SANCHITA’18
an anthology of revelations

DEDICATION
LEADERSHIP
IMAGINATION
CREATIVITY
SINCERITY
HUMAN VALUES
HARD WORK
KNOWLEDGE
INNOVATION
SPORTSMANSHIP
DREAMS

AMRITA SCHOOL OF ENGINEERING
BENGALURU
Our Mission

To provide Value-based education and mould the character of younger generation through a synthesis of science and spirituality, so that their earnest endeavour to achieve progress and prosperity in life, is matched by an ardent desire to extend selfless service to the society, one complementing to the other.

Our Vision

We envision a world endowed with the wealth of knowledge and strength of discrimination.

We envision a system, which is healthy breeding ground for the sprouting, culturing and dissemination of the whole gamut of knowledge in a wholesome and holistic manner for the well-being of mankind.

We envision a human being empowered with wholesome knowledge, which makes one enabler and facilitator in the deep search and striving of every human being for that knowledge.

We envision a system wherein there is a great interplay and exchange of ideas, thoughts, feelings and actions, which develop empowered with noble character and wholesome values. They go out into the fields of action to build a world of love, harmony, peace and knowledge. The follow the path of ‘Dharma’ and give a clear direction in every thought and human endeavour.
"Don't be discouraged by your incapacity to dispel darkness from the world. Light your little candle and step forward."

"அங்கு நிற்பூடையில் பூர்வதூண்டாதே வேதாயிரத்து. மோகனழகை நிற்பூடையில் முழுப்பு சடங்கு வேதாயிரத்து. மோகனழகை வேதாயிரத்து தன்னுடைய குருக்களையும் நான் மன்னர் வேதாயிரத்து."

"தங்களில் விரலைப்படுத்துதலும் வருகையாய் அதை வெளியேற்று. சாந்துவாரிலும் வருகையாய் அதை வெளியேற்று. குருவில் விரலைப்படுத்துதலும் வருகையாய் அதை வெளியேற்று."

"ஆம்பியைச் சும்பக்கால் வளைய முழுக்காள் விளக்கியம். அவர் பூதாம்பியான வில்லவில் விளக்கியம். அவர் தம் அகழிகள் அப்புரிமுனியில் விளக்கியம் பத்மப்பியாள். அவர் மன்னர் வில்லவில் விளக்கியம் பத்மப்பியாள் விளக்கியம் வேதாயிரத்து மன்னர் வேதாயிரத்து அம்மக்கள்."

"ஏழுவோ அவன் விளக்கியம் சும்பக்கால் விளக்கியம், அவன் விளக்கியம், சும்பக்கால் விளக்கியம் வேதாயிரத்து வேதாயிரத்து அம்மக்கள் வல்லுவோ அம்மக்கள் வல்லு.
SANCHITA TEAM

FROM THE EDITORS' DESK

Any well-crafted florilegium always hides between its pages an amalgamation of memories, a balanced fusion of unearthed and experienced talent, and the culmination of the tireless efforts of its countless contributors.

The wonderful journey in the making of the ninth edition of Sanchita reminded us of the notable traits of different life stages. We perceived the plain-spoken nature of a child in the novel expressions of poetry, the escapades of youth in the scenic photographs, the perfection of an adult in technical explorations and the nostalgic memories of the winter of life in reminiscing the sprightly endeavours of yesteryear.

Sanchita'18 continued to receive an immeasurable amount of soulful and original content across various artistic platforms and reviewing the kaleidoscope of creative talents has indeed been an enjoyable learning experience. Undeterred by the challenges faced, the team has strived to ensure that Sanchita'18 is a delightful read, and will remain so for the years to come.

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Vice Chancellor’s message

Aum Amriteswaryai Namaha

Amrita Vishwa Vidyapeetham is a beautiful expression of our Chancellor and world renowned humanitarian leader AMMA’s infinite Compassion for enlightening the Humanity. Drawing its inspiration, guidance, nourishment, energy, and resource directly from AMMA, Amrita Vishwa Vidyapeetham has grown into a dynamic, 5-campus, multi-disciplinary University with over 15 schools, 207 academic programs (undergraduate, postgraduate, and doctoral), 2000 faculty, and 20000 students (www.amrita.edu), all united in their mission towards solving the monumental scientific and societal challenges being faced by the world today. AMRITA is both young and immensely dynamic, with a unique holistic approach to produce the best engineers, healthcare professionals, scientists, entrepreneurs, managers, and societal contributors in all of its disciplines.

In a short span of 14 years, Amrita Vishwa Vidyapeetham has been ranked Ninth (9th) best among all Universities in India in national ranking and also the No.1 private university in India in all recent international rankings like Times Higher Education (THE) and QS.

World wide recognition of the impact of our contributions culminated in a one-day conference at the United Nations in New York, where about 700 of our international partners gathered to hear AMMA’s distinguished invited keynote address on superb scientific research for societal benefit and sustainability.

AMMA says our sincere efforts bring Divine Grace and it is Grace that eventually transforms our efforts to fruitful outcomes. On the occasion of release of the college magazine “Sanchita” of our School of Engineering, Bengaluru Campus, I congratulate you all for having brought it out so nicely. May I offer my prayers at AMMA’s lotus feet to shower bountiful blessings on all of the students, staff, and faculty of the School of Engineering, Bengaluru Campus.

With very best wishes,
Dr. P. Venkat Rangan
Vice Chancellor
Director’s Message

Aum Amriteswaryai Namaha

Dear All,

In the University, as students we are trying to master a challenging course of study to enter a world as full-fledged members. The road to success is quite often bumpy and often one feels hurt inside. Either one has not got a grade he desired or one has narrowly missed his dream company or one has missed a university ... for a few marks in the next level of education. There are these challenges one needs to undergo in order to get the end result in the demanding world of outside. Challenges that can make us physically drained or emotionally exhausted. One way to overcome this challenges is to challenge them creatively.

Recently I came across an article, which was quite interesting. Japan has been known for its innovative ideas of solving things. Japanese people were quite fond of fresh fish rather than the fish, which is frozen. Today with larger boats, people go for deep-sea fishing and on some days they may or may nor find a catch, they may have to stay there for a couple of days in order to come back to the shores with sufficient quantity of fish. So the fish will be frozen in the boat’s freezers. In order to overcome this, the fish companies installed fish tanks, so that they can just dump them, fin to fin in the fish tanks. But even after adopting this method, the fishes lost their fresh fish taste due to the delay in reaching the shores and the people were still not happy.

But today, the Japanese are getting fresh tasty fishes. So how did they manage to keep the fishes afresh? What the Japanese companies did was, along with all the fishes in the fish tank they put one small shark. Now, the fishes were constantly challenged and were hence always on the move, inspite of the crowding of fishes in the fish tank. This challenges kept the fishes alive for a little time than they usually would have been, and the freshness in the fishes remained.

In the true sense, even as human beings, if we are without any challenges our lives also become too dull and inert. Its only when you take challenges head on and conquer them that you get the self-confidence and strength to win the game instead of wallowing in uncertainties and doubts. Struggle helps us to shape our lives and come out of the fiasco in which we are. Just like the tea kettle, it makes noise only when there is steaming hot water inside, we too should have fire in the belly, to face the trials and tribulations in our life and convert or change the circumstances in which we are in to something bright and optimistic.
Charles Darrow was one such person. The present generation may not have heard about him. Because you students have been born in a time when the Internet and the Internet games have already dawned. It was during the Great Depression of the last century, that Charles Darrow, who was jobless with no penny in his pocket and an expectant wife in the hospital, was completely broke. In order to keep his wife cheerful in the hospital he devised a game and made her play every day.

He laid out his own little boardwalk on a square piece of cardboard thinking of all the happy vacations they both had in the nearby Atlantic City. On his imagined properties, he put miniature houses and hotels that he carved out of small wood pieces. They both while playing the game pretended to be rich - hoping to see better days ahead. The game called "Monopoly" was thus created, which later was marketed by a company, making Charles Darrow a millionaire. It was the never give up attitude and forward looking mind set of Charles Darrow that made him overcome the calamitous situations that he was in.

As human beings, self-motivation is certainly commendable, all of us need verbal support to keep us going, and have surely received it at one time or another. Let us, in turn, lighten the hearts of those who are over burdened in life. They may not always emerge victorious, but, as someone once said, 'A word of encouragement during failure is worth an hour of praise after success.' When a train chugs up the hill, the engine moves up slowly, the carriages connected to the engine are all dependent on the engine to reach the top. All the carriages have 'hope and faith' in the engine, and they keep saying, "We know, you can. We know, you can". Its an uphill task for the engine but still it is stimulated and energized with all the prayers and the good wishes of the compartments attached to the engine and moves valiantly. Similarly, the support from our Parents, a word of encouragement from our teachers and well-wishers cheering us up saying, "you will, you can" helps to boost up, to reach the top. Over and above we are in a University where Amma is the Chancellor, who is publicly very much approachable. There is abundant grace flowing and we can prize it provided we unfurl our sails.

With all said and done, with all our efforts we play the game of life but life is void without reliance on the Supreme Power, without submitting to the Supreme Power. The Supreme power is just like the lifeline rope that is hooked on to the hill, as the mountaineer climbs, or it is like the plank that comes along the way when swimming across the river. The Supreme power is nothing but the saving grace that comes along the road of our life to hold us in times of calamity and maneuvers us to safety.
I too was reluctant to believe at your age and it was quite expected until I met Amma who changed the track of my life. She spared me from the scorching heat of Samsara only to embrace a bigger family of Amrita. And today I am nothing but what She has made me. This Supreme Power is like the Software in the computer, which is unseen like the Hardware. Based on the instructions programmed it just activates one after another the devices inside the computer. From the microcontrollers to the RAM to the CPU the flow is there but we are unable to see, still we do understand. We can see only the net result of the programming. Similarly we are all connected in this massive network of this infinite Universe. What connects each of us is this Supreme Power. The Consciousness that is there in this inert body is the same as the consciousness in the other living and non-living things of this magnum opus creation of the Lord. It is this software, which connects we Jeevas to the ever youthful, undying, unborn Paramatman.

Dear Students, each of us have a life outside the four walls. There are people who are suffering in pain and poverty. There are people who have hurts in life and are coping with. Let us pray to Amma so that our hearts reach out to them to soothe those aching hearts. Let us stimulate the Love that we have for each other, let us extend it to those who are deprived. Because, as I have earlier said, the consciousness is same in all of us. As Amma says, with the right hand we try to help our left hand, which is injured, because we see both the hands as a part of our self. Similarly all beings in this creation are a part and parcel of the Lord’s creation. A kind word, a smile can enliven ones heart in despair. Let us bow our heads and pray that Amma bless our hearts and minds so that we feel we have done well in Her eyes. We pray for the assurance that we are operating within Her will.

Om Namaha Shivaya

With heartfelt Prayers and Love for all.
Ammas Dhanraj,
Director,
ASE, Bengaluru.
Dear Readers,

I take pride in addressing the readers of ‘Sanchita 2018’, the 10th edition of our School Magazine. Like in the past, this year also we have received awe-inspiring response in terms of articles for the magazine. My heartfelt appreciation for the interest shown by the Magazine Team in bringing out captivating editions year-after-year. Congratulations to the entire Magazine Team for their persistent and prolific efforts.

Faculty & Students of our School are blessed that they belong to the family of Amrita Vishwa Vidyapeetham, a University ranked No.1 amongst Private Universities in India in THE Asia University Rankings 2018, ranked the 8th Best University in India by National Institutional Ranking Framework (NIRF) and ranked in the Top 500 in The World University Rankings 2018 for Clinical, Pre-Clinical and Health and also for International Outlook & Industry Income.

The Academic Year 2017-18 witnessed a series of events in terms of curricular, co-curricular and extra-curricular activities organized by various clubs under the auspices of the Cultural Ensemble ‘Amritadhar’ and the Departmental Forums. The performance of our students has been noteworthy in terms of academics, non-academics, research, organizing knowledge augmenting activities like Conferences, Workshops, Seminars, Invited Talks by experts etc. All the achievements & accomplishments of our students are dedicated to the unceasing support rendered by our erudite faculty members, without which none of these would have been possible.

Students brought-in credits to the School by securing 18 university ranks - 1 gold & 3 silver medals in the B.Tech. & M.Tech. categories, presenting & publishing papers in International Conferences & Journals, being selected into reputed international universities for higher education, getting nominated for student exchange programmes, being invited for project presentations and obtaining project funding from external agencies. The unyielding development in the thought process & thereby the progression of our students, under the direction & guidance of our learned teachers, has taken the standards of our students to astounding heights.
The students have also done exceedingly well in the placement drive with the highest salary package being offered at Rs.25.15 Lakhs.

We were privileged to have our beloved AMMA, Mata Amritanandamayi Devi in Bengaluru. As always, the students and staff members came together to make Amma’s visit an incredible event. The dedication and passion displayed by each one of them in taking part in the Seva activities is highly laudable.

The campus offers a very quiet & serene ambience, which makes it possible to impart holistic education to the students. The continual leadership & relentless support extended by the campus management along with the tireless hard work put-in by my teaching colleagues makes the School, the right place for study. I am sure the students who are at cross roads will move ahead with the rich values & traditions imbibed at their alma-mater.

I pray our beloved AMMA, Satguru Mata Amritanandamayi Devi to give our students the mettle, determination & might to meet all the challenges in their future endeavours.

Wishing the ‘Amrita Fraternity’ good luck for a great future.

Aum Namah Shivaya

Dr. Rakesh S.G.
Associate Dean
ASE, Bengaluru
Contents

Annual Report
page 15

Academic Excellence
page 35

Sanskriti
page 41

Prachodana
page 61

Literary Articles
page 85

Technical Articles
page 103

Regional Articles
page 113

Event Reports
page 123

Photo Gallery
page 133

Group Photos
page 140

Directories
page 179
A JOURNEY - A METAPHOR

You embark on a journey knowing the destination inclusive of tribulations and rewards en route, and chart out a plan accordingly. When destiny devices digressions from the plan, you adjust your sails and navigate in the directions of the wind. You realise as you sail, that the tides have been high and low; the sea and the weather, unpredictable; making the journey more challenging. The expedition keeps unfolding immeasurable joy and inexplicable pain as you are completely unaware of destiny’s disposition. At times, the turbulent waves rock your confidence to sail further and at times, the placid tides rock your mast gently to keep you afloat. The sea is sometimes fierce with thunderstorms, and the tilted sideways push you overboard, but sometimes calm and quiet, and the lucid sky above lulls you. The journey, invariably, becomes both dicey and appealing. The Sirens lured you, the lotus eaters’ land sedated you, Circe enslaved you for a while and the Cyclopes scared you to death. Caught in the storm and very rough waters, smiting the sounding furrows and visiting Hades momentarily become regular manoeuvre. Nonetheless, your ship is cruising safe because on the cruise to unknown destinations, you aren’t alone. Since the day you set foot to embark on this mysterious journey, there have been sailors of various stations and ages travelling along side. Some helped you on the poop to hold the mast against heavy storms, some helped you to anchor the ship on shores you needed to explore; the aged and experienced helped you with the compass, the abled ones bailed out the water from the vessel and the concerned ones lent their shoulders when you were sea sick and tired. Of course, you had a few who left you in lurch when the ship was sinking, few who moved ashore and onto another ship for better cargo, few who used you as a bait to catch a big fish and few who took away your life jackets letting you writhe on board in fear and agony. Nevertheless, you have been successfully navigating to reach newer lands because the ones who are guarding you are comparatively large in the barge to the few, who have made you weak and killed your confidence for wanton joy of theirs. With nothing to defeat the might of your journey, you continue to row rigorously and rhythmically to the tunes of the reassuring, ravishing seas. Half-way you pause the journey on the calm seas and gratefully thank both the ones who have helped you sail at ease and the few who have taught you the endurance to weather any storm. The cruise has crossed arches of achievements, disappointments, success and failures and has managed to stay afloat, and with age and experience you realize that though you cannot change the direction of the winds still you can adjust your sails and make your journey exciting. You are the captain of your ship, so continue ‘To strive, to seek, to find, and not to yield’.

Deepakumari S.  
Dept. of English
“As an Engineering School, we are 15 years old and 13 years under the patronage of the University - AMRITA VISHWA VIDYAPEETHAM, a university accredited by NAAC with 'A' Grade, categorized by MHRD in the top category and No. 1 Private University, working under the benevolent Guidance of our Chancellor and Universal Mother Satguru Mata Amritanandamayi Devi.

Our School has been soaring great heights. 12 batches of students have graduated so far and the 13th batch of students equipped with value-based education will be graduating in a few weeks from now.”
Basic Academic Programs
School of Engineering, Bengaluru offers 5 undergraduate programs leading to B.Tech. degree with a total intake of 540 students in the following disciplines:

Our Postgraduate Programs
The campus offers 6 postgraduate programs offered by 4 departments leading to M.Tech. degree with a total intake of 174 in the following specializations:

Ph.D. Programs
Ph.D. Programs are offered in Engineering, Sciences & Humanities an1 Philosophy

Current Student Strength
2735
End Semester Examination Results

Academic Year (2016-17) saw an astounding performance of the students in all the programs offered by the School. We have had 12 batches of students who have graduated thus far, and the 13th batch will be graduating in a few months from now. There were 18 ranks out of which 1 Gold Medal & 3 Silver Medals at the University Level in the B.Tech. and M.Tech. categories. These students were honored at the 14th Convocation of the University which was held in October 2017.

The performance of the students have been as depicted below:

B.Tech. Programme

M.Tech. Programme

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**ICTS Facilities**

- The internet bandwidth has gone up to 310 Mbps.
- There are about 800+ computers which have been allocated to various departments.
- The campus has connectivity to the National Knowledge Network under the National Mission for Education through ICT (NMEICT) of MHRD.

**Library**

The campus has a sprawling library of about 1213 sq.m. area with a seating capacity of 200 and 150 in the reading halls attached to it.

**Holdings in the Library**

**Total Number of Volumes and Titles**

- Volumes: 15622
- Titles: 13620

**Total No. of Print Journals**

- Indian Journals: 72
- International Journals: 2
- Technical Magazines: 18
- General Magazines: 52

**E-Resources**

- E-Journals: 4000+
- E-Books: 7000+
List of E-Journals

1. IEEE Xplore (IEEE/ IET Electronic Library-IET Online)
2. ACM Digital Library
3. ASME E-Journals Package
4. McGraw-Hill’s Access Engineering
5. ASTM Digital Library
6. J-Gate: Engineering & Technology
7. SPIE Digital Library
8. Science Direct (subscribed from University HQ)
9. Springer E-Journals & E-Books Package (subscribed from University HQ)
10. Scopus (subscribed from University HQ)

Inter-Library Loan Service

DELNET-New Delhi Membership
British Library Membership

Corporate & Industry Relations

Amrita Vishwa Vidyapeetham has always had a unique place in terms of placements.

2017 graduating batch has thus far seen about 100+ companies completing their recruitment process for the B.Tech. and M.Tech. students. Some of the companies are CISCO, EY, NationStar Mortgage, Micro Focus, Robert Bosch, Mu-Sigma, L&T, Cerner, ABCO, ChargeBee, Arista, TCS, Infosys, Cognizant, Thermo Fisher, GE, Brilio, Genpact, Intuit, Saint Gobain, Quess, Tech Mahindra, Elgi, Hyundai, Think & Learn, I-Exceed, Moonraft, Kirloskar, Huawei, Daikin, Knowledge Lens, Ericsson, iNurture, Sun Tec, FIITJEE, Manipal Global Education, GMMCO, Hewlett Packard, Sonata Software, Federal Bank, TCI Tech etc.

Around 70 students have done their internships (paid & unpaid) in companies like NationStar Mortgage, ChargeBee, Amazon, GE Digital, Honeywell, EY India, ABCO, Infosysm Intuit, Cerner, MicroFocysm Robert Bosch, Tita, Juniper Networks, CISCO, Symantec, Enarka Instruments, Control 4, Banavathy Power Systems, Aspire Systems, Think & Learn (P) Ltd., I-Exceed, ePoise Systems, Saint Gobain etc. Many students underwent inplant training during Summer & Winter vacations of 2016/17.

100+ Companies
Highest salary package

Ms. Lakshmi Pavani of B.Tech. CSE has been selected for Full Time Employment by 2 majors - INTUIT with an annual package of Rs.25.15 Lakhs and AMAZON with an annual package of Rs. 15.5 lakhs.

Placement Statistics

B.Tech. (91%) + M.Tech. (38%) → Total UG + PG (83%)

Sports Facilities

The campus has excellent outdoor and indoor sports facilities such as:

a) Indoor sports
- Shuttle Badminton court - 02
- Table Tennis - 08 Tables
- Carrom boards - 06; Chess boards - 08

b) Sports fields available for outdoor sports
- Cricket and Football ground - (100 X 75 Meters) - 01
- Volley ball court for Men - (18 X 9 Meters) - 01
- Volley ball court for Women - (18 X 9 Meters) - 01
- Basket ball court - (28 X 15 Meters) - 02
- Cricket nets (25 X 4 Meters) - 02
- Kabadi court - (20 X 15 meters) - 01
- Throw ball court - (18 X 10 Meters) - 01
- Athletic track (200 Meters) - 01
- Badminton Court: Boys Hostel - 5 and Girls Hostel - 2
c) Gymnasium:
Old Gym (Used by Campus Staff)
Dimension: 1020 sqf.

