



DYNAMICS

2020

ATME
College of
Engineering

VOLUME



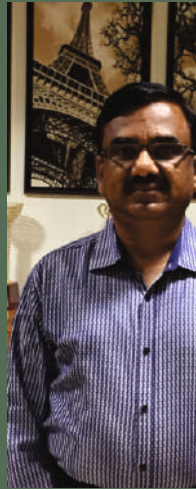
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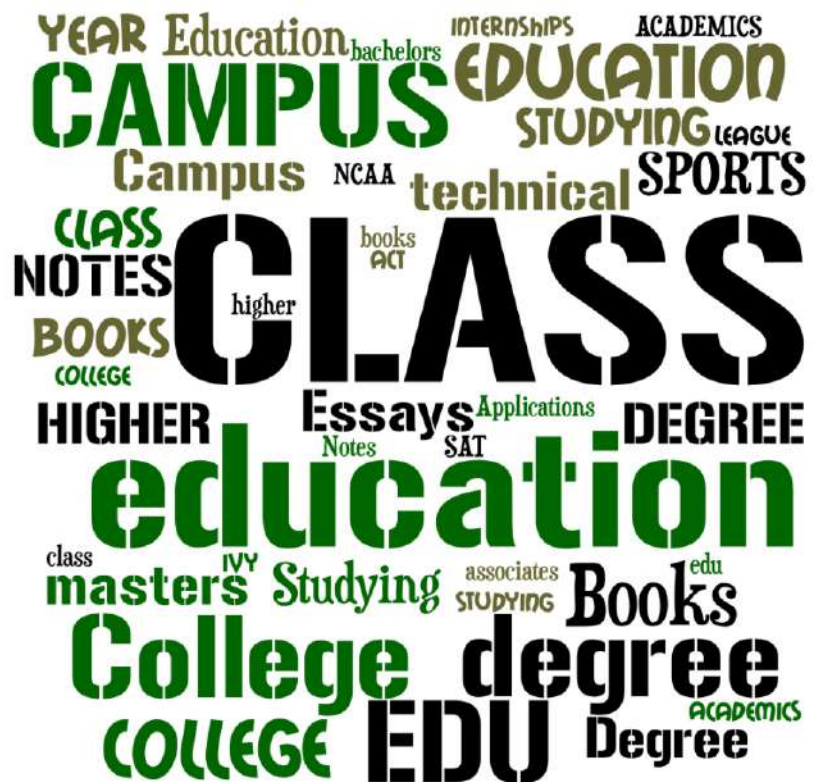
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Homi Jehangir Bhabha
(October 30, 1909 – January 24, 1966)

Homi J. Bhabha

Homi Jehangir Bhabha, FRS (30 October 1909 – 24 January 1966) was an Indian nuclear physicist, founding director, and professor of physics at the Tata Institute of Fundamental Research (TIFR). Colloquially known as "Father of Indian nuclear programme", Bhabha was also the founding director of the Atomic Energy Establishment, Trombay (AEET) which is now named the Bhabha Atomic Research Centre in his honour. TIFR and AEET were the cornerstone of Indian development of nuclear weapons which Bhabha also supervised as director.

Homi Bhabha was awarded the Adams Prize (1942) and Padma Bhushan (1954). He was also nominated for the Nobel Prize for Physics in 1951 and 1953–1956.

Early life and education

Homi Jehangir Bhabha was born into a prominent wealthy Parsi family, through which he was related to businessmen Dinshaw Maneckji Petit. He was born on 30 October 1909. His father was Jehangir Hormusji Bhabha, a well known Parsi lawyer and his mother was Meheren. He received his early studies at Bombay's Cathedral and John Connon School and entered Elphinstone College at age 15 after passing his Senior Cambridge Examination with Honours.

He then attended the Royal Institute of Science in 1927 before joining Caius College of Cambridge University. This was due to the insistence of his father and his uncle Dorabji, who planned for Bhabha to obtain a degree in mechanical engineering from Cambridge and then return to India, where he would join the Tata Steel or Tata Steel Mills in Jamshedpur as a metallurgist.

Further studies

Bhabha's father understood his son's predicament, and he along with his wife agreed to finance his studies in mathematics provided that he obtain first class on his Mechanical Sciences Tripos exam. Bhabha sat the Tripos exam in June 1930 and passed with first class honours. Meanwhile, he worked at the Cavendish Laboratory while working towards his PhD degree in theoretical physics. At the time, the laboratory was the centre of a number of scientific breakthroughs. James Chadwick had discovered the neutron, John Cockcroft and Ernest Walton transmuted lithium with high-energy protons, and Patrick Blackett and Giuseppe Occhialini used cloud chambers to demonstrate the production of electron pairs and showers by gamma radiation. During the 1931–1932 academic year, Bhabha was awarded the Salomons Studentship in Engineering. In 1932, he obtained his first-class on his Mathematical Tripos and was awarded the Rouse Ball travelling studentship in mathematics. During this time, nuclear physics was attracting the greatest minds and it was one of the most significant emerging fields as compared to theoretical physics, the opposition towards theoretical physics attacked the field because it was lenient towards theories rather than proving natural phenomenon through experiments.

Conducting experiments on particles which also released the enormous amounts of radiation, it was a lifelong passion of Bhabha, and his leading-edge research and experiments brought great laurels to Indian physicists who particularly switched their fields to the nuclear physics, one of the most notable being Piara Singh Gill.

Work in nuclear physics

In January 1933, Bhabha received his doctorate in nuclear physics after publishing his first scientific paper, "The Absorption of Cosmic radiation". In the paper, Bhabha offered an explanation of the absorption features and electron shower production in cosmic rays. The paper helped him win the Isaac Newton Studentship in 1934, which he held for the next three years. The following year, he completed his doctoral studies in theoretical physics under Ralph H. Fowler. During his studentship, he split his time working at Cambridge and with Niels Bohr in Copenhagen. In 1935, Bhabha published a paper in the Proceedings of the Royal Society, Series A, in which he performed the first calculation to determine the cross section of electron-positron scattering. Electron-positron scattering was later named Bhabha scattering, in honour of his contributions in the field.

In 1936, with Walter Heitler, he co-authored a paper, "The Passage of Fast Electrons and the Theory of Cosmic Showers" in the Proceedings of the Royal Society, Series A, in which they used their theory to describe how primary cosmic rays from outer space interact with the upper atmosphere to produce particles observed at the ground level. Bhabha and Heitler then made numerical estimates of the number of electrons in the cascade process at different altitudes for different electron initiation energies. The calculations agreed with the experimental observations of cosmic ray showers made by Bruno Rossi and Pierre Victor Auger a few years before. Bhabha later concluded that observations of the properties of such particles would lead to the straightforward experimental verification of Albert Einstein's theory of relativity. In 1937, Bhabha was awarded the Senior Studentship of the 1851 exhibition, which helped him continue his work at Cambridge until the outbreak of World War II in 1939.

Career

Starting his nuclear physics career in Britain, Bhabha had returned to India for his annual vacation before the start of World War II in September 1939. War prompted him to remain in India and he accepted a post of reader in physics at the Indian Institute of Science in Bengaluru, headed by Nobel laureate C.V. Raman. During this time, Bhabha played a key role in convincing the Congress Party's senior leaders, most notably Jawaharlal Nehru who later served as India's first Prime Minister, to start the ambitious nuclear programme. As part of this vision, Bhabha established the Cosmic Ray Research Unit at the Institute, began to work on the theory of point particles movement, while independently conducting research on nuclear weapons in 1944. In 1945, he established the Tata Institute of Fundamental Research in Bombay, and the Atomic Energy Commission in 1948, serving as its first chairman. In 1948, Nehru led the appointment of Bhabha as the director of the nuclear program and tasked Bhabha to develop the nuclear weapons soon after. In the 1950s, Bhabha represented India in IAEA conferences,

and served as President of the United Nations Conference on the Peaceful Uses of Atomic Energy in Geneva, Switzerland in 1955. During this time, he intensified his lobbying for the development of nuclear weapons. Soon after the Sino-Indo war, Bhabha aggressively and publicly began to call for the nuclear weapons.

Bhabha gained international prominence after deriving a correct expression for the probability of scattering positrons by electrons, a process now known as Bhabha scattering. His major contribution included his work on Compton scattering, R-process, and furthermore the advancement of nuclear physics. He was awarded Padma Bhushan by Government of India in 1954. He later served as the member of the Indian Cabinet's Scientific Advisory Committee and provided the pivotal role to Vikram Sarabhai to set up the Indian National Committee for Space Research. In January 1966, Bhabha died in a plane crash near Mont Blanc, while heading to Vienna, Austria to attend a meeting of the International Atomic Energy Agency's Scientific Advisory Committee.

