಚದ ಯಾವುದೇ ಮೂಲೆಯಲ್ಲಿರುವ ಇನ್ನೊಬ್ಬರನ್ನು ಸಂಪರ್ಕಿಸಬಹುದು ಎಂದು ನಮಗೆಲ್ಲರಿಗೂ ತಿಳಿದೇ ಇದೆ. ಈ ಸಾಮರ್ಥ್ಯ ಮನುಷ್ಯನಲ್ಲಿ ಇದೆ ಎಂಬುದಾದರೆ ಅದು ಹೇಗಿದೆ ಎಂದು ತಿಳಿಯುವ ಮುನ್ನ ಮೊದಲಿಗೆ ಈ ಯಂತ್ರವು ಕೆಲಸ ಮಾಡುವ ಸಿದ್ಧಾಂತವನ್ನು ಅರಿತುಕೊಳ್ಳೋಣ. ಆಮೇಲೆ ಮುಂದಿನ ವಿಚಾರ. ಮೊಬೈಲ್ ಮೂಲಕ ಇನ್ನೊಬ್ಬರನ್ನು ಸಂಪರ್ಕಿಸುವ ಕ್ರಿಯೆ ಈ ಕೆಲವು ಮುಖ್ಯ ಹಂತಗಳಲ್ಲಿ ನಡೆಯುತ್ತದೆ.

1. ಇತ್ತರಡೆ ನಾವು ಮಾತನಾಡುವ ಮಾತುಗಳ ಶಬ್ದವನ್ನು 'ಮೈಕ್' ಎಂಬ ತನ್ನೆಕೆಯ ಮೂಲಕ ಮೊಬೈಲ್ ತನ್ನೊಳಗೆ ಸ್ವೀಕರಿಸಿಕೊಳ್ಳುತ್ತದೆ.
2. ಹೀಗೆ ತನ್ನೊಳಗೆ ಸ್ವೀಕರಿಸಿಕೊಂಡ ಶಬ್ದವನ್ನು ವಿದ್ಯುನ್ಮಾನ ಸಾಧನಗಳ ಸಹಾಯದಿಂದ ಎಲೆಕ್ಟ್ರೋಮ್ಯಾಗ್ನೆಟಿಕ್ ನಾದಗಳನ್ನಾಗಿ ಪರಿವರ್ತನೆ ಮಾಡುತ್ತದೆ.
3. ಈ ಎಲೆಕ್ಟ್ರೋಮ್ಯಾಗ್ನೆಟಿಕ್ ನಾದಗಳನ್ನು ಮೊಬೈಲ್‌ನಲ್ಲಿರುವ ಟ್ರಾನ್ಸ್ಮಿಟರ್ ಎಂಬ ವಿದ್ಯುನ್ಮಾನ ಸಾಧನ ಹೊರ ಹಾಕುತ್ತದೆ.
4. ಹೀಗೆ ಹೊರಗೆ ಹಾಕಲ್ಪಟ್ಟ ನಾದಗಳನ್ನು ಉಪಗ್ರಹದ ಮೂಲಕ ಅತ್ತರಡೆ ಇರುವ ವ್ಯಕ್ತಿಯ ಮೊಬೈಲ್‌ನತ್ತ ಸಾಗಿಸಲಾಗುತ್ತದೆ.
5. ಅತ್ತರಡೆ ಇರುವ ವ್ಯಕ್ತಿಯ ಮೊಬೈಲ್‌ನಲ್ಲಿರುವ ರೀಸೀವರ್ ಎಂಬ ವಿದ್ಯುನ್ಮಾನ ಸಾಧನವು ಈ ನಾದಗಳನ್ನು ಸ್ವೀಕರಿಸುತ್ತದೆ.
6. ಹೀಗೆ ಸ್ವೀಕರಿಸಲಾದ ನಾದಗಳನ್ನು ಆ ಮೊಬೈಲ್ ಸಂಸ್ಕರಿಸುತ್ತದೆ.
7. ಸಂಸ್ಕರಿಸಲಾದ ನಾದಗಳನ್ನು ಆ ಮೊಬೈಲ್ ಸ್ವೀಕರಣ ಮೂಲಕ ಶಬ್ದವಾಗಿ ಸಿ ಹೊರಹಾಕುತ್ತದೆ.
8. ಹೀಗೆ ಅತ್ತರಡೆ ಇರುವ ವ್ಯಕ್ತಿಗೆ ಇತ್ತರಡೆಯ ವ್ಯಕ್ತಿ ಹೇಳಿದ ಮಾತುಗಳು ಕೇಳುತ್ತವೆ.

ಕ್ಷಣಾರ್ಧದಲ್ಲಿ ಇತ್ತರ ಮಾತನಾಡಿದವರ ಮಾತನ್ನು ಅತ್ತರ ಸಾಗಿಸಲು ಸಾಧ್ಯವಾದುದೇ ಕಡಿಮೆ ವೇಗದ ಶಬ್ದವನ್ನು ಅತಿ ವೇಗದ ಎಲೆಕ್ಟ್ರೋಮ್ಯಾಗ್ನೆಟಿಕ್ ನಾದಗಳನ್ನಾಗಿ ಪರಿವರ್ತನೆ ಮಾಡಿ ಅತ್ಯಂತ ವೇಗದಲ್ಲಿ ಪಸರಿಸುವ ಮೂಲಕ.

ಈಗ ಈ ಮೊಬೈಲ್‌ನ ತಂತ್ರ ಮಾನವನಲ್ಲಿ ಹೇಗೆ ಇದೆ? ಎಂಬುದನ್ನು ನೋಡೋಣ.

ಮಾನವನ ಬಾಯಿಂದ ಹೊರಡುವ ಶಬ್ದ ಸುಮ್ಮನೆ ಹಾಗೇ ಬಾಯಿಂದ ಬಂದುಬಿಡುವುದಿಲ್ಲ. ಯಾರೋಬಿಡುವ ಒಂದು ಪ್ರಶ್ನೆ ಕೇಳಿದರು ಎಂದು ಇಟ್ಟುಕೊಳ್ಳೋಣ. ಅವರು ಕೇಳಿದ ಪ್ರಶ್ನೆಯು ಕಿವಿ ಎಂಬ ಸಾಧನೆಯ ಮೂಲಕ ನಮ್ಮೊಳಗೆ ಹೋಗುತ್ತದೆ. ಅದು ಸಂಸ್ಕರಿಸಲ್ಪಟ್ಟು ನಾದವಾಗಿ ಪರಿವರ್ತನೆ ಮಾಡಲ್ಪಡುತ್ತದೆ. ಈ ನಾದಗಳನ್ನು ಆಲಿಸುವ ಮೆದುಳು ನಾವು ಕೇಳಲಾದ

ಮಾತಿಗೆ ಏನು ಉತ್ತರ ಹೇಳಬೇಕೆಂಬುದಿದೆಯೋ ಆ ಮಾತಿಗೆ ತಕ್ಕಂತೆ ನಾದಗಳನ್ನು ಉತ್ಪನ್ನ ಮಾಡುತ್ತದೆ. ಈ ನಾದರೂಪದ ಮಾತುಗಳು ನರತಂತುಗಳ ಮೂಲಕ, ಗಂಟಲಿನ ಸಹಾಯದಿಂದ ಶಬ್ದವಾಗಿ ಪರಿವರ್ತನೆಯಾಗಿ ಬಾಯಿ ಎಂಬ ಸ್ವೀಕರಣ ಮೂಲಕ ಹೊರ ಹಾಕಲಾಗುತ್ತದೆ. ಈ ಶಬ್ದವನ್ನು ಇನ್ನೊಬ್ಬರು ಆಲಿಸುತ್ತಾರೆ. ಇವು ನಾವು ಸಾಧಾರಣವಾಗಿ ನಮ್ಮೊಂದಿಗಿರುವ ವ್ಯಕ್ತಿಯೊಂದಿಗೆ ಮಾತನಾಡುವಾಗ ನಡೆಯುವ ಕ್ರಿಯೆ.

ಇನ್ನು ನಾವು ಮಾತನಾಡಲು ಬಯಸುವ ಆ ವ್ಯಕ್ತಿದೂರದಲ್ಲಿದ್ದರೆ? ನಾವು ಎಷ್ಟು ಜೋರಾಗಿರುತ್ತೇವೆಂದು ಕೇಳಿಸದಷ್ಟು ದೂರದಲ್ಲಿ ಆ ವ್ಯಕ್ತಿ ಇರಬಹುದು. ಇಂತಹ ಸಂದರ್ಭದಲ್ಲಿಯೇ ಅಲ್ಲವೇ ನಾವು ಮೊಬೈಲ್ ಇತ್ಯಾದಿಗಳನ್ನು ಬಳಸುವುದು. ಗಮನಿಸಿ, ನಾವು ಕೇಳಿಸಿಕೊಂಡ ಶಬ್ದವು ಮೆದುಳಿನಲ್ಲಿ ನಾದವಾಗಿ ಪರಿವರ್ತನೆಯಾಗಿದೆಯಲ್ಲ, ಈ ನಾದಗಳೂ ಎಲೆಕ್ಟ್ರೋಮ್ಯಾಗ್ನೆಟಿಕ್ ನಾದಗಳಂತೆ. ಬಹುಷಃ ನಮ್ಮ ಇಂದಿನ ತಂತ್ರಜ್ಞಾನ ತಿಳಿದಿರದ ಇನ್ನೂ ಹೆಚ್ಚಿನ ವೇಗ ಹಾಗೂ ಸಾಮರ್ಥ್ಯದ ಇನ್ನಾವುದೋ ರೀತಿಯ ನಾದಗಳೂ ಆಗಿರಬಹುದು ಎಂಬುದನ್ನು ಮರೆಯಬಾರದು. ಸದ್ಯಕ್ಕೆ ಇವು ಎಲೆಕ್ಟ್ರೋಮ್ಯಾಗ್ನೆಟಿಕ್ ನಾದಗಳು ಎಂದೇ ಇಟ್ಟುಕೊಳ್ಳೋಣ. ಈ ಎಲೆಕ್ಟ್ರೋಮ್ಯಾಗ್ನೆಟಿಕ್ ನಾದಗಳ ವೇಗ ಅನಂತ.