Facilities in the old Gym
- 8 station gym for lower extremities
- 6 station gym for upper extremities
- Weight training equipments (200 kg capacity)

Boys New Gymnasium: (Area: 3500 sqf.) Set-up in 2010
- 12 Station Multi Station gym
- Weight Lifting Sets
- Barbells, weights, Dumbbells (200kgs)
- 8 Independent station exercise counter
- Cardio: Treadmills-5 nos, Elliptical Cross- Trainer -2 Nos, Bike – 6 nos

Girls New Gymnasium: (Area: 1200 sqf.) Set-up in 2011
- 8 Station Multi Station gym
- Dumbbells (50kg)
- Cardio: Treadmills - 2 nos, Elliptical Cross- Trainer -2 Nos, Bike – 4 nos

Medical Facilities
- 2 Doctors & 3 Nurses are available in the campus round the clock
- An ambulance in case of any emergencies
- A small clinical set up with 6 beds, wheel chair, stretchers and emergency aids

Other Facilities
Other facilities available in the campus are:
- Dining halls in the boys’ hostel
- Dining hall in the girls’ hostel
- 1 cafeteria which functions from 8.00 AM to 8.00 PM
- A full fledged & well stocked general stores
- Dhanlaxmi Bank Branch with ATM facility
- Excellent transportation facilities for students & staff members

Research Labs

Robotics Research Labs
Amrita Robotics Research Laboratory (ARRL) was established in the year 2013 in the Department of Computer Science and Engineering with internal funding. The lab focuses on research and development in the field of robotics and its applications for societal benefits. Some of the work being carried out in this lab are Emotion Recognition and synthesis for Human-Robot interaction, Humanoid Robot walking on difficult terrains, rescue robotics and service robotics. The lab also interacts with industry for providing assistance in service and agri-robotics.
Computer Architecture & High Performance Computing Lab (CAcHe)

CAcHe Lab at the Department of Computer Science and Engineering is a DST funded and Indo-Sweden collaborative project in Hybrid computing, Computer Architecture and High Performance computing in Bio-informatics. Projects like Design of Cache memory techniques for heterogeneous multi-core processor systems that includes cache coherence, cache partitioning schemes and low power cache designs and enabling hybrid computing for CPU/FPGA are being carried out.

Also some of the other projects which are being carried out are exploring massively parallel architectures using GPGPU for various applications, creating synergy among diverse devices in Heterogeneous computing system, Life science applications using HPC: Protein-protein interactions are being analysed for identifying therapeutic targets. Databases of available 3D-structures of protein complexes are analyzed using Visual Molecular Dynamics and Tcl Scripting. Schrödinger Maestro is used for preparation of complexes. Gromacs-5.1.2 is used for Molecular Dynamic (MD) simulations of large biomolecules to be analysed.

Communication Research Lab

Communication Research Lab at the Department of Electronics and Communication Engineering has received Indo-Sweden project grant for ‘Bone Mineral Density Analysis System’. The collaborative project aims to design and develop low cost, portable and low power orthopaedic health care system using RF communication technology.

Various aspects of 5G wireless/cellular technology, both narrow band Internet of Things (NB IoT) and millimeter wave (mmWave) based are being investigated. Project on mmWave Tx/Rx CMOS implementation and development, MIMO (Massive MIMO) channel modelling, MAC layer development, MUD being researched. In addition, the lab is also supporting implementation and design of LiFi (Visible light communication) with around 25 nodes. Energy efficient visible light communication design and implementation is being carried out.

RF & Wireless Systems Lab

This lab was set up in 2017 with the support of the Management of Amrita Vishwa Vidyapeetham Bengaluru Campus and the co-sponsorship of Department of Science and Technology, Government of India by the Department of ECE, under the guidance of Dr. Dhanesh G. Kurup.

Photonics Research Lab

The Photonics Research Laboratory at the Dept. of Electronics & Communication Engg., houses the numerical modelling facilities for modern and futuristic optical/photonic devices. Run by experienced faculty having worked in experimental and theoretical photonics, the current interest lies in harnessing of light to use for developing futuristic devices and to explore the theoretical principles behind the same.

Shock Wave and Hypersonic Research Lab

Shockwaves are essentially non-linear waves propagating at supersonic speeds. Such disturbances occur in steady transonic or supersonic flows, during explosions, earthquakes. Research in hypersonic regime has gained greater thrust due to the developments happening in the technology of re-entry vehicles, orbital transfer vehicles, and reusable launch vehicles.
The laboratory has facilities to study hypersonic flow over bodies (missiles, re-entry vehicles, hypersonic planes), industrial applications of shock waves (metal forming, material synthesis etc), and bio-medical applications of shock waves (needless drug delivery). The laboratory is established at the Department of Mechanical Engineering.

**Power System Research Lab**

This lab was set up to carry out a funded project titled "Development of a three phase hybrid filtering system with digital control" funded by DST- SERC. Later the lab is converted as a research lab for the department to carry out research activities in Power Quality, Renewable Systems and Power System domain as well as M.Tech. projects. Also the lab has a hybrid wind and solar system set up.

**Faculty & Staff**

We have about 160 faculty members and a matching number of non-teaching staff. In addition to these, we also have staff required for security, transport, maintenance etc.

The Faculty - Student Ratio currently is about

1:16

which is in line with the AICTE & UGC norms.

About 33% of our faculty are with doctoral degrees in different disciplines from institutes of repute and rest are with PG degrees.

The university has been encouraging and partially supporting its faculty for higher studies. While many faculty members are pursuing Ph.D. as part-time scholars in the University itself, some of them have taken career break / sabbatical leave to pursue higher studies in institutes of repute like IITs, NITs etc., and few of them have joined back the institution after completion of their studies.

**Ph.D. Awarded**

BY AMRITA VISHWA VIDYAPEETHAM

- Dr. M. Supriya, Department of CSE
- Dr. P. Suja, Department of CSE
Research Papers

Publications: Year 2017

Journal Papers

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Submitted</th>
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<tr>
<td>ECE</td>
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<td>ME</td>
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<tr>
<td>Chemistry</td>
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TOTAL
Submitted - 134
Accepted - 65
Under Review - 69

Conference Papers

<table>
<thead>
<tr>
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<tr>
<td>Physics</td>
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</tbody>
</table>

TOTAL
Submitted - 412
Accepted - 274
Under Review - 138

Research Project Funding

Faculty members along with research scholars have submitted various project proposals to funding agencies such as DST, VGST, MNRE, AICTE, NBHM, TDIL, ISRO, ACIP & quintiles, the outcome of some of them are still awaited.

The current Academic Year had 16 project proposals submitted by faculty members to various funding agencies to the tune of Rs.115 Lakhs. The details of the 2017 sanctioned projects are as follows:

- "Just-in-Time Customization Research Platform for accelerating Algorithms to Systems" - Dr. Madhura P.
  - INSPIRE
  - Rs.15.85 Lakhs
  - March 2017

- "ECHO: Error Correcting Codes in High Performance Communication Systems through joint exploration of inference Algorithms and Parallel Architectures" - Dr. Madhura P.
  - DST-International Brain
  - Rs.10.64 Lakhs
  - December 2017
Apart from these, there has been intense research being carried out by faculty members which have been supported by the Management of Amrita Vishwa Vidyapeetham through Seed Funding.

**Conferences/Workshops/FDPs Organised**

While many conferences/seminars/workshops/FDPs were organized during the report period, the most prestigious events conducted are detailed below:

- **2-week ISTE Short Term Training Program on "Electric Power System"**. The event was coordinated by Dr. K. Deepa, Asst. Prof., EEE Department, Amrita School of Engineering, Bengaluru. The workshop was an initiative by IIT Kharagpur under National Mission on Education through ICT supported by MHRD for the faculty members of various engineering institutes via distant education mode under Train Ten Thousand Teachers (T10KT) project using 353 established remote centres across India.

- **3-Day International Conference on "Ubiquitous Communications and Network Computing (UBICNET)"** organized jointly by the Departments of ECE and CSE during August 3rd-5th, 2017. The conference witnessed delegates from different parts of the country.

- **2nd edition of the 3-day International Conference on "Advances in Materials and Manufacturing Applications – IConAMMA"** in association with IOP Conference Series: Materials Science and Engineering and Elsevier's: Materials Today Proceedings organized by the Department of Mechanical Engineering during August 17th to 19th 2017 chaired by Dr. Veeresh Kumar G.B. and Co-chaired by Mr. R. Pramod.

- A one day seminar on cutting edge Satellite Technologies was organized by IEEE-RAS Chapter & ACROM, co-hosted by ISSE/LPSC(B) in the School on 28th October 2017.
Amrita Darshanam, International Centre for Spiritual Studies, organized one-day workshop on ‘Philosophy of Language: Reading of the Brahmakanda of Bhartṛhari’s Vākyapadīya,’ on 16th November 2017 at Amrita Vishwa Vidyapeetham, Bengaluru Campus. The workshop was attended by 35 research scholars and academicians from across the country - Amritsar, New Delhi, Mumbai, Hyderabad and Mysore.

National Seminar on Temples: Symbolism, Art and Architecture – January 2018, Bengaluru Amrita Darshanam – International Centre for Spiritual Studies, Bengaluru in collaboration with the South Zone Cultural Centre, Thanjavur organised a 3-day National seminar on Temples: Symbolism, Art and Architecture. The seminar was held on 5th, 6th and 7th January 2018 in the campus. The seminar aimed at bringing reputed scholars together and creating a platform for academic discussions related to the different aspects of Indian temples.


Conferences/Workshops/FDPs
Attended

Following are major FDPs/Conferences/Seminars/Workshops/Talks attended by the faculty members:
• Two Week ISTE STTP Workshop on “Electric Power System”
• "Flying Cars – Challenges and Propulsion Strategies" by Prof. Kaushik Rajashekar, a DLP talk from IEEE PELS Bengaluru Chapter
• "Indian Women in Mathematics"
• Enhancing Professional Communication Skills*
• FDP on “Software Engineering” by TCS
• Distinguished Lecture Program on “High Frequency Soft Switching PWM and Resonant DC-DC converter topologies for Solar/Fuel Cell Applications” by Dr. Aksha Y K. Rathore.
• Distinguished Lecture Program on "Control of Power Electronics Systems using Predictive Switching Sequences and Switching Transitions", by Prof. Sudip Majumder, Professor in Dept of Electrical and Computer Engineering at University of Illinois, Chicago(UIC)
• Distinguished Lecture Program on "Performance of transformers connected to wind energy plants under high-frequency fast transient voltages", by Dr. Shesha H. Jayaram, Professor in Dept. of Electrical and computer Engineering at University of Waterloo, Canada
• IEEE PELS Distinguished Lecture Programme on "Distributed Clean Energy Infrastructure" by Prof. Krishna Shenai
• 2018 Biennial International Conference on Power and Energy Systems: Towards Sustainable Energy (PESTSE)
• International Conference on “Advances in Materials and Manufacturing Applications – IConAMMA”
• International Conference on “Ubiquitous Communications and Network Computing (UBICNET)"
• IEEE Biennial International Conference on "Power and Energy Systems: Towards Sustainable Energy (PESTSE – 2018)"
Invited Talks

- Talk on 'Can Solar, Electric Vehicles and Battery Disrupt the Energy Industry?' by Dr. Kailash Srivatsava was arranged on 15th July 2017.

- Talk on 'Satellite Linked Affordable Tablet for Education - SLATE' on the 27th of July 2017 in Amrita School of Engineering, Bengaluru. The Guest Speaker was Dr. V. Prithviraj, Principal of Rajalakshmi Institute of Technology, Chennai. Around 40 students from M.Tech. and B.Tech. attended the event.

- IEEE Power Electronics Society (PELS) and IEEE Power and Energy Society & IAS Student Branch chapters organized a talk on "Industrial Exposure to Electrical Engineers" by Dr. B. Hariram Satheesh on 29th July 2017.

- ACE, Amrita Center for Entrepreneurship invited Ms. Pavitra Sanath Kumar, an architect and a successful entrepreneur on 6th September 2017, to interact with the students and share her experiences.

- Dr. Christian Doerr from Cyber security group at TU Delft, Netherlands visited our campus on 26th October 2017 to explore the possibility of collaboration with Amrita University. He shared with the faculty of CSE, the focus areas of the cyber security team at TU Delft which included Security and Privacy by Design, Network Security, Secure Hardware, Cyber Physical Systems etc. He also showcased some of the recent projects along with the hardware and software facility available at TU Delft. Few of our faculty expressed their interest to work on a joint proposal.

- A talk on 'A Scalable Architecture for Dataflow Execution Model' was conducted on 27th October 2017. The invited guest was Mr. Madhava Krishna from Morphing Machines (incubated at IISc.). He is a recipient of the Prime Minister's Fellowship for Doctoral Research (2013-2017).

- JIDO, the Industrial Automation club, hosted a talk on "Vehicle Dynamics" on 11th January. The talk was delivered by Mr. Arun M. S., TriBlade Technologies, Bengaluru. He is a veteran in the field of Automotive Technology with over 4 years of experience in the industry.

- ACM-W Student Chapter hosted a Distinguished Speaker Programme on Banking, Fintechs and staying relevant in the age of Artificial Intelligence, and the speakers were Ms. Akshata N. and Ms. Kritika S. of ANZ Bengaluru.

- The Amrita CSI (Computer Society of India) chapter held a Distinguished Speaker Program on 14th September 2017. The talk was on "Internet of Things". The speaker of the day was Mr. Koundinya, Software Senior Principal Engineer and Ms. Jayalakshmi DELL-EMC, Bengaluru.

- The IEEE IAS & PES Joint Student Branch Chapters of Amrita School of Engineering, Bengaluru, under the able guidance of Dr. K. Deepa along with all the coordinators conducted a special talk on the topic "Wireless Power Transmission (WPT)" on 7th October 2017. The technology for WPT is in the forefront of electronic development. The guest speaker was Mr. Adnan Bohori, Research Professional at General Electric India Technology Centre.

- JIDO, the Industrial Automation Club, hosted a talk on "Additive Manufacturing in 3D Printing Technologies" on 27th October, 2017 at Amrita School of Engineering, Bengaluru. The participants of the event were 60 S6-ME students. The talk was delivered by Mr. Bharath G., Application Specialist, Stratasys India Pvt. Ltd., Bengaluru.
• Ingenium conducted a workshop on “Kinematics of Industrial Robots” on 14th October 2017 for which 54 students had registered. The workshop had an invited lecture by Prof. Subir Kumar Saha, Head of the Mechanical Engineering Department, IIT Delhi on the topic “Robotics Activities at IIT Delhi” in which he showcased various robots and their activities at IIT Delhi. He also motivated the students present, to take up research. He also explained about RoboAnalyzer software in brief.

• The Amrita CSI (Computer Society of India) chapter held a Distinguished Speaker Program on 4th November 2017. The talk was on “Data Science”. The speaker of the day was Mr. Nagaraj Harikar, Sr. Software Engineer II Citrix R&D India Pvt. Ltd. Bengaluru.

• The IEEE Power Electronics Society Student branch chapter of ASE, Bengaluru organised a Distinguished Lecture on 16th January 2017 on the topic “Distributed Clean Energy Infrastructure” by Prof. Krishna Shenai.

• Amrita Centre for Entrepreneurship (ACE) hosted ‘Royal Talks’, the first event of E-Week, on 25th October 2017 at Amrita School of Engineering, Bengaluru. Guest speakers from ‘Royal Brothers’, a bike rental company, were invited to inspire the budding entrepreneurs.

• The Department of EEE organized a Distinguished Lecture Program on 16th December 2017 under the IEEE-PES & IAS Jt student branch chapter. The speaker was Dr. Akshay K. Rathore, Associate Professor in the Department of Electrical and Computer Engineering, Concordia University, Montreal, Canada

**Awards & Recognitions**

**Book Chapter Published**

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<th>NAME</th>
<th>TITLE</th>
<th>MONTH &amp; YEAR</th>
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<tr>
<td>Ajitesh Bhadra, Shubha Kanaujiya</td>
<td>Source Based Issues</td>
<td>December 2017</td>
<td>Prekshak Publishers</td>
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• Dr. Debjyoti Sahu’s research work on Nanoparticles effect on Biodigestion, has been quoted in an article titled, “Three ways Nanomaterials could help combat climate change and prevent pollution” in an environmental magazine named ‘Ensia’ on 19th August 2017.

• Memorandum of Understanding was signed between Narayana Nethralaya and Amrita School of Engineering, Bengaluru for facilitating collaborative research in Innovative Bio-Medical Engineering in September 2017. This was done under the auspices of the faculty from the Department of CSE.

• Mr. Vinod Kotebavi was honored with “Dr. S. Radhakrishnan Memorial Award 2017” by International Human Rights Council (HRC). The award distribution ceremony was held on 03rd September 2017 at Adya Kantiveer Vasudev Balwant Phadke Natyagruha (Auditorium), Panvel, Navi Mumbai.
• Dr. Mude Kishore Naik's interview on 'Study Opportunities in Italy' was telecast in Counselling for Higher Education, YouTube Education Channel.

• Mr. Arjun Bharadwaj's paper titled "Dr. Padma Subrahmanyam's Contributions to Indian values and National Integration in the Context of the Dravidian Movement, with special reference to the Nātyaśāstra" received a special recognition in the form of a cash award of Rs. 20,000 at the Swadeshi Indology Conference held on 23rd December 2017 at IIT Madras, Chennai. The paper counters the western indologists who propose the Aryan-Dravidian theory. The paper provides evidence from the Nātyaśāstra and the scholarly work of Dr. Padma Subrahmanyam to show that Tamil Nadu has been an integral part of India from times immemorial.

• Amrita CSI Student Branch, Dept of CSE mentored by Dr. N. Rakesh received the prestigious "Best Accredited Student Branch Award" for second consecutive period at the CSI Annual Convention 2018 held in Kolkata.

• Dr. N. S. Murty participated as a panelist in the panel discussion in the Design and Verification Conference, DVCon, held on 14th September 2017 at Leela Palace, Bengaluru. The topic for discussion was "ESL in Modern Architecture and Design Flows: Where Should be the Focus (and What to De-Focus)?".

• Dr. Navin Kumar;
  o Delivered an invited talk titled, "mmwave Channel Model and Uniform Coverage Area without Beam Steering", at IEEE International 5G Summit and 29th Series Meeting of GISFI held at SOA University, Bhubaneshwar, Odisha
  o Was invited from India, to attend and represent the IEEE Asia pacific Regional Chapter Chair Meeting at DLOBECOM Conference in Singapore
  o Organized and conducted 2nd International Workshop at Bhubaneshwar Odisha in association with IEEE ANTS 2017. He also organized International Workshop on 5G & Future Wireless Technologies (5G-FWT 2017) in association with IEEE ANTS 2017 from 17th to 20th December at CV Raman College of Engineering Bhubaneshwar, Odisha. He also delivered a key note in this workshop on "Overview of 5G and Future Wireless Technology (2020-2050)"
  o Was invited as one of the panelists to represent academia on a panel discussion on "5G Technology" challenges and opportunities in India organized by NXP India on 17th January 2018
  o Participated in standardization meeting of PLC Test Bed Development Research in India working group organized at Velankani Tech Park, Electronic City on 24th January 2018

• Dr. Arpita Thakre:
  o Delivered an invited talk on “5G Challenges & opportunities” at Radiophysics & Electronics, calcutta University on 21st September 2017
  o Delivered an invited talk titled, “Spatial Modulation - an Overview” at IEEE ANTS 2017 from 17th to 20th December 2017 at CV Raman College of Engineering Bhubaneshwar, Odisha
  o Organized a workshop on 5G in conjunction with IEEE ANTS 2017 titled, “WITCO” on 19th December 2017 consisting of 5 papers, 1 panel discussion and 6 talks at CV Raman College of Engineering Bhubaneshwar, Odisha
  o Chaired a panel discussion titled, “Different Use Cases for 5G in India & necessary steps in development”, at IEEE ANTS 2017 from 17th to 20th December 2017 at CV Raman College of Engineering Bhubaneshwar, Odisha
  o Was a speaker in the panel discussion at IEEE ANTS 2017 on the topic “Smart City – How Smart our Smart City Plan in comparison with the western scenario?”, from 17th to 20th December 2017 at CV Raman College of Engineering Bhubaneshwar, Odisha
• Mr. Rajeelochana G. Chittawadigi:
  o Delivered an e-lecture and conduct hands-on session on “Robot kinematics using RoboAnalyzer” for the participants of School on Robotics, organized by the Department of Mechanical Engineering, VNIT Nagpur on 9th October 2017
  o Delivered a lecture on “Robot Kinematics using RoboAnalyzer” at Bengaluru Technological Institute, Bengaluru, supported by Institute of Engineers, on 27th October 2017
  o Was invited to present his research work on Robot Kinematics at ABB Ability Innovation Center, Bangalore on 2nd November 2017. Followed by it were presentations by students of S7-ME (A); Mr. Arun K. Mr. Abhijit Nair, Mr. Amogh Patwardhan and Mr. Aditya Prakash
  o Was invited to attend 11th International collaboration Symposium on Information, Production and Systems (ISIPS 2017) at Graduate School of Information, Production and Systems, Waseda University, Kitakyushu Campus, Fukuoka, Japan on 14th -16th November 2017. His paper/presentation on “Virtual Experimentation of Trajectory Planning of Serial Robots using RoboAnalyzer” was awarded Excellent Paper Award in ISIPS 2017
  o Was invited to give a lecture on “Robot Kinematics and Path Planning” and conduct a hands-on session on RoboAnalyzer in the “AICTE-QIP sponsored one-week Short Term Course (STC) on Vision Based Robot Navigation and Manipulation” at Thiagarajar College of Engineering, Madurai, on 25th January 2018

• Four projects titled, “Automated Trimming and Water Sprinkling Machine”, “Pneumatic Delivery System”, “Design and Development of Areca Press and Areca Sheath” and “Drilling induced Delamination Characterization & Mathematical Modeling of Nano particles reinforced Polymer Matrix Composites” under the guidance of Mr. Prashanth B. N. & Mr. Pramod R. were exhibited at International Machine Tool Exhibition (IMTEX) 2018 held at Bengaluru International Exhibition Centre (BIEC), Bengaluru from 25th to 30th January 2018. IMTEX 2018 is South & South-East Asia’s apex exhibition showcasing the very latest trends in metal forming, machine tools as well as technological refinements from India & other global players

Student Achievements

• Mounika A., M.Tech (S3-PE) and Chair of IEEE PES & IAS Jt Student Branch Chapter of Amrita School of Engineering, was sponsored by IEEE PES Bengaluru chapter to attend the IEEE International Conference on Smart Grid’s, Power and Advanced Control Engineering [ICSPACE-2017] from 17th -19th August 2017 at Global Academy of Technology, Bengaluru, Karnataka, India.