Atomic energy in India

When Homi Jehangir Bhabha was working at the Indian Institute of Science, there was no institute in India which had the necessary facilities for original work in nuclear physics, cosmic rays, high energy physics, and other frontiers of knowledge in physics. This prompted him to send a proposal in March 1944 to the Sir Dorabji Tata Trust for establishing 'a vigorous school of research in fundamental physics'. In his proposal he wrote:

There is at the moment in India no big school of research in the fundamental problems of physics, both theoretical and experimental. There are, however, scattered all over India competent workers who are not doing as good work as they would do if brought together in one place under proper direction. It is absolutely in the interest of India to have a vigorous school of research in fundamental physics, for such a school forms the spearhead of research not only in less advanced branches of physics but also in problems of immediate practical application in industry. If much of the applied research done in India today is disappointing or of very inferior quality it is entirely due to the absence of sufficient number of outstanding pure research workers who would set the standard of good research and act on the directing boards in an advisory capacity ... Moreover, when nuclear energy has been successfully applied for power production in say a couple of decades from now, India will not have to look abroad for its experts but will find them ready at hand. I do not think that anyone acquainted with scientific development in other countries would deny the need in India for such a school as I propose. The subjects on which research and advanced teaching would be done would be theoretical physics, especially on fundamental problems and with special reference to cosmic rays and nuclear physics, and experimental research on cosmic rays. It is neither possible nor desirable to separate nuclear physics from cosmic rays since the two are closely connected theoretically.

The trustees of Sir Dorabji Jamsetji, Tata Trust, decided to accept Bhabha's proposal and financial responsibility for starting the Institute in April 1944. Bombay was chosen as the location as the Government of Bombay showed interest in becoming a joint founder of the proposed institute. The institute, named Tata Institute of

Fundamental Research, was inaugurated in 1945 in 540 square meters of hired space in an existing building. In 1948 the Institute was moved into the old buildings of the Royal Yacht club.

When Bhabha realised that technology development for the atomic energy programme could no longer be carried out within TIFR he proposed to the government to build a new laboratory entirely devoted to this purpose. For this purpose, 1200 acres of land was acquired at Trombay from the Bombay Government. Thus the Atomic Energy Establishment Trombay (AEET) started functioning in 1954. The same year the Department of Atomic Energy (DAE) was also established. He represented India in International Atomic Energy Forums, and as President of the United Nations Conference on the Peaceful Uses of Atomic Energy, in Geneva, Switzerland in 1955. He was elected a Foreign Honorary Member of the American Academy of Arts and Sciences in 1958.

Nuclear power programme

Bhabha is generally acknowledged as the father of Indian nuclear power. Moreover, he is credited with formulating a strategy of focussing on extracting power from the country's vast thorium reserves rather than its meagre uranium reserves. This thorium focused strategy was in marked contrast to all other countries in the world. The approach proposed by Bhabha to achieve this strategic objective became India's three stage nuclear power programme.

Bhabha paraphrased the three-stage approach as follows:

The total reserves of thorium in India amount to over 500,000 tons in the readily extractable form, while the known reserves of uranium are less than a tenth of this. The aim of long range atomic power programme in India must therefore be to base the nuclear power generation as soon as possible on thorium rather than uranium... The first generation of atomic power stations based on natural uranium can only be used to start off an atomic power programme... The plutonium produced by the first generation power stations can be used in a second generation of power stations designed to produce electric power and convert thorium into U-233, or depleted uranium into more plutonium with breeding gain... The second generation of power stations may be regarded as an intermediate step for the breeder power stations of the third generation all of which would produce more U-238 than they burn in the course of producing power.

Death

Bhabha died when Air India Flight 101 crashed near Mont Blanc on 24 January 1966. A misunderstanding between Geneva Airport and the pilot about the aircraft position near the mountain is the official reason of the crash.

Assassination claims

Many possible theories have been advanced for the air crash, including a claim the Central Intelligence Agency (CIA) was involved in order to paralyse India's nuclear program. An Indian diplomatic bag containing calendars

and a personal letter was recovered near the crash site in 2012.

Gregory Douglas, a journalist who conducted telephone conversations with former CIA operative Robert Crowley for four years, published a book called *Conversations with the Crow*. Douglas claims that Crowley implied the CIA was responsible for assassinating Homi Bhabha, as well as Indian Prime Minister Lal Bahadur Shastri in 1966, thirteen days apart, with the intention of thwarting India's nuclear programme. Crowley reportedly said that a bomb in the cargo section of the plane exploded mid-air, bringing down the commercial Boeing 707 airliner in Alps with few traces, saying "We could have blown it up over Vienna but we decided the high mountains were much better for the bits and pieces to come down on".

Legacy

Bhabha on a 1966 stamp of India

After his death, the Atomic Energy Establishment at Mumbai was renamed as the Bhabha Atomic Research Centre in his honour. In addition to being an able scientist and administrator, Bhabha was also a painter and a classical music and opera enthusiast, besides being an amateur botanist. He is one of the most prominent scientists that India has ever had. Bhabha also encouraged research in electronics, space science, radio astronomy and microbiology.

Bust of Bhabha at Birla Industrial & Technological Museum, Kolkata

The famed radio telescope in Ooty, India was his initiative, and it became a reality in 1970. The Homi Bhabha Fellowship Council has been giving Homi Bhabha Fellowships since 1967. Other noted institutions in his name are the Homi Bhabha National Institute, an Indian deemed university and the Homi Bhabha Centre for Science Education, Mumbai, India.

At Bhabha's death, his estate including Mehrangir, the sprawling colonial bungalow at Malabar Hill where he spent most of his life, was inherited by his brother Jamshed Bhabha. Jamshed, an avid patron of arts and culture, bequeathed the bungalow and its contents to the National Centre for the Performing Arts, which auctioned the property for Rs 372 crores in 2014 to raise funds for upkeep and development of the centre. The bungalow was demolished in June 2016 by the owner, Smita-Crishna Godrej of the Godrej family, despite some efforts to have it preserved as a memorial to Homi Bhabha.

- Editorial Board

Mr Arun Kumar L **Chairman**



Message

It gives me great pleasure to convey my best wishes for 7th edition to DYNAMICS, the annual college magazine of ATME College Engineering.

College Magazine is a mirror to the youth mind. I am proud to see that our students are not just academically good but also sound at literature, poetry, art work, photography and sensible to social issues.

We, at ATME College of Engineering are committed for the development of academically excellent, culturally vibrant, socially responsible and globally competent human resources. I am sure that the contents of this magazine complement. I hope this this magazine will provide us the benchmark for continued improvement in all-round development of the college.

This magazine should be a source of guidance for faculty and prospective students in selecting activities of their interest in building their careers.

The entire editorial team of DYNAMICS deserves appreciation for their creativity, ingenuity and dedication in bringing out this great work.

Arun Kumar L

INSPIRATION



Dr Basavaraj L
Principal

Message

ATMECE has emerged as a prominent institute offering quality engineering education. All round continuous constructive changes in infrastructure and academic standards have helped us to build a brand name. We are able to achieve an enviable position due to the concerted efforts by the committed students, dedicated staffs and caring pragmatic management.

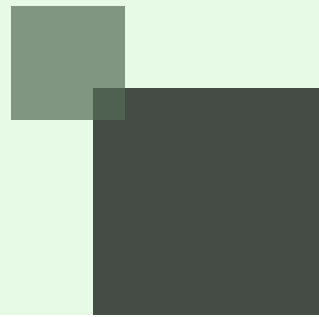
On behalf of Management and everyone, I wholeheartedly thank the editorial team of “Dynamics” for their untiring efforts in bringing out “Dynamics” 2020.

I wish the readers a happy reading.

Dr Basavaraj L

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EDITORIAL DESK

Greeting From The Editorial Committee.

To begin with, I wish to express my sincere gratitude to Chairman, Mr L Arun Kumar, who bestowed responsibility of a Chief Editor for the 7th time. On acceptance it was our ultimate goal to bring out the current issue in the enviable form. We stepped on to job by inducting the Student Coordinators, representing all branches, for the editorial team. At the new ideas, suggestion and enthusiasm of young minds, added to the vision of the editorial board has not only given a New look for the DYNAMICS but also magnum benefits. To reach and to be in touch with Alumni, a new section 'ALUMNI VOICE' has been introduced. I am convinced that each one has something wonderful to tell us and inspire youngsters.