ಬಾಯಿಯ ಮೂಲಕ ಶಬ್ದವನ್ನು ಹೊರ ಹಾಕುವ ಸಾಮರ್ಥ್ಯ ಮಾನವ ಶರೀರಕ್ಕಿರುವ ಜೊತೆಜೊತೆಗೆ, ಉತ್ತರರೂಪದ ಮಾತಿಗೆ ತಕ್ಕಂತೆ ಮೆದುಳಿನಲ್ಲಿ ಉತ್ಪನ್ನವಾಗಿರುವ ನಾದಗಳನ್ನು ನಾದಗಳಾಗಿಯೇ ಹೊರಹಾಕುವ ಸಾಮರ್ಥ್ಯವೂ ಮಾನವನ ಮೆದುಳಿಗಿದೆ. ಅಂದರೆ ಮಾನವನ ಮೆದುಳಿಗೆ ಟ್ರಾನ್ಸ್ಮಿಟರ್‌ನಂತೆ ಕೆಲಸ ಮಾಡುವ ಸಾಮರ್ಥ್ಯ ಇದೆ! ಅಷ್ಟೇ ಅಲ್ಲ ಮಾನವನ ಮೆದುಳಿಗೆ ರೀಸೀವರ್ ಆಗಿಯೂ ಕೆಲಸ ಮಾಡುವ ಸಾಮರ್ಥ್ಯವಿದೆ. ಅಂದರೆ, ನಾವು ಕೇವಲ ಕಡಿಮೆ ವೇಗದ ಶಬ್ದ ಮಾಧ್ಯಮದಲ್ಲಿ ವ್ಯವಹರಿಸಬೇಕು ಎಂದೇನೂ ಇಲ್ಲ. ಇತ್ತರ ನಮ್ಮ ಮೆದುಳಿನಲ್ಲಿರುವ ನಾದಗಳನ್ನು ಅತ್ತರ ಇರುವ ವ್ಯಕ್ತಿಯ ಮೆದುಳಿಗೆ ವರ್ಗ ಮಾಡಬಹುದು. ಅತ್ತರ ಇರುವ ವ್ಯಕ್ತಿ ಆ ನಾದಗಳನ್ನು ಸ್ವೀಕರಿಸಲೂ ಬಹುದಾದ ಶಕ್ತಿ ಮೂಲದಲ್ಲಿ ಮಾನವರಲ್ಲಿ-ರಿಗೂ ಇದೆ. ಹಾಗಾಗಿ ನಾವು ಮೊಬೈಲ್‌ನಂತೆ ವೇಗದ ಮಾಧ್ಯಮವಾದ ನಾದಗಳ ಮೂಲಕವೂ, ವ್ಯವಹರಿಸಬಹುದು. ಹಾಗೆ ಮಾಡಿದಾಗ ಮಾನವ ಶರೀರವೂ ಒಂದು ಮೊಬೈಲ್‌ನಂತೆ ಕೆಲಸ ಮಾಡಿದಂತಾಯಿತು. ಇನ್ನೂ ಒಂದು ಹೆಜ್ಜೆ ಮುಂದೆ ಹೇಳಬೇಕೆಂದರೆ, ಬಹುಷಃ ನಾವು ಮೊಬೈಲ್‌ಗಿಂತಲೂ ವೇಗವಾಗಿ ವ್ಯವಹರಿಸಬಹುದು, ಏಕಕಾಲದಲ್ಲಿ ಅನೇಕರೊಂದಿಗೆ ವ್ಯವಹರಿಸಬಹುದು; ಎಲ್ಲವೂ ಮೌನವಾದ ನಾದಗಳ ಮೂಲಕ! ಅಂದರೆ, ಮೊಬೈಲ್ ಎನ್ನುವುದು ಮಾನವ ಶರೀರದಲ್ಲಿರುವ ಸಾಮರ್ಥ್ಯದ ಕೃತಕರೂಪವಷ್ಟೇ. ಅಂದರೆ ಒಂದು ಮೊಬೈಲ್ ಮಾಡುವ ಕೆಲಸದ ಸಾಮರ್ಥ್ಯ ಮಾನವ ಶರೀರಕ್ಕೂ ಇದೆ; ಅದಕ್ಕಿಂತಲೂ ಹೆಚ್ಚಿನ ಸಾಮರ್ಥ್ಯವೂ ಮಾನವ ಶರೀರಕ್ಕಿದೆ. ಆದರೆ.....

ಆದರೆ.....?

ಇಂದಿನ ನಮ್ಮ ನಗರದ ಯುವಕ ಯುವತಿಯರಿಗೆ ಕಬ್ಬನ್ನು ಹಲ್ಲುಗಳ ಸಹಾಯದಿಂದ ನೇರವಾಗಿ ಎರೆದು, ಹಲ್ಲುಗಳಿಂದ ಅಗೆದು ಅದರ ಸಿಹಿ ಸವಿಯಲು ಸಾಧ್ಯವೇ? ಸದಾ ಇಡ್ಲಿ, ದೋಸೆ, ಅನ್ನ, ಬನ್ನ, ಇತ್ಯಾದಿ ಮೆತ್ತನೆಯ ತಿನಿಸನ್ನು ತಿನ್ನುವವರಿಗೆ ಕಬ್ಬಿನ ಸಿಪ್ಪೆಯನ್ನು ಬಾಯಿಂದ ಎರೆಯುವುದಿರಲಿ, ಎರೆದಿರುವ ಕಬ್ಬನ್ನು ಅಗೆದು ತಿನ್ನುವ ತಾಕತ್ತೂ ಇರುವುದಿಲ್ಲ. ಏನಿದ್ದರೂ ಒಂದು ಯಂತ್ರದ ಸಹಾಯದಿಂದ ಕಬ್ಬಿನರಸವನ್ನು ಹಿಂಡಿಕೊಟ್ಟರೆ ಕುಡಿದಾರು; ಅಷ್ಟೇ.

ಯಾರೇ ಆಗಲಿ, ರೊಟ್ಟಿ, ಹಸಿ ಗಜ್ಜರಿಯಂತಹ ಗಟ್ಟಿಯಾದ ತಿನಿಸು, ತರಕಾರಿ ಅಥವಾ ಹಣ್ಣುಗಳನ್ನು ನಿತ್ಯ ಹಲ್ಲುಗಳಿಂದ ಚೆನ್ನಾಗಿ ಅಗೆದು ತಿನ್ನುತ್ತಾ ತಮ್ಮ ಹಲ್ಲುಗಳಿಗೆ ಕಸರತ್ತನ್ನು ಕೊಟ್ಟರೆ ಮಾತ್ರ ಅವರ ಹಲ್ಲುಗಳು ಚೆನ್ನಾಗಿ ಬೇರೂರಿ ಹಲ್ಲುಗಳಿಗೆ ಗಟ್ಟಿತನ ಬರುವುದು. ನಮ್ಮ ಹಿಂದಿನಕಾಲದ ಅನೇಕರಿಗೆ ಇಳಿಯ ವಯಸ್ಸಿನಲ್ಲೂ ಹಲ್ಲುಗಳು ಚೆನ್ನಾಗಿರಲು ಕಾರಣ ಅವರು ತಮ್ಮ ಹಲ್ಲುಗಳಿಗೆ ಒಳ್ಳೆಯ ಕಸರತ್ತನ್ನು ಕೊಟ್ಟಿರುವುದು.

ಇಲ್ಲಿ ಹಲ್ಲುಗಳನ್ನು ಕೇವಲ ಒಂದು ಉದಾಹರಣೆಗಷ್ಟೇ ತೆಗೆದುಕೊಳ್ಳಲಾಗಿದೆ. ನಾವು ಬದುಕಿರುವವರೆಗೂ ಗಟ್ಟಿಮುಟ್ಟಾಗಿರಬೇಕೆಂದರೆ ನಮ್ಮ ಶರೀರಕ್ಕೆ ಸೂಕ್ತವಾದ ಕಸರತ್ತುಕೊಡಬೇಕು. ಚೆನ್ನಾಗಿ ಮೈಬಗ್ಗಿ ಬೆವರು ಸುರಿಸಿ ಕೆಲಸ ಮಾಡುವವರಿಗೇ ಒಳ್ಳೆಯ ಆರೋಗ್ಯವಂತ ಶರೀರ ಇರುವುದಕ್ಕೆ ಸಾಧ್ಯ. (ಹಾಗಂತ

ಕೇವಲ ಕೆಲಸವೊಂದರಿಂದಲೇ ಆರೋಗ್ಯ ಸಿಗುತ್ತೆ ಅಂತ ಅಲ್ಲ, ಉತ್ತಮ ಆಹಾರ, ಶುಚಿತ್ವ, ನಡೆ ನುಡಿಯೂ ಮುಖ್ಯ.) ಈ ಸಿದ್ಧಾಂತ ಕೇವಲ ಸ್ವಲ್ಪ ಶರೀರಕ್ಕೆ ಮಾತ್ರ ಅನ್ವಯವಾಗುವಂತಹುದಲ್ಲ. ನಮ್ಮ ಮೆದುಳಿನ ಕಾರ್ಯಾಚರಣೆಗೂ ಈ ಸಿದ್ಧಾಂತ ಅನ್ವಯವಾಗುತ್ತದೆ.

ಆದರೆ, ಹಿಂದೆ ಹೇಳಿರುವಂತೆ, ನಾವು ಕಬ್ಬನ್ನು ಅಗೆಯುವ ಸಾಮರ್ಥ್ಯವನ್ನು ಹೇಗೆ ಕಳೆದುಕೊಳ್ಳುತ್ತಿದ್ದೇವೆಯೋ, ಅದೇ ರೀತಿ ತಲೆತಲಮಾರುಗಳಿಂದ ನಾವು ನಮ್ಮಲ್ಲಿರುವ ಮೊಬೈಲ್‌ನ ಸಾಮರ್ಥ್ಯವನ್ನು ಕ್ಷೀಣಿಸಿಕೊಳ್ಳುತ್ತಾ ಬರುತ್ತಿದ್ದೇವೆ. ಇದಕ್ಕೆ ಕಾರಣ, ಬದಲಾಗುತ್ತಿರುವ ನಮ್ಮ ಜೀವನದ ದೈಯೋದ್ದೇಶಗಳು, ಹಾಗೂ ಅದಕ್ಕೆ ತಕ್ಕಂತೆ ಬದಲಾಗುತ್ತಿರುವ ನಮ್ಮ ಜೀವನಶೈಲಿ. ಸ್ವಲ್ಪ ಹಿರಿಯರನ್ನು ವಿಚಾರಿಸಿ ನೋಡಿ, ಅವರ ಜೀವನದ ದೈಯೋದ್ದೇಶಗಳು ಹಾಗೂ ಅದಕ್ಕೆ ತಕ್ಕಂತೆ ಅವರ ಜೀವನಶೈಲಿ ಹೇಗಿದ್ದವು ಎಂದು; ನಿಮಗೇ ತಿಳಿಯುತ್ತದೆ. ಈಗಲೂ ನಾವೇನೂ ಪೂರ್ತಿಯಾಗಿ ನಮ್ಮ ಸಾಮರ್ಥ್ಯಗಳನ್ನು ಕಳೆದುಕೊಂಡುಬಿಟ್ಟಿಲ್ಲ. ಸುಪ್ರವಾಗಿ ಅಡಗಿಹೋಗಿರುವ, ಅದು ಮಿಹೋಗಿರುವ ಈ ಸಾಮರ್ಥ್ಯವನ್ನು ನಾವು ಜಾಗೃತಗೊಳಿಸಿಕೊಳ್ಳಬೇಕಷ್ಟೆ. ಇಂತಹ ಅನೇಕ ಸಾಮರ್ಥ್ಯಗಳನ್ನು ನಾವು ಜಾಗೃತಗೊಳಿಸಿಕೊಂಡಿದ್ದೇ ಆದಲ್ಲಿ ನಮ್ಮ ಆರೋಗ್ಯ, ಶಕ್ತಿ ಸಾಮರ್ಥ್ಯಗಳಿಗೆ ಎಲ್ಲೆಯೇ ಇರುವುದಿಲ್ಲ. ಈ ಸತ್ಯವನ್ನು ಅರಿತುಕೊಳ್ಳುವುದಕ್ಕೆ, ಅದನ್ನು ನಂಬುವುದಕ್ಕೆ ನಮಗೆ ಕಷ್ಟವಾಗುತ್ತಿದೆಯಷ್ಟೆ.