• Vibha Pant (M.Tech.-ES) has published a paper in NGCAS conference as an outcome of the research work carried out in the University of Trento, Italy (Erasmus Mundus) under the guidance of Professor Roberto. She has been awarded the Bronze Leaf Award by the committee.

• Karthik R.’s final year B.Tech. project titled “Design & Development of Automated WPC Return system” which he had carried out at Robert Bosch Automotive India (RBAI) under the guidance of Mr. Prashanth B. N., has been awarded as the“BEST OF BEST” for the year 2017 in Bosch Production System (BPS) Awards.

• Mr. Rejath R., of final year B.Tech.-ME won in the General quiz Category at the South Zone AIU Fest held at Hindustan University, Chennai, December 2017. Rejath was a part of the three member Quiz team that represented Amrita Vishwa Vidyapeetham in the National Level All India University Youth Festival held at Ranchi in February 2018.

• Amrita CSI student Branch mentored by Dr. N. Rakesh, Assistant Professor, received the prestigious “Best Accredited Student Branch Award” for the second consecutive year at the CSI Annual Convention 2018 held in Kolkata, India.
* The team 'VEGAM' from the School designed and built a GOKART and participated in fifth GKDC GOKART competition held at Kari Motor Speedway (F3 race track) Coimbatore. They cleared preliminary rounds like technical inspection, Turning radius test, assembling and disassembling of the cart, Brake test and on the final day they participated in Endurance test, known as the Final race. The team consisted 25 student members from third and second year Mechanical Engineering and it was led by the team captain Mr. Sai Krishna. The team was mentored by Mr. Vinod Kotebavi, faculty from the Department of ME.

* "Team Ameya" consisting of 5 participants represented Department of Mechanical Engineering, Amrita School of Engineering, Bengaluru in the SAEINDIA BAJA Race. Baja is an international race organised by SAEINDIA and Mahindra & Mahindra in India. Baja completed its Decade Edition Race in February 2017 race where 'Team Ameya' from the campus bagged 2nd Prize in the 'Cost Report' and an overall rank of 77.

* IEEE-PES (Power and energy society) & IEEE –IAS (Industry Applications Society) Joint Student Branch Chapter of the School under the mentorship of Dr. K. Deepa of EEE Department has been awarded as the Best Student Branch Chapter by the IEEE PES Bangalore chapter for the calendar year 2017.

* IEEE-PES (Power and energy society) & IEEE –IAS (Industry Applications Society) Joint Student Branch Chapter of Amrita School of Engineering, Bengaluru under the mentorship of Dr. K. Deepa of EEE Department has been ranked 1st in Asia pacific, 1st in India and 6th in the world ranking of "High Performing Student Branch Chapter (HPSBC) 2016" for the calendar year 2016. The chapter is awarded $401 as award fund from IEEE Headquarters.

* Mr. Akshay Sishena Manjeri from the Department of CSE participated in the Developer Student Club Summit, organized by Google Student Developer in Goa which was held in February 2018

* The following 2 teams from the School consisting of 3 members each participated in the ICPC Regionals:

  **Team1:** Akhil Katam; Ashwin Preeth; Manmohan Singh- took part in the competition held at Chatrapathi Shivaji Maharaj University, Kanpur in December 2017

  **Team2:** P Vivek Reddy; Rishikeswar; Ramyalakshmi S. - took part in the competition held at Amrita School of Engineering, Etimadai, Coimbatore in December 2017

* Highlight of our students in sports performances:

South Zone Inter University Cricket Tournament 2017-18, which was held in first week of Jan 2018 at Andhra University, Visakhapatnam. Amrita University finished as being declared the top 17th Team among 120 South Zone Universities. Out of 16 players in University Cricket Team, 9 players are from Bengaluru campus.

Chethana, the Sports Club of the School had a very successful semester with the club's representatives excelling across various events held through the semester.

The school's cricket and handball teams emerged champions in the Inter-Amrita tournament held in Bengaluru, while the Badminton and Athletics team finished second in the competition held at Coimbatore and the Volleyball team was declared runners-up in Mysore.

In the individual section, Mr. Naveen Kumar broke the record in 100m event in addition to which Mr. R. K Ashwin set the best time in the 1500m and 800m events.
The Yoga team represented the campus at the Dr. Rajkumar National Level Open Yoga championship and bagged the silver and bronze medal across various individual events.

Outstanding performance in Power-lifting competition, State Level Sub Junior and Junior, Men Bench press competition held on at KGS Club, Cubbon park, Bengaluru on 9th and 10th February 2018 organized by Bangalore District Power-lifting Association. Boys won 4 gold and 4 bronze medals. The recipients of Gold Medals are - Mr. R. Aditya (ME), Mr. Satyasunesh (CSE), Mr. Gnaneshwar (ECE), Mr. Ganesh Sandeep (CSE) and Bronze medals were bagged by - Mr. Rajasekhar (ECE), Mr. Venkatesh (ME), Mr. Jaswanth (CSE), Mr. Lalith Kumar (CSE).

Overall, the school's conglomeration of talents in sports witnessed a total of 32 students representing the university in various sports.

Amritadhara

‘Amritadhara’, the Cultural & Technical ensemble of the School has 16 Cultural Clubs and 21 Technical Clubs under its umbrella.

These clubs have been very active as always and this year too they conducted many top-class events in the Co-Curricular and Extra-Curricular fields. Detailed reports of the activities of each of these clubs are given in the respective sections.

Other Events / Celebrations

- Inauguration & Orientation Programme for the I Year B.Tech. students was held on 12th July 2017. Poojya Swami Amrtagetananda Puri presided over the programme. The Chief Guest of the day was Dr. R.S. Deshpande, Advisor and Director, Centre for Development Studies, PES University, Bengaluru.

- 4-day Book Exhibition by the Department of Library from 11th to 14th July 2017. Most of the reputed Publishers and Vendors participated in the event.

- Inauguration & Orientation Programme for the I M.Tech. students was conducted on 19th July, 2017. The Orientation Programme was graced by the Campus Director Br. Dhanraj Swami and Associate Dean & Head Dr. Rakesh S.G. Also present for the occasion were Heads of various departments, Senior Professors and faculty members.

- 4th Annual Alumni Meet was organized on 5th August, 2017. The Programme was graced by the Campus Director Br. Dhanraj Swamy, Associate Dean & Head, Dr. Rakesh S.G. and Chair of the Alumni Association, Bengaluru Chapter Dr. Supriya M., Assistant Professor, Dept. of CSE. The meet witnessed the presence of around 60 Alumni. The programme gathered the Chairmen and Heads of various Departments, faculty and staff members.

- MADnite, an evening dedicated to the performing arts on the 9th of August 2017 under the tagline “Ek shaam, talent ke naam”.

- The School witnessed Kalakriti’17, the annual talent hunt for freshmen on 11th of August 2017. The inaugural ceremony commenced with the lighting of lamp by the Associate Dean in-charge
Dr. Nagaraja S.R., Chairman, Dept. of ME, Dr. S. Ravishankar, Chairman, Amritadhara, Ms. G. S. Jyotsna, Co-Chair, Sanskriti, and Ms. Shali S., Co-Chair, Prachodhana.

- Sri Krishna Janmashtami was celebrated in the campus on 14th August 2017.

- 71st Independence Day was celebrated on the 15th of August 2017.

- A team of four serving Naval officers (consisting of three gentlemen and one lady officer from Southern Naval Command visited Amrita Bangalore on 21st August 17 to give an overview of “What is Inside Navy ?”.


- IAM is a simple combination of yoga, pranayama and meditation. It is a meditation technique for the present generation. The technique is a synthesis of traditional, time-tested methods suited for the current mental conditions, time constraints and needs of modern man. IAM Techniques sessions for the first year B.Tech. students started on 28th August 2017.

- The School hosted its Graduation Day Ceremony on the 2nd of September 2017. The Ceremony began with the Academic Procession consisting of high level delegates that headed towards the Graduation Ceremony Hall amidst band and the recital of ‘Vande Veda Maataram...Vande Deha Maataram...’ along the aisle of the hall. The ceremony was presided over by Sampujiya Swami Purnamritananda Puri, General Secretary, Mata Amritanandamayi Math. The Chief Guest on the occasion was Sri. Ravishankar Mysore, Vice President Engineering, Global Engineering Center-India, UTC Aserospace Sytems.

- The School celebrated Teacher’s day on 16th September 2017.

- A cultural program to commemorate the 64th birthday of our beloved AMMA, Mata Amritanandamayi Devi was held on 27th September 2017 in the School. The event was organized by Prerana, the Social Outreach club in collaboration with the Department of Cultural Education.

- The School commemorated Dussehra with devotion. An idol of Goddess Durga, exclusively made for the occasion, adorned the ‘E’ Block reception area. Various poojas and bhajans marked the ten day festivities that began with a Ganapati Homa.

- The School hosted the representatives of Microsoft in the month of September 2017, who addressed the M.Tech. students (1st & 2nd years) and the final year B.Tech. (CSE, ECE & EEE) students on Microsoft’s Research Fellow Programme. The main goal of the programme was to provide insights into career preparation for research, entrepreneurship and software development.

- ‘Aarohan’ is an initiative of the School to foster a bond between an institution of higher education and schools. The 9th edition of this Annual Science Fest held on the 12th and 13th of October 2017 received an awe-inspiring response.

- The School hosted the 62nd Kannada Rajyotsava Celebrations on 1st November 2017. The celebrations commenced with the flag hoisting by Dr. Nagaraja S.R., Chairman, Dept. of ME, ASE-B.

- Dhanlaxmi Bank, the official bank of Amrita Vishwa Vidyapeetham celebrated its 91st Anniversary this year. To commemorate this occasion, the branch based in our School campus organized a function to honor their patrons on Tuesday, the 28th November 2017.
• The School celebrated Pongal with a lot of zeal and fanfare. The first day of Pongal, Bhogi, was celebrated with the ceremonial lighting of bonfire in hostel grounds. The festivities continued throughout the day with the bonfire being fed with the old and unused possessions.

• The School hosted its first TEDx event, TEDx AmritaU Bengaluru under the title 'What it looks like, but what it really is' on the 21st of January 2018. The event had 10 renowned speakers sharing their experiences which went in parallel with the topic of the day.

• The School celebrated the 69th Republic Day on 26th January 2018 with pomp and grandeur.

• With the support of the Management of Amrita Vishwa Vidyapeetham Bengaluru Campus and the co-sponsorship of Department of Science and Technology, Government of India, the Department of ECE, under the guidance of Dr. Dhanesh G. Kurup set up a 'RF and Wireless Systems Lab', which was inaugurated on 10th January 2018. Dr. V. K. Lakshmeesha from ISRO Satellite Centre Bengaluru (retired), who was responsible for several indigenous Satellite Systems and recipient of many national awards for his various noteworthy contributions in Space Technology was the special invitee during the inauguration ceremony.
ACADEMIC EXCELLENCE
B.Tech. I Year

Sunku Mounika  
BL.EN.U4CSE16127  
CGPA: 9.78

Maddula N V Sesha Sai Teja  
BL.EN.U4CSE16062  
CGPA: 9.72

Pasumarty Pratyusha  
BL.EN.U4ECE16135  
CGPA: 9.64

Srinidhi Bulusu  
BL.EN.U4ECE16177  
CGPA: 9.57

R Sripradha  
BL.EN.U4EEE16061  
CGPA: 9.52

P Greeshma Shivani  
BL.EN.U4EEE16049  
CGPA: 9.32

Nadakuditi Sai Vineela  
BL.EN.U4EIE16028  
CGPA: 9.17

Sri Sashank Undavalli  
BL.EN.U4EIE16046  
CGPA: 9.12

Sai Krishna Sunkara  
BL.EN.U4MEE16090  
CGPA: 9.25

Dannana Dimple  
BL.EN.U4MEE16027  
CGPA: 9.05

M Sudharshan Srinivas  
BL.EN.U4MEE16059  
CGPA: 9.05
B.Tech. II Year

Ashwin Preeth K
BL.EN.U4CSE15012
CGPA: 9.71

P Sowmyasri
BL.EN.U4CSE15053
CGPA: 9.71

Chandu Gayathri Venu Madhuri
BL.EN.U4CSE15023
CGPA: 9.64

Bhaskaruni Akhila Manogna
BL.EN.U4ECE15022
CGPA: 9.50

M Niveathitha
BL.EN.U4ECE15085
CGPA: 9.37

Nimmagadda Srikanth
BL.EN.U4ECE15107
CGPA: 9.37

Ambarish Parthasarathy
BL.EN.U4EEE15004
CGPA: 8.95

G Sai Sweta
BL.EN.U4EEE15013
CGPA: 8.68

G Shrinidhi
BL.EN.U4EIE15021
CGPA: 9.40

Chitra Prasad
BL.EN.U4EIE15016
CGPA: 8.86

Gokul Gopinath
BL.EN.U4MEE15028
CGPA: 9.52

D Lalith Kumar
BL.EN.U4MEE15022
CGPA: 9.41
B.Tech. III Year

M Lakshmi Pavani
BL.EN.U4CSE14061
CGPA: 9.98

M S Shwetha Koushik
BL.EN.U4CSE14062
CGPA: 9.91

Roshan S Sharma
BL.EN.U4ECE14139
CGPA: 9.90

Dasari Vishal
BL.EN.U4ECE14033
CGPA: 9.87

K Vishwa Priyanka
BL.EN.U4EEE14021
CGPA: 9.81

P M P Raghava Santhan
BL.EN.U4EEE14029
CGPA: 8.96

Amal Shekhar S
BL.EN.U4EIE14005
CGPA: 9.28

Bala Abhirami M
BL.EN.U4EIE14011
CGPA: 8.79

Sachin Pullil
BL.EN.U4MEE14080
CGPA: 9.92

Hemanth Venkatesan
BL.EN.U4MEE14039
CGPA: 9.89
M.Tech. I Year

K Shantanu Vishwasrao
BL.EN.P2CSE16010
CGPA: 9.41

Saleena P
BL.EN.P2CSE16023
CGPA: 9.35

Nair Shruthi Nandakumar
BL.EN.P2CSP16014
CGPA: 9.36

N S Srimadhur
BL.EN.P2CSP16012
CGPA: 9.04

Binsy M S
BL.EN.P2EBS16005
CGPA: 9.39

Manikandan RM
BL.EN.P2EBS16013
CGPA: 9.36

Pranav B Sreedhar
BL.EN.P2EBS16017
CGPA: 9.36

Perka Ajay Kumar
BL.EN.P2PWE16009
CGPA: 8.91

Vempalli Sai Krishna
BL.EN.P2PWE16016
CGPA: 8.56

Kolasani Sahithi
BL.EN.P2VLD16010
CGPA: 9.83

Mohammad Khalida
BL.EN.P2VLD16011
CGPA: 9.14

Shrirang Mohan Gombi
BL.EN.P2TSE16009
CGPA: 9.01
M.Tech. I Year

Adus Pranita Popatrao
BL.EN.P2TSE16001
CGPA: 8.55

Akshay N
BL.EN.P2TSE16002
CGPA: 8.55
Abhinaya, the drama club, strives to inculcate the passion of acting in students through skits, plays and other forms of theatre.

‘Introduction to Abhinaya’ saw the club outline its agenda for the year and put up an enthralling skit. Comical fillers were performed during ECIF’s introductory event, ‘Beyond the Blackboard’.

During Madnite’17, Abhinaya’s executive members came together to put up scintillating performances that served as a prelude to the exciting events planned for Kalakriti’17. ‘Dramebaaz’, ‘Stage Play’ and ‘Act on Cam’, a collaboration with EPIC, received an overwhelming response from freshmen.

On the occasion of Independence Day, the club put up a mesmerizing stage play titled ‘Bus Number’ which focussed on the cultural conflicts that arouse as an aftermath of the partition. The enactment of the heart-wrenching tale received a standing ovation from the audience. Another major highlight was the club’s first-place finish in the AIU (Amrita Intra University) selections which rewarded the club with an opportunity to participate in the 2017-18 South Zone regional competition.

For Republic Day, the club mentored freshmen to put up ‘Nukkad Naatak’, a street play that sensationaly emoted the seriousness of various national issues. The club had a remarkable wrap to another eventful year with a spectacular musical drama and an extraordinary mime show, during Amma’s visit to Bengaluru.

The club will continue to impart qualities like confidence and eloquence in the students and encourage aspiring actors and actresses through a plethora of fascinating events.
Armed with the principles of hard work and competitive spirit, Chethana, the sports club, works diligently to nurture the sport-enthusiasts in the campus. The club represented the institution in various sport events held throughout the country and has won many accolades at several sports meets.

For Kalakriti’17, Chethana hosted ‘Crazy Cricket’, a four-over game of cricket, ‘Tiki Taka’, a football tournament, ‘Treasure Hunt’, as well as basketball and volleyball competitions. Teams representing the campus delivered extraordinary performances in various athletic competitions of sports fests hosted by institutions like Christ and PES. The sports teams representing the campus in the Inter-Amrita sports tournaments performed exceptionally well. The school bagged silver medals in sports like badminton (men and women), table tennis (men), athletics and cross-country (women). Over 43 students qualified to represent the University for South Zone and National level competitions. The club also helped organize the sports meet where the athletes competed with great vigour. The inter-campus handball and cricket tournaments saw the teams representing Bengaluru campus bag the title.

Encouraging the spirit of sportsmanship and unity, Chethana has played an integral role in refining the physical abilities of the students.
EPIC (Educating People in Cinema), the Movie Club, is committed to guiding students in film-making.

EPIC kick-started its tenure by hosting a workshop on film-making titled, ‘The First Look’, which encompassed fields such as Directing, Editing, Cinematography, Lighting, Acting and Screenplay. The workshop provided insights into the world of film-making and inspired students to make their own short films. For Kalakriti’17, the club organized ‘Act on Cam’, ‘30 Second Movie Making’ and ‘Ad-making’ that provided first years an opportunity to exhibit their talents.

Throughout the year, the club screened various movies that spanned across genres like mystery and patriotism. The club also devoted time and efforts to prepare and edit the final videos of various events like Kalakriti’17, Aarohan ‘17 and flash mobs.

The members of the club actively participated in various events happening outside the college, bringing home deeper understandings of the nuances of the art.

The club added another feather to its cap with a new event, 'Rolling Frames', a short film making competition. The club hosted a dubsmash competition which received immense appreciation from the students. A workshop 'Final Shot' was organized to discuss the finer points of movie making.

EPIC will continue to help students attain proficiency in the art of movie making.
Kala, the fine arts club, provides a platform for passionate artists to showcase their talent. The club strives to promote various forms of hand crafts and works actively to prepare thematic props that adorn the campus during every event.

The year commenced with ‘Introduction to Kala’, an attempt to familiarize freshmen with the club’s ideas and interests. Kala played a pivotal role in beautifying the campus during MADnite, Kalakriti’17, Aarohan’17 and Prabidhi’18. The models on display included iconic symbols of pop culture like ‘The Iron Throne’, ‘The Night Fury’ and models of characters from the movie ‘Transformers’.

‘3D Modelling’ was a workshop that elucidated the process of creating life-size models and the utility of supplies specific to the craft. Kala also collaborated with Prakriti to host ‘Wildlife Painting’, a wildlife themed sketching competition which was savoured by art and nature enthusiasts.

‘Kala week’, the club’s flagship event, comprised of events like ‘Painting Workshop’ and ‘Human body sketching’ which gave the participants an insight into the various fields of art.

The Kala team represented the campus in various intercollegiate events. At the AIU selections held in Kochi, the team secured third place in the cartooning contest.

Kala will continue to support and encourage passionate artists who wish to acquaint themselves with the intricacies of art.
Lekhani, the press club, reports all the happenings in the campus. The club aides in the publication of Sanchita, the annual school magazine and Kriti, the monthly e-newsletter.

For Kalakriti, the events hosted include ‘Taboo’, ‘Unscripted’ and ‘Tell a tale’, a story narrating event jointly hosted by Lekhani and Maardhani. ‘Nurture Natue’, an exposition on Biodiversity and eco-friendly technologies was conducted on Independence day. The club strived to further the art of creative writing by organizing events like ‘Sell a Tale’, ‘True Ending’ and ‘Mech-Charades’, a collaboration with Ingenium. Letter writing sessions for the freshmen were conducted under the banner of ‘Write Right’, and a Crossword competition was held as a part of teachers’ day celebrations. ‘Poetry slam’, hosted in association with Maardhani, provided a platform for aspiring poets to showcase their talent.

AHAN (Amrita here and now), the schools official blog at www.asebmag.wordpress.com, crossed 35,000 hits during the academic year. ‘Polls’ were set up to seek the students’ opinion on the events to be hosted. Lekhani collaborated with EPIC to procure audio-visual feedback during Aaroohan’17 and Kalakriti’17.

Lekhani, Maardhani, The Quiz Club and The Humour club organized Lit- Week’17, which comprised of events like ‘Spell Bee’, ‘Turncoat Debate’ and ‘Plot Twist’. The club also encourages its members to participate in fests organized by reputed institutes in and around Bengaluru.
Maardhani, the literary club, is an active congregation of opinionated speakers that strives to build a strong network of passionate communicators in the campus.