DYNAMICS provides a Petrarch of the cultural, academic, sports and literary achievements of the college during the academic year. I would like to express my considerable appreciation to all authors of the articles in this issues DYNAMICS. This is truly literary & creative document of the talents of students.

I Thank the Whole hearted supports from Editorial team members at all stages. And the exceptional efforts of the Editorial team which are behind the success of this issues. I sincerely thank the Management, the Principle, Heads of all the department and all my colleagues.

It is My privilege to present one of the prestigious products of ATME to the intellectual minds.

Editorial Committee

Chairman

Dr L Basavaraj
Principal

Chief Editor

Dr.Puttegowda D
HOD,CS

Coordinators

Mrs.Nasreen Fathima
Dept of CSE

Mrs.Archana M R
Dept of CSE

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Mrs.Shruthi H G
Dept of CSE

Mr.Praveen Kumar
Dept of EEE

Mr.Md.Nadeem
Dept of ME

Mr.Kiran Kumar
Dept of BS

Mr.Nagappa T N
Dept of CSE

Women's Day-2020 ATME

ATME college of Engineering had organized series of events towards the celebration of International Women's Day for the Girls students and Faculty members of the Institution.

EVENT 1: QUIZ- "QUEEN-IZ" , 76 students participated in the event.



EVENT 2: Dhvani- SEMINAR on "WOMEN ACHIEVERS"



EVENT 3: THROWBALL - "ATME SPARKLERS", 44 students participated in the event.



EVENT 4: DANCE-"NRUTHYAM", 28 students participated in the event.



EVENT 5 : ETHNIC WALK-"SWABHIMAAN-CHAL", 10 students participated in the event.



Events conducted for faculty members

EVENT 1: "DUMB CHARADS" , 12 faculties participated in the event.



EVENT 2: ANTHYAKSHARI, 14 faculties participated in the event.



EVENT 3: RANGOLI, 10 faculties participated in the event.



EVENT 4: COOKING WITHOUT FIRE- on 6/2/2020, 6 faculties participated in the event.



International Women`s Day Celebration On 11/3/2020

“A woman is unmatched creation of universe which can’t be understood by logic Yes she is a woman Yet she can do anything like a Magic”. This is what the students of ATME College of Engineering expressed lovingly to their teachers, mothers and other women during the occasion of International Women’s Day on 11th March, 2020.

Srividya Nagaraju, TEDx Speaker, Bangalore

was the chief guest, Vidhushi Jayalakshmi Sudharma was the guest of honour, Veeresh R, Treasurer, ATMECE, Mysuru and Dr L Basavaraj, Principal presided over the function. Heads of various Departments, organizing chair Dr. Bhagyashree S R, Program coordinators Priyanka N B, Sneha N P, Shruthi H G, Darshini M B, Swapna H, Impana Appaji and Maria Sushma S and other faculty members were present.



During this occasion Mrs. Vidhushi Jayalakshmi Sampath Padmashree Awardee addressed the students. Smt. Jayalakshmi advised the students to be humble and to be affectionate with family members.



‘Sudharma’ being the only Sanskrit daily in the world, is a pride of Mysuru. This year, Sudharma is celebrating its golden jubilee celebrations. Sudharma is founded on July 15, 1970 and this newspaper has the circulation of over 3500 copies.

Many organizations have felicitated Smt. Vidhushi Jayalakshmi Sampath and to name a few, Vachana Sahitya Parishat, Malabar Golds, Akhila Karnataka Brahmana sabha, Bangalore, Jayachamaraja wadeyar Shatamanotsava at JSS, SBI Training center, Parampare, Maharani`s college, Mandovi motors, Mukta Sahitya academy, Kannada Chaluvalli etc.

Srividya, a TEDx speaker is an internationally acclaimed facilitator, pioneering effective learning using various techniques for skill and behavior improvement. She has 24 years of experience in the corporate and social sector to invigorate and humanize her sessions.

Srividya has vast experience in formulating and delivering training modules People skills and behavior – Leadership, Working Together, Women Development, Diversity, POSH etc., Her emphasis has been on bringing a transformational change through insightful experience.

From keynote speeches to trainings, Sri is one of the most sought-after name in the corporate Industry. Sri has worked with Thomson Reuters, Karvy Computershare, Havya Technologies (an Entrepreneurial venture) in Learning & Development and Operations. She has been interviewed on TV and Radio channels across the world.

She was a management Committee member of IIMB Alumni Association. Has organized a Leadership Event with Dr. APJ Abdul Kalam, former President of India as key note speaker at IIMB among others.

During the programme Chief Guest Srividya Nagaraju addressed students about the

strength that women should possess to face the problems in life. She educated them on the various approaches that they can adopt to face the real time challenges. She explained students the ways to overcome stage fear with the help of a demonstration. She advised students to face problems with confidence and boldness and not to run away from problems.



On this great Occasion, our organization felicitated our Chief Guest Srividya Nagaraju & Guest of Honour Smt. Vidhushi Jayalakshmi Sampath, Padmashree Awardee, Sudharma Sanskrit Daily Mysuru. Smt. Vidhushi Jayalakshmi Sampath has been recently conferred Padma Shri award by Government of India, marking Republic Day celebrations.



The programme got conclude with Vote of Thanks.



DEPARTMENT OF BASIC SCIENCE

DEPARTMENT OF PHYSICS

Science is the basis for Engineering & Technology. The present technologies are due the contribution and discoveries in science. The discoveries in science are gradually upgraded and transformed in to technology over decades. Technology is built on the pillars of Science. Physics is a branch of science which deals with nature and broadly we can say its the “nature”. The events in the nature are understood through the careful observation and logical reasoning. Department of Physics was established in the year 2010 with a optimal infrastructure and decorous learning ambiance. The working area of the department is 275 sq.m consisting of well equipped and spacious laboratory, dark room facility for optics experiments, best quality modular experimental setups and necessary IT infrastructure. The department has individual space for HOD and Staff. Department of Physics offers training in Engineering Physics and Engineering Physics Laboratory, conforming to the VTU

Curriculum, to the students of first year engineering pertaining to all programmes.

The staff of the department are highly involved and dedicated. The department works as a unit and strives to achieve the academic welfare. The department also thrives to nurture the skills in students. The average work experience of teaching staff of the department is around 15 years. Department of Physics is practicing OBE by incorporating various contemporary concepts like flipped classroom, virtual class room and online classroom in addition to the conventional classroom. Department has ingeniously designed and setup most experiments making it easier for the students understand the physical concepts precisely. The Department of Physics has established a research center and is recognized by Visveswaraya Technological University. The research activities in the research center are initiated in the field of Tribology and its necessary instrumentation.

Faculty

Sl.No.	Name	Designation	Experience
1	Dr. Mahesh Lohith K S	Associate Professor & Head	22 Years
2	Mr. Ramachandra M N	Assistant Professor	16 Years
3	Mrs. Rani T	Assistant Professor	10 Years
4	Mr. Nandan P	Assistant Professor	13 Years

Supporting Staff

Sl.No.	Name	Designation	Experience
1	Mr. Sannappa	Assistant Instructor	9 Years
2	Mr. Manjunatha M G	Attender	6 Years

Department of Chemistry

“The country which is in advance of the rest of the world in chemistry will also be foremost in wealth and in general prosperity”.

- WILLIAM RAMSAY, 1852 TO 1916

The Department of Chemistry welcomes students seeking to familiarize themselves with the fundamentals of chemistry, as well as those who intend to pursue professional careers in the field. Chemistry is closely linked to all levels of human activity (diet, clothing, housing, transportation, health...), and understanding its language is vital to address current and future social and economic challenges.

Chemistry is a unique field that is both an academic subject and an industry in its own right. Future engineers and researchers may thus pursue careers in any chemistry-related field, such as: pharmaceuticals and analysis of biological compounds, materials for

converting and stocking solar energy, analysis of pollutants and chemical analysis procedures for the environment, and new technologies in communications and information, in relation to materials and electrical components. The Department of Chemistry thus trains high-level, polyvalent professionals who are skilled in research, development, and production across the entire spectrum of the chemical industry.

The Department of Chemistry at ATME College of Engineering, offers both theoretical and practical disciplines. Chemistry is basic in the studies of Engineering and technology. The Department has close cooperation with disciplines with all branches of Engineering. The department of chemistry is well known for its excellence in teaching and research. The faculty members of the department are well qualified and engaged in state of the art research as well as guiding the Engineering and Ph.D. Students.