ಈ ಅಪನಂಬಿಕೆಯನ್ನು ಹೋಗಲಾಡಿಸಿ ನಮ್ಮ ಸಾಮರ್ಥ್ಯಗಳನ್ನು ಹೆಚ್ಚಿಸಿಕೊಳ್ಳಲು ಏನು ಮಾಡಬೇಕು?

ಇದಕ್ಕೆ ನಾವು ಮಾಡಬೇಕಾಗಿರುವುದು ಇಷ್ಟೇ; ಮೊದಲಿಗೆ ಕಬ್ಬನ್ನು ಅಗೆದು ತಿನ್ನುವ ಅಭ್ಯಾಸ ಮಾಡಿಕೊಂಡು ನಮ್ಮ ಹಲ್ಲುಗಳ ಗಟ್ಟಿತನ ಹೆಚ್ಚಿಸಿಕೊಳ್ಳಬೇಕು! ಇಲ್ಲಿ ಹಲ್ಲುಗಳು ಎನ್ನುವುದು ಒಂದು ದೈಯೋದ್ದೇಶವಷ್ಟೆ. ಅಂದರೆ, ಮೊದಲಿಗೆ ನಮ್ಮ ಶರೀರಕ್ಕೆ ತಕ್ಕ ಶ್ರಮದ ಕೆಲಸ ನೀಡಿ ಬೆವರು ಬರುವಂತೆ ಕೆಲಸ ಮಾಡಿ ನಮ್ಮ ಶರೀರ ಬಲವನ್ನು ಹೆಚ್ಚಿಸಿಕೊಳ್ಳಬೇಕು. ಇದುವೇ ಎಲ್ಲ ಸಾಧನೆಗಳ ಅನಿವಾರ್ಯ ಅಡಿಪಾಯ. ನಂತರ ಚೆನ್ನಾಗಿ ನಿದ್ರೆ ಮಾಡುವುದನ್ನು ಕಲಿಯಬೇಕು. ಹಾಗೆ ನೋಡಿದರೆ ನಿದ್ರೆ ಮಾಡುವುದನ್ನು ನಾವು ಕಲಿಯಲೇ ಬೇಕಾಗಿಲ್ಲ; ಮಾತೆಗಳೂ ಬೇಕಾಗಿಲ್ಲ. ಅಡಿಪಾಯ ಚೆನ್ನಾಗಿದ್ದರೆ ಸಾಕು. ಅಂದರೆ ಸರಿಯಾದ ಶರೀರಶ್ರಮದ ಕೆಲಸ ಇದ್ದರೆ ಸಾಕು; ನಿದ್ರೆ ತಾನಾಗಿಯೇ ಬರುತ್ತದೆ. ಜೊತೆಗೆ ನಾವು ತೆಗೆದುಕೊಳ್ಳುವ ಆಹಾರವೂ ಮುಖ್ಯ. ನಂತರವಷ್ಟೇ ಮುಂದಿನ ಮಾತು. ಅಂದಹಾಗೆ ಆಹಾರ ಎಂದಕೂಡಲೆ, ಇಂದಿನವರಿಗೆ ಆಹಾರ ಪದಾರ್ಥಗಳನ್ನು ಮಜ(!) ಮಾಡುವ ಸಾಮರ್ಥ್ಯವೇ ಇಲ್ಲವಲ್ಲ ಎಂದು ಮರುಕ ಉಂಟಾಗುತ್ತದೆ. ಉದಾಹರಣೆಗೆ ಕೆಲ ಹತ್ತು ವರ್ಷಗಳ ಹಿಂದಿನದಷ್ಟೇ ಮಾತು ಹೇಳಬೇಕೆಂದರೆ, ದೀಪಾವಳಿ, ಇತರೆ ಹಬ್ಬಗಳು ಬಂದರೆ ಸಾಕು ಹತ್ತು ಹಲವು ರೀತಿಯ ತಿನಿಸುಗಳು, ಸಿಹಿಗಳನ್ನು ಮನೆಗಳಲ್ಲೇ ಮಾಡಿಕೊಂಡು ಅನುಭವಿಸುತ್ತಿದ್ದರು. ಈಗ ಒಂದೆರಡು ಸಿಹಿ ತಿನಿಸುಗಳನ್ನು ಮಾಡುವುದೂ ಕಷ್ಟ. ಇನ್ನೊಂದೆಡೆ ತಿನ್ನುವುದೂ ಕಷ್ಟವಾಗಿಹೋಗಿದೆ. ಚೆನ್ನಾಗಿ ತಿಂದು ಮಜಾ ಮಾಡುವ ಸಾಮರ್ಥ್ಯವೂ ಇಲ್ಲವಾಗಿಹೋಗಿದೆ. ಇಂದಿನವರಿಗೆ, ನಿಜ ಹೇಳಬೇಕೆಂದರೆ ಇಂದಿನನೇಕರು ತಮ್ಮ ಜೀವನದಲ್ಲಿ ಮೆರೆಯುತ್ತಾರೆಯೇ ಹೊರತು ಮಜಾ ಮಾಡಲು ಬರುವುದೇ ಇಲ್ಲ.

ಅದಿರಲಿ, ವಿಷಯ ಮುಂದುವರಿಸೋಣ. ಆಹಾರದ ನಂತರ, ಇನ್ನು ಮುಂದಿನ ಮಾತು? ನಮ್ಮೆಲ್ಲ ಇಂದ್ರಿಯಾತೀತ ಸಾಮರ್ಥ್ಯಗಳ ವೃದ್ಧಿಗೆ ಬೇಕಾಗಿರುವುದು ಒಂದೇ ಒಂದು ಸಾಧನೆ; ಅದುವೇ ಮೌನ! ಶಾಂತವಾದ ಶುದ್ಧ ನೀರಿನ ಮೂಲಕ ಹೇಗೆ ನೀರಿನ ತಳವನ್ನು ಕಾಣಬಹುದೋ, ಅದೇ ರೀತಿ ನೇರ ಬಂಗಿಯಲ್ಲಿ ಕುಳಿತ ಪರಿಪೂರ್ಣ ಶಾಂತ ದೇಹ ಮತ್ತು ಮನಸ್ಸುಗಳ ಮೂಲಕ ಕುಂತಲ್ಲೇ ಎಲ್ಲ ಸಾಮರ್ಥ್ಯಗಳನ್ನು ಪಡೆದುಕೊಳ್ಳಬಹುದು. ಸಾಧ್ಯವಾದರೆ, ಈ ಲೇಖನವನ್ನು ಓದುತ್ತಿರುವ ಈ ಕ್ಷಣದಲ್ಲೇ ಒಂದೇ ಒಂದು ನಿಮಿಷ ಮೌನ ಇದ್ದು ನೋಡಿ; ಮೌನ ಅಂದರೆ ಕೇವಲ ಮಾತನಾಡದಿರುವುದಲ್ಲ, ನೇರ ಬಂಗಿಯಲ್ಲಿ ಕುಳಿತು ಶರೀರದ ಯಾವುದೇ ಭಾಗವನ್ನೂ, ಅಲುಗಾಡಿಸದೆ ಮನಸ್ಸಿನಲ್ಲೂ ಯಾವೊಂದು ವಿಚಾರವನ್ನು ಯೋಚಿಸದೆ ಕೇವಲ ಒಂದು ನಿಮಿಷ, (ಅಂದರೆ 60 ಸೆಕೆಂಡುಗಳ ಕಾಲ!) ಇರಲು ಪ್ರಯತ್ನಿಸಿ ನಿಮ್ಮೆಲ್ಲಾ ಗುವ ಬದಲಾವಣೆಯನ್ನು ನೀವೇ ಕಂಡುಕೊಳ್ಳುವಿರಿ. ಇದನ್ನೇ ದಿನೇ ದಿನೇ ವಿಸ್ತರಿಸುತ್ತಾ ಹೋದಲ್ಲಿ ನಮ್ಮೆಲ್ಲ ರೀತಿಯ ಶಕ್ತಿ ಸಾಮರ್ಥ್ಯಗಳೂ ವೃದ್ಧಿಯಾಗತೊಡಗುತ್ತದೆ. ಈ ಕೆಲಸ ಮಾಡಲು ಯಾವುದೇ ದೇಶ, ಭಾಷೆ, ಲಿಂಗ, ಜಾತಿ, ವರ್ಣ ಇತ್ಯಾದಿ ಯಾವ ಬೇಡವೂ ಇಲ್ಲ; ಇಲ್ಲವೇ ಇಲ್ಲ.

ನೀವು ಯಾವುದೇ ದೇಶ, ಭಾಷೆ.....ಯವರಾಗಿರಲಿ, ನಿಮ್ಮ ಸರಿಜೀವನಶೈಲಿಗೆ ಒಂದೇ ಒಂದು ಮಾನದಂಡ ಸಾಕು; ನೀವು ಮೌನವಾಗಿರಬಲ್ಲರೇ? ಎಂದು. ನೀವು ದಿನದಿಂದ ದಿನಕ್ಕೆ ಒಂದು ಕ್ಷಣವಾದರೂ ಮೌನವನ್ನು ಹೆಚ್ಚಿಸಿಕೊಳ್ಳುತ್ತಾ ಬರುವುದಕ್ಕೆ ಅಡಚಣೆಯುಂಟಾಗುತ್ತಿದೆಯೆಂದರೆ, ನಿಮ್ಮ ಜೀವನಶೈಲಿಯಲ್ಲಿ- ಎಲ್ಲೋ ಏನೋ ತೊಂದರೆ ಇದೆ ಎಂದು ತಿಳಿದುಕೊಂಡುಬಿಡಿ, ಮತ್ತು ಸೂಕ್ತ ಬದಲಾವಣೆ ಹೇಗಿರಬೇಕೆಂದು ನೀವೇ ಚಿಂತಿಸಿ ಸೂಕ್ತ ಕ್ರಮ ತೆಗೆದುಕೊಳ್ಳಿ. ಇದಕ್ಕಿಂತ ಹೆಚ್ಚಿನದ್ದೇನನ್ನೂ ಹೇಳುವ ಅವಶ್ಯಕತೆ ಇಲ್ಲ. ನಿಮ್ಮ ನಿಸರ್ಗದತ್ತ ಶಕ್ತಿ ಸಾಮರ್ಥ್ಯಗಳು ಹೆಚ್ಚುವುದರಲ್ಲಿ ಅನುಮಾನವೇ ಇಲ್ಲ.