The club's activities for the year commenced with 'Introduction to Maardhani', which received an enthusiastic response from the students. During Kalakriti’17, the clubhosted ‘War of Words’, a customary debate, ‘Tell-a-tale’, a storytelling contest in collaboration with Lekhani and ‘ICON’, the flagship event of the fest.

Events like ‘GreenScreen’ and ‘Aircrash’ challenged participants’ wit and persuasiveness. The club also joined hands with Lekhani to host ‘Poetry Slam’ that unearthed numerous homegrown bards. The club collaborated with Prakriti to organize a wild-life themed extempore titled ‘Pick and Speak’, during the Eco-week. The club collaborated with Lekhani, The Quiz club and The Humour club to host Lit-Week’17 which included events like ‘Turncoat debate’ and ‘Know your leader’, a mock election to test the spontaneity of freshmen. ‘Mechadotechnia’, a marketing event presented in partnership with Ingenium, brought out the creativity in participants. A public speaking workshop and ‘JAM’ were also held to hone the oratory skills of the students. The club was a constant in encouraging talented orators to participate in various literary fests held across the city.

The club endeavors to polish the communication skills of the students and will continue to do so in the days to come.
Narthana, The Dance Club, has always managed to keep the college on feet and in rhythm. Be it impressing the huge fan following with a matchless display of versatility or raising the bar with every choreographed act, the club has been remarkably promising in upping its game.

The club kept the crowd moving to the beats through a series of flash mobs that were held as a prelude to its eventful year. For Kalakriti’17, Narthana hosted ‘Solo Dance’, ‘Duo Dance’ and ‘Group Dance’. The contests offered a pronounced platform for first year talents. The college dance team represented the campus in various fests like ‘Autumn Muse’, hosted by St. John’s Medical College.

Interlacing the magic of ankle bells and the fairy-tale of foot taps, the team retained its unfailing charm with enthralling performances during Independence Day, Alumni Meet, MADnite, Krishna Janmashmati Celebrations, Kannada Rajyotsava Celebrations, Aarohan’17 and Amma's birthday celebrations in Amritapuri. Narthana’s flagship event, ‘Interdepartment Dance Competition’, witnessed every department battle for the title with their mind blowing performances, and had a large enthusiastic turn-out cheering their favourite departments. To celebrate the beauty of traditions, the club organized ‘Nrityanjali’, a classical dance competition that exhibited the pride of the timeless art. The club gloriously held the third edition of its hugely popular ‘Spotlight’, a hunt for the best dancer in the campus.

With a spectacular legacy and an eventful present, Narthana looks forward to a promising future that would bring everyone together through the language of dance.
Prakriti, the Eco-club, is dedicated to the cause of environment protection and strives to nurture the love for nature among students through various activities. The club enjoys substantial following among the students and has always managed to make an impact in its own ways.

During Kalakriti’17, the club conducted two events, ‘Beckon the Nature’ and ‘Art from Waste’. Prakriti hosted ‘The Amala Bharatam Cleaning Campaign’, an in-campus cleaning program, on the Independence Day. ‘Vrindavan’, a weekly organic farming event, witnessed immense participation from students. The club arranged for a weekly paper-bag preparation drive and organized a hands-on workshop in clay idol making. The club commemorated ‘Prakriti Week’, wherein a plethora of events like ‘Pick and Speak’, an extempore in collaboration with Maardhani, the literary club, and a wildlife themed sketching contest, held in co-ordination with Kala, the fine arts club, were steered. The club also demonstrated the growing importance of recycling plastic through an interactive DIY session. Prakriti also hosted its flagship event ‘Eco Week’, a series of fun events and activities to generate awareness about environment protection.

The club looks forward to contributing to the conservation of nature and imbibing the importance of sustainable development in all.
Prerana, the social outreach club, aims to promote humanitarian values by hosting events which reach out to the socially underprivileged and needy.

For Kalakriti'17, the club hosted fun events like ‘Balloon Pyramid’ and ‘Blind fold’ which attracted an enthusiastic crowd. ‘Shiksha’ and ‘Vidhyaan’ aim to educate impoverished children present in and around the school. As a part of ‘Seva Darshan’, the students were taken on monthly visits to Kidwai Memorial Institute of Oncology, where they spent time with the patients to give them happiness and hope. ‘Vijayaraksha’, an initiative to raise public awareness of the plight of the women in our society garnered great appreciation.

The club also conducted ‘Tactile diagrams’, an initiative to help visually impaired students, and a blood donation camp, in association with the Rashtrothana Blood Bank, to foster the spirit of selfless service. ‘Swadeshi Bhojan’, had delicacies from all over India being served and savoured.

Prerana firmly believes that humanity is the cornerstone of our society and it strives hard to work for the upliftment of society as a whole.
The Quiz Club strives to promote the famous sport of quizzing and inculcate a sense of knowing in the inquisitive minds of the college.

The club kick started its string of events with its flagship event for Kalakriti’17 – ‘InQUIZitive’, a general quiz and ‘Phantasia’, a fantasy quiz. This was followed by a series of selection quizzes for AIU (Amrita Intra University), and ‘The Sweden India Nobel Memorial Quiz’. ‘Tech-ken’ and ‘Tech-ken 2.0’ were the events conducted as part of Aarohan’17.

The Quiz club organized ‘Lit Week’ in collaboration with Lekhani, Maardhani and The Humour club. Under this banner, the club hosted ‘Lit Quiz’ to gauge the participants’ knowledge of literature.

The ‘Quiz league’ comprised of events based on the themes of Movies, Television shows, Sports, Science and Technology, Indian history and culture, Automobiles and Cuisines. All the sessions witnessed enthusiastic participation with each of them posing a challenge to the students’ wit. The diversified themes of the event garnered great appreciation and invoked a thirst for knowledge.

The Quiz Club will continue to foster the spirit of quizzing and motivate the students to keep up with the latest happenings.
Raaga, The Music Club, is more than a band of music lovers; it is a close knit society that strives to foster interests and nurture promising musicians in the best ways possible. The magic of creative melodies and dedicated artists seem to work the wonder as the club enjoys a great popularity among the students.

The year began with the customary club introduction to freshmen. The club hosted ‘Instrumental Solo’, ‘Solo Singing-Western’ and ‘Solo Singing-Classical’ during Kalakriti’17. Throughout the year, Raaga consistently enthralled its audiences with zealous performances on MADnite, Independence Day, Alumni Meet and Aarohan’17.

The college band brought accolades to the club by securing first place in Western Music during Amrita Intra University (AIU) selections that were held at Amrita Kochi Campus. ‘More Than Strings’, witnessed the coming together of inspiring talents who captivated hearts and created many cherishable moments.

The club hosted ‘Raagasudha’, a classical music contest, which witnessed several melodious renditions. ‘Voice of Amrita’, Raaga’s flagship event, received an overwhelming response and spotlighted numerous capable musicians.

With an eye on the stars and feet on the ground, Raaga aims to carry on the legacy and continue its wholehearted efforts to unite people using the power of music.
Smriti, the Photography Club, plays a vital role in every event, by freezing the best of the moments into cherishable memories. The club conducts various events to hone students’ photography skills by introducing them to new techniques and equipment.

The club organised two events for Kalakriti ‘17, ‘Spot It’ and ‘Third Eye’, which encouraged aspiring photographers to capture the essence of the occasion. A session on basic photography for beginners and an advanced workshop on Photoshop and Lightroom were steered to educate participants about digital and graphic designing.

A photo walk was organized to demonstrate the subtleties involved in nature photography. Additionally, the club hosted a monthly contest known as ‘Photo of the Month’ to encourage students to click travel-themed pictures. ‘Foto Fiesta’, Smriti’s flagship event, was a series of workshops and talks which detailed the students about the intricacies of photography and photo editing.

Smriti will continue to provide a platform for enthusiastic students to pursue photography as both a passion and a profession.
The Society for the Promotion of Indian Classical Music and Culture Amongst Youth (SPICMACAY) is a non-political nationwide voluntary movement that organises programmes of classical music and dance, folk arts, crafts etc. to create awareness about Indian culture and world heritage.

During Kalakriti’17, the club hosted a string of events like ‘Go Tattoo’, ‘Dumb Charades’ and ‘Dhoti Prathiyyogita’, all which enthused a sizeable crowd. For Janmashtami, the club organized exciting traditional entertainers such as ‘Tug-of-War’ and ‘Pot Breaking Competition’. The club brought laurels to the school by securing the title in the Inter Amrita Rangoli Competition held at Amrita University, Kochi. ‘Story Behind Pictures’, organized in collaboration with IEEE- WIE, brought out the novelty in the participants. The club also arranged Makar Sankranti and Ugadi celebrations in the campus with great zeal.

SPICMACAY would continue to make education more holistic and meaningful by serving as a support for young aspirants in the field of arts to accomplish their dreams.
The humour club hosts events to train the students in different forms of humorous expression such as stand-up, improvisational and observational comedy.

The event ‘Introduction to Humour club’, comprised of an amusing skit and MADnite’17 saw the club perform ‘Mad-ads’, an ad parody event. During Kalakriti’17 the club hosted events like ‘Jester of the Campus’, ‘Whose line is it anyway’ and ‘Dubsmash’ to pick out the most funny and spontaneous freshers.

A show called ‘Multilingual Stand-up’ was hosted for students to showcase their stand-up comedy skills in the language of their choice. The club collaborated with Maardhani, Lekhani and The Quiz Club to organise ‘Lit Week’, which comprised of events like ‘Plot Twist’ and ‘Know your leader’. Members of the club also participated in open-mic events in and around the city to hone their skills.

The club constantly strives to bring out the humour in the students and encourages them to excel in the field of comedy.
The Squad, the adventure enthusiasts club, aims to induce the spirit of adventure, and develop qualities of discipline, determination and team spirit in young citizens. The club provides students with opportunities to participate in adventure activities that include trekking, regular workouts and mountaineering. The club strives to create a pool of trained, disciplined, and motivated youth, equipped with leadership qualities.

The Squad had its introductory session in the month of July, wherein the students were familiarized with the club’s functioning. The club organized a Parade for the Independence day celebrations with great fervour. The parade team consisted of the parade commander, Mr. Shashi Kumar, Asst. Professor, Dept. of Mechanical Engineering, a troop of 22 boys lead by Mr. Sriraj Vuppala, 18 girls lead by Mr. Sri Harsha Merugu, 4 pilots led by Mr. Praveen and a contingent of 25 securities.

During Kalakriti, the club hosted two fun filled events, ‘Run Raja Run’ and ‘Time Run’ which gauged the fitness of the participants. The club also hosted a Republic Day parade which added great charm to the celebrations. The event saw the troops march to the beat of drums with impeccable coordination. The club also organized a trek to Savandurga, a trek station located 60km from Bengaluru.

The club will continue to design events to inculcate the spirit of patriotism in the young minds.
Vedanta, The Spiritual Club, aims to nurture spiritual values in the students by engaging them in multifarious activities that celebrate the virtues and variety of our culture and tradition.

The event ‘Introduction to Vedanta’, received a heartening response, and was followed by two first-of-a-kind promising initiatives namely ‘Rasaananda’, the flute classes and ‘KushalamVaa?’, the Sanskrit classes. For Kalakriti, Vedanta organised two crowd pullers ‘Kalpana’, a trio of challenges based on Indian epics, and ‘You’, a fun game that encouraged self-discovery. Vedanta provided 92 volunteers for Amritavarsham’64, Sadguru Mata Amritanandamayi Devi’s 64th birthday celebrations. Vedanta has always been proactive inorganizing campus celebrations during various festivals like Sri Krishna Janmashtami, Ayudhpooya, Batukamma, Shivarathri, Bhogi and Ramnavami. The club brought together an arrangement of decorative dolls called GOLU during Navrathi to initiate the practice of the famous ritual in the campus. On the occasion of Vivekananda Jayanti, the club hosted ‘Manifest the Vivekananda in You’, a talk by Mr. Hari Ravikumar, a renowned musician and poet.

The club promises to continue its best efforts to celebrate culture and spirit with open hearts and broad minds.
Toastmasters International is a non-profit educational organization that teaches public speaking and leadership skills through a worldwide network of clubs and is the parent organization to the school’s Toastmasters Amrita Bangalore (TAB) club.

TAB was chartered in April ‘17, by the efforts of TM Sanjay, TM Sriram and TM Sahana, under the guidance of Mrs. Smita Sail of the English Department.

The first ex-com of TAB consisted of Sooraj S. (SAA), Rejath R. (Treasurer), Sahana A. (Secretary), Saradhi S. (VP – Membership), Sudheesh Reddy (VP – Public Relations), Sriram Ganesh (VP – Education) and the President, Sanjay R. These seven worked hard behind the scenes and made sure that the club had a great start and a dazzling reputation, the proof seen by the praise showered in the club during meets with other Toastmasters.

The club’s installation ceremony was presided by the Area Director TM Pritoj that was followed by an amazing educational session by TM Aurobindo on the ‘Anatomy of a Humorous Speech’. FORTE, a training camp for judges was held at NetApp, Bengaluru, where the club bagged the Best Club Officers Award and also clinched the medal for Best Practice – Division I at the iNSPIRE Bootcamp for their remarkable presentation on the ‘Then came FORTE’, the judges training camp which was held in NetApp, Bengaluru on the 20th of August.

In October, club-level contests were conducted under the banners of ‘Glitterati’, ‘Humorous Speech’ and ‘Evaluation’. TAB represented the whole of Area I5 at the Division-level and won laurels in ‘Glitterati’ (First place) and in ‘Evaluation contest’ (Third place). At the District-level competition ‘Jamboree’. TAB also won several awards at the Jamboree meet such as the ‘Fast Five Award’, and the ‘Membership Retention Excellence Ribbon’. On the 19th of February, TAB hosted an educational session by TM Aalap Mehta on the importance of public speaking.
Aavishkara, the forum of Science and Humanities, strives to develop a strong sense of scientific curiosity and innovation in students.

For Aarohan’17, Aavishkara conducted two events, ‘Aashubhashan’ in collaboration with Amrita Networking Club (ANC) and ‘Out of the Box’ in association with Vidyuth. The events, which were received very well, tested the participants’ understanding of latest developments in the field of Science and Technology. ‘Project Exhibition’, the flagship event of Aarohan’17, saw the students present projects and working models based on the topic of ‘Social well-being’. This event witnessed immense participation and versatile projects presented ranged from drones to structures facilitating solar energy generation.

In association with The Quiz Club, Aavishkara hosted ‘Curiosity’, an event that tested the participants’ awareness of emerging Science and Technology concepts. ‘Science Pictionary’ gauged the partakers’ creativity and spontaneity. During Prabhidhi’18, Aavishkara conducted ‘Technical Dictionary’ in collaboration with ECIF.

Aavishkara will continue to fuel the scientific inquisitiveness of students and drive them to become creative problem solvers.
Amrita Centre for Entrepreneurship (ACE) helps students develop their business skills and also presents budding entrepreneurs with opportunities to transform their business ideas into startups.

‘An introduction to Eximius’, was organized in the campus to familiarize the students with Eximius, a two-day entrepreneurship summit hosted by IIM-B in the month of August. A talk by Ms. Pavitra Sanath Kumar, an architectural entrepreneur, highlighted the importance of perseverance in life.

‘E-week’, an entrepreneurship week, played host to a variety of lectures. ‘A Profitable Talk’, an exposition by Mr. C. S. Sudheer, CEO & MD, Indianmoney.com, focused on the steps involved in setting up a company. ‘Tech CEOs’ saw student entrepreneurs share their experience in managing startups at a young age. ‘Royal Talks’, a session by Mr. Abhikshek Chandarashekar, Co-Founder, Royal Brothers and Mr. Kuldip Purohit, Business head, Royal Brothers, highlighted the approach to transform a start-up into a successful businesses.

ACE conducted ‘Invent-o-preneur’ for Aarohan’17, an event which tested the novelty and marketing skills of the students. During Prabidhi’18, ACE collaborated with Sankhya to host business street which tested the participants’ understanding of stock markets. The club also conducted a session on ‘Resume Writing’ and hosted ‘Internmela’, a gathering of over 40 companies who offered internships to meritorious students.

The club will continue to host events to cater to the needs of aspiring entrepreneurs.
ACM & ACM-W

ACM
| Chairperson: Ms. Ashwini Nayak | Co-Chairperson: Mr. Arvind Sudheer |
ACM-W
| Chairperson: Ms. Devi Krishnan | Co-Chairperson: Ms. Rachana Pasuparthy |
| Mentor: Dr. Supriya M. |

The school has a student chapter of the Association of Computing Machinery (ACM), a non-profit organization which provides a platform for budding Computer Science engineers to sharpen and exhibit their skills in the field of Information Technology.

The chapter held an hour-long workshop titled, ‘Hour of Code’ that consisted of a brief introduction to HTML and web development, and the workshop culminated with a contest that challenged the participants to build innovative web pages. The session helped many first timers to strongly grasp the fundamentals and essentials of full stack development. The club hosted ‘Cyber Investigation’, which involved deciphering codes to solve a fictional cyber crime case.

The women’s chapter of ACM, hosted a talk on ‘Artificial Intelligence’. The event was held under the banner of ‘Distinguished speaker programme’. Ms. Akshata N, Strategy & Architecture analyst, Australia and New Zealand banking group (ANZ) and Ms. Krithika S, Solutions Manager, Australia and New Zealand banking group (ANZ) were invited to share their thoughts on the influence of AI on Financial Technology. The event garnered great participation and succeeded in providing an insight into the latest developments in the field of Artificial intelligence and machine learning.

The chapters of ACM and ACM-W would continue to raise awareness about latest innovations in computer science.
ACROM

| Secretary: Mr. Deepak S. |  
| Joint Secretary: Mr. Anurag Chollangi & Mr. K. Sai Teja |  
| Mentor: Dr. Amudha J. |  

Amrita Club for Robotics and Mechatronics (ACROM) thrives to ignite and kindle the fire of robotics going parallel with the ideology of integrating robots into modern-day systems.

ACROM’s endeavors in this regard saw a variety of exciting events held across the span of the semester. The season began on a positive note, with a massive number of first years attending the club’s introduction session. ACROM organized an ‘Introduction to Robotics’ session in August, to brief the audience about various hardware, software and sensors that go into the making of a robot. This was followed by the much-awaited 2-day Hands-on Workshop in collaboration with IEEE RAS in September, wherein Arduino fundamentals were taught and applied so as to create Line Follower, ObstacleAvoider and Bluetooth-controlled bots. During Aarohan’17, ACROM pitched in with two events – ‘Yantra’ and ‘Mocktail’. School students were tested and pushed to think of innovative ways to make a hydraulic arm work. Next up was a keynote lecture series by five ISRO scientists, on the theme of ‘Cutting Edge Space Technologies’. The event enjoyed unparalleled success; ideas and discussions flowed freely between the speakers and the audience, a crowd of more than 500 students. Next on the calendar was ACROM’s annual 2-day intra-college robotics fest, Sentience’17 held in December. Two contests – ‘Li-Fo’ and ‘Tron’ – put a test to the skills taught in the hands-on workshop and brought out a battle of bots. It was an eventful two day event with a buzzing crowd cheering for the contestants in the prelims and the Grand Finale.

ACROM’s flagship event, RASE’18, the annual national level intercollegiate robotics fest witnessed the participation of more than 65 teams from various colleges within the country. Event such as ‘Li-Fo’, ‘Death Race’, ‘Maze Runner’ and ‘Robo Wars’ fostered high levels of competitive spirit and enthusiasm among participants.

ACROM will continue to impart the knowledge about robotics to aspiring engineers.
Amrita Networking Club (ANC) conducts a plethora of events in the campus and outside college to cater to young minds that aspire to master the techniques of computer networking.

ANC's activities for the year commenced with a refresher course on networking, for senior students attending the Arista Networks recruitment drive. The club hosted a workshop on the famous packet sniffing tool, Wireshark, to elucidate important network architecture concepts.

ANC held a seminar titled, ‘Wireless Realms’ that highlighted the advancements in the sphere of wireless network generations, Li-Fi and its applications. ‘Out of the Box’, conducted for Aarohan’ 17, tested the participants’ spontaneity and presentation skills.

As a sign of support towards the Digital India campaign, the club steered an out-reach program, for the students of Delhi Public School, Shri Shri Ravi Shankar Vidya Mandir and JSS Public School. The initiative introduced students to the fundamentals of computer networking and data communication. The club organised a seminar on ‘Cloud Computing and Data Analytics’, and hosted ‘Funology’ in collaboration with Vidyuth, during Prabidhi’18.

The club would continue to support students who wish to learn and emerge as competent engineers in the field of networking.
The student chapter Codechef is a full-fledged effort to build a strong coding community in the campus. The chapter came into action during the academic year, as a consequence of the campus’s remarkable involvement in the competitive programming activities held worldwide.

The chapter held its first session, ‘An Introduction to ACM, ICPC’ (International Collegiate Programming Contest), in the month of October. Mr. Radhakrishnan, Mentor, Codechef, briefed the attendees about the registration process and the selection of teams to the finals in various regions. Sanket M. Bhat (4th year CSE), shared his experience on competitive programming and shed light on the importance of coding.

The club hosted, ‘ICPC Warm-Up’, a series of preparatory sessions for the world’s most coveted coding challenge ‘ACM-ICPC 2K17’. The sessions spanned over five days and covered key topics such as dynamic programming, binary trees and bit manipulation.

With earnest efforts, the club looks forward to produce high-calibre coders, and drive home the prestigious ICPC title one day.
Computer Society of India (CSI), has a student chapter under the Dept. of CSE which works meticulously to enlighten enthusiasts in cutting edge technologies through distinguished speaker programs and workshops.