About the Research centre

The department of chemistry obtained the status of research center in the year 2014 with two eligible research guides Dr. Mohammed Eliyas & Dr. Avinash. K. Presently four students are working as full-time research scholar at the research center and our faculty Mr. Kiran kumar P submitted his thesis.

The research lab is provided with vast area for wet lab operation and separate working place for dry lab. Both the places are well equipped with working tables, sufficient numbers of computers, Wi-Fi internet and other facilities such as glassware and numerous chemicals for smooth conduct of experiments.

Students and research Scholars are provided access to various journals like Elsevier, Springer, Taylor & Francis and many more. Recently we

have introduced the microbiological lab for the inhibitory studies of microorganisms with respect to bacteria and fungus. The research lab is equipped with many sophisticated Equipment's that are listed below.

- Single beam UV-Visible Spectrophotometer & Visible Spectrophotometer
- Rotovaccum Evaporator
- Muffle furnace with temperature range of 500° C – 1500° C
- BOD incubator 0° C - 100° C, Microbiological incubator 0° C – 60° C.
- Hot air oven upto 400° C,
- Four digit weighing balance
- UV chamber
- Autoclave
- Centrifuge
- Magnetic stirrers
- Hot plates.
- Distilled water plant.
- Microwave oven

Faculty

Sl.No.	Name	Designation	Experience
1	Dr. Mohamed Eliyas	Associate Professor & Head	21 Years
2	Dr. Avinash K	Assistant Professor	14 Years
3	Mr. Kiran Kumar P	Assistant Professor	11 Years

Supporting Staff

Sl.No.	Name	Designation	Experience
1	Mr. Sharath Babu R	Lab Instructor	35 Years
2	Mr. ShivannaNayaka S	Attender	6 Years

Events conducted in Department of Chemistry

ATME science fiesta-2k19

Basic sciences and Humanities department in association with "Innovation club" gave proposal to conduct "ATME SCIENCE FIESTA-2K19" organized by 1st year BE students on 20-12-2019. The objective of the program is to bring the PU College science students to our college and attract towards

engineering education. The events are decided by taking suggestions from faculties, HoD's, Principal and Management. Based on the suggestions 6 events are finalized. They are (1) Science Quiz (2) Technical Project (3) Pencil sketch (4) Spot Photography (5) Essay Writing (6) Poster Presentation. The participating students are rewarded with cash prize and certificate. Also, it is decided to celebrate "Open Day" for the visitors.

Around 700 students from various PU colleges from Mysore, Mandya, Chamarajnagar and Kodagu district participated and made the event successful.



Department of Mathematics

Mathematics expresses values that reflect the cosmos, including orderliness, balance, harmony, logic, and abstract beauty.

Bridge courses are conducted for Diploma Students. Needy students are identified and special classes are conducted for them to perform well. As a result of the sincere effort of the team, the department has been consistently obtaining good results but yet to reach the coveted 100% mark.

Ms. Sowmya K has joined in September 2019 and Ms. Bhanu Priya J has joined the Mathematics department as an Assistant Professor in February 2020.

Four journals published from Mathematics department.

Mathematics department staff

Sl.No.	Name	Qualification	Designation
1	Mr. Sudhakar N	M.Sc, M.Phil	Asst. Professor, Incharge HoD
2	Mr. Madhusudhan K V	M.Sc (PhD)	Asst. Professor
3	Mrs. Priyanka N B	M.Sc (PhD)	Asst. Professor
4	Mrs. Divya K	M.Sc, M.Phil	Asst. Professor
5	Ms.Sowmya K	M.Sc	Asst. Professor
6	Ms. Bhanu Priya J	M.Sc	Asst. Professor

1st Year Topper's List in Academic Year - 2018-19

Sl.No.	USN	Student Name	SGPA		Average	Branch
			1st Sem	2nd Sem		
1	4AD18CS072	SHASHANK K	9.70	9.55	9.63	CSE
2	4AD18CS047	NISARGHA P	9.00	8.60	8.80	CSE
3	4AD18ME027	MOHAMMED JEELANI H	8.05	7.75	7.90	ME
4	4AD18ME055	VAIBHAV G JAGANNATH	7.60	7.85	7.73	ME
5	4AD18EC057	SHEETHAL K ATHREYA	9.60	9.90	9.75	ECE
6	4AD18EC071	VAISHNAVI G	9.00	8.85	8.93	ECE
7	4AD18EE003	AISHWARYA M	8.70	8.50	8.60	EEE
8	4AD18EE022	PRAVEENGOWDA SB	8.75	8.15	8.45	EEE
9	4AD18CV003	AMRUTHA M	8.80	9.25	9.03	CV
10	4AD18CV016	MK NAYANA	8.85	8.40	8.63	CV

Basic research is what I am doing when I **don't know what I am doing.**

– *Wernher von Braun*

AZ QUOTES



“

Research is to see what everybody else has seen, and to think what nobody else has thought.

Albert Szent-Györgyi

“

Everything is theoretically impossible, until it is done.

Robert A. Heinlein

DEPARTMENT OF CIVIL ENGINEERING

One of the oldest and broadest engineering disciplines, Civil Engineering includes making plans, designing, building, preserving and supervising infrastructures which consist of centers essential to trendy existence like highways, bridges and tunnels, colleges, hospitals, airports and different homes, sewage systems and water treatment facilities. Subsequently, the path additionally entails protecting the public and environmental fitness as well as enhancing current infrastructure.

The Civil Engineers' positions range from supervisory to administrative job, from Site engineer to Project managers, from design and analysis to construction works. The major specialisations within Civil Engineering are Structural Engineering, Environmental Engineering, Water resources Engineering, Construction Technology, Transportation Engineering and Management, Infrastructure Engineering Management, Geo-technical engineering, Remote Sensing and GIS, Highway Technology, Computer Aided Design of

structures.

The Civil Engineering Department was established in the year 2011.

The Department offers B.E program in Civil Engineering with a yearly intake of 60 students. A group of qualified faculty with adequate experience is the highlight of the department. The department has qualified faculty members occupied with educating and research having perfection in various fields. The faculty members are youthful, dynamic and prepared to meet the academic needs of undergraduates. A number of 'Faculty Development Programs' are conducted regularly to inculcate the technical skills, soft skills and the research. Further, the department encourages the students to participate in external and internal conferences, workshops, invited lectures and seminars along with extra-curricular/co-curricular activities like technical fests, sports/games, cultural fests, Annual Alumni Meet, to ensure overall development, nurturing of team spirit and organizational skills.

The main objective of the B.E graduate program in Civil Engineering is to give the undergraduates excellent comprehension arrangements in a global, societal and ecological putting, consistent with the standards of sustainable improvement. Department actively engages in enriching career path of the students. The department in association with BAI, IGBC organises internship, workshop and seminars for the students and also works in association with Training and placement department. Department encourages the active participation of students in Placement and E-cell activities, Industrial visits and Inter college events like quiz, Model making etc.,

Department Activities

Inaugural of IGBC Student Chapter

IGBC Student chapter was inaugurated in the Department of Civil Engineering, ATMECE. Mr. Ramesh S Kikkeri, Co Vice Chairman of IGBC inaugurated IGBC Student Chapter in the Civil Department jointly with Dr. L Basavaraj, principal of ATMECE.



One day Technical Festival Datum-2K19

Department of Civil Engineering organized a one day technical festival DATUM-2K19 on 12.04.2019. Around 100 Students Intra colleges also participated in technical fest and it consists of various technical and non-technical events, viz, Cadd tracing, Treasure hunt, Creative Construction, Quizzie, Tik-Tok, Super minute and Photography.



Industry Outreach Program on “Practical Approach to Construction Technology” (ACCE)

Association of Consulting Civil Engineers (India) and Department of Civil Engineering jointly organized Industry outreach program on “Practical Approach to Construction technology” on 30.04.2019 for final year students.



One day Technical Talk on “Recent Trends in Structural Engineering and it's relevant in structures”

Department of Civil Engineering organized one day technical talk on “Recent Trends in Structural Engineering and it's relevant in structures” on 27.09.2019 for seventh sem students. Dr.Raghavendra Prasad, Managing Director, Bhamys Construction, Mysuru, delivered about latest trends adopted in construction field.



One day Technical Talk on “Primavera by Infinity PMC”

Department of civil engineering organized technical talk on “Primavera by infinity PMC” to 7thsem students on 23/10/19. Mr. Prashanth C technical manager of infinity PMC spoke on complete application of this versatile software primavera. Planning, Monitoring (done by site planning

engineer), Controlling, Reporting were the core content of the presentation.

Over viewing, growing importance in construction industry, scheduling operating carried out during construction process, area of focus, people & process involved in construction industry were briefly presented during the presentation.