ನೆನಪಿರಲಿ, ಮಾನವನ ಮೆದುಳಿಗೆ ಅತ್ಯಂತ ಸೂಕ್ಷ್ಮವಾದದ್ದನ್ನು ಕಾಣುವ ಸೂಕ್ಷ್ಮದರ್ಶಕವಾಗಿಯೂ ಅತ್ಯಂತ ದೂರದಲ್ಲಿರುವ ವಸ್ತುಗಳನ್ನು ಕಾಣುವ ದೂರದರ್ಶಕವಾಗಿ ಕೆಲಸ ಮಾಡುವ ಸಾಮರ್ಥ್ಯವಿದೆ. ಹಾಗಾಗಿಯೇ ನಮ್ಮ ಪ್ರಾಚೀನ ಋಷಿಮುನಿಗಳು ಕೂತಲ್ಲೇ ಎಲ್ಲವನ್ನೂ ಕಾಣುವ ದಾರ್ಶನಿಕರಾಗಿದ್ದರು. ಕೂತಲ್ಲಿನಿಂದಲೇ ವಿಶ್ವವನ್ನು ಕಾಣುವ ಸಾಮರ್ಥ್ಯವನ್ನು ಹೊಂದಿದವರಾಗಿದ್ದರು. ಕೇವಲ ಜ್ಞಾನಿಗಳಾಗಿರದೆ ಹಿಂದಾದದ್ದನ್ನು ತಿಳಿಯಬಲ್ಲ, ಮುಂದಾಗಬಹುದಾದದ್ದನ್ನೂ ತಿಳಿಯಬಲ್ಲ ತ್ರಿಕಾಲಜ್ಞಾನಿಗಳೂ ಆಗಿದ್ದರು. ಇದಕ್ಕಾಗಿ ಅವರಿಗೆ ಇಂದಿನ ಯಾವ ಸಾಧನಗಳೂ ಬೇಕಾಗಿರಲಿಲ್ಲ. ಅವರಿಗಿದ್ದದ್ದು ಒಂದೇ ಸಾಧನ, ಅದುವೇ ಮೌನ. ಈ ಶಿಖರ ಸಾಧನೆಗೆ ಪೂರಕವಾದ ಜೀವನಶೈಲಿ ಯನ್ನು ನಾವು ಅಳವಡಿಸಿಕೊಂಡರೆ ಸಾಕು.

ಕೊನೆಯದಾಗಿ; ಹಿಂದೆ ಹೇಳಿರುವಂತೆ: ನಾವು ಗಟ್ಟಿ ಪದಾರ್ಥಗಳನ್ನು ತಿನ್ನದೆ ನಮ್ಮ ಹಲ್ಲುಗಳನ್ನು ಗಟ್ಟಿಗೊಳಿಸಿಕೊಳ್ಳದಿದ್ದರೆ ಹೆಚ್ಚೇನು ಸಷ್ಟಿಲ್ಲ. ಒಂದು ಹತ್ತುರೂಪಾಯಿ ತೆತ್ತರೆ ಯಂತ್ರಗಳ ಮೂಲಕ ಹಿಂಡಲಾದ ವಿಧ ವಿಧ ರಸಗಳು ಬೀದಿಗಳಲ್ಲಿ ಲಭ್ಯ. ನಾವು ಮೆದುಳಿನ ಸಹಾಯದಿಂದ ಮನಸ್ಸಿನಲ್ಲಿ ಲೆಕ್ಕ ಹಾಕದಿದ್ದರೆ ಹೆಚ್ಚೇನು ಸಷ್ಟಿಲ್ಲ. ಒಂದೆರಡು ನೂರು ರೂಪಾಯಿಗಳನ್ನು ತೆತ್ತರೆ ಕ್ಯಾಲ್ಸುಲೇಟರ್ ಮಾರುಕಟ್ಟೆಯಲ್ಲಿ ಲಭ್ಯ. ಇನ್ನು, ಮೊಬೈಲ್-ಒಂದೆರಡು ಸಾವಿರ ರೂಪಾಯಿಗಳಲ್ಲಿ ಲಭ್ಯ.

ಇವೇನೋ ಸರಿ. ನಾವು ಕುಂತಲ್ಲೇ ಗ್ರಹಗಳು, ನಕ್ಷತ್ರಗಳನ್ನು ಕಾಣುವ ಸಾಮರ್ಥ್ಯವನ್ನು ಕಳೆದುಕೊಂಡಿದ್ದೇವಲ್ಲಾ? ಇದಕ್ಕೆ ನಾವು ಸಾವಿರಾರು ಕೋಟಿ ರೂಪಾಯಿಗಳನ್ನು ತೆರಬೇಕಾಗಿದೆ. ಭೂಮಿಗೆ ಅತ್ಯಂತ ಹತ್ತಿರದಲ್ಲಿರುವ ಮಂಗಳಗ್ರಹಕ್ಕೇನೋ ಈಗೀಗ ಉಪಗ್ರಹವನ್ನು ಕಳುಹಿಸುವ ಪ್ರಯತ್ನ ನಡೆಯುತ್ತಿದೆ. ಪ್ರಯತ್ನ ಸಫಲವಾದರೆ, ಅದೇನೋ ಒಂದಿಷ್ಟು ಕೆಲಸ ಮಾಡಬಹುದು. ಇನ್ನು ಇತರೆ ಗ್ರಹಗಳ ಬಗ್ಗೆ ತಿಳಿಯಲು ನಾವು ಅದಿನ್ನಷ್ಟು ವರ್ಷಗಳು ಕಾಯಬೇಕೋ, ಅದಿನ್ನಷ್ಟು ಸಹಸ್ರಕೋಟಿ ರೂಪಾಯಿಗಳನ್ನು ತೆರಬೇಕೋ? ಇಷ್ಟೆಲ್ಲಾ ಖರ್ಚು ಮಾಡಿದರೂ ಸಫಲತೆ ಖಾಯಂ ಅಲ್ಲ.

ಇನ್ನು, ತ್ರಿಕಾಲಜ್ಞಾನದ ಯಂತ್ರ? ಅದು ತಯಾರಾಗುವಷ್ಟಕ್ಕೆ ಪ್ರಕೃತಿ ಇನ್ನಷ್ಟು ವಿಕೋಪಕ್ಕೆ ಹೋಗಿರುತ್ತದೋ? ಮನುಕುಲವೇ ಉಳಿದಿರುತ್ತದೋ ಇಲ್ಲವೋ? ಹೀಗೆ ನೋಡಿದರೆ, ನಾವು ಎಷ್ಟು ಹಿಂದುವರೆದಿದ್ದೇವೆ ಎನ್ನುವುದರ ಅರಿವಾಗುತ್ತದೆ.

ಇಂದು ನಾವು ತಂತ್ರಜ್ಞಾನದಲ್ಲಿ ಮುಂದುವರೆಯುತ್ತಿರುವುದೇನೋ ನಿಜ. ಅದು ಇಂದಿನ ದಿನಗಳಲ್ಲಿ ಅನಿವಾರ್ಯವಾಗಿ ಬಿಟ್ಟಿರುವುದೂ ನಿಜ. ಆದರೆ, ಜೊತೆಜೊತೆಗೆ ಎಂದೂ ಹಿಂದಿರುಗಲಾರದಷ್ಟು ಮುಂದುವರೆಯುತ್ತಿದ್ದೇವೆಯೇನೋ ಎಂಬ ಸಂಶಯ ಕಾಡುತ್ತಿದೆ. ಶಾಂತಿಕವಾಗಿ ಅಲ್ಲದಿದ್ದರೂ; ನಮ್ಮ ಮೂಲ, ನಿಸರ್ಗದತ್ತ ಶಕ್ತಿ-ಸಾಮರ್ಥ್ಯಗಳನ್ನು ಅರಿತುಕೊಳ್ಳುವುದಕ್ಕಾಗಿಯಾದರೂ, ಗಳಿಸಿಕೊಳ್ಳುವುದಕ್ಕಾಗಿಯಾದರೂ, ಅನುಭವಿಸಿ ನೋಡುವುದಕ್ಕಾಗಿಯಾದರೂ ಇನ್ನಾದರೂ ನಾವು ಸ್ವಲ್ಪವಾದರೂ ಹಿಂದುವರೆಯೋಣವೇ? ನಮ್ಮೊಳಗಿನ ಮೊಬೈಲನ್ನು ನಾವು ಕಂಡುಕೊಳ್ಳೋಣವೇ?