The chapter hosted its first event, a Distinguished Speaker Program in the month of September. The speakers, Ms. Vijayalakshmi and Mr. Koudinya from Dell EMC, delivered deep insights into the Internet of Things (IoT) aspect of computing and its achievements till date.

Mr. Nagaraj Harikar, senior software engineer at Citrix R&D India Pvt.Ltd headed a session on ‘Data Sciences and its applications’. The speaker emphasised on how Data Sciences is an important aspect of growing technology landscape and elucidated to the audience, the general definitions related to data sciences with interesting anecdotes.

The club in collaboration with FACE conducted, ‘Game of Sprites’ for Aarohan’17. The event was hosted for high school students and judged their creativity and logic by teaching them the basics to build their own game.

The club joined hands with FACE and Sankhya to organize, a fun-filled treasure hunt and Tech Taboo, ‘Detective Quest’, during Prabidhi’18.

• Amrita CSI Student Branch, Dept of CSE mentored by Dr. N. Rakesh received the prestigious “Best Accredited Student Branch Award” for second consecutive period at the CSI Annual Convention 2018 held in Kolkata.

CSI student chapter will continue to encourage and inspire computer science enthusiasts.
ECIF

Secretary: Mr. Gopala Krishnan U.
Joint Secretary: Ms. Harini M. & Mr. Jashwant Raj
Mentor: Ms. Bhavana V.

Electronics Communication and Instrumentation Forum, popularly known as ECIF, is the forum of Departments of ECE and EIE. It conducts myriad events every semester to keep the spark of electronics alive in the entire college. With audience extending beyond the home department, ECIF bridges the gap between theoretical and practical knowledge for anyone passionate about electronics.

This year kick started with the trademark event ‘Beyond the Blackboard’, a session to familiarize the students to the faculty members. Filled with skits, humor and fun throughout, the event was cherished by all.

‘Videotronics’ took the aid of interesting, well imagined videos to explain the technologies of the future. ‘Gadget Geek’ dealt with the intricacies and workings of various modern gadgets and technologies. During Aarohan’17, ECIF conducted a fun-event ‘Laser Tag’ which attracted a huge participation. ‘Technical Treasure Hunt’ tested the participants’ ability to crack codes related to various technical aspects.

ECIF’s flagship event, ‘Electronica’, was conducted in the month of October. The event introduced the world of electronics to around 300 students who gathered to participate in the workshop. Several topics ranging from the working of rudimentary components like resistors and capacitors to the operation of complex circuits were discussed during the event. The overnight competition saw teams race against the clock to beat each other at building the fastest, simplest and most efficient circuits.
FACE, Forum for Aspiring Computer Engineers, aims to bring out the full potential of budding technophiles, by providing them a platform to explore and improve their coding skills.

The club began its year with ‘Bugster’, a code debugging contest. The first round of the competition challenged the participants with questions based on fundamental concepts such as loops, arrays and structures. The second round was hosted online, in which each qualified team had to debug two programs written in a high-level language. They inducted ‘Google Developer Student Club’ in the campus by organizing a two day boot camp that familiarized students with XML basics and Android studio applications.

The club conducted two fun-filled events as a part of Aarohan’17. ‘Codeout’, held for senior secondary students, gave an insight into the wonderful world of competitive programming. ‘Game of Sprites’ was a two round high school event wherein, the contestant’s logical reasoning as well as creativity were tested.

The club held ‘Wingman’ a coding contest that actively engaged the partakers in multifarious tricky problems and brainteasers. The popular distinguished speaker program, ‘Concepts of Reality’ shed light on the growing importance of augmented reality and introduced the participants to Bangalore’s biggest developer carnival, Developer Weekend’18.

The flagship event of the semester, ‘The FACE I/O Week’, delivered a series of lectures on trending topics such as Machine learning, Data sciences and Ethical hacking.

The club unveiled its hugely popular 24-hour hackathon, ‘SLAC’ (Stay Late and Code) that attracted amazing talents from the campus and other reputed institutes across the city.

FACE believes that coding is today’s language of creativity. With successful endeavours propelling its progress, the forum hopes to build an extraordinary coding community in the campus.
IEEE

| Chairperson: Ms. Shaambhavi Shrivastava |
| Co-Chairperson: Mr. Aaryan Oberoi |
| Secretary: Mr. Sri Teja |
| Branch Counsellor: Dr. Navin Kumar |

Institute of Electrical and Electronics Engineers is the world’s largest technical professional organization with over 423,000 members around the world. IEEE is dedicated to advancing technology for the benefit of humanity and inspires a global community through its highly cited publications, conferences, technology standards, and professional and educational activities.

In its introductory event 'IEEE Induction programme', the participants were given an overview of the various chapters of IEEE and the benefits of having an IEEE membership. A two-day workshop on research methodology was conducted to brief the students on the intricacies involved in research and paper publishing. ‘Nurture Nature’, an exposition on Eco-friendly technologies, was organized in collaboration with Lekhani, on the Independence Day. The Student Branch of IEEE organized ‘The Quest’ during Aarohan’17, which involved deciphering clues based on ASCII and binary codes.

The student members of IEEE volunteered for various workshops held in and around the city like those at SJCE Mysore, Bengaluru branch of Nokia and Vikasa Soudha, which helped them keep abreast with the latest developments in the field of engineering technology. The chapters of IEEE came together to host ‘IEEE Week’ wherein a series of talks were hosted to educate the students on the developments in the fields of science and technology. In the final round of Prabidhi’18, ‘Stupid Theory’, was also hosted by the student branch.

IEEE student chapter will strive to further the mission of the IEEE Society and provide impetus to research.
The student chapter of IEEE COMSOC (Communications Society) aims to create a holistic learning environment for students pursuing their interests in communication technologies.

The chapter commenced the year by hosting an enriching talk on SLATE (Satellite Linked Affordable Tablet for Education) in collaboration with ECIF. A seminar titled ‘Detection of Brain Tumour Using MATLAB’ organized during the IEEE week, aimed to acquaint the students with the various functions and methods of MATLAB. During Aarohan’17, COMSOC, in association with IEEE RAS, conducted ‘Circuitrix’ which tested the circuit building skills of the students.

The chapter also hosted ‘A talk on LiFi’, where Dr. Navin Kumar, Mentor, IEEE student branch, provided insights into the forthcoming areas of research in the field of communication. ‘Vehicular Communication and Intelligent Transport Systems’ comprised of a series of lectures which accentuated the growing need for implementing Intelligent systems in the field of transportation.

The chapter looks forward to enable the development of skills in the students and to produce competent engineers in communication stream.
The Power and Electronics Society advances the theory and practice of electrical and electronics engineering, and of the allied arts and sciences.

The chapter started off with a seminar titled ‘Clean disruption of energy and Transportation’, which accentuated the need to turn towards renewable sources of energy. This was followed by a talk on Industrial exposure to electrical engineers wherein insights were given into the various fields of Aeronautical Engineering. A talk on the power system scenario in India and a two-day workshop on Electrical systems were also organized to give the students an overview of the steps involved in the generation of power from renewable energy sources. For IEEE week, an electronic project expo was held which saw the participants present their creative projects.

‘Final destination’, hosted by PES in collaboration with ACROM for Aarohan, tested the basic knowledge of the participants in the field of electronics. IEEE PELS collaborated with Vidyuth to present a session labelled ‘Renewable sources of energy’.
IEEE PES and IAS combined student chapter endeavours to impart industrial skills to the students through myriad events.

The chapter instigated the year by organizing a talk on the ‘Disruption of the Battery Industry’ following which ‘What is PSCAD?’, a seminar on the Power System Computer Aided Design (PSCAD), was hosted. ‘Workshop on Power World Simulator (PWS)’ focused on the increased flexibility in the implementation and the analysis of various methods of load flow. Seminar on ‘Industrial Exposure to Electrical Engineers’ discussed several concepts related to aerodynamics, and a workshop to provide a brief introduction to Matrix Laboratory (MATLAB) ensued. A workshop on Electrical Systems was also conducted in the month of August.

The chapter hosted ‘Energy Week’ which comprised of events like ‘Minute to Spot’, ‘Re-Solution’ and ‘TECH-e’, which aimed to discuss the future of energy production and consumption. An industrial visit to the Central Power Research Institute (CPRI) was organized to help the students achieve a thorough understanding of the industrial standards and machinery. As a part of the ‘IEEE Week’, a seminar titled ‘Energizer’ was hosted to discuss the advantages of batteries and the complications caused by them. During Aarohan’17 IEEE PES & IAS conducted ‘Final destination’, a collage of technical and fun events. A talk hosted under the banner of ‘Distinguished Lecture Program’ saw the speaker Mr. Akshay K. Rathore shed light on topics such as ‘High Frequency Soft Switching PWM’ and ‘Resonant DC-DC Converter Topologies for Solar/Fuel Cell Applications’.

The chapter looks forward to providing continuous support for students to learn and aid the making of proficient engineers in the field of Electrical Power and Energy.
IEEE RAS

Chairperson: Mr. Madras Mohith Sai Kumar Reddy
Co-Chairperson: Ms. Meenakshi Narayan
Secretary: Ms. Mangala Sneha Srinivasan
Mentor: Mr. A. A. Nippun Kumaar

The industrial era is steadily transforming into the age of automation - merging mechanical, electrical and computer engineering into the exciting new field of robotics technology. The student chapter of 'IEEE - Robotics and Automation Society' (RAS) was inaugurated in April 2017 with a mission to foster students' interest and knowledge in this sphere.

The year began with an orientation hosted by Mr. Balaji Vishwanathan, CEO of Invenzo Robotics, and Mr. Amit Goyal, R&D Head of ABB Robotics, who were invited to enlighten budding robotics enthusiasts about the scope of automation.

RAS collaborated with ACROM to conduct a 2-day hands-on workshop on basic robotics that received an overwhelming response from freshmen. For Aarohan'17, the club teamed up with IEEE COMSOC to conduct 'Circuitricks', a contest that tested the circuit board skills of school students. During IEEE Week, RAS joined hands with IEEE-WIE to organize a poster-making contest themed 'Applications of Robotics' and a technical talk titled 'Self-Driving Cars' that delved into the arena of futuristic cars.

IEEE-RAS also hosted a series of lectures by ISRO, based on the theme - 'Cutting Edge Space Technologies'. The event, a major milestone for the club, was attended by more than 600 engineering students from colleges across the city and gave them the opportunity to interact with leading industrial experts in the field of space exploration.

The club joined hands with ACROM to host Sentience'17, the annual intra-college robotics fest which comprised of 'LiFo' and 'TRON', two competitive events. The club's flagship event, RASE'18, a national level robotics competition was conducted in association with ACROM on the 16th, 17th and 18th of February 2018 that witnessed an enthusiastic participation across the five events namely 'LiFo', 'RoboWars', 'Robo Soccer', 'Death Race' and 'Maze Runner'.
IEEE-Women in Engineering (WIE) focuses on promoting women empowerment in the field of engineering and technology. The club aims to facilitate the recruitment and retention of women in technical disciplines.

The chapter started the academic year with a general meeting which highlighted the benefits of being an IEEE member. As a part of the Teacher’s Day celebrations, WIE conducted a quiz to spread awareness about eminent women working in the fields of Science & Engineering.

A poster-making contest titled ‘Robotic Applications’, and a talk on ‘Self Driving Cars’ were conducted in collaboration with IEEE-RAS. The WIE student chapter also hosted ‘Story Behind Pictures’, an exciting event that required participants to deduce the underlying theme of a photograph.

WIE, in association with the Quiz Club, organized a quiz on science and technology during Aarohan’17, which comprised of questions based on several fascinating aspects of Science and Technology. ‘Socio Net Bee’, a marketing event, gave participants an opportunity to share their creative ideas, and a session on ‘Super computers and E-Science activities in India’ elucidated the use of super computers in various domains.

WIE has hosted a multitude of purposive, fun-filled activities with a mission to spread knowledge and create awareness among women about the current scientific advancements.
INGENIUM

| Secretary: Mr. Lalithkumar D. | Joint Secretary: Mr. Ebin Jose |
| Mentor: Mr. Shashi Kumar M. E. |

Ingenium, the Mechanical Engineering forum, brings together competent tech enthusiasts making concrete efforts to connect students with the exhilarating world of machinery.

In its introductory session, the forum pitched ‘Mechwhiz of the Year’, an initiative to recognise and reward the most ingenious and active participant in all of the club’s events conducted throughout the year. ‘CuriousUs’, the weekly dose of tech, involved discussions on beguiling subjects such as teleporters, colonising mars, mining in meteors and micro-bots. During Aarohan’17, the club hosted ‘Castle Wars’, that evaluated the creativity of the participants and their design tactics. Another event hosted by the club, comprised of a preliminary round called ‘Grinding Gears’ where the participants had to arrange the given gears to obtain a desired outcome, and a final round ‘Boost with the Air’, where they had to build working models of race cars using the basic items provided. The club also organized weekly courses on Creo and CATIA, a flexible 3D modelling software, in collaboration with CMS.

The club presented a workshop on Roboanalyser, where Dr. Saha, HOD of Mechanical Engineering, IIT Delhi, and Mr. Rajivlochana G. shed light on mechatronics and kinematic control software. The sessions were graced by delegates from ABB, Kuka, Yascawa and DRDO. The club collaborated with Lekhani to host ‘Mech-Charades’, a creative writing event, and with Maardhani to host ‘Mechadotechnia’, a marketing event. A workshop on ‘RC Aircraft’ was hosted to boost the engineering skills of the students. ‘Tech Sparks’ was organized in collaboration with IEEE-RAS for Prabidhi’18.

The forum will continue to inspire natural inventors to pursue their talents.
JIDO, the Industrial Automation club, aims to encourage and motivate aspiring mechanical engineers to achieve the highest levels of technical proficiency, and acquaint them with advancements in technology.

The inaugural event of JIDO was a workshop which comprised of lectures on 3D printing and Computer Aided Design (CAD). An industrial visit to the Central Manufacturing Technology Institute (CMTI) was organised for the students of the Dept. of ME.

During Aarohan'17, JIDO organized ‘A Workshop on Ornithopter’ which imparted knowledge to the students on the basics of aerodynamics. The club also organized ‘Mobility Control’ and ‘Mocktail’ in which the participants built working models of cars and other vehicles.

A lecture on Programmable logic controller (PLC) and Supervisory Control and Data Acquisition (SCADA) was organized to familiarize the students with the working of various control systems that are used in the field of Automation. The club also hosted ‘Unravel’ which tested the participants’ knowledge of industrial machinery. ‘Workshop on Biped Robot’ expounded on the working of servo motors and their applications in Biped robots.

JIDO will continue to provide insights into how machines work, and the refinements that can be made to existing technologies.
Society of Automotive Engineers (SAE) collegiate club is a part of SAE India, Bengaluru chapter. The club aims to be a leading competitor in racing events and help students enhance their knowledge of the field of automobiles.

The events for the year commenced with an introductory session which intended to familiarize the freshers with the various racing contests. ‘Automobiles and All-Terrain Vehicles’ elucidated the several classes and build types of automobiles. ‘Automobile Quiz’, held in collaboration with The Quiz Club, comprised of questions based on a wide array of topics associated with automobiles. An industrial visit to TVS Motors, located in Hosur was also organized by the club for the third year students of the Department of Mechanical Engineering.

During Aarohan’17, SAE conducted three events. ‘Bot-Relay’, was held in association with ACROM. ‘Auto Bot’, involved constructing a working boat using the materials provided and ‘Yantra’ tested the participants’ knowledge of hydraulics principles. The students participated in BAJA 2018 held in Indore. Team Ameya performed exceedingly well and bagged the award for the ‘most economical car’ of the competition.

SAE collegiate club will continue to aspire upcoming automotive engineers in the years to come.
Sankhya, the mathematics club, celebrates the ordered beauty of numbers, logic and equations by hosting events which involve challenging puzzles and mind boggling riddles.

The year commenced with 'Cryptics', the club introduction to all aspiring engineers. The club was a major showstopper during Arohan’17, with ‘Math Expo’ educating school students about mathematical applications through posters displaying detailed information. The club collaborated with Vyom, the Astrophysics club, to host ‘Interstellar’, a creative demonstration that exhibited fascinating facts about different neon stars and galaxies. The event, ‘Mathementum Contour’, gauged the computational calibre of school kids by quizzing them on arithmetics and reasoning. The club hosted its widely popular in-campus math Olympiad, ‘Matmode’, that registered record participation. The flagship event of the club, ‘Math Week’, involved the partakers in a variety of challenges and exciting contests.

Sankhya aims to acquaint students with the wonderful world of mathematics through resourceful activities in the days to come.
Vidyuth, the departmental forum of Electrical and Electronics Engineering, aims to familiarize the students with the latest advancements in the field of electrical technology. The forum furthers the idea of relating theoretical concepts to real world applications.

The forum’s introductory event ‘Know Your Forum’, acquainted the freshmen from the department of EEE with their faculty. ‘What’s Going On?’, imparted knowledge on the topics of mobile processors and electric trains. ‘Tech Taboo’ gauged the electrical basics of students. ‘Renewable Sources of Energy’, conducted by Vidyuth in collaboration with IEEE-PELS, elucidated the need to turn towards replenishable energy.

The club organized ‘Out of The Box’ in collaboration with ANC as a part of Aarohan’17, which involved a code deciphering contest and a spot presentation on the topic of ‘Science and Technology’. A workshop titled ‘VAWO’ (Volts Amperes Watts Ohm) gave students an insight into the practical applications of circuit analysis. ‘Generation, Transmission and Distribution of Power’ elucidated the concepts regarding Power grids.
Vyom, the Astrophysics Club lauds the prominence of infinity and the power of particles. “Sky is not the limit”, a conviction that the club ingrains, has helped them ardently nurture the passion of students.

The club organized ‘Glideator’, an event for the senior school students, during Aarohan’17. The event spanned over two days with the preliminary round challenging the participants with mind boggling problems and riddles centred around high school physics. The second day saw selected teams construct a Glider with the basic materials provided to them. The models built by the participating teams were judged based on the criteria of the feasibility and ingenuity.

Since last year, the club has been functioning with a full-fledged research wing on astrophysics and astronomy. The club hosted an event named ‘Race to Space’ during the initial week of 2018, which educated partakers about space and exoplanets.

Vyom is dedicated to fostering the students' ideologies and interests in the infinite field of astrophysics, and assisting them in their journey to learn more of what is beyond our atmosphere.
LITERARY ARTICLES
A Foeticide

On a lazy Saturday afternoon,
I resolved to write a poem.
Curling up my favourite chair to brood,
Excavating the fanciest of my stationery,
I set to work on my prelude.

My mind embarked on a journey,
pondering on ideas, diverse.
Shedding the last tads of my phoney,
I stripped my mind bare, oddly courageous,
To compose a dark sonnet of a lost glory.

Forced life on a weakling is certainly unfair,
Scream out the chic futile struggles, really loud,
Or the jostle of those who play it fair and square.
Perhaps the exciting voyage of a floating cloud
Oh my, such an emotionally extravagant affair.

Lolling around in the abyss, I stay
discovering the murky realms unheard of,
akin to the perplexed kid at a dolls display,
I persistently fail to pen down a string of words,
Ashamed, I dismiss myself, through halfway.

K. Sai Chinmayi
II Year, EEE
A Pinch of Star Dust

An inky black sky, 
dotted with glitter. 
The cool night breeze, 
made me feel a jitter.

As the night grew old, 
so did the camp fire’s ember. 
A gazillion stories told, 
the mountains would remember.

Singing, dancing, merry-making, 
resounding mirth of laughter. 
Jolly friendships rekindling, 
memories made for ever after.

Daybreak would witness 
challenges a plenty 
With Orion’s retirement.

Ashwini Nayak
III Year, CSE
A Thing of Beauty is A Joy

Shhh! The silence was deafening. As we rowed further, we could hear the sound of water splashing into the river. Within a few seconds, we experienced the true beauty of nature. Elated and excited, we couldn't resist looking at the magnificent and mighty rocks, which gave birth to the wonderful waterfalls.

On the day of my last examination of the 7th Semester, I felt as free as a parrot. A parrot that was set free after it had been caged for years. Relaxed and relieved, my friends & I had planned a trip to Hogenakkal Falls. We couldn't wait for the D-day. With the rise of the Saturday Sun, we prepared to leave for the most awaited trip. With our gloves on, we fastened our helmet straps and started our bikes.

We had finally started the adventure trip. The imagination of the destination had us all into the world of dreams. The farther we rode from the city, the quieter it got. With roads as empty as shade, surrounded on either side by a green carpet, it was like a fairytale. We had experienced such peace after ages. To top it all, the roads were as smooth as butter. Twists and turns & turns and turns, the roads were truly amazing. But no longer did the roads remain the same. As we reached closer to our destination, the roads got worse. Life is not always a highway, it's more of roads with pits and bumps. Nevertheless, we had a peaceful ride to the place we badly wanted to be at.

Finally, we were kids in the candy store. We arrived at our destination. No sooner than we walked out of the parking lot, vendors started marketing the famous massage or the fish dishes. As any tourist would do, we paid no heed to these people. We soon reached the ticket counter to purchase tickets for the boating ride. After a series of detailed discussions, we decided to go for it. We purchased the tickets and joined the queue.

The queue was long, we were exhausted. This was when we saw a fruit vendor selling watermelons. Juicy, red and tasty they looked. As I tossed one in my mouth, the tingling taste gave me a chill. Our energy was soaring high again. We had to wait no longer. Our turn to go for the boat ride had finally come. To our surprise, the boats were not the typical ones. As round as a mushroom, they were made of bamboo frames and covered in black plastic. We wore the life jackets and jumped into the coracle. Our rower began moving the oars and we paved our path through the water. It felt as though we were slowly disconnecting from the rest of the world. From a world that is full of noise, pollution and disturbances, to a world of calmness, neatness and peace.