One day Technical Talk on “Fundamentals of admixture in concrete”

Department of Civil Engineering organized one day technical talk on “Fundamentals of admixture in concrete” to 5thSem students on 13.11.2019. Mr. Prasanna kumar P, Assistant manager, BASF India limited construction chemical division, Bangalore, delivered technical talk on importance of admixture in concrete.



A Report of One Day Workshop on Virtual Labs

ATME College of Engineering, Mysuru also a Nodal Centre for Virtual Labs in Mysuru had organized a one-day work shop on VIRTUAL LABS in association with NIT-K Surathkal. It is a Govt. of India, MHRD initiative to enhance Teaching and Learning Experience. The Workshop was organised jointly by Department of Mechanical Engineering and Department of Civil Engineering.

The Workshop was inaugurated by Dr. Basavaraj L, Principal, ATMECE. In his inaugural address appreciated the efforts taken by all concerned and expressed that, it is going to help students in better understanding of the topics learnt. Dr. Ratnakar G, Prof. & HOD, Department of Mechanical Engineering gave a brief introduction about the Workshop. Prof. Manuvijay, HOD, Civil Engineering Department was present during the occasion.

Faculty members of ATME College of Engineering Prof. Thejkumar J, Prof. Srivatsa H U, Prof. Impana Appaji, Prof. Abhilash, Prof. Shalini and Prof. Rajesh were the resource persons of the workshop.



Student Interaction Program Themed "REAL ESTATE-FUTURE THOUGHT" Organised by NAREDCO, Mysuru

Students of department of civil engineering participated in a Student Interaction Program Organised by NAREDCO on 24.09.2019 at Hotel Radisson blue, Mysuru. The program was intended for promoting a interaction of students with industry stalwarts there by providing the making students aware of what is expected in industry by them.

Chief guest of the function Dr. Niranjana Hiranandani addressed the gathering .In his speech, he said "The graduates should take up such works which provide satisfaction and happiness". He also insisted that graduates should seek opportunities in our home town rather than seeking it somewhere else. He then added 'one has to be good with the basics and be ready to learn new things with changing times'.

The program also included discussions on the practical applicability of new products developed and on minimizing the gap between academics and the real practice by starting an industry interaction program comprising students of different colleges of Mysore. Ms. Chandana of civil engineering dept. was elected as member of the committee for conducting the interaction programs at college level in the future.



Extensive survey – Academics outside the wall

As a part of curricular, Department of Civil Engineering conducted Survey Camp for 3rd year students and as compulsory part of the University academic curriculum. Karighatta is a different terrain comprising of both flat and gradient land. This Camp was aimed to groom Civil Engineering students with essential knowledge and to expose them to the real work, road work, bund construction, urban planning and water supply connection for the network.



Industrial Visit to Corporate – Technology and Engineering Academy

Department of Civil Engineering Organized Industrial visit to Corporate – Technology and Engineering Academy C – TEA L & T, Mysuru for 5th semester students on September 6th 2019. C-TEA is the training academy which is located in Mysuru. To integrate with all their L&T businesses and to achieve their strategic goals through competency building, by providing programs designed with high quality contents and delivered by the best of faculties adopting robust training processes which helps students to build their carrier.



Engineering Academy C – TEA L & T, Mysuru for 5th semester students on September 6th 2019. C-TEA is the training academy which is located in Mysuru. To integrate with all their L&T businesses and to achieve their strategic goals through competency building, by providing programs designed with high quality contents and

Quantity Surveying and Estimation

The final year students, A Nikith, Anil G N and Alen Joe Fletcher participated in two day workshop on “Quantity Surveying and Estimation” Organised by L & T Corporate-Technology and Engineering Academy, KIADB Industrial Area, Mysuru on 11.11.2019 to 12.11.2019.

Awareness Programme at Department of Civil Engineering

ATME college of Engineering had taken initiative for Plastic Free Zone campus. In this regard, the students were addressed about Plastic free zone and later students also took oath as part of responsibility. The students were addressed to create awareness about usage of plastics.



Students Activities (Internship)

Internship: 8th sem civil Student carried out their internship in DESIGN TREE CONSULTANTS under Mr. K. Srinivas Reddy Co-founder and Managing Director of Design Tree Service Consultants Pvt. Ltd. .To study the insight of project, they worked in from different ends from engineering end and also from contractor end.



Felicitation to Toppers by BAI, Mysuru

Supriya S and Jayashree T L of 8th sem Civil Engineering Department were felicitated by Builder's Association of India, Mysuru Chapter on 30th August 2019 at MBCT center Mysuru for scoring highest marks. Chief Guest Dr. S Thukaram, Vice President of BAI K. Sriram, Chairman of BAI B S Dinesh, Hon. Secretary of BAI R. Raghunath, Shilpi Co-ordinators, HOD's & staffs of various colleges, students & their parents witnessed the event.



Report on Swatch Bharath Abhiyan

"Cleanliness is next to Godliness" is a widespread proverb which means maintenance of cleanliness lead a person toward goodness and humanity. Civil department organized Programme on Cleanliness is next to Godliness in ATME College of Engineering, Mysuru on 11.09.2019. In emphasizing an ongoing procedure or set up habits for the purpose of maintenance and prevention, the concept of cleanliness differs from purity, which is a physical, moral, state of freedom from pollutants. Whereas purity is usually a quality of an individual or substance, cleanliness has a social dimension, or implies a system of interactions.



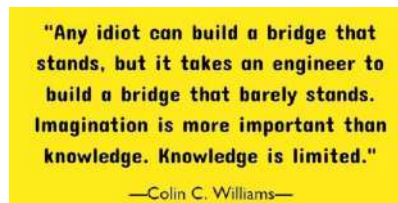
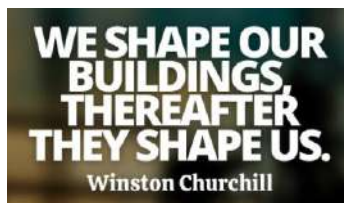
EVALUATION OF KSCST 42nd SERIES OF SPONSORED STUDENT PROJECT PROGRAMME (SPP) PROJECTS AT NODAL CENTRES

KSCST 42nd series of sponsored student project programme (SPP), projects evaluation process was held in ATME college of Engineering which was selected as one of the nodal centers in Mysuru at 10th may 2019. Civil engineering projects were evaluated at civil engineering department by Prof. V Jagannath, Former scientist, ISRO, Bengaluru and H. Hemanth Kumar, Executive Secretary, KSCST, Bengaluru.

SI.No.	USN	Student Name	Percentage (%)
II Year			
1	4AD17CV022	Naveen K	87.50
2	4AD17CV011	Divyashree G Raj	85.25
III Year			
1	4AD16CV023	Manoj S L	89.75
2	4AD16CV008	Anusha M S	87.38
IV Year			
1	4AD15CV043	Supriya S	87.47
2	4AD15CV017	Jayashree T L	86.73

Placed Students:

1. Harshitha K S- Sankalp Construction private limited, Mysuru
2. Madhura C - Infosys
3. Alen Joe Fletcher - Infosys
4. Jayashree T L – Pathak Developers private limited, Mysuru



DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

The Department of Computer Science & Engineering started in the year 2010. It is an evolving academic centre for higher education, research and novel in the key areas of Computer Science. It has been imparting quality education to meet the technological advancements and industrial requirements. The strength of students are progressively increasing every year and this is possible due to qualified and experienced faculties with excellent academic delivery process imparted. The first initiative taken by the department is "Computer Society of India - Student Branch", which is a professional body at National Level, in the year 2012, all the students have got enrolled as members to this branch. The department has obtained CSI institutional membership and maximum teaching faculties have become CSI life members and platform is provided for the students to enhance their technical skills by participating in various events conducted under this professional body.

MOU has signed between Geekslab Technologies Pvt.Ltd., Department has Centre of Excellence in networking -CISCO, by providing CCNA Certification to students in networking and all final and pre final year semester students have done internship under this programme. The Department has got library, which believes in sharing of knowledge in the form of books, the most novel way of building the young mind by technical and ethical knowledge for students. Department also conducts various workshops, technical talks, and CSI events to students to up skill their skills. Technical training and Aptitude training is delivered to students to improve in their placement activities. Students have published various papers on project and have been awarded the best paper presentation. Students actively involved in hackthons, sports, cultural and many intercollege events and have bagged prizes.