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ನಾನು ಮೇಲ್ವರ್ಗದ ವರ್ಗದ ಕಾಲೇಜಿನಲ್ಲಿ ಮನೆಯನ್ನು ಬಾಡಿಗೆಗೆ ಮಾಡಿದ್ದೆ. ಆ ಮನೆ ಕಾಲೇಜಿನಲ್ಲಿ ಕಡಿಮೆ ದರದಲ್ಲಿ ನನಗೆ ಸಿಕ್ಕಿತು, ಏಕೆಂದರೆ ಆ ಮನೆ ಕಾಲೇಜಿನ ವಿಸ್ತೀರ್ಣದಲ್ಲಿ ಕೊನೆಯ ಮನೆ. ಕಾಲೇಜಿನ ಸುತ್ತ ಭದ್ರವಾದ ಗೋಡೆ ನಿರ್ಮಿಸಿದ್ದು, ಆ ಕಾಲೇಜಿನ ನಿವಾಸಿಗಳಿಗೆ ತೊಂದರೆಯಾಗಬಾರದೆಂದು ದ್ವಾರಫಲಕರನ್ನು ಇಟ್ಟಿದ್ದರು. ಎಲ್ಲ ನಿವಾಸಿಗಳು ಆ ದ್ವಾರದಿಂದ ಒಳಗೆ ಬರಬೇಕು ಮತ್ತು ಹೊರಗೆ ಹೋಗಬೇಕಾಗಿತ್ತು. ಆ ಕಾಲೇಜಿನಲ್ಲಿ ಒಂದೇ ದ್ವಾರ ಆ ದ್ವಾರದಿಂದಲೇ ವಾಹನಗಳು ಮತ್ತು ಪಾದಚಾರಿಗಳು ಕೂಡ ಸಂಚರಿಸಬೇಕು. ಆ ಕಾಲೇಜಿನ ಮೇಲ್ವರ್ಗದ ವರ್ಗದವರು, ಸುಂದರ ಮನೆಗಳು, ಅಚ್ಚಕಟ್ಟಾದ ರಸ್ತೆ, ಮನೆಯ ಒಳಾಂಗಣ ಕೂಡ ಸುಂದರವಾಗಿದ್ದವು. ಮನೆ ನೋಡಿ ಬುಂಬ ಮನಸ್ಸಿಗೆ ಒಪ್ಪಿಗೆಯಾಯಿತು, ಮನೆಯ ಒಡೆಯನು ಕಡಿಮೆ ದರದಲ್ಲಿ ಕೊಡಲು ಒಪ್ಪಿದ್ದರು ಏಕೆಂದರೆ ಮನೆಯ ಪಕ್ಕದಲ್ಲಿ ರಾಜಕಾಲುವೆ ಸಾಗಿತ್ತು. ರಾಜಕಾಲುವೆ ಪಕ್ಕದಲ್ಲಿ ಸ್ಮಶಾನ. ಸ್ಮಶಾನದ ಪಕ್ಕದಲ್ಲಿ ಕೂಲಿ ಕಾರ್ಮಿಕರ ನಿವಾಸಗಳು. ನಾನು ಆ ಮನೆಗೆ ಬಂದು 3 ತಿಂಗಳು ಕಳೆದಿತ್ತು. ನಾನು ಆ ಮನೆಯಲ್ಲಿ ಒಬ್ಬನೇ ಇರುತ್ತಿದ್ದೆ. ಅಮ್ಮ ಕೆಲವೊಮ್ಮೆ ಊರಿಗೆ ಹೋಗುತ್ತಿದ್ದರು. ಒಂದು ದಿನ ರಾತ್ರಿ ಸುಮಾರು 10.30 ಗಂಟೆಗೆ ಊಟ ಮಾಡಿ ಮಲಗಿದ್ದೆ. ಮಧ್ಯರಾತ್ರಿ ಇದ್ದಕ್ಕಿದ್ದ ಹಾಗೆ ಎಚ್ಚರವಾಯಿತು.

ಮೊಬೈಲ್‌ನಲ್ಲಿ ಸಮಯ ನೋಡಲು ಪಕ್ಕದಲ್ಲಿ ಹುಡುಕುತ್ತಿದ್ದಾಗ ಲಲ್ಲ ಬಲ್ಲ ಲಲ್ಲ ಬಲ್ಲ ಎಂದು ಜೋರಾಗಿ ಶಬ್ದ ಕೇಳುಬರ ತೊಡಗಿತ್ತು ಏದೆಯಲ್ಲಿ ಏನೂ ಡವಡವ ಡವಡವ ಕೈಕಾಲು ಅಲ್ಲಾಡ ತೊಡಗಿದವು. ನಾನು ಒಬ್ಬನೇ ಬೇರೆ, ಯಾರೋ ಕಳ್ಳ ಬಂದಿರಬಹುದು ಬಾಗಿಲನ್ನು ಒಡೆಯುತ್ತಿರಬಹುದು. ಅಯ್ಯೋ ಏನು ಮಾಡಲಿ? ಮೊಬೈಲಿಂದ ಪೋಲೀಸರಿಗೆ ವಿಷಯ ಮುಟ್ಟಿಸಲಿ? ಎಲ್ಲಿ ಮೊಬೈಲ್ ಕೂಡ ಸಿಗುತ್ತಿಲ್ಲ. ಕಳ್ಳರು ಒಳಗೆ ಬಂದಿಬಿಟ್ಟಿದ್ದಾರೆಯೇ? ಕೂಗಿಕೊಳ್ಳಲಿ? ಶಬ್ದ ಮಾತ್ರ ಹಾಗೇ ಬರುತ್ತಿದೆ. ದೇಹವೆಲ್ಲ ಬೆವರುತ್ತಿದೆ. ನಾನು ಧೈರ್ಯವನ್ನು ಮನಸ್ಸಿಗೆ ತಂದುಕೊಂಡು ನಾನೊಬ್ಬನೇ ಹೋರಾಡಬಲ್ಲೆ ಎಂದುಕೊಂಡೆ. ಅಷ್ಟರಲ್ಲೇ ನನಗೆ ನೆನಪಾಗಿದ್ದು ರೈಲು. ಓ ಇದು ಸರಕು ಸಾಗಾಣಿಕೆ ಮಾಡುವ ರೈಲು ಗಾಡಿಯ ಶಬ್ದವಿರಬೇಕೆಂದುಕೊಂಡೆ. ನಾನು ಬಾಲ್ಯದಲ್ಲಿ ಈ ಶಬ್ದವನ್ನು ರೈಲು ನಿಲ್ದಾಣದಲ್ಲಿ ಸಾರ್ವಜನಿಕರ ರೈಲಿಗಾಗಿ ಕಾಯುತ್ತಿದ್ದಾಗ ಕೆಲವೊಮ್ಮೆ ಕಾಲಿ ಸರಕು ಸಾಗಾಣಿಕೆ ರೈಲು ಈ ಶಬ್ದವನ್ನು ಹೊರಸೂಸುತ್ತಾ ಹೋಗುತ್ತಿತ್ತು. ತಟ್ಟನೆ ಇದು ನೆನಪಾಗುತ್ತಿದ್ದಂತೆ ಧೈರ್ಯ ಮತ್ತಷ್ಟು ಹೆಚ್ಚಿ ಎದ್ದು ಲೈಟನ್ನು ಹಾಕಿದೆ. ಲೈಟನ್ನು ಹಾಕಿದ ಸ್ವಲ್ಪ ಹೊತ್ತಿನಲ್ಲಿ ರೈಲು ಇಂಜಿನಿನ ಧ್ವನಿವರ್ಧಕ ಶಬ್ದವನ್ನು ಮಾಡಿತು. ಅಬ್ಬಾ! ಇದು ರೈಲಿನ ಶಬ್ದವೇ ಎಂದು ಮಲಗುವ ಕೋಣೆಯಿಂದ ಹೊರ ಬಂದು ಹಜಾರದ ಮುಂದಿನ ಬಾಗಿಲು ಮತ್ತು ಮನೆಯ ಹಿಂದಿನ ಬಾಗಿಲನ್ನು ಪರೀಕ್ಷಿಸಿ ನಿಟ್ಟುಸಿರು ಬಿಟ್ಟೆ. ಆಗ ಬೆಳಗಿನ ಜಾವ 3.15 ಆಗಿತ್ತು. ನಾನು ಈ ಶಬ್ದವನ್ನು ಬಾಲ್ಯದಲ್ಲಿ ಆಲಿಸಲಿಲ್ಲದಿದ್ದರೆ ಏನಾಗುತ್ತಿತ್ತು ಎಂಬುದು ಊಹಿಸಿಕೊಳ್ಳಲು ಸ್ವಲ್ಪ ಕಷ್ಟ. ಯಾರು ರೈಲು ಹಳಿ ಪಕ್ಕದಲ್ಲಿ ಮನೆಯನ್ನು ಮಾಡಿ ಒಬ್ಬರೇ ಮನೆಯಲ್ಲಿ ಮಲಗುವರೋ ಅವರು ಖಂಡಿತ ಈ ಘಟನೆಯ ಕಥೆಯನ್ನು ಓದಿ. ಮುಂದೊಂದು ದಿನ ನಿಮಗೂ ರಾತ್ರಿ ವೇಳೆಯಲ್ಲಿ ಈ ಅನುಭವ ಆದರೆ ಹೆದರದಿರಿ.

ಇಂತಿ

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ಪ್ರೀತಿಯ ಉಳುಮೆ ಹೃದಯದ ಹೊಲದಲ್ಲಿ
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ನೋಡುವ ನೋಟದಲ್ಲಿ ನಿಂದೆ ಪ್ರತಿಬಿಂಬ
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ಮುಂಜಾನೆ ಮಂಜಿನಲ್ಲಿ ನಿಂದೆ ಮುಸುಕು
ಮುಸುಂಜೆ ಮಬ್ಬಿನಲ್ಲಿ ನಿಂದೆ ಬೆಳಕು
ಬರೆಯದ ಕವಿತೆಗೆ ನಿಂದೆ ಮುನ್ನಡಿ
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ಆರಂಭವಾಗೋ ಅದ್ಭುತ ಗಳಿಗೆಯಲಿ
ಕಲಿಕೆಗೆ ಧುಮುಕುವ ವಿದ್ಯಾರ್ಥಿಯೇ
ನಿನದಿದು ಅತ್ಯುತ್ತಮ ಅಧ್ಯಯನ ಸಮಯ|

ಖಾಲಿ ಕೊಡವಾಗಿ ಬಂದು ಇಂಜಿಂಚು ಜ್ಞಾನ ತುಂಬುತ
ಬೆರೆತು ಕಲಿತು, ಬೆರಗಾಗಿ, ಬಸವಳಿದು
ನೈಹ ಪ್ರೀತಿಯಲಿ ಮಿಂಚಿದ್ದು
ಕಲಿಕೆಯ ಜೊತೆ ಬಾಳ ಪಾಠವ ಕಲಿತು
ಕಾಲದ ಮಹತ್ವವ ಅರಿತು
ಮುನ್ನಗುವ ಬರವಸೆಯ ಸಮಯ
ಇದು ವಿದ್ಯಾರ್ಥಿಯ ತವಕ ತುಳುಕುವ ಸಮಯ|

ಸಂಯಮ, ತಾಳ್ಮೆ, ಜಾಣ್ಮೆಯಲಿ ಕಲಿತು
ಮುಂದಿನ ಗುರಿ ಕನಸಿಗೆ ಹೆಜ್ಜೆಯಿಡುತ್ತ
ಅವಕಾಶದ ಸಮುದ್ರದಲಿ ಈಜಾಡುತ್ತ
ಅವಮಾನವ, ಸಮ್ಮಾನವ ಸರಿದೂಡುತ್ತ
ಸಾಗುತ್ತ ಸಾಗುತ್ತ ತಿರಿಗೊಮ್ಮೆ ನೋಡಲು
ಮನದಿ ಅಚ್ಚಳಿಯದೆ ಉಳಿದ ಸಮಯ
ಇದು ವಿದ್ಯಾರ್ಥಿಯ ವಿಶೇಷ, ವಿಸ್ಮಯ ಸಮಯ|

2. ಮಾದ್ರನ್ ಗುರು ಹೇಗಿರಬೇಕು???