What we saw is probably etched in our hearts and something hard to articulate. From a height of about 30 feet, water made its way through the rocks and into the river. As white as snow, the water appeared as shiny as pearls. The melody of the water falling into the river was as peaceful and pleasant as a piece of mellow music.
Even as we strolled back to the parking lot after a delicious meal, the memories of the scenery stayed on. It was an everlasting experience.

After enjoying few more tourist spots at the place, we started back to Bangalore. The ride was thrilling yet again. With every mile closer to reaching Bangalore, we felt we had left something behind. Something was missing. As we entered the city, we observed that the sound of nature was replaced by the noise of vehicles. From a land of greenery and a clear sky, we had come to a place filled with buildings, apartments, offices. The sky no longer remained clear.

Our life is clouded with many disturbances and distractions. We often miss out on the most beautiful moments. What you've been reading so far, might have been lost in thoughts of what would happen next in your life. No one to blame, that's the world we live in today.

Retrospection of the entire trip takes me back to the point where all I could hear was the melody from the waterfalls. We have advanced to great heights in technology, business etc, but what about our peace? What about the surroundings we live in? Well, I say Shhhh! Go back to that moment in your life, where you experienced peace and ultimate bliss, because as the famous poet John Keats said, "A Thing of Beauty is A Joy Forever."

Sanjay Jain
IV Year, ME
An Ode Of A Chronic Sloth

I do not mean to belittle the efforts of my goodhearted and well-meaning teachers when I say without exaggeration that in the 19 years of my not-so-long life, I have never once written proper notes for any subject.

It is not that I have never genuinely tried because in the beginning of every year or new semester, I always had one notebook for each subject, and I would write down every word our teacher expected us to note down. Unfortunately, this would last a maximum of two days after which, my hands refused to write a single sentence completely. In every notebook of mine you would find all the subjects scribbled together mixed with caricatures and lyrics of songs that wouldn’t leave my mind.

My brain’s insensitivity to sincere dictation started way back in primary classes. I remember (surprisingly, since my memory is usually limited to good food and good music) when I was in fifth grade my English teacher was going around and checking the notes of each student, a ritual ardently carried out once a week, as he came closer and closer to my table I could feel my heartbeat growing louder with every step he took. I looked at my maths notebook (the only one I had decided to take to school that day), with a sense of alarm, opened to a page where I had scribbled a bit of English and decided the only escape plan I could execute was an immediate trip to the washroom.

I stood up, asked for permission and walked out of the room. The feeling was like finding a secret fire escape when you’re trapped in a blazing room. But alas! My happiness was short-lived. My teacher was waiting for me when I came back from my temporary hideout. He looked at me, sighed and then said, very seriously, that he had never expected me of all people (I am usually proactive in class) to take on this path of ultimate destruction.

He explained to me in as many words as he could, the importance of writing notes in class. All I could say was that I was sorry. I wrote down whatever he dictated in the next two classes after which I gave up on trying to jot down everything and my teacher gave up on me.

A permanent back-bencher, I somehow managed to escape every time a teacher asked for submission of the notebooks. As you would’ve guessed by now, record writing has never been my forte. A day before the final submission date, forced by the threats of zero, I would sit an entire day and copy down an entire year/semester’s work of another fellow student who wasn’t as pathetically lazy as me. A week before exams I would put to use, which according to me is the most important invention of mankind—the photocopying machine (god bless his soul) and take sheets after sheets of notes of the same fellow student. I would pass.

And thus is my hate-hate relationship with meticulous writing. How much ever my poor overworked brain tries to convince my heart to agree on the matter, my stubborn organ does not bother to heed to good advice. How I managed to survive in this competitive world all these years is still a mystery to me. But in a way, fortunately or unfortunately, this unconquerable laziness of mine has taught me two things—firstly, the art of weaving magic with words (also known infamously as excuses) and secondly, the importance of being in a teacher’s good book.

Mrinalini Gopakumar
II Year, ECE
AN ODE TO MY TUMULTUOUS WORLD

If I were Keat’s nightingale of the limitless wilderness
I would have drowned you in a state of trance, not with the power of vodka or wine
But with my voice, will I remove you from the forlorn state.
If I were Shelly’s Skylark of the encompassing blue sky
I would have drenched you in a state of content, not with the power of Dionysus
But with my voice, will I teach you harmonious happiness.
If I were Coleridge’s Albatross of the stranded ship in the boundless sea
I would have cleansed your sins, not with the power of annihilating the life-in-death
But with my voice, will I enlighten you on seeking forgiveness
If I were Wordsworth’s solitary reaper of the abundant open fields
I would have remained in your heart, not with power of my melancholic song
But with my voice, will I iron the cockles of your heart.
Alas! I am a meek onlooker in the expanse of chaos
I cannot reduce the cacophony in the world, with the power of eloquent silence
But with my words in verse, will I prove you the reach of immortal love.

Deepakumari S.
Dept. of English
The Hymn of Friendship

The gale sung a familiar song,
Caressing the vapours of warm tears
Abundantly spilt speaking more than the lips
When the world estranged to make you a vagabond
Read by another pair of watchful eyes
Completely mapping the ruthless chaos
Decrypting in empathy,
Cloaking you under a warm coat of friendship
Here he stands, the real one
Right beside you,
Closely knitted more than your own shadow
Even in the dusk of helplessness
Holding your hand firm and tight
Yes, you found your real friend.

Raksha R
IV Year, ECE
MONSTERS Inc.

Monsters Inc. was the first horror movie I ever watched. Alright, it wasn't, but at the time (I was six years old) it seemed like it. I had no idea there were monsters under my bed until then. Thank you, Pixar.

The notion of monsters under the bed is said to come from the idea of the Bogeyman. Different countries have different names for this creature: the Sack Man (Latin countries), Oude Rode Ogen, or Old Red Eyes (Belgium), and my personal favorite, Le Croquet-Mitaine (hand cruncher --- quaint, no?). Even India has its counterparts for the Bogeyman. For example, disobedient children in Tamil Nadu are threatened with the Poochaandi (a monster or fearsome man), whose existence I can personally vouch for.

On one hand, parents have possibly been taking the whole myth too far. On the other, I applaud their ingenuity in inventing these monsters to cow their kids into obedience. At the end of the day, so what if your child develops a debilitating fear of the dark forever, as long as they go to bed? They invented these terrors, and they also provided a remedy: monster spray. Somehow it never worked in my room though. Forget the bed--the closet was the scary place. There could have been anything behind those doors, and they would have had their pick of three children, ripe for their taking.

In reality, the only monsters under my bed are dust bunnies and boxes of neglected art supplies. The closet, however, is a whole different story.

Devi Krishnan
III Year, CSE
Stage Fear

This intangible string of thoughts
Ties my tongue to the roof of my mouth.
“Speak! Speak! For heaven’s sake!”
Coming on the stage was a huge mistake.
Millions of thoughts buzz in my head
Every part of my body screams in dread.
The whole class waits with bated breath
Right now it seems like life and death.
With trembling fingers and a shivering voice,
I realize that I have no choice.
“You are no one! You ignorant fool!”
I hear this, inside my head.
Tongue tied and a million heartbeats later
I open my mouth, but..
My voice drowns in the chitter chatter.
Too many eyes on me!
Too many people judging me!
I know, I am not a freak.
Words seem like Latin and Greek,
Sweat trickles down my back.
I want to go back! Go back! Go back!
But I am going down,
Down the rabbit hole.
Words are falling apart
Tears blur my vision,
I give up in submission.
Tears flow in my blood
I drop on the ground with a violent thud.
With a pint of luck and a pinch of chance,
The monstrous malevolence does a victory dance.

P. Pratyusha
II Year, ECE
Teak Vows

It's been a week since the wedding.
My husband ceremoniously decided today, to my chagrin-
That the much needed panacea to fix our lustfully dishevelled mood,
Should be the daunting task of moving my ancient teak cupboard to our bedroom.

I cannot wrap my lovelorn head around this brittle chore he has glommed onto.
Our home is freshly cosy, and the delicate rooms even more so-
Faux wood tiles, creamish yellow curtains,
Sand paper smoothened walls splashed a swaying shade of sea blue.
This decaying cupboard puts the kibosh on our peachy dream.

We clumsily stand by the bed
His warm arms around my curvy waist and his chin lovingly
bruising my shoulder-
I stare disapprovingly at him and at my Wooden Brute jamming
the alcove adjoining the door to our slumber shelter.
"Let's do this", he whispers, guiding the Giant and me along the
sharp walls,
in an adorable huff and puff.

The promiscuous dance of closet repositioning-
emboldens me to caress the scarred, curvaceous wood.
The crust is flaky, and the blunt edges sturdy.
The sides deeply cracked, but wood not splintered.
This unwanted, tarnished but exquisite piece that I have come
to disregard,
has indeed endured my miserably monotonous company these
long years.

We step back after pushing it to a permanent station - by the
balcony.
He kisses my hair, and swiftly pads away, giving us an awkward
moment together.
I lean in and touch the cool ceramic handles,
Smelling the timeless, but dying teak -
That has vowed to attach itself to me,
A reminder of how beginnings never stray, and are never erased.

Sandhiya Mani
II Year, ECE
The Confusion

I jolted awake in the middle of the night, hearing faint footsteps outside my room. No one was supposed to be home except me, worried I glanced over to my night stand to check the time, 3:08 it read. I started thinking to myself who or what this could be, was my excessive horror movie watching finally getting on me? Am I going crazy? I looked longingly at the light switch across the bed, I had no courage to walk over and turn it on.

So instead I did the next best thing, I grabbed my blanket tightly in my hands and pulled it up till it covered half my face, smart I know. Leaning my back against the headboard behind me I gathered the last of my whimpering self and looked at the door of my room. The footsteps got closer, and the feeling of terror was eating me up inside. The door was pushed open and black, long skinny fingers gripped the side of the door.

All the air left in me was pushed out in one swift second, leaving me breathless and fear of the upcoming events. The figure stepped inside the room, and I pushed myself as far into the headboard as I possibly could. Standing at the end of my bed was something unhuman, something that existed only in harsh dreams. Here, it was bent over with its back arched, easily 5 foot tall with long hair falling nearly to the ground through which its bright yellow eyes could be seen. It started to stand up revealing cracks all over its body filled with strange red liquid much like hot lava. I was sure I was about to die, there was no way I was capable of dreaming with such precision. Looking straight in to its eyes I knew its intention for showing up tonight was soon to be finished, or well started.

It opened its mouth baring its long pointed teeth surely meant for killing and devouring any creature in this world. I knew it was my time; I pulled the blanket over my head hoping to myself that this would be quick. I closed my eyes for good measure, and when I heard it move I couldn't hold back anymore and started screaming at the top of my lungs for anyone to come and save me from this demonic creature.

Soon, I opened my eyes, confused unsure of where I was. Where were my belongings and that god awful creature that attacked me? Instead I was sitting on a bench in the middle of a forest full of trees without any leaves, a foul odour and white fog all around. Standing up I noticed something on my palm, a piece of cloth with the numbers 52 stitched into it.

Things started to get weird, Why wasn't I able to remember anything? I decided to walk around see what this place was. Slowly walking through the forest, I reached a cliff looking down I saw the same red coloured fluid as on the creature. And a broken wooden bridge connecting to the other side, walking onto it I felt the same fear as before come back. I looked down again now only to see hundreds of the same creatures climbing up the sides of the cliff.

I started running to the opposite side and suddenly I hear the number 52 called out of nowhere and all my memories hit me in a flash. This was hell, doing what it does best feeding off my fear. It was my 52nd day here and now it's my turn again for whatever Satan had in store for me an ongoing cycle of pain for all those have sinned.

Pranathi R. Jonnala
II year, ME
THE HAUNTING FAIR OF THE MIND

The galloping horses of the merry fair went round and round as a child grinned at his grandfather from the ride. Mindless chatter and soft, dull music surrounded her all around. She felt incredibly cozy on the outside, smiling brightly and joshing a bubbling laugh at her own jokes. Her world was lit up with bright lights and starry nights.

The simple happiness came to an abrupt end when a shove on her shoulder jolted her. A man with an obscene tattoo on his shoulder had pushed past her, not bothering to apologize to her and many others as he arrogantly walked through the crowd. Little Fey hardly noticed the bright lights dimming and the fair slowing as an ugly rage filled her. She couldn't believe that a man as low as him would dare to touch her, and not grace his lips with half an apology after that too!

"What audacity," she snarled as she pushed past the crowd to see him standing leisurely with a cigarette in his mouth. The white smoke swirled around him dangerously, almost as though it was warning him of what was to come. She clutched her little pink bag tightly as she glared at him.

She absolutely loathed men like him.

It was all too sudden. The smoke cleared, gasps resounded, and a glittering knife lodged up the man's shoulder - the shoulder that had so ruthlessly shoved Little Fey to the side. As the stillness of the night dissolved into the sirens of an ambulance, little Fey slipped away into the darkness. Nobody noticed her as she left behind a lingering scent of the psychopath that was her. Amidst the quiet town of fading sirens, she wanted to go back to the merry fair terribly.
The History of a Fidget Spinner

This the story of an old friend, a fidget spinner in a room without gravity. She had the kind of energy that made you think not of waves, but of the patient reflection of the vibrant sun on the sea. This friend of contradictions would make heads spin with stories, animal facts, and heartbreaking royal histories long forgotten. She had a way of spinning colourful images out of the mundane. She fidgeted with her lies, and kept good secrets, but best of all, she fought against the bullies, and later for the rights of all; she spun a vicious circle of fire around her enemies. When the war came, her fire dimmed. The fidget spinner lost its bearings, its speed, was abandoned in the rust, and years later I picked up her book, and devoured her words, because they were the one thing that the war couldn’t take from her.

Harini Srivatsan
III Year, ME
The Sport not Taken

In a country of approximately 1.3 billion people, whenever the word "sports" is taken in any context for the majority of the citizens the first thing that comes to mind is cricket and in some cities it is football. But as we all can testify that there are a million different types of sports out there. Some weird like cycle ball or foot volleyball and some mainstream sports like rugby.

Focusing on Extreme sports, they are recreational activities perceived as involving a high degree of risk. These activities often involve speed, height, a high level of physical exertion, and highly specialized gear. Some examples include Skateboarding, BMX, Skydiving, Rallycross, Gliding, etc.

These kinds of sports are almost non-existent in India. From personal experience, I can say that people look at you funny when you are doing or least trying to do one of these sports. They comment a lot about how their sons and nephews do the same and are experts at it and mock you for looking stupid. Generally, skateboarders encounter with responses that go something like this:

"Beta, aap skateboard kahan karte ho? Itne kharab roads hai". (Son, where do you skateboard? Roads are bloody awful.) - Chances are that this was said by an uncle/relative after your parents mentioned your interest at a party that you didn’t want to be at in the first place. These conversations generally steer towards skateboarding 101 in Hindi. By the end of it, you usually wish you kept this hobby a secret.

"Yeda hai kya!" (Indian vernacular version of "You mad bro?")

"Arre iska brake kahan hai?" (Where’s the brake for this?) Generally said while keenly studying the board by rotating it around with a raised eyebrow. Explanation is futile.

Even the dogs don’t let you live your life and follow your passion. They are not amused by your ride. It’s their moral right to chase you down and chomp off half of your shin.

An attitude like this has lead to the stagnation of developing talent in this country. In a population of 1.3 billion people, we cannot only have a select few sports as everybody cannot be as good as to compete on an international scale. In fact, we ought to be having a higher diversity of not only sports activity for the country to progress. To support my point lets take the example of Shiva Keshavan the sole representative of India at the Winter Olympics for the past 20 years. He started
representing India at the age of 16 and is going to retire this year from the sport. He hasn’t been shown any sign of recognition. He had to practice his sport of luge by attaching wheels to sledge instead of rails and going down the slopes of Himachal Pradesh avoiding incoming traffic and also herds of sheep. This year the government didn’t even bother to fund him so he had to resort to public funding.

Even the Mahindra racing team which has been consecutively coming second in Formula E for the past two seasons is all but unknown to the Indian public. A company without any backing; and consisting of mostly Indians achieving great feats in one of the premier racing competitions is overshadowed by 11 overrated men playing on a field.

Small examples like this point out to our current reasons for the stagnation of the growth of the country as a whole. We the Indians still abide and play by the rule and sports that were introduced and played by the Britishers who held the country hostage and prevented its growth. It is high time for Indians to change their attitude towards things they don’t fully understand. This reflects the attitude of Indians to not take the path not taken and not take any sort of risk. In fact, 1.3 billion people should have something or the other to look forward to in life and hence India needs to diversify.

Sohel Chungikar
II Year, ME
THE YOGIC SLEEP

As I woke up it was quite and still, I could quickly sense something unusual. My home as a rule is filled with various disturbing noises early in the morning – the TV playing loudly, the noises from the kitchen, the milkman, the paperwala and every other thing which I believe were purely to disturb my morning pleasure sleep. The kitchen and the hall are clearly visible form my bedroom. As I had a quick view through the ajar bedroom door, I could find I'm all alone in the home!
I had a glance at my mobile.
“6:43 Wednesday”.
“21st June” it said.
“OK google...... call mom”
As I could feel my eyelids heavy..
“Calling mum mobile” said my voice assist.
“Hello mummy”
“Good morning dear!” she whispered
“Where are you? Why is no one at home?”
“We are at the club house”
“What? Early in the morning, what’s happening?” I asked, being confused.
“We are doing yoga, the whole of the apartment’s here, it's the International Yoga Day.”
“Quick, freshen up and come here,” she whispered as she hung up the phone.
I could recollect reading an article last night which mentioned the International Yoga Day celebration in Lucknow; the Prime Minister himself is showing up admist his busy schedule. I would vaguely recall it quoting the Prime Minister also saying - “Yoga is an art which connects our soul, mind, and body together. It makes us strong, flexible, peaceful and healthy. It helps a person to get higher level of consciousness by getting control over the body in all aspects like physically, mentally, socially and intellectually”.
“YOGA!” I exclaimed.
“YOGA! I NEED TO PRACTICE YOGA FROM THIS VERY MOMENT!” I exclaimed.
Soon, I drifted back to sleep as I believed I was practicing the prominent “Shavasana”- THE YOGIC SLEEP!

Saradhi
II Year, EEE
When You Dream

Have you ever wondered how it would be to go to those far away mountains hiding in grey veil? Have you ever felt as though you are being consumed by the eerie silence of life hidden deep inside its woods?

Have you ever? Like I did?

Walking into the silence, into the biting cold, gradually slipping away from present to find some hope running through the path of cold stones, to find at the edge of a grey frosting lake, sitting on those stones, you dream of a boy.

Did your eyes hold the image of his face with white porcelain skin, raven black hair and night blue lips? Did he search into your eyes too with his own steel, lifeless eyes? Then, turn back! Turn back and run with all your might before he finds what he is searching for. Run before he starts to give you a lifeless smile, without meeting his dead eyes, run before he starts tearing the part he wants from you and run before he starts telling you a story.

Once he starts narrating it, you are not going to move, even when every part of you is kicking, screeching, crying, breaking and willing to run and escape from there, you won’t. You can’t!

You simply can’t do anything but to be hooked to his gaze and be as still as the boy in front of you as he starts to tell you terrifying tales and as you forget to move, feel, talk, see breath or exist. As you start to fade away slowly into nothingness, the chilling voice of the boy resonating in the mountains slowly dies down to a mind numbing silence, patiently waiting to be heard. Again.

Rachana Sai
III Year, ME
Camouflage and stealth tech using NANOTECHNOLOGY

The word camouflage has its origin in the French word 'camoufle', which means to disguise. In English dictionary, the word initially referred to concealment or disguise of military objects in order to prevent detection by the enemy. In earlier days, specifically before 20th century, the only sensor available to detect was human eye and so camouflage was confined to the visible light only. The rapid development of sensor technology outside the visible range has forced the use of a new definition and terminologies for camouflage.

Stealth Materials (Using nanomaterials):
Stealth materials that are used as military objects are specially designed with reduced or tailored reflectivity, emissivity, or absorbance and can either be used in the structure of the object or as surface coatings.

Radiation-absorbent material (RAM) absorbs the incident electromagnetic wave or cancels it by interference and ohmic loss. However, RAM has maintenance problems. Radar absorbing structures (RAS) is a load bearing concept based on RAM. It is resistant to high temperature and humidity. So, RAS has less problems of maintenance.

In either way, stealth materials help to defeat sensors that detect objects by capturing the emitted or reflected electromagnetic radiation from the surface of the object. The basic crux of stealth technology is to divert away the observer by reducing the amplitude and/or altering the frequency response with the aid of carefully selected materials of desired electromagnetic properties (refractive index, permittivity, permeability etc.).

It is not that stealth measures in microwaves are important, but as per law of balanced observables, it is required in all the segments of EM spectrum including visible region. An example of visual stealth is illustrated in the figure. It emphasizes that along with materials in the form of coatings, the terrain specific camouflage pattern paintings blend the object effectively with the background.

Camouflage Stealth Applications:
Although a vast literature, in the form of monographs, books, research papers, patents, etc., is available related to the synthesis, properties, and applications of nanomaterials, very little information is available on their camouflage or stealth applications. It is therefore necessary to conceptualize nanomaterials for camouflage and stealth applications.