Workshop on Network Security

A one day workshop on Network Security Hands on Session was conducted in the Department of Computer Science and Engineering at ATME College of Engineering, Mysuru on 24th April 2019. The event was attended by 6th Semester students of the department and was conducted by Mr. Karthik from VSG Software solutions, Mysuru. The event was convened by Dr. Manjunath S S, Head Department of CSE and coordinated by Mr. Mohanesh B M and Mr Shrinivasa G, Assistant Professor in the Department of CSE.



As a part of this event fundamental concept of Network Security Hands on Session, the aim of the workshop is to understand how various attacks on software, system, and network work, what their fundamental causes are, how to defend against them, and how various defense mechanisms work.

During the Workshop students learnt how to prevent attacks on software, system, and network, what their fundamental causes are, how to defend against them, and how various defense mechanisms work in the hands on sessions.

Android App Development

The Computer Science and Engineering Department organized two day workshop on "**Android App Development**" for 5th sem students at ATME College of Engineering, Mysuru on 6th & 7th Nov 2019. The resource person was Pradhyumna, CEO,ATEU

softwares Mysuru.

Cisco Training



Department of Computer Science and Engineering organized Internship training to 7 sem students from July 10th to 26th 2019. Trained by Mr Anil Kumar B H, Mr Kiran B, Mrs Prakruthi S, Asst. Prof., Dept. of CSE. They trained and explained on network technologies. Explain how devices access local and remote network resources. Describe router hardware. Explain how switching operates in a small to medium-sized business network. Design an IP addressing scheme to provide network connectivity for a small to medium-sized business network. Configure initial settings on a network device. Implement basic network connectivity between devices and Configure monitoring tools available for small to medium-sized business networks. Packet Tracer exam, chapter exam and skill test was conducted.

Interview Skills Training

Department of Computer Science and Engineering organized a one day Technical Talk on "**Interview Skills Training**" on Feb 18th 2020 for 6th and 8th sem students. The resource person was Nithin Neelakanta Rao, Training Consultant, Outstanding 20, Mysuru.



Infy TQ

Training and Placement Cell conducted a Talk on "InfyTQ" to 6 sem students on Feb 13th 2020. Training was delivered by Mr Deepak M V S, Asst. Prof. Dept of Mechanical Engineering, TPO, ATMECE Mysuru.



Code Relay

The Computer Science and Engineering Department under Computer Society of India Division -1 and Computer Society of India Student Branch had organized a Intra Collegiate coding competition called "**Code Relay**" on **5th April 2019**, where many of the students from pre-final year and second year showed much of their interest in the event for the year 2018-19 .





The best way to prepare [to be a programmer] is to write programs, and to study great programs that other people have written. In my case, I went to the garbage cans at the Computer Science Center and I fished out listings of their operating systems.

— *Bill Gates* —

AZ QUOTES



Computer science is no more about computers than astronomy is about telescopes.

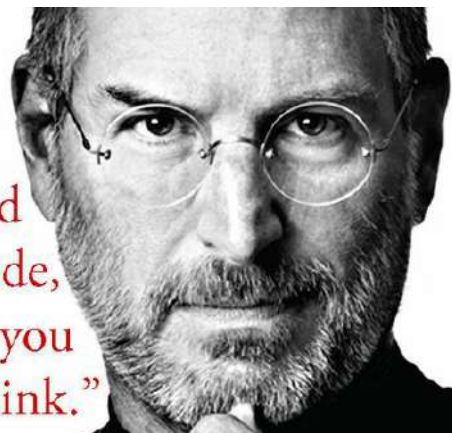
— *Edsger Dijkstra* —

AZ QUOTES

Steve Jobs

1955-2011

“Everyone should learn how to code, it teaches you how to think.”



DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

The Department of Electrical and Electronics Engineering is started in the year 2010 with an intake of 60 students. Presently about 185 students are on rolls from second to fourth year. The department is recognised as a research centre by Visvesvaraya Technological University (VTU), Belagavi to offer PhD and M Sc (Engg.) programs.

The Program Electrical and Electronics Engineering is NBA accredited for the Academic Year 2019-20 to 2021-22 i.e. upto 30-06-2022.

The department has well qualified and experienced faculty members with specialization in Power systems, Power Electronics, Energy Systems & Management, CAID, Bio-Medical Signal Processing & Instrumentation and VLSI Design & Embedded systems. All the laboratories relevant to the program are established as per VTU and department is highly committed to bring-in the state of art research laboratories to provide quality education for present challenging societal and industrial needs.

The faculties of the department are associated with professional bodies such as IEEE, ISTE, IEI

and IAENG. The department is involved in the research activities in the areas of Power systems, EMI/EMC, Artificial Intelligence. The department has spacious infrastructure with carpet area of 2025 Sq.m, providing sufficient space for lecture halls and laboratories.

HoD Message:

'Emitting Elite Energy'

The Department of Electrical & Electronics Engineering believes in imparting holistic education, where the student community is the focal point of the learning process. We offer a motivating environment for knowledge assimilation with a sense of social responsibility and human values. The prime attention is on Outcome Based Education (OBE) and Experiential Learning. The focus is on the activities to deliver outstanding theoretical knowledge base and in the development of technical and soft skills. We constantly assess our set-up for societal / industrial demand of skill sets for the students. We update and associate with training institutes to ensure that our students gain technical skills, thinking skills, analytical frameworks, interpersonal and communication skills.

Ms. Safeena Shazia (2011-2015) of our department has secured 8th rank in VTU. The VTU has recognized the department as a research centre to carry on research and masters programs. The experienced and qualified faculties are involved in the research activities in the following areas:

- Artificial Intelligence
- EMI & EMC.
- Power Systems.

Department Vision and Mission

Vision of the Department:

To create Electrical and Electronics Engineers who excel to be technically competent and fulfil the cultural and social aspirations of the society.

Mission of the Department:

- To provide knowledge to students that builds a strong foundation in the basic principles of electrical engineering, problem solving abilities, analytical skills, soft skills and communication skills for their overall development.
- To offer outcome based technical education.
- To encourage faculty in training & development and to offer consultancy through research & industry interaction.

Department Activities

Industrial visit to Techno power corporation, Bengaluru

The Department of Electrical & Electronics Engineering had organized Industrial visit to Techno power corporation, Bengaluru for VI semester students on 29th February 2020.

Techno Power Corporation is prominent manufacturers and suppliers of a wide assortment of Transformers, offers electronic transformers, electrical transformers, furnace transformers, power transformers, rectifier transformers, booster transformers, dry type transformers and distribution transformers.



Er. Ravi Kumar K and team took the students for a factory tour and explained the students the design, construction details of transformer, types of windings, Importance of coolant, Repair and maintenance of transformer and different type of testing was performed.

Industrial visit to Adarsha control system Pvt. Ltd., Bengaluru

The Department of Electrical & Electronics Engineering had organised Industrial visit to Adarsha control system Pvt. Ltd, Bengaluru for VI semester students on 29th February 2020.

Adarsha Control and Automation Pvt Ltd is in field of Process Automation, Instrumentation and control system Panel Building and Integration.

The Engineering team of Adarsha Control and Automation Pvt Ltd. explained the students on manufacturing of PLC & DCS

Panels, Control & Relay Panels, Intelligent & Motor Control, DG Synchronizing Panels and devices.



Industrial visit to Hootagalli substation, Mysuru

The Department of Electrical & Electronics Engineering had organised Industrial visit to 220kV/66 kV /11kV SRS Hootagalli substation, Mysuru for IV semester students on 29th February 2020 in order to provide a practical exposure of substation.



A substation is a part of an electrical generation, transmission, and distribution system. Sub-station serve as sources of energy supply for the local areas of distribution in which these are located. Their main functions are to receive energy transmitted at high voltage from the generating station reduce the voltage to a

value appropriate for local distribution and provide facility for switching.

Engineers at the substation explained to students the layout of substation, one line diagram, scada and various programming done in the control room and all the essential component of the 220kV/66 kV /11kV substation such as incoming feeders, Bus bars, Lightning Arresters, line isolators, wave trap, circuit breakers, Power transformers, Current Transformers, Potential Transformers, Protective relays, capacitor banks, capacitor voltage transformer, different kinds of insulators etc.

State Level Technical Project Exhibition

The Department of Electrical & Electronics Engineering, ATMECE had organised one day State Level Technical Project Exhibition under Department Association Quantum for all the Semesters on 11th May 2019, Total of 43 Projects in the final year category and 22 projects under Hobby Project category participated in the event. The event was judged by well Experienced Academicians from other colleges.

Project Titled, Automated Waste segregator with Composter by Harshitha BM, Abhijith M, Rohith PN and Sneha Lincy Sequera of ATMECE, Mysuru won the 1st place.