ನಗು ಮೊಗದ ಸಿಹಿ ಸ್ಮರದ ನುರಿತ ಗೆಳೆಯ
ತಿಳುವಳಿಕೆ, ಮನವರಿಕೆ ಅರಿತ ಸ್ವಲ್ಪ ಹಿರಿಯ
ಕಲಿತು ಕಲಿಸುವ ಕಲೆಯಿರಬೇಕು
ಹೊಸತನ ಚೈತನ್ಯ ತುಂಬಿರಬೇಕು
ಸಾಮಾನ್ಯ ಜ್ಞಾನ ತುಸು ಹೆಚ್ಚಿರಬೇಕು
ಹೊಸ ತಂತ್ರಜ್ಞಾನ, ಗಣಕಯಂತ್ರ ಗೊತ್ತಿರಬೇಕು
ಮಾಹಿತಿ ಹುಡುಕುವಲ್ಲಿ ಮೊದಲಿರಬೇಕು
ವಿದ್ಯಾರ್ಥಿಗಳ ತುಂಟಾಟಕ್ಕೆ ಮುಗುಳ್ಳಗಬೇಕು
ಹುಡುಗರ ಮೊಂಡಾಟಕ್ಕೆ ಮಾತಿನ ಬಾಣವೆಸೆಯಬೇಕು
ಮುಖ್ಯಸ್ಥರ ಮಾತಿನಂತೆ ನಡೆಯಬೇಕು
ವ್ಯವಸ್ಥಾಪಕರ ಧೈಯವನ್ನು ಅರಿತಿರಬೇಕು
ಪಾಠದ ಜೊತೆ ಕಡತ ಜ್ಞಾನ ಬೇಕೇಬೇಕು
ಕೆಲಸದ ವೇಳೆ ತುಸು ಹೆಚ್ಚಾದರೆ ಸಹಕರಿಸಬೇಕು
ಮಾನಸಿಕ ಒತ್ತಡ ಸಹಿಸುವ ದೃಢ ಮನವಿರಬೇಕು|

ಮೌನವಾದೆ...!

"ಒಳಗೆ ಫ್ಯಾನಿನಡಿಯಲಿ ಕೂತು
ಸೆಕೆಸೆಕೆಯೆಂದು ಗೊಣಗುತ್ತಲಿದ್ದೆ
ಹೊರಗೆ ಉರಿಬಿಸಿಲಿನಲಿ ಬೆನ್ನು
ಬಾಗಿಸಿ ದುಡಿಯುತ್ತಿದ್ದವನ ಕಂಡು
ಮೌನವಾದೆ...

ಈಜುಕೊಳದಲಿ ಈಜಾಡಲು
ನೀರಿಲ್ಲವೆಂದು ಕೊರಗುತ್ತಲಿದ್ದೆ
ತೊಟ್ಟು ನೀರಿಗಾಗಿ ಮೈಲುದೂರ
ನಡೆದುಹೋಗುತ್ತಿದ್ದವನ ಕಂಡು
ಮೌನವಾದೆ...

ಹೊಟ್ಟೆತುಂಬಿಸಲು ರುಚಿಯಾದ
ಉಟ ಸಿಗಲಿಲ್ಲವೆಂದು ಸಿಟ್ಟಾಗುತ್ತಲಿದ್ದೆ
ತುತ್ತು ಅನ್ನಸಿಗದೆ ಹಸಿವಿನಿಂದ
ಸಾಯುತ್ತಲಿದ್ದವನ ಕಂಡು
ಮೌನವಾದೆ...

ಸಾವಿರ ರೂಪಾಯಿ ಇಟ್ಟುಕೊಂಡು
ಲಕ್ಷಲಕ್ಷಬೇಕೆಂದು ಹಂಬಲಿಸುತ್ತಲಿದ್ದೆ
ಒಂದು ರೂಪಾಯಿ ಹಣಕಾಗಿ
ಭಿಕ್ಷೆ ಬೇಡುತ್ತಿದ್ದವನ ಕಂಡು
ಮೌನವಾದೆ...

ಹೆತ್ತವರು ಬಂಧುಬಳಗದವರು
ಮಾತಾಡಿಸಿಲ್ಲವೆಂದು ಮಂಕಾಗುತ್ತಲಿದ್ದೆ
ಹೇಳುವವರು ಕೇಳುವವರು ಯಾರೂ
ಇಲ್ಲದೆ ಅನಾಥನಾಗಿದ್ದವನ ಕಂಡು
ಮೌನವಾದೆ...

ಬಣ್ಣವಿಲ್ಲ ಎತ್ತರವಿಲ್ಲ ಅಂದವಿಲ್ಲ
ಚಂದವಿಲ್ಲವೆಂದು ಚಿಂತೆಮಾಡುತ್ತಿದ್ದೆ
ಕೈಯಿಲ್ಲದೆ ಕಾಲಿಲ್ಲದೆ ಕಣ್ಣಿಲ್ಲದೆ
ಅಂಗಉಳಿದವನಾಗಿದ್ದವನ ಕಂಡು
ಮೌನವಾದೆ...

ಬಣ್ಣವಿಲ್ಲ ಎತ್ತರವಿಲ್ಲ ಅಂದವಿಲ್ಲ
ಚಂದವಿಲ್ಲವೆಂದು ಚಿಂತೆಮಾಡುತಿದ್ದೆ
ಕೈಯಿಲ್ಲದೆ ಕಾಲಿಲ್ಲದೆ ಕಣ್ಣಿಲ್ಲದೆ
ಅಂಗಉನವಾಗಿದ್ದವನ ಕಂಡು
ಮೌನವಾದೆ...

ಹೌದು..!

ಇರುವ ಭಾಗ್ಯವ ನೆನೆದು
ನಾ ಮೌನವಾದೆ...!

(ವಾಟ್ಸಾಪ್ ಸಂದೇಶ)

ರಾಜೇಶ್ವರಿ ಎಸ್. ಬಿ

ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕರು
ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ ವಿಭಾಗ
ಎಂ.ಸಿ.ಆರ್.ಎಚ್.ಬಿ. ಬೆಂಗಳೂರು-೫೬೦೦೭೫

ರತ್ನನ್ ಪ್ರಪಂಚ ಅಲ್ಲಾ... ಸ್ಮಾರ್ಟ್ ಫೋನ್ ಪ್ರಪಂಚ...!

ಹಿಡ್ಲೊ ಫೋನ್ ಒಂದ್ ಫೋನು
ಅದ್ರಲ್ಲಿ ಡಾಟಾ ಪ್ಲಾನು
ನೋಡೋಕೆ ಚಾರ್ಜ್‌ದ್ರೆ ಕೊಂಚಾ
ಕಿವಿಯಲ್ಲಿ ಇಯರ್ ಫೋನು
ದೇವ್ರಾಣೆ ಪಾರ್ಟಿ ಗಾನು
ಇದೇನೆ ಸ್ಮಾರ್ಟ್ ಫೋನ್ ಪ್ರಪಂಚ

ಅಗಲೆಲ್ಲಾ ಪಟ ತಕೋತಾ
ಸೆಲ್ಫಿಗೆ ಹೆಲ್ಪು ಕಿರ್ಕೋಂತಾ
ರಾತ್ರಿ ಸಿಕ್ಕಾಗ ಚಾರ್ಜರ್, ಮಂಚಾ
ಅಪ್ಪೇಟ್ ಹಾಕೋಂತಾ
ಟ್ಯಾಗನ್ನ ಮಾಡೋತಾ
ಇಗ್ಗೋದೆ ಸ್ಮಾರ್ಟ್ ಫೋನ್ ಪ್ರಪಂಚ

ಏನೋ ಕುಸಿಯಾದಾಗ
ಸ್ಟೇಟಸ್ ಹಾಕ್ತಾಗ
ಬಿದ್ದೆ ಸಾಕು ಲೈಕು ಕೊಂಚಾ
ಒಂದೊಂದು ಕಮೆಂಟ್ಸ್ ಅಲ್ಲಿ
ಥ್ಯಾಂಕ್ಯೂ ಹಾಕೋದ್ ಏನೇಳ್ಳಿ
ಬೇಕಿತ್ತಾ ಸ್ಮಾರ್ಟ್ ಫೋನ್ ಪ್ರಪಂಚ

ಯಾರಾದ್ರೂ ಬೈಲಣ್ಣಾ
ಡೋಂಟ್ ಕೇರ್ ನಾವಣ್ಣಾ
ನಾವ್ ಇರೋದೇ ಹೀಗೆ ಮಚ್ಚಾ
ಮಾರ್ಕೆಟ್ಟಿನ ಫೇಸ್ಪುಕ್ಕು
ಬೋರಾದ್ರೆ ವಾಟ್ಸಾಪು
ಮುಗ್ಗೋಯ್ತು ಸ್ಮಾರ್ಟ್ ಫೋನ್ ಪ್ರಪಂಚ...

(ವಾಟ್ಸಾಪ್ ಸಂದೇಶ)

ರಾಜೇಶ್ವರಿ ಎಸ್. ಬಿ

ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕರು
ಮಾಹಿತಿ ತಂತ್ರಜ್ಞಾನ ವಿಭಾಗ
ಎಂ.ಸಿ.ಆರ್.ಎಚ್.ಬಿ. ಬೆಂಗಳೂರು-೫೬೦೦೭೫

माँ तेरे प्यारे का...

Sumith Kumar

1MS14IS136 (Dept. of ISE)

माँ तेरे प्यारे का अब कुछ प्यारा नहीं है
कहानियों का अब कोई टूटता तारा नहीं है

तेरी गर्म रोटियों का वो प्यार
तेरी नर्म गोद में मेरा सारा संसार
जरा सा आखों से ओझल क्या होता मैं
माँ वो तेरी चिंता भरी पुकार
अब तक किसी ने वैसे पुकारा नहीं है
माँ तेरे प्यारे का अब कुछ प्यारा नहीं है

मेरी बीमारियों में तेरा रात भर जागना
मेरी बेचैनी पर तेरा इधर उधर भागना
मुझे ये खिलाना, वो पिलाना
मेरे हर दर्द पर तेरा दुलारना
अब तक किसी ने वैसे दुलारा नहीं है
माँ तेरे प्यारे का अब कुछ प्यारा नहीं है

मैं जहाँ हूँ वहाँ तेरा ही साया है
तू मुझे देख रही, मैंने सदा यही पाया है
मुझे तेरी कमी से उबार दे, माँ
अपने इस बेटे को फिर से संवार दे, माँ
अब तक किसी ने वैसे संवारा नहीं है
माँ तेरे प्यारे का अब कुछ प्यारा नहीं है

कुछ बातें...

Sumith Kumar

1MS14IS136 (Dept. of ISE)

कुछ बातें हैं जो होठों तक कभी आती नहीं
दर्द बड़ा है मन में, पर जुबा कुछ कहती नहीं

मैं टूट बिखर कर हर रोज़ फिरसे संवर सा जाता हूँ
हृदय की वेदना से हर रोज़ उबर सा जाता हूँ
चुप्पी में सब सहने की हमारी आदत कभी जाती नहीं
कुछ बातें हैं जो होठों तक कभी आती नहीं.....

सब शांत है आस पास पर चैन ढूँढ न पाया हूँ
मन के कहने पे चलकर, हमेशा पहली डगर पर आया हूँ
ये आँखें मेरी दगाबाज़, कभी कुछ छुपा पाती नहीं
कुछ बातें हैं जो होठों तक कभी आती नहीं.....