By taking into consideration some of the electromagnetic, thermal, chromogenic, and mechanical properties, there is a need to create low weight, high strength structures, and coatings to alter their reflection/absorption/scattering characteristics. This will lead to the development of the following camouflage/stealth products and technologies:
- RAM sheet with ballistic protection.
- Light weight and high strength structural nanocomposites incorporated with materials having multispectral camouflage characteristics.
- Coatings with functionalities of pigmentation, texture, IR reflectivity, MW absorption etc., for multispectral camouflage.
- Smart materials and textiles for adaptive camouflage (soldier's uniforms), etc.
Advanced Materials for Stealth:
Today, virtually every nation and many non-state military organizations have access to advanced tactical sensors for target acquisition (radar and thermal imagers) and intelligence gathering surveillance systems (ground and air reconnaissance). These advanced imaging sights and sensors allow enemies to acquire and engage targets through visual smoke, at night, and under adverse weather conditions.

To combat these new sensing and detection technologies, camouflage paint, paint additives, tarps, nets and foams have been developed for visual camouflage and thermal and radar signature suppression. Most of the conventional materials used in the present stealth technologies are effective in reducing detection of a camouflaged object only in specific (i.e. visible or infrared or microwave) range of the electromagnetic spectrum. For example, most camouflage materials that are used to disguise soldiers and vehicles during the day show up easily when viewed through night vision goggles and infrared cameras. This is because leaves and other foliage reflect infrared light in a different way when compared to other fabrics and materials. Such limitations hence necessitate development of advanced materials with multispectral camouflage capabilities.

The emerging advanced materials suitable for multi-spectral camouflage/stealth applications mostly belong to categories such as conducting polymers, liquid crystals, chiral materials, multiferrics, nanomaterials, metamaterials (artificially engineered structures), smart textiles, etc. owing to their response to electromagnetic radiation of different energies.

Meta-materials for Invisible Cloak:
Invisibility is no more a matter of science fiction. To make an object invisible, perfectly invisible device should exhibit the same scattering properties as that of vacuum. In other words, the device together with the object to be camouflaged should reflect no light and cast no shadow. Neither the illusionary see through effect in the computer mediated camouflage nor the reduced radar cross section in stealth technology can offer ultimate apparatus of invisibility.
Further efforts are being made to develop a range of new metamaterials to extend this concept and make a target invisible in other regions of electromagnetic spectrum, including microwaves.

Plasmonic Nanostructures for Camouflaging in Infrared:
In the past decade, many new applications have emerged for plasmonic nanostructures, which include nanoscale imaging devices, light concentrators, invisible cloak, etc. Plasmonic nanostructures have been reported to show interesting interaction with optical radiations, particularly in the infrared region of the electromagnetic spectrum, wherein it has been shown that this class of materials can very effectively control the reflection/emission of infrared radiation and present great scope for tuning the emissivity of the materials. This feature of plasmonic nanostructures has potential for their applications for infrared.

P. Deepak
III Year, ECE
DATA DRIVEN ATTRIBUTION

The hidden challenge with moving to data-driven attribution & how to overcome it.

As consumers interact with your brand across a growing number of screens and channels, it becomes increasingly difficult to know which parts of your marketing strategy are working.

Leading marketers are telling us that they are exploring data-driven attribution as a way to effectively measure all their digital channels, and understand the impact each touchpoint has on the customer journey. In fact, according to a recent survey, 76% of all marketers say they currently have, or will have in the next 12 months, the capability to use marketing attribution.

Better attribution tools are making it easier for brands to bring together the data they need, analyze their performance, and get insights to improve their marketing. However, just like with any data-driven marketing effort, you don’t just need the right technology, you also need the right leadership.

While many marketers are exploring attribution, according to a recent survey by Advertiser Perceptions in partnership with Google, only 17% of advertisers surveyed said they are looking at the performance of all their digital channels together. So what’s stopping more marketers from realizing the full value of attribution?

In the same survey, 25% of marketers cited organizational and structural challenges as the No. 1 reason they haven’t adopted data-driven attribution, ranking just behind data and technology integration challenges.

As a result, some marketers are asking, “Do I need a chief attribution officer?” Probably not. Rather, you need to secure someone at the executive level and/or C-suite level who is fully committed to making attribution successful. Let’s look at the role that an internal leader can play to help a brand rally around an attribution solution and get the best results.

Your customers are cross-channel, your business should be too.

Data-driven attribution can help you optimize the performance of a single channel, like search, but to see the biggest impact you’ll need to understand how multiple marketing channels work together and take action on those insights. You might discover that you’re over-invested in a specific channel, like paid social, and need to move budget to a different channel, like video.
"You need a leader who has the authority to make decisions that impact your entire marketing organisation."

To solve these cross-functional challenges, you need a leader who has the authority to make decisions that impact your entire marketing organization. This person may be the Head Of Digital, the CMO, CFO, or even the CEO, depending on how well integrated and aligned your teams are today, and who owns the responsibility for measuring marketing performance. Remember, the value of attribution comes from looking at your marketing efforts holistically. So you need someone with a big-picture view of your business.

Here are the four critical things you need to accomplish:

Define Success.
Connect Attribution Results To Business Results.
Align Incentives.
Build A Process For Taking Action.

Your new pathway to data-driven success: By identifying the right attribution leader who can work through silos and implement those actionable objectives, it's easy to see how this can not only improve your data measurement, but paint a clearer picture of your marketing effectiveness overall.

Tangudu Rupak,
III Year, EEE
Nano Robots for Medical Uses

Has it been a decade since a doctor was able to perform surgery from long distance? Humans have already developed certain bots to deal with human body. Among that a new technology of Nano robots is being developed by Shawn Douglas from Harvard’s Wyss Institute for Biologically Inspired Engineering to particularly treat affected cells inside human body. Douglas described a method to create machinery from protein strands and DNA.

The idea behind the use of Nano robotics is to deal with certain affected area on cellular level. Mainstream chemotherapy and radiotherapy are after affect measures taken to reduce cancer. One reason cancer cells are difficult to recognize is that they “hide” by removing from their surface the chemical ID that says something is wrong.

Nano robots, by contrast, could deliver medication directly to cancerous tumours, cutting down on the doses needed to reprogram or destroy rogue cells by delivering only tiny amounts directly to those cells themselves.

For wireless action the design of an electromechanical WiNoBot is required, it must receive and transmit wireless signals. They have the ability to move in certain direction and carry deliverables. WiNoBot also have ability to perform a collaborative action. This is a direct application from the field of swarm robotics.

Certain complexities are being faced in this research as it’s a Nano level deal. Design of proper algorithm to communicate with these bots or not to affect nearby cell functioning will be the major issues here. Research from different approaches will obviously make this a realisable process soon. Ideas from all science fields should be collaborated to make it happen in nearby future.
Water transport is a real problem in rural India. Over half of the population doesn’t have tap water at home, so people (usually women) have to go get water from a central location and haul it back. They spend roughly 5 hours every day doing this, carrying jugs of water on their heads weighing up to 20 kilograms. It’s not good for their bodies, and it’s not good for their schedules, taking time away from other activities that are almost universally more productive (if less thrst quenching).

About 200 people live in the village of Ayyampathy in the southern Indian state of Tamil Nadu. The 25 houses in the village are between 100 and 500 meters from a nearby water tank, and households make an average of 15 water carrying trips per day. Moving 20 kg of water at a time in jugs is no fun at all, especially in the summer heat. A team of researchers solved this problem with a small experiment.

The experiment itself was straightforward: A Clear Path Robotics Husky was equipped with a crate that could hold three jugs of water, totalling 60 liters, much more than a single person could carry by themselves. A Bluetooth speaker allowed the robot to communicate with people in a synthetic male voice (speaking Tamil, the local language). The robot wasn’t autonomous; a researcher remote controlled it from about 10 meters away, and this method of operation was made clear to the participants in the study.

When it was time to get water, the robot would wait its turn, and then the study participant would fill each jug and load it up. The robot would then politely ask, “Can you show me the way to your home so that I can bring water to your home?” Once there, the participant unloaded, emptied, and replaced the jugs, and the robot would say, “I hope I was helpful to you. Please remember to wash your hands before you eat.” How nice!!

Building a better future:
To be truly useful, these systems must gain some independence. They must be able to modify their operations as they gather new information yet follow and cooperate with humans at all times improving on their human robotic interaction capabilities. We’ll need better artificial intelligence (AI) tools to get to that point. Only then these rescue robots will learn to solve problems in the absence of data or human experience. Enhanced AI will enable robots to move themselves throughout their operating environment with minimal human assistance and to self-adapt in novel and ground-breaking ways. We need robots which can adapt their locomotion style automatically. They must be able to walk, run, roll, crawl, climb, jump, fly or swim, in response to changing environmental conditions.

These tools will also ensure that autonomous robots can deal with unexpected situations or tasks that challenge their sensing, modelling, planning or movement capabilities. In the future, robots will have to be able to change their shape, geometry and movements based on the perceived terrain or task.

D. Lalith Kumar
III Year, ME
Telemetry, Tracking and Command (TMTC) used in satellites

The telemetry, tracking and control subsystem of a satellite provides a connection between the satellite itself and the facilities on the ground. The purpose of the TMTC function is to ensure that the satellite performs correctly. As part of the spacecraft bus, the TMTC subsystem is required for all satellites regardless of the application. The three major tasks that the TMTC subsystem performs to ensure the successful operation of an applications satellite:

1) The monitoring of the health and status of the satellite through the collection, processing, and transmission of data from the various spacecraft subsystems.
2) The determination of the satellite's exact location through the reception, processing, and transmitting of ranging signals.
3) The proper control of satellite through the reception, processing, and implementation of commands transmitted from the ground.

Telemetry and monitoring system:

The monitoring system has an ability of collecting the data obtained from many sensors within the satellites and after observing it, sends these data to the controlling earth station. There may be several hundred sensors on the satellite which are used in the monitoring of various parameters such as pressure, voltage and current in the power conditioning unit, which draw the voltage and currents in the communication electronics. The temperature of many subsystems must be kept within predetermined limits as it is the most important parameter in communication systems. The sensor data and the status of each subsystem, can be reported back to the earth by the telemetry system. Telemetry data are usually digitized and transmitted as phase shift keying (PSK) or Frequency Shift Keying (FSK) of a low-power telemetry carrier using time division techniques. The entire Telemetry data main frame may contain thousands of bits of data and take several seconds to transmit. The controlling earth station performs the function of monitoring, storing and decoding the data so that the status of any system or sensor on the satellite can be determined immediately by the controller on the earth.
Tracking:

A number of techniques can be used to determine the current orbit of a satellite. The current position of an orbit can be determined by integrating the data obtained by velocity and acceleration sensors. The range obtained from angular measurements from the earth station is capable of determining the orbital elements. A pulse or a sequence of pulses is transmitted to the satellite and time delay before the pulse is received is observed to calculate active range. Triangulation method is used to determine the position of a satellite when a sufficient number of earth stations are observing it. Ranging measurements can also be done using Ranging tones. For the determination of exact orbital position of the satellite the elevation and azimuth angle measurements are very important.

Command:

A reliable and effective command structure is essential for the successful launch and operation of any satellite. The correction to the orbit and changes in the altitude is done by the command system. During launch, it is used to control the firing of the apogee kick motor and to spin up a spinner or extend the solar sails and antennas of a three-axis stabilized satellite. Encryption of commands and responses is used to provide security in the command system. First of all, the control code is converted into a command word and sent to the satellite in a Telemetry Data Main frame. The command and telemetry links can operate in the same frequency band (6 and 4 GHz) but they are usually separated from the communication system. In case the main TMMT system fails, the backup system is used to keep the satellite on station. It is also used to eject the satellite from geostationary orbit.
REGIONAL ARTICLES
சொன்ன


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Subash A.
III Year, EIE
चलो आज कुछ नया करें

चलो आज कुछ नया करें
आसपास की घटनाओं का नरीक्षण करें
सुविचार के दृष्टिकोण का आंकलन करें
अपने आप से कुछ सवाल करें
चलो आज कुछ नया करें

अपने ही आत्मविश्वास को फरी परभिषित करें
अपने आचारावली होने के पुरामण की खोज करें
सुविचार के वचिरों की सुष्पष्टता का बविरण करें
ज़रूरत पड़े तो अपनी उपलब्धियों की सृजनी तैयार करें
कल के लिए आज कुछ नया करें

उन पुराने और नये पतली की भावनाता में सुविचार का परीक्षण करें
कही ब्राह्मी गलतियों की एक बायारी में कैद करें
उस बायारी को सहजजिक रखने का पूरण करें
यदानिक उस में कुछ न कुछ जालगलत करते रहें
साथ ही जीवन दृषिये बायारी में कुछ अचूक लिखिते रहें

जो मन की उदारी की दूर करे
वह बायारी, उसे खुशियों में याद करे
आज की दृष्टिकोण से दूरतवरी पड़ताल करे
फरी बही गलती तो नहीं यह सवाल करें
चलो आज एक बार फरी नहीं करें

आसपास की घटनाओं का नरीक्षण करें
सुविचार के दृष्टिकोण का आंकलन करें
फरी अवस्था का धुरहन से विशलेषण करें
उसके बाद ही नरीक्षण की सुनिश्चिति करें
वैहट कल के लिए आज से पूर्वतन पूरामूल करें

Shaambhavi
III Year, ECE
ನಿವಲೆ ರಮಾನುಜಾ ನಾಯಕ

ಅನೇಕ ಸಮಯಗಳಿಗೆ ಮಾತ್ರ ಎಂದೆನಿಸಿದ್ದು. ನಿವಲೆಯ ಪ್ರಮುಖ ವ್ಯಕ್ತಿಗಳಿಗೆ ಹೋರಣೆಯಾಗಿ ನಾಯಕ ಮತ್ತು ಪ್ರಮುಖ ವ್ಯಕ್ತಿಗಳಿಗೆ ಹೋರಣೆಯಾಗಿ ಎಂದೆನಿಸಿದ್ದು. ನಿವಲೆಯ ಪ್ರಮುಖ ವ್ಯಕ್ತಿಗಳಿಗೆ ಹೋರಣೆಯಾಗಿ ಎಂದೆನಿಸಿದ್ದು.

ಅನೇಕ ಪ್ರಕಟಣೆಗಳಿಗೆ ಅಕ್ಷರದ ಹೋರಣೆಯಾಗಿ ನಾಯಕ ಮತ್ತು ಪ್ರಮುಖ ವ್ಯಕ್ತಿಗಳಿಗೆ ಹೋರಣೆಯಾಗಿ ಎಂದೆನಿಸಿದ್ದು. ನಿವಲೆಯ ಪ್ರಮುಖ ವ್ಯಕ್ತಿಗಳಿಗೆ ಹೋರಣೆಯಾಗಿ ಎಂದೆನಿಸಿದ್ದು.

ನಿವಲೆ: ಚಿಕ್ಕ ವಸ್ತೂ, ಹಸ್ತಾವಳಿಗಾಗಿ ಅಧ್ಯಯಣ ಮಾಡಿದ್ದು ಎನ್ನುತ್ತಿರುವುದು... ನಿವಲೆಯ ಪ್ರಮುಖ ವ್ಯಕ್ತಿಗಳಿಗೆ ಹೋರಣೆಯಾಗಿ ಎಂದೆನಿಸಿದ್ದು... ನಿವಲೆಯ ಪ್ರಮುಖ ವ್ಯಕ್ತಿಗಳಿಗೆ ಹೋರಣೆಯಾಗಿ ಎಂದೆನಿಸಿದ್ದು.

ನಾಯಕ: ಹೋರಣೆಯಾಗಿ ಎನ್ನುತ್ತಿರುವುದು. ಹೋರಣೆಯಾಗಿ ಎಂದೆನಿಸಿದ್ದು... ನಿವಲೆಯ ಪ್ರಮುಖ ವ್ಯಕ್ತಿಗಳಿಗೆ ಹೋರಣೆಯಾಗಿ ಎಂದೆನಿಸಿದ್ದು.

ನಿವಲೆಯ ಪ್ರಮುಖ ವ್ಯಕ್ತಿಗಳಿಗೆ ಹೋರಣೆಯಾಗಿ ಎಂದೆನಿಸಿದ್ದು.

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ನಿವलೆಯ ಪ್ರಮುಖ ವ್ಯಕ್ತಿಗಳಿಗೆ ಹೋರಣೆಯಾಗಿ ಎಂದೆನಿಸಿದ್ದು.

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ಸಂಪ್ರದಾಯದಲ್ಲಿ ಸಂಭಾವ್ಯ ಅನುಭವ ನೀಡಿದರೆ, ಅನುಭವ ಅಡ್ಡವಾಗುತ್ತದೆ. ಸಂಭಾವ್ಯದ ಅನುಭವವನ್ನು ಅಡ್ಡವಾಗಿರುವಾಗ, ಆರೋಗ್ಯದಲ್ಲಿ ಸಂಭಾವ್ಯ ಅನುಭವ ಮೂಲಕ ಸುಂದರಾಗುತ್ತದೆ. ಅನುಭವವನ್ನು ಅಡ್ಡವಾಗಿ ಮೂಲಕ ಸುಂದರಾಗಿಸಲು ಶಾಶ್ವತವಾಗಿರುವುದು. ಸಂಭಾವ್ಯದಲ್ಲಿ ಸಂಭಾವ್ಯ ಅನುಭವ ಪಡೆದುಕೊಳ್ಳಲು ಸಂಭಾವ್ಯದಲ್ಲಿ ಸಂಭಾವ್ಯ ಅನುಭವ ಮೂಲಕ ಸುಂದರಾಗಿಸಲು ಶಾಶ್ವತವಾಗಿರುವುದು.

2013ರಲ್ಲಿ, ಅವಿಭಜ್ಜೆ ಬೇಳ್ಳಿದ ನೇರಾಧ್ಯಕ್ಷರ ಕಾಲದಲ್ಲಿ, ಅವರು ಪ್ರತಿದಿನ ನೋಡಿಕೊಂಡಿತು, ಪ್ರತಿ ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು, ಅವರು ನೋಡಿಕೋಂಡಿತು. ಪ್ರತಿ ನೋಡಿಕೋಂಡಿತು, ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು. ಅವರು ನೋಡಿಕೋಂಡಿತು.
ಅನುಭವ ಅವಾಸಿ

ಕೆಲವು ಸಮಯದಲ್ಲಿ ರೀತಿ ಮೇಲೆ ನಿರ್ದೇಶಕ ಮೂಲಕ ಅಂದಾಜೆ ನೀಡುವ ಸಾಮರ್ಥ್ಯವನ್ನು ಹೊಳಪಾಡುವಂತೆ ನಿರ್ದೇಶಕ ಅನುಭವದ ಅವಾಸಿಯನ್ನು ಸೇರಿಸುವ ಪ್ರಯತ್ನವಾಗಿರುತ್ತದೆ. ಹಾಗೆ ಒಂದು ಅವಾಸಿಯನ್ನು ಮೂಲಕ ಅವಾಸಿಯನ್ನು ಸೇರಿಸುವ ಪ್ರಯತ್ನವಾಗಿರುತ್ತದೆ. ಹಾಗೆ ಒಂದು ಅವಾಸಿಯನ್ನು ಮೂಲಕ ಅವಾಸಿಯನ್ನು ಸೇರಿಸುವ ಪ್ರಯತ್ನವಾಗಿರುತ್ತದೆ.

ನಿಕ್ಷಿಲ್ N
II Year, EEE
நான் வணங்கு?

ஏனெனில் ஆண்,
ஒரு பெண்களுக்கு கோன்று பெரும் வணங்கு.

குறிப்பாக இது,
பலர் மனத்தில் அடக்கம் செய்து வணங்கும்.

கல்லறையைச் சென்று,
மேசும் வெட்டிய கோன்று வணங்கு.

இன்றும் பட்டு,
அது ஒரு மனிதன் மற்றும் நீலகண்ட மற்றும் வணங்கு.

பிரியல்ளை இது,
ஒரு வாய்ந்தது குழுமம் வணங்கு.

கதை தோனை இது,
காவல் முன்னேறி வணங்கும் பலரும் வணங்கு.

நூற்றாண்டு இது,
பெண்களின் பொற்கங்கள் வண்து வண்டு வணங்கு.

பிரியல்ளை இது,
கல்லறையில் மன்னனுக்கு அவளே வணங்கத் வணங்கு.

நான்கு இது,
நூற்றாண்டும் வண்டு வண்டுவாய்ந்த வணங்கு.

மிகமை இது,
வல்லவரை நீயே கோன்று வணங்கு.

சுப்பர் இது,
காவல் நீயே வணங்கு

பாடல் பத்து முசுப்படிய வணங்கு

பாடல் பத்து வணங்கு

நண்பனை வணங்கு

நண்பனை வணங்கு

நண்பனை வணங்கு
ప్రమాద బడికి

పెంచుకోవం తప్పం చేసం కు......

అలాంటి అందాన్ని ఎందుటి......

హునా నాయకుడు ప్రస్తావం......

మా ఎవరు మీరు మనోభాషలు వివిధ కట్టడాల ప్రచురం పొందించండి.నాయకత్వం సత్తా మేలు కొంత మందిని సంయోగం చేస్తుంది.మామామా నాయకత్వమను సత్తా కొంత మందిని సంయోగం చేసినప్పటి ప్రతి మామామా నాయకత్వం పొందించారని చింతలు చేసారు. మనం కేంద్రం వ్యక్తిని మనేంద్రం మనేంద్రం మనేంద్రం....