Project Titled, PLC controlled water bottle filling system by Thunga MN, Dashwitha S, Devika Rani K and Vishal P of ATMECE, Mysuru won the 3rd place.



Technical talk on “Smart Grid Initiatives in India”

The Department of Electrical & Electronics Engineering had organised Technical Talk on “Smart Grid Initiatives in India” for final & pre-final year students on 4th September 2019.

The talk was given by Er.Humeera Haneef, Assistant Executive Engineer, CESC, Mysuru and Er.Manju, Assistant Engineer, CESC, Mysuru the speakers Er.Humeera Haneef explained various smart grid components, associated technical challenges and smart grid initiatives in India.

Er.Manju, briefly presented some of the results obtained on Indian power grid network showing impact of large wind penetration and dynamic loads on system stability, along with planning of controls to improve the system stability under such scenario.



State Level Technical Fest “AVAGAMAH”

One day “State Level Technical Fest” was organised for EEE, ECE, and Instrumentation Technology branches of all semesters on 14th November 2019.

The events conducted are Hackathon- (comprised of 4 challenges, Round-1: Decode the Device, Round-2: Technical Cross Word, Round-3: Digital System Design, Round-4: Circuit Design) and Technical Treasure Hunt. More than 75 teams from various engineering colleges of Karnataka participated in the Event.



KSCST Best project of the year for ATMECE Students



Mr. Hemanth Kumar K, Ms. Fariya Shariff, Ms. Kausar Afreen Mr. Kiran Kumar M N of 8th Semester, Department of Electrical & Electronics Engineering, ATME College of Engineering, Mysuru Awarded Best Project of The Year For Their Titled “Design of Water Waste Collector by Seabin” Under The Guidance of Mr. Vinod Kumar P By KSCST-Student Project Programme (SPP) 42nd Series For Academic Year -2018-19 And Also Funded The Project.

In The Same Event Mr. Mahendra K P, Ms. Swathi L & Ms. Priynaka of 8th Semester Won Best Project of The Year for Project Titled “Eye Ball Motion Controlled Wheelchair for Tetraplegia” Guided By Mrs. Pooja M on The State Level

Seminar And Exhibition of 42nd Series of Spp, KSCST held At Belagavi.

Renewal of The Memorandum Of Understanding Between ATME College of Engineering, Mysuru and RMJ Automation Solutions & Training Pvt. Ltd., Mysuru

In order to promote collaboration between ATME College of Engineering, Mysuru and RMJ Automation Solutions & Training Pvt. Ltd., Mysuru, the Memorandum of Understanding was extended for a period of Two Years (Academic Year 2019-2020, 2020-2021).

Sports Achievement

Ms. Monica R (4AD15EE019), Ms. Pallavi K R(4AD16EE027) & Ms. Rachana Y L(4AD16EE033) of Department of EEE, ATME College of Engineering represented VTU University Softball (Women) Team in All India Inter University Competition 2019-20 held at Punjabi university, Patiala, Punjab from 4th to 7th March 2020. Ms. Rachana Y L led the VTU University Softball (Women) Team as Captain.



Topper's List for the Academic Year 2018-19

Sl.No.	USN	Name	Semester	SGPA
1	4AD17EE002	ARPITHA R	3	8.56
2	4AD17EE025	PRADEEP K	4	8.39
3	4AD16EE006	BHAVYA G	5	8.19
4	4AD16EE021	MOHAMED IMADUDDIN	6	8.85
5	4AD15EE013	HEMANTHKUMAR K	7	8.91
6	4AD16EE418	REKHA L	8	8.10



DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

The Department of Electronics & Communication Engineering was established in the year 2010, with an intake of 60 and was enhanced to 120 in the year 2012. The department has well qualified and experienced teaching faculty and technical staff with state-of-the-art laboratories to meet the quality education required for the present challenging societal and industrial needs.

The department has EC Innovative Research Club (EC-IRC), through which the department is actively involved in research activities in the areas of Wireless Communication, Image Processing, Computer Networks, Control systems, VLSI Design and Embedded Systems.

The faculty & the students are members of various Professional bodies like ISTE, IETE and ECHELON. The IETE Student Forum (ISF) regularly organizes workshops, seminars, Internship programs for students by experts in order to upgrade their knowledge.

The National Board of Accreditation (NBA),

New Delhi, has granted accreditation to the Electronics and Communication Engineering Program at the ATMECE, Mysuru for the period 2019-2020 to 2021-2022.

Department Activities:

INTERNSHIP ON "LABVIEW"

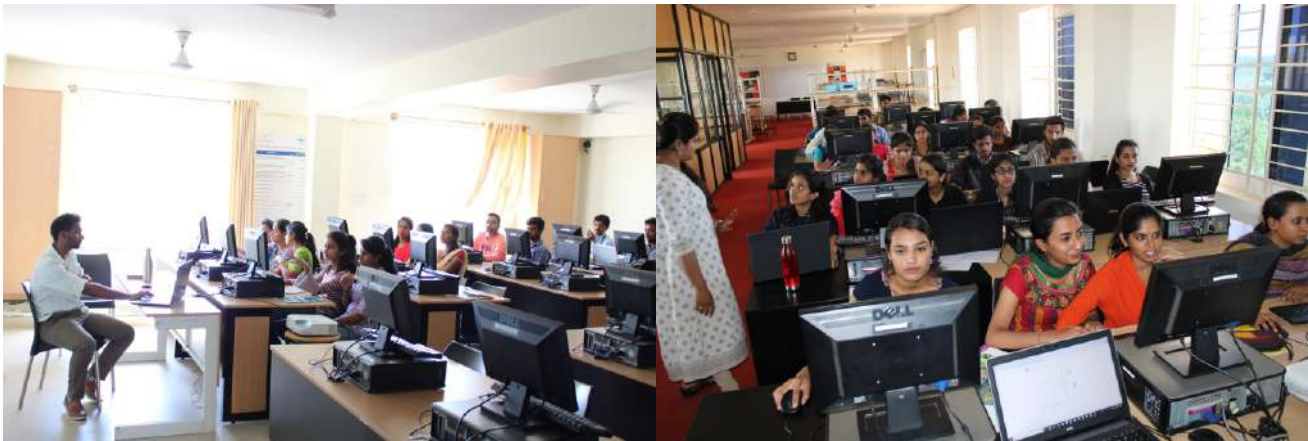
An internship was organized for final year students on "LABVIEW" at ATME college of Engineering. It was conducted by Ms. Lavanya shree, National Instruments, Hyderabad and Mr. Mahesh G S from Opti thought, Chennai from 11th to 31st July 2019.

LabVIEW (short for Laboratory Virtual Instrumentation Engineering Work bench) is a platform and development environment for a visual programming language from National Instruments.

In this course, totally 81 members have participated from ECE Department, out of which 6 faculties of ECE department also undergone the LabVIEW internship training and certified as trainers.

Internship program includes LabVIEW Core I under this session resource person taught the basic concepts of LabVIEW and during Core II session the learners familiar with the data acquisition using LabVIEW- digital I/O- analog I/O- reading data from real world- writing data to real world communicating data between parallel loops and also Implemented the design patterns concepts.

During Internship Program hands-on sessions was carried out with MyDAQ and MyRIO hardware kits, which were brought from SJBIT-NI LabVIEW academy, Bengaluru. Finally students successfully completed the mini projects by using hardware kits.



On successful completion of the three-week program, on 31st July 2019, the CLAD certification exam was conducted. Totally 59 members appeared for the exam including six faculty members. Among 59 members, 19 students and five faculties were successful in clearing the Certified LabVIEW Associate Developer (CLAD) certification Exam.

INTERNSHIP ON " Internet of Things IOT "

An internship was organized for final year students on "Internet of Things (IOT)" at ATME college of Engineering from 21st July to 11th August. 28 students from the Dept. of ECE and 2 students from Dept. of CSE have participated in the internship. The resource persons were Mrs Juslin F, Mrs. Darshini M B, Ms. Anupama Shetter, Mrs. Keerthi Kumbar, Mr. Pardeep Kumar Y, and Mr. Prajwalasimha S N, Faculty members of Electronics and Communication Engineering department, ATMECE.

During the starting period of the internship session students were trained with basic I/O devices interfacing programs followed by Hands-on session. After that students learnt Python programming from basics and trained them to write the programs by their own efforts and perform the debugging operation during execution in order to obtain the results.



During the last week of internship students completed assigned mini projects and after successful completion of the internship, the certificates were distributed.

FIVE- DAY NATIONAL LEVEL WORKSHOP ON " ADVANCED CONTROL THEORY AND LATEX "

A Five-day workshop on Advanced control theory and Latex was organized from 15th July 2019 to 19th July, 2019, sponsored by Seikomec Automation Solutions Pvt. Ltd. Mysuru & Core4 Engineers Mysuru.

The workshop mainly focused on Advanced Control System, Design of Controllers for stable and unstable process and Modelling & Stability Analysis of Non-Linear Systems.

Dr. Sudarshan Patil Kulkarni, JSS Science & Technological University, given the introduction to advanced control theory and described the concept of mathematical model of any physical systems. Dr. Shreesha Chokkadi, Manipal Institute of Technology, Manipal University, defined the basic concepts needed in design of control system with examples'. Dr. Yathisha L, ATMECE, Mysuru, explained the concept of optimal control theory. Dr. Harsha Simha, Indian Institute of Space Science & Technology, Thiruvananthapuram, Kerala, outlined the concept of stability analysis for Non-Linear systems. Last day of workshop was mainly focused on the usage of LaTeX.

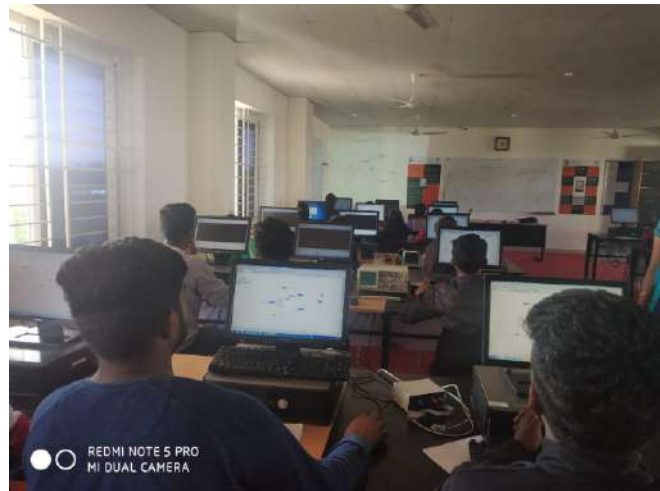
Upon the completion of the workshop the participants will be able to implement the advance control algorithms on the physical system.



TECHNICAL TALK ON " LOGISIM TOOL DEMONSTRATION"

Mrs. Pavithra A C Dept. of ECE, Asst. Prof., ATMECE, Mysuru, and Mr. Girish M, Dept. of ECE, Asst. Prof., ATMECE, Mysuru were delivered technical talk on "Logisim tool demonstration". It was conducted for 3rd sem students on 28th Aug.2019.

This technical talk was organized with the intention of introducing the practical demonstration of the circuits or designing of basics digital circuits. About 60 students have participated in the technical talk and learnt the



various topics like Combinational circuits, Decoders, Adders, subtractors, BCD to Seven Segment Decoders and Realization of Boolean expressions using basic gates and decoders. At the end of the session students were familiarized with the tool usage and demonstrated the working of combinational circuits with run time analysis.

ONE DAY WORKSHOP ON " ESIM- A FIRST COURSE IN IOT SERIES"

One Day workshop was conducted on "ESIM- A FIRST COURSE IN IOT SERIES". for ATMECE faculty members on 21th September, 2019 and conducted Using Spoken Tutorials, Video conference (A-VIEW). The workshop was coordinated by Ms. Anupama Shetter, Asst. Prof., Department of ECE, ATMECE, Mysuru.

In the workshop created and simulated an astable multivibrator using eSim, and compare the frequencies of oscillation with a real circuit, and with hand calculations. Created a PCB layout in eSim and generating Gerber files for the same. Generally, this file is sent to vendor for manufacture the desired circuit PCB.

ONE DAY WORKSHOP ON " POWER CONVERTERS USING PSPICE "

One Day workshop was conducted on "Power converters using PSPICE" for 7th semester students on 2nd Nov.2019 in association with Echelon. The Resource persons for the workshop were Mrs. Pavithra A C Asst. Prof., Dept. of ECE and Mrs. Shalini V S, Asst. Prof., Dept. of ECE.

Workshop started with introduction of the tool and different Power Electronics circuit's internal operation and simulated waveforms were explained. Later on, Students simulated different Power Electronics circuits using PSPICE software and gained knowledge of working of various Power Electronics circuits.



FIVE- DAY WORKSHOP ON "RECENT TRENDS IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING TECHNIQUES"

The Department had organized five-day workshop on Recent Trends in Artificial Intelligence and Machine Learning Techniques. The Workshop was conducted by Dr. Rajashekar Gouda Patil, DBIT, Bengaluru Mrs. Sowmya K S, DBIT, Bengaluru and Mrs. Roopa, DBIT, Bengaluru, from 03rd Feb.2020 to 07th Feb 2020 at ATMECE.

The Workshop was mainly focused on providing the detailed exposure to machine learning programming and engaged students in real-time projects. During the workshop briefly explained the various topics of machine learning like Overview of Supervised vs Unsupervised Learning, Continuous (Regression) vs Discrete (Classification) Algorithms. They also delivered a talk on Jupyter, Spyder, Colab usage in python.



Later on, workshop was focused on concepts of regression and SVM (Support Vector Machine. SVM is a supervised machine learning algorithm which can be used for classification or regression challenges. At the end of the workshop web crawling techniques were outlined with an example. Totally, 34 students have participated from ATME College of Engineering, Mysuru in this workshop.

Faculties Credentials:

1. Department faculty members were participated Six days workshop on “Art of Counseling” held at ATMECE, Mysuru from 2nd to 9th July, 2019.
2. Dr. Prathibha M K Associate Prof.,ATMECE and Mr. Prajwala Simha, Asst. Prof.,ATMECE participated in the 5 days' Workshop on “Advances in Image Processing”, held at GSSSIETW, Mysuru, from 8th to 12th July, 2019.
3. Mr. Manjunath K,Asst. Prof.,ATMECE,Mr. Girish M Asst. Prof.,ATMECE,Mr. Prajwala Simha, Asst. Prof.,ATMECE, Mrs. Shalini V S , Asst. Prof., ATMECE,Ms. Anupama Shetter, Asst. Prof.,ATMECE were participated in 5 days FDP on “Advanced control theory and Latex” at ATMECE, Mysuru, from 15th July to 19th July, 2019.
4. Ms. Anupama Shetter Asst. Prof.,ATMECE participated in the One day Workshop on on “eSim- a first course in IoT series”,on 27th July 2019 held at IIT Bombay.
5. Dr. Bhagyashree S Attended a One day workshop on “How to Publish a Technical Paper with IEEE” on 9th Sept.2019.
6. The department Faculty members attended a One day workshop on “Virtual Labs” on 26th Oct.2019 held at ATMECE, Mysuru.
7. Dr. Bhagyashree S Attended “a Review meeting of VTU e-Shikshana Programme-02” at VTU Regional Office, Bengaluru on 7th Nov.2019.
8. Dr. Bhagyashree S Attended a One day meeting on “ Trans Discipline Scientific Meeting” at JSS Hospital, Mysuru on 2nd Dec 2019.
9. Dr. Bhagyashree S attended a One day “Sensitization meeting of Course experts for VTU e-Shikshana Programme-3” at VTU Regional Office, Bengaluru on 23rd Jan 2020.
10. Mrs. Keerthi A Kumbar Asst. Prof., ATMECE, and Ms. Anupama Shetter Asst. Prof., ATMECE, participated in the 5 days' “Workshop on Engineering Statistics & Linear Algebra” at VVCE, Mysuru, from 27th to 31st Jan , 2020.
11. Dr. Yathisha L Attended a One day workshop on “QS Rankings & Ratings” at Indian Institute of Science(IISC) Bangalore on 20th Jan.2020
12. Mr. Chandrashekar P Asst. Prof.,ATMECE participated in the 5 days' workshop on “Outcome based education”, held at GSSSIETW, Mysuru, from 7th Jan to 11th Jan, 2020.

Deputation of students (2019-20):

1. Rohan U and Jayashree S Shet 2nd year EC students were participated in “IOT Challenge” in 2020 organized by i3indya Technologies from 7th to 8th Nov.2020 .
2. Dhananjaya S,Jayasurya,Harshith R and Chanduprasad T L 3rd year students were participated in “Hackathon on Save Farming, Save Forest, Save India”, under the guidance of Darshini M B,Asst.Prof.,ATMECE,Mysuru, held at VVCE Mysuru from 12th to 13 Nov.2019 and won second prize .
3. Jayasurya,Harshith R and Chanduprasad T