ये हर खुबसूरत लम्हा जो बेफिज़ूल बीतता जाता है
बाहें खोल खड़ा मैं समेटने, पर कुछ हाथ नहीं आता है
ये कैसी खोटी किस्मत अपनी, तरस खा के भी कुछ लाती नहीं
कुछ बातें हैं जो होठों तक कभी आती नहीं.....

इन हालातों को अब हाथों की रेखाएं भी ना बदल पाएंगी
लगता है हमारे जीने की ये कोशिश भी बेकार जाएगी
इस हताशा में ये कैद ज़िंदगी, अब थोड़ी भी भाति नहीं
कुछ बातें हैं जो होठों तक कभी आती नहीं.....

माना की है अँधेरा..

Sumith Kumar

1MS14IS136 (Dept. of ISE)

माना की है अँधेरा घना,पर चिराग जलाना कब मना है
चाहे हारे हों हम,पर आशा के गीत गाना कब मना है
कोशिशों के बावजूद नाकामियां तो होती हैं
पर कोशिशों को दोहराना कब मना है

माना की कभी मंजिल दो कदमों से रह जाती है
माना की हर बार हारने पर जीत बड़ा तरसाती है
पर उस मंजिल,उस जीत के लिए दो कदम बढ़ाना कब मना है
माना की है अँधेरा घना,पर चिराग जलाना कब मना है

माना की मुश्किलों में ही हैं सब साथ छोड़ते
माना की मदद के नाम पर ही हैं सब मुह मोड़ते
पर अकेले ही पर्वत गिराना कब मना है
माना की अँधेरा घना,पर चिराग जलाना कब मना है

चीर उन्मासी की चादर,अंग अंग में उमंग भर लो
हर परिस्थिति में है अपनी ही विजय,ये निश्चित कर लो
क्योंकि खुद में जीत की तृष्णा जगाना कब मना है
माना की है अँधेरा घना,पर चिराग जलाना कब मना है

गोद में तेरे पलने वाले ही अब छलने लगे हैं।



Abhishek Kumar

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8th Semester

Dept. of Mechanical Engg.

तेरा खातें हैं तेरा पीते हैं ,तूझे ही आँख लदखाते हैं ।
बबादी तेरी हो जाए ऐसी षड़यंत्र रचातें हैं ।
लानत है ,थू है ,जो ये ज़हर उगलने लगे हैं ।
गोद में तेरे पलने वाले ही अब छलने लगे हैं ।

तेरी उदारता का परिणाम है, जिसे तुमने बोलने की आजादी दी है
बदले में जिसने केवल छल , धोखा और बर्बादी दी है ।
कुछ हराम के नेता भी उनकी हाँ में हाँ कहने लगे हैं ।
गोद में तेरे पलने वाले ही अब छलने लगे हैं ।

गैरों से हम डरते हैं ,पर यहाँ अपने ही डसने लगे हैं ।
गोद में तेरे पलने वाले ही अब छलने लगे हैं ।

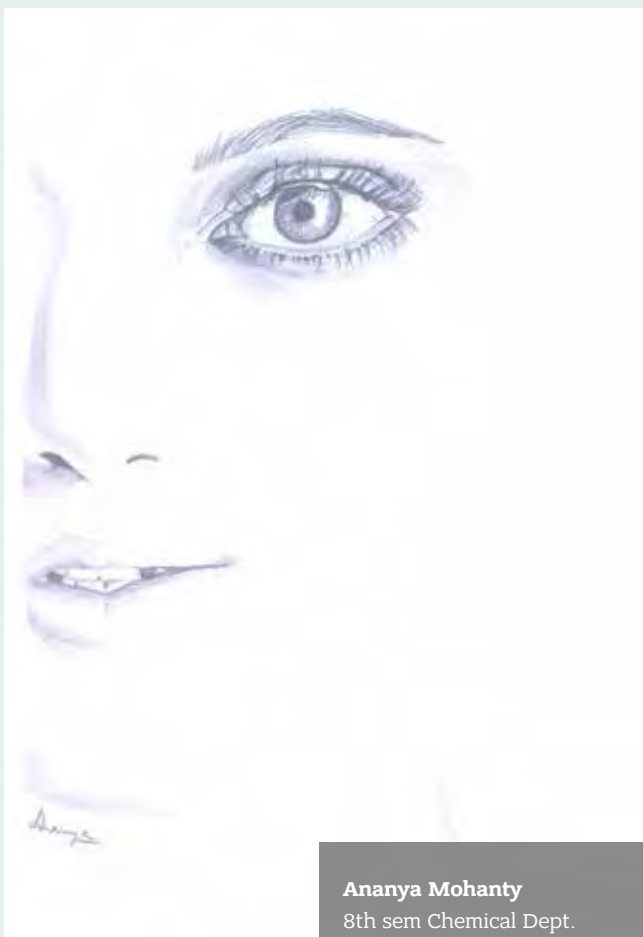
भून डालो हर उस भुजंग को देश के खिलाफ है ।
माँ भारती के अस्मिता के लिए ऐसे सौ -सौ खून भी माफ़ है ।
हिन्द देश में रहके पाकिस्तान ज़िंदाबाद कहने लगे हैं ।
गोद में तेरे पलने वाले ही अब छलने लगे हैं ।

वक्रत है ,अब बदलो रुख और दुश्मन का लवनाश करो ।
चुन -चुन कर चाटुकार और गद्दारों का पदाफाश करो ।
बहुत लकया बदाशत ,अब सीने में आग धधकने लगे हैं ।
गोद में तेरे पलने वाले ही अब छलने लगे हैं ।

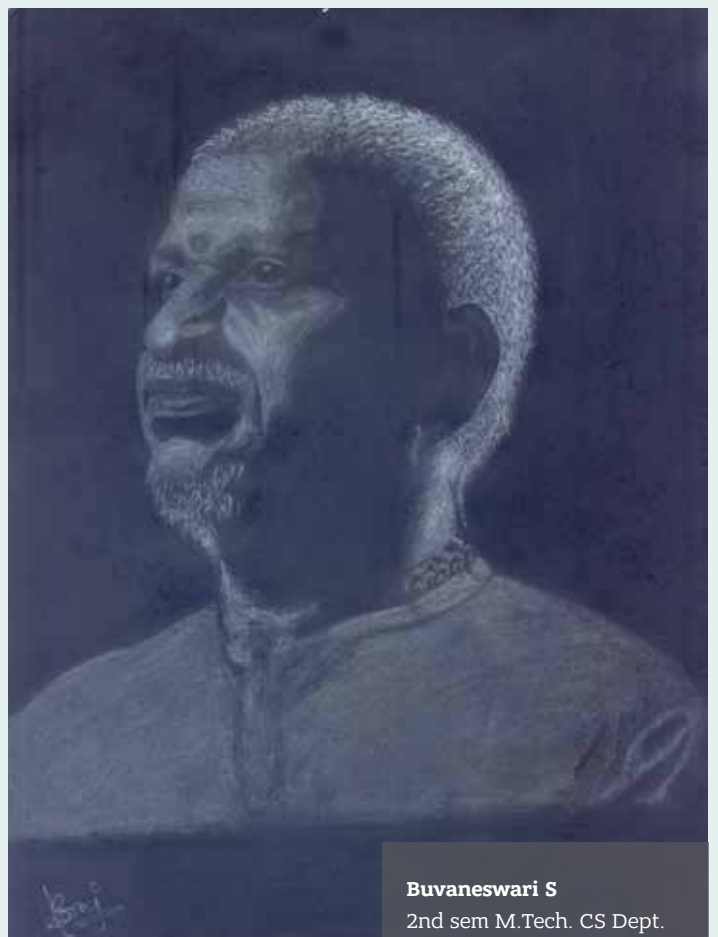
SKETCHES



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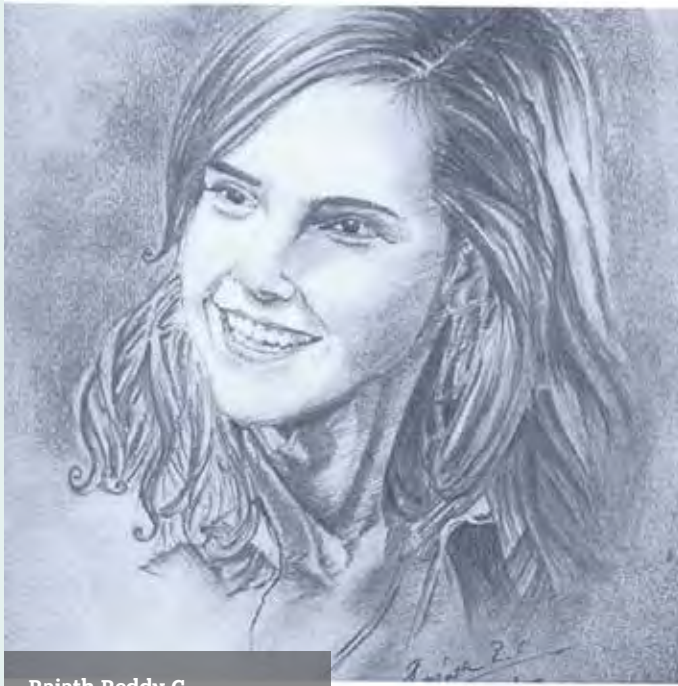
Shishir Mathew

2nd (M.Tech. CNE) CS Dept.

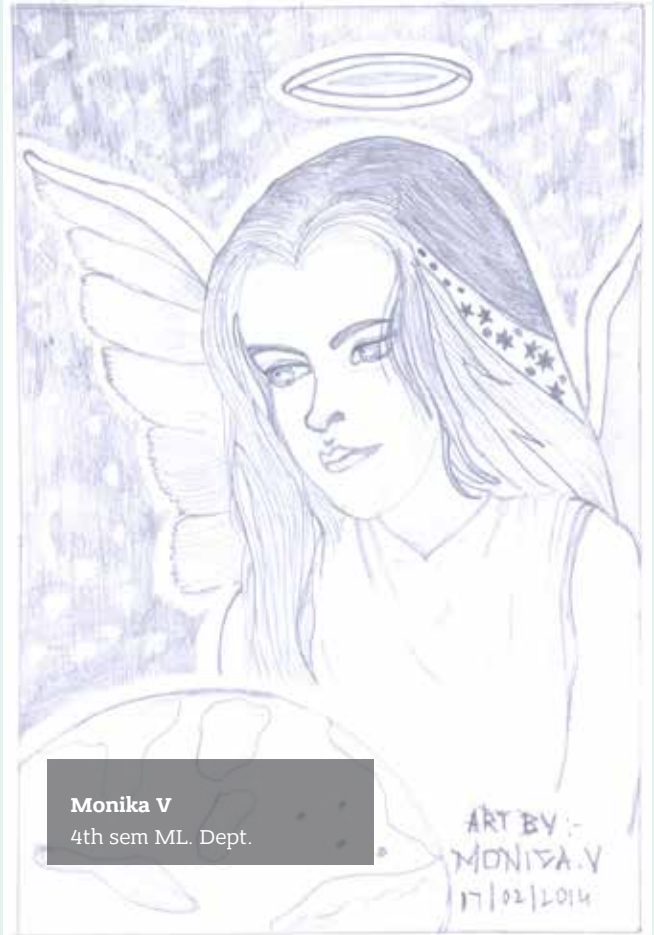
**Punitha P**

3rd sem E&C Dept.





Rajath Reddy C
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Monika V
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Sejal Sanjay Shanbhag
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S P Chandrika
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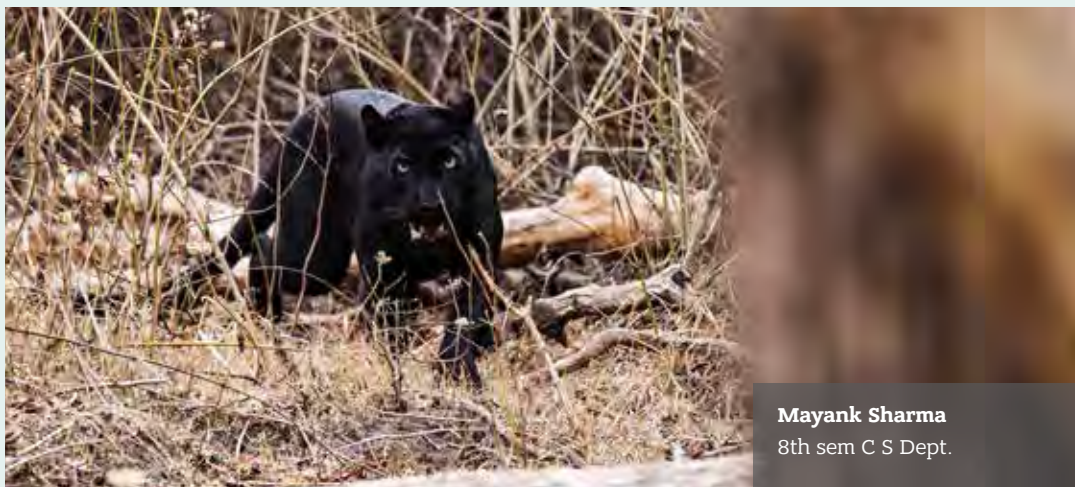
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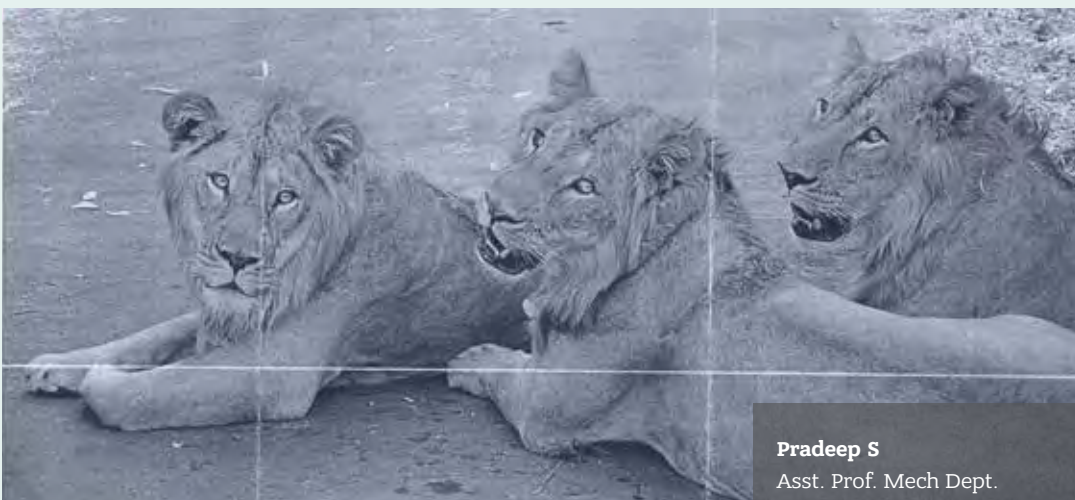
Mayank Sharma
8th sem C S Dept.



Sunayana R Shreedhar
6th 'T' sem Arch Dept.



Mayank Sharma
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Pradeep S
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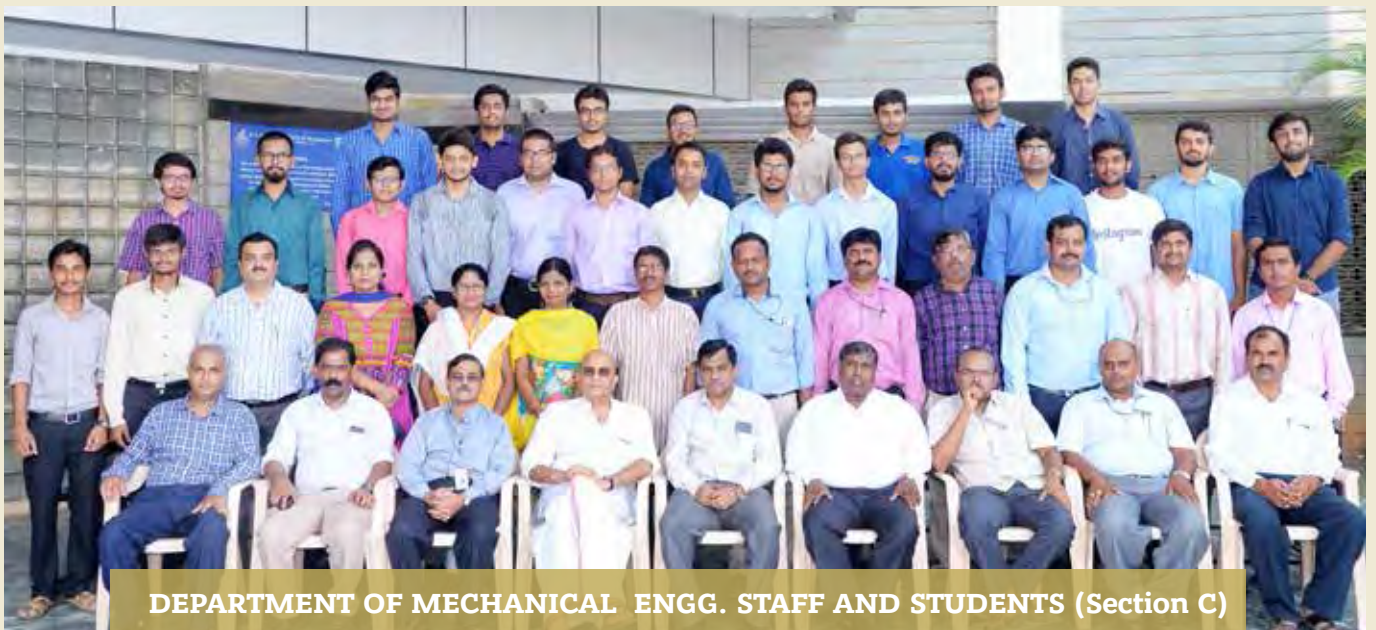
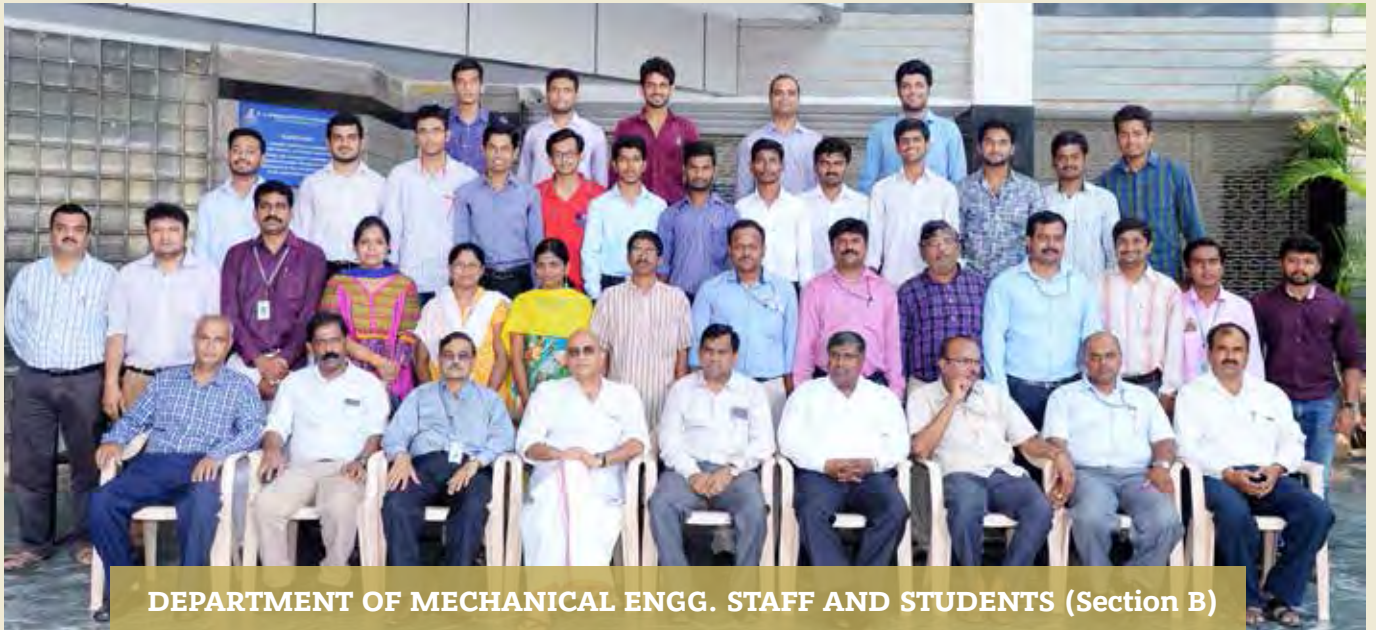
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VOLLEY BALL TEAM-WOMEN



BASKET BALL TEAM-WOMEN



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TENNIS TEAM



TABLE TENNIS TEAM



ATHLETIC TEAM



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Mathematics

MBA

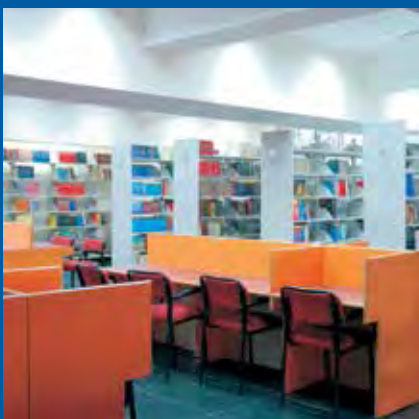
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