సంప్రదాయ సంస్థలేదా తిరఫ్తులను ప్రశ్నించడం ప్రశ్నించడం తెలియజేస్తుంది. ఏమీసా, ఇచ్చిని ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు? ఏమీసా ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు? ఏమీసా ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు? ఏమీసా ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు? ఏమీసా ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు? Give me blood , I will give you freedom ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు ఎందుకు

R.SURYA
II Year, ECE
"ನಿತ್ಯ"

|| ನಿತ್ಯದಲ್ಲಿ ಜಾಗಿದರಿಂದ ಸ್ವಾಮಿಯವರು ಗಂಡಿ ನಿಗದಿಯಾಗುವುದುನಿಂದ
|| ನಿತ್ಯದಲ್ಲಿ ಜಾಗಿದರಿಂದ ಸ್ವಾಮಿಯವರು ಗಂಡಿ ನಿಗದಿಯಾಗುವುದುನಿಂದ
|| ನಿಗದಿಯಾಗುವುದು ಗಂಡಿಯಾಗುವುದುನಿಂದ
|| ನಿಗದಿಯಾಗುವುದು ಗಂಡಿಯಾಗುವುದು
|| ನಿಗದಿಯಾಗುವುದು ಗಂಡಿಯಾಗುವುದು

"ಪುತ್ತು"

|| ಪುತ್ತು ನಿಗದಿಯಾಗುವುದು ಅಥವಾ ಗಂಡಿಯಾಗುವುದು
|| ನಿಗದಿಯಾಗುವುದು ಗಂಡಿಯಾಗುವುದು ಅಥವಾ ಗಂಡಿಯಾಗುವುದು
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"ಅನುಭವ ಹೊಂದಿದ್ದರೆ ಗೌಂಡ"

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R.S. Krishna Naik
Admin Asst.
ASB
Amrita School of Engineering, Bengaluru, played host to Kalakriti’17, the annual talent hunt for freshmen, on the 11th of August 2017. The inaugural ceremony commenced with the lighting of lamp followed by the honourable chief guest, Dr. Nagaraja S. R. declaring the event open.

The Quiz Club hosted events like ‘InQUIZitive’, and ‘Phantasia’ to put the young minds to test. Kala, the Fine Arts Club, organized ‘Face Painting’, ‘One minute Art’, and ‘Find the Best from Waste’, which were savoured by art enthusiasts. Smriti, the Photography Club, captured the interest of photography enthusiasts through events like ‘Spot it’ and ‘Third Eye’ while also preserving memories of the gigantic carnival. Prakriti, the Eco Club, brought the nature lovers together through events like ‘Beckon of Nature’ and ‘Art from Waste’. Chetana, the Sports Club fostered competitive spirit in the freshmen through events like ‘Gamer’s Hub’, ‘Tiki Taka’, ‘Chess’ and ‘Treasure Hunt’. The Squad, the Adventure Enthusiasts Club, attracted fitness fanatics through events like ‘Time Run’ and ‘Run Raja Run’. Raaga, the Music Club, brought out the musical talents through ‘Western/Indian Solo’, ‘Classical solo’, and ‘Solo Instrumental’.

Narthana, the Dance Club, got the participants grooving to the beats with events like ‘Solo Dance’, ‘Dancing Duos’ and ‘Group Dance’. The Humour Club sought out the wittiest freshers by hosting events like ‘Jester of the Campus’ and ‘Stand Up Comedy’. EPIC, the Movie Club, gauged the acting and movie making skills of the students through ‘Act on Cam’ and ‘Ad Making’. Vedanta, the cultural club emphasized the need to maintain good virtues in life by organizing events like ‘YOU’ and ‘Kalpana’. SPICMACAY, the Indian fine arts club fostered the various aspects of Indian culture through ‘Dhoti Pratiyogita’, ‘Dumbcharades’ and ‘Tattoo’. Abhinaya, the Drama Club, unveiled acting skills in the students through ‘Dramebaaz’ and ‘Curtain Call’. Lekhani, the Press Club aimed to bring out spontaneity and writing skills through ‘Taboo’, ‘Tell-A-Tale’ and ‘Unscripted’. Maardhani, the Literary Club tested the oratory skills through ‘Debate’. ICON, the Flagship event of Kalakriti’17 played host to diverse talents and culminated with Mr. Mrinalkanti Roy (Year I, MEE) being crowned as Mr. Kalakriti 2017.

Food stalls set up by the organizing committee witnessed a buzzing crowd throughout the day. Kalakriti’17 culminated with a closing ceremony which included the announcements of winners.
Amrita School of Engineering, Bengaluru, hosted the 4th Annual Alumni meet on the 5th of August, 2017.

The event commenced with a lamp lighting ceremony by Br. Dhanraj Swamy, Director, Amrita Vishwa Vidyapeetham, Bengaluru, Dr. Rakesh S. G., Associate Dean and Head, and Ms. Supriya M., Asst. Professor, Dept. of CSE, which was followed by a melodious invocation song. Ms. Sreevidya B., Lecturer, Dept. of CSE, delivered a captivating speech which drenched the audience in nostalgic moments which was followed by a welcome address by Ms. Krithika Devi, Asst. Professor, Dept. of EEE. Ms. Supriya M. presented a statistical report on the participation of the Alumni.

Br. Dhanraj Swamy addressed the gathering and emphasized the need to remain dedicated towards a task in order to attain fruitful results. Dr. Rakesh S.G. credited the alumni for their efforts in soaring the reputation of the institution and stressed the importance of the role they play in its advancement. The role played by of social media was discussed by Capt. Rajiv Sood, Head, CIR dept., while Dr. N. S. Murty, Chairperson, Dept. of ECE, urged the alumni to interact with the students currently pursuing their degree. Dr. Nagaraja S. R., Chairperson, Dept. of ME, praised the alumni’s commitment towards the institution and Dr. N. Rakesh, Vice Chairperson, Dept. of CSE, discussed the growth of alumni over the years and its impact on research and development.

Subsequently, Alumni Mr. Chethan Rao (ECE, 2015) and Mr. Akshay Viswakumar (ECE, 2016) shared some of their experiences as students and thanked the faculty and staff for the support they rendered. They also offered to extend help in conducting sensitizing sessions for the students and arranging for talks by industry experts.

Raaga, the music club, presented a mellifluous musical performance and Narthana, the dance club, showcased a scintillating dance performance. The event culminated with the distribution of mementos to the alumni.
‘Aarohan’ is an initiative of Amrita School of Engineering, Bengaluru to foster a bond between an institution of higher education and schools. The ninth edition of this Annual Science fest held on the 12th and 13th of October 2017 received an awe-inspiring response.

The eventful two-day fest began on the 12th of October with Br. Dhanraj Swamy, Director, Amrita Vishwa Vidyapeetham declaring the event open for the 1111 students from over 31 reputed institutions in and around Bengaluru. Delegations from prominent institutions like Delhi Public School East, The Amaatra Academy, Harvest International School, Freedom International School, Indus International School and Treamis World School, to name a few, were present. The young minds in attendance set out to acquaint themselves with the world of science through a plethora of events and fun games.

Events like ‘Mathemementum contour’, ‘The Quest’ tested the aptitude and analytical skills of the students while ‘Tech-ken’ and ‘Tech-ken 2.0’ brought to the fore their knowledge and cognizance. ‘Technical hunt’ and ‘Circuitricks’ honed the circuit debugging skills, ‘Yantra’ and ‘Mobility controls’ required efficiency and creativity, and ‘Inventopreneur’ awarded novelty. ‘Code out’ and ‘Game of Sprites’ gave an insight into the world of programming and ‘Bot Relay’ evoked interest among the students towards the field of Robotics. ‘Glideator’ and ‘Boost with Air’ assessed technical excellence while ‘Out of the box’ and ‘Final Destination’ entailed awareness. ‘Mocktail’ gauged the responsiveness of the participants and ‘Castle wars’ proved to be a test for the participants’ combative wits.

Project exhibition saw students present exhibits based on the theme of Social welfare. 27 meticulous projects presenting innovative ideas such as the use of drones to provide immediate first aid and economical methods of producing energy amalgamated to contribute to the success of this event. ‘Math Expo’ and ‘Workshop on Ornithopter’ witnessed active participation and proved to be informative. Fun events like ‘Interstellar’ and ‘Laser Tag’ were savoured by students.

The honourable Chief Guest Mrs. Jayanthi Prabhakar, Principal, Freedom International School, addressed the budding minds and emphasized the role that science fests like Aarohan play in providing impetus to the curiosity in them. The ceremony concluded with the distribution of prizes to the winners and the Rolling trophy, the overall championship trophy of Aarohan’17, was bagged by Delhi Public School, Bangalore East.

The overwhelming response of over thousand one hundred students signifies the ever-growing nature of this gargantuan celebration of science and the organizers hope that this progress will continue for years to come.
The days of 24rd and 25th of February 2018 were a time of great rejoicing and festivity at the Kengeri Brahmasthaanam, Mata Amritanandamayi Math, Bengaluru as it witnessed the divine presence of Sadguru Mata Amritanandamayi, also fondly known as AMMA.

As dawn approached, chants of Amma’s archana and Lalita Sahasranamam were recited, and this was followed by Rahu and Shani-dosha nivarana poojas. Rituals like Ganapathi homa, Sudarshana homa and Mruthyunjaya homa created a tranquil atmosphere and nurtured positivity in everyone present. At 12 PM, AMMA was welcomed and garlanded by dignitaries including Mr. Subash Chandra Kuntia, Former Chief Secretary, Karnataka and famed film actress, Ms. Nandhini. Prominent personalities like Mr. B. S. Yeddyurappa, Former Chief Minister of Karnataka, Ms. Shobha Karandlaje, Member of Parliament, Karnataka and Mr. Kamal Pant, Additional Director General of Police, Karnataka state police, were also in attendance.

In her satsang, AMMA underlined the need for developing a loving personality and maintaining a balance of thoughts and emotions through several anecdotes which shed light on a multitude of issues that the modern society is faced with. This was followed by bhajans and Manasa Puja. The most breath-taking sight was AMMA’s Darshan wherein she greeted every individual with a soothing countenance and hugged them with great compassion and love.

Students and faculty members of Amrita Vidyalayam and Amrita Vishwa Vidyapeetham joined hands with the residents of Ashram to engage in seva activities like preparation and serving of food, cleaning utensils, and managing the massive gathering of devotees. The efforts of the volunteers were commended by Amma as well as all the attendees.

A wide array of cultural events presented by the students of the school garnered great appreciation. A musical drama showcasing the life of Lord Krishna and a mime highlighting the hardships faced by the farmers in our country were presented by Abhinaya, the drama club. Vedanta, the cultural club, mesmerized everyone through a heartfelt rendering of bhajans, and melodies praising Lord Krishna by Raaga, the music club, ensued. The boys of Nartana, the dance club, paid homage to lord Ganapathi and an elegant dance by the girls was an offering to Lord Krishna. The performances by the students came to a culmination with the Yoga dance which served as a magnificent display of nimbleness.

AMMA’s Darshan ended in the early hours of 26th February. The two-day program witnessed unparalleled enthusiasm and served as a reminder for everyone to work for the upliftment of the society as a whole.
Amrita School of Engineering, Bengaluru hosted the annual athletic meet on the 17th of February 2018 on the campus grounds. Capt. Sanjay Sharma, Joint Director, Indian Navy was the guest of honour. The event commenced on an auspicious note with the lighting of the lamp by Br. Dhanraj Swamy, Director, Amrita Vishwa Vidyapeetham, Bengaluru, Dr. Rakesh S. G., Associate Dean and Head, ASE-B, and Dr. S. Ravishankar, Chairperson, Dept. of EEE. Following this, Mr. Sharma shared some of his experiences as a sportsman and emphasized the importance of developing a competitive spirit.

The inauguration was followed by the branch-wise march-past by students, with Mr. Naveen Kumar, (Year IV, ECE) leading the contingent. He was followed by six members of the university sports team carrying the university flag. All the engineering departments exhibited remarkable coordination in their parades. The department of ME won the march-past shield, with the department of ECE bagging the second place. Following this, Mr. Ramakrishnan, Head, Dept. of Physical Education extended a word of gratitude to everyone who contributed to the organizing of the event. Capt. Sanjay Sharma then declared the Sports Meet open to a thunderous applause.

The sports enthusiasts competed with vigor in 100m, 200m, 400m, 800m, and 1500m sprints, and in shotput and discus throw competitions. A 100m dash race was organized for the staff. The audience raised the spirit of the participants with their applause and encouraged them to put their best foot forward.

The eventful day culminated with a presentation ceremony. It was presided over by Mr. Ramakrishna and saw the winners being conferred with medals and certificates. Overall, the event was a great success and served as an exceptional exhibition of agility and perseverance.
Amrita School of Engineering, Bengaluru hosted the institution’s first TEDx event, ‘TEDx AmritaU Bengaluru’ under the title ‘What it looks like, but what it really is’ on the 21st of January, 2018. The inaugural ceremony commenced with a welcome address which was followed the lighting of the lamp.

The first speaker was Mr. Nalapad Harris, an entrepreneur and a philanthropic worker. His talk focused on the task of restraining the problem of drug addiction among youth. In his talk, Mr. Harris emphasized the need for everyone to contribute to the development of the society. He concluded his speech by saying “Responsibility is yours to claim and one who takes it for the country is the greatest person”.

The second speaker was Mr. Sai Krishna V.K, one of India’s youngest entrepreneur. Mr. Krishna’s talk was titled ‘Curiosity in young minds’. Mr. Krishna’s views on several aspects of real world interspersed with his unique brand of humour, resulted in a captivating speech.

Mr. G. N. Seshadri, a personality development trainer from Bengaluru was the third speaker for the day. A graduate engineer and co-founder of the SHINE organisation, he shared dozens of thought provoking points. He stressed on the fact that one could gain success only by possessing of positive attitude and a calm mind.

The fourth speaker was Dr. Shekar Babu, Dean & Head, MBA, Amrita School of Business, Bengaluru. He spoke about adopting a compassionate and responsible approach towards life and shed light on the importance of nurturing leadership qualities in one’s life. He then concluded with a strong message based on “Reflective Listening”.

Ms. Niharika N M, a YouTube sensation began by narrating some experiences from her days of schooling. Her description of dreams and goals accentuated the idea that fulfilling of our ambitions outshines our financial goals.

The sixth speaker, Mr. Prasad Bidappa, a Bangalore based fashion stylist and choreographer, briefed the crowd about fashion designing and the efforts required to make a mark in this field. He shared his opinions on the current fashion trends in Bollywood and also spoke at length about the different methods that can be adopted to promote young artistic talents of India.
Mr. Anup, a Graphic/Web Designer and a talented singer, began by performing a Kannada song called 'Rain'. He went on to present some of his graphic design work following which he got the audience tapping their feet to a song he composed. He concluded by saying “Believe in yourself and don’t care about those who don’t care about your dreams”.

Ms. Shwetambari Shetty, fitness expert and an entrepreneur, commenced her talk by giving a live demo of ‘Deadlift’, with a weight of 100kg. She shared her experiences as a fitness trainee and said that fitness is all about aging gracefully. She concluded by saying “Fitness is not just what it looks like, it is to remain active”.

Ms. Aparna Pallavaraja, Joint Secretary, Narthana (Year III, CSE) entertained the gathering with her spectacular dance performance.

Mr. Sriram Sullia, a Bangalore based radio jockey was the ninth speaker. Mr. Sriram shared his journey of life, which encompassed his journey from media studies to his current occupation as an RJ. He referred to the criticisms he faced during his early years and encouraged the audience to live their dreams with a positive attitude. He put forth his view of happiness, as just a piece of mind that charmed the audience.

The final speaker of the day, Mr. Sai Kaustuv Dasgupta, a self-taught graphic designer, spoke about his battle against partial paralysis which taught him the importance of optimism. He spoke about the tools he uses to express his feelings and emotions, first being dancing and then singing, the former which he had to discontinue at the age of five due to his sufferings from Osteogenesis. He shed light on his major support system, his parents and how his smile was a major weapon to overcome various obstacles in his life. He inspired the audience to celebrate every moment of one’s life with a smile, which as he said, is the signature sign of positivity. He further quoted “Life is a unique story. Everything is possible. Nothing to worry”. He fired up the audience with motivation by singing an inspirational song as the audience gave him a standing ovation in the end.

The stimulating and motivational event came to an end with, the host, Mr. Rohit Nair, thanking the speakers for spending their valuable time with the students of Amrita School of Engineering, Bengaluru. At the end of the event, the audience were then given a chance to interact with any of the speakers.
Prabhidi’18, the annual tech-day of ASE-B, was held on the 2nd of March 2018. The event commenced with a lamp lighting ceremony followed by a welcome address. Dr. Ravishankar S., Chairman, Amrita Dhara, declared the event open. The participants were briefed about the event details and rules before proceeding to the respective venues.

‘Business street’ was organized by Sankhya in collaboration with ACE. The participating teams competed in a simulated stock market environment and attempted to outdo each other using virtual cash and commodities. ECIF and Aavishkara hosted ‘Prison break’ where the participants were faced with the classic ring-wire game which tested their endurance. Vidyuth and ANC organized ‘Funology’ in which the teams had to crack puzzles to obtain the values of carbon resistances and solve for the truth tables of various logic circuits.

The PELS, PES, ComSoc and WIE chapters of IEEE put together a fun filled game titled ‘Breakthrough’, where the participants had to solve mazes, decrypt messages and use the solutions to complete a buzzer circuit. ACROM, Vyom and SAE organized ‘C. O. G.’ which involved constructing a rudimentary water transfer setup and a bot race. FACE and Sankhya conducted ‘Detective Quest’ which comprised of a treasure hunt and a game of tech taboo while JIDO hosted ‘Strong Arm’, an event which tested the mechanical basics of the participants. IEEE-RAS and Ingenium came together to host ‘Tech Sparks’ as a part of which the teams had to build a Da Vinci bridge, a self-supporting structure made of small wooden sticks.

The top three teams were selected for the flagship event which arrived under the banner of ‘Stupid Theory’. Each team received a problem statement which proposed an unscientific theory and a power point presentation that contained a simple questionnaire. The solutions to the questions steered the teams towards a logical explanation that justified the ‘Stupid Theory’. Each team was required to give a 5-minute presentation on its cogitations and were judged based on the criteria of spontaneity and relevance to the topic.

The eventful day concluded with the declaration of winners and the organizing team thanking the faculty and students for their support.
Anantha Sayan 2nd Year, CSE

Raja Vijay 2nd Year, ECE

Maduvanth 2nd Year, ME

Vishnu 2nd Year, ME

Ashwin Sainath 2nd Year, ECE

Arun Kumar 2nd Year, MEE

Harish Bala 2nd Year, ME

Suresh 2nd Year, ME
Sai Tejesh
II Year, CSE
Device: Canon EOS 700D
ISO: 200
Shot: 1/400 sec. f/5.6 250 mm

Uncharted Waters

Krishna Chandan
III Year, MEE
Device: Oneplus A5000
ISO: 160
Shot: 1/1250 sec. f/1.7 4.103 mm

Retro Hues

Vishal
II Year, CSE
Device: Moto G (5S) Plus
ISO: 103
Shot: 1/4000 sec. f/2 3.59 mm

Heaven’s symphony
A Splash in Time

Abhik Parbhat
II Year, CSE
Device: Canon EOS 600D
ISO: 400
Shot: 1/250 sec. f/4.5 90 mm

Aurora Roaddealis

Sri Ram Kalyan
II Year, CSE
Device: Canon EOS 700D
ISO: 100
Shot: 1/160 sec. f/11 27 mm
Silver filigree

Dhakshana Sivakumar
III Year, EIE
Device: Nikon D3300
ISO: 800
Shot: 1/50 sec. f/5.6 52 mm

Dance of a Pluviophile

Krishna Vamsi P
II Year, CSE
Device: Nikon D5500
ISO: 200
Shot: 1/800 sec. f/7.1 300 mm
Flight of Freedom

Nikhil Pawar
III Year, ECE
Device: Canon EOS 700D
ISO: 300
Shot: 30 sec. f/22 135 mm

Hoop over the Horizon

Revanth Sai
I Year, ECE
Device: Moto G5 Plus
ISO: 64
Shot: 1/640 sec. f/1.7 4.28 mm

Krishna Vamsi P
II Year, CSE
Device: Nikon D5500
ISO: 200
Shot: 1/640 sec. f/6.3 300 mm

Turquoise in paradise
The bells of tradition

Sanjay Jain
IV Year, MEE
Device: Canon EOS 750D
ISO: 100
Shot: 30 sec. f/22 135 mm

The Holy Hearth of Hope

Revanth Sai
I Year, ECE
Device: Canon EOS 600D
ISO: 125
Shot: 1/100 sec. f/1.7 4.28 mm
Tranquil Nirvana

K. Saketh Ram
III Year, MEE
Device: Canon EOS 750D
ISO: 1250
Shot: 30 sec. f/22 135 mm

Surya Veera
I Year, CSE
Device: BLN-122
ISO: 50
Shot: 1/250 sec. f/2.2 3.83 mm

Match my flame

Sanjay Jain
IV Year, MEE
Device: Canon EOS 600D
ISO: 400
Shot: 1/250 sec. f/4.5 90 mm

Bridge the horizons
Basketball Team - Boys

Basketball Team - Girls
Volleyball Team - Boys

Volleyball Team - Girls
Throwball Team

Handball Team
Chess Team

Swimming Team
Weight lifting Team

Body building Team
Hockey Team

Cross Country
Kriti Editorial Team

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"Coming together is a beginning. Keeping together is progress. Working together is success." -- Henry Ford
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GRADUATION DAY

Until he found answers, in an epiphany he awaited, surrounded by mortarboard bearing scholars,
For he became cognizant of his metamorphosis
Into someone circumspect, cogitative, and cautious.

Recurring thoughts seldom perturbed him, but one tormented him every dawn,
Shunting him to places he had never been, engulfed by raucous cries questioning his competency.
He reminisced the person he once was, blunt, boisterous, and blithe, but as time progressed,
Shoulders drooped, burdened with expectations concomitant of consistency and promise.
With forbearance as companion, he encountered growth, refinement, and accomplishment,
Never distressed over ephemeral complications, he marched ahead with fortitude.

- J. Sesha Sai Rakesh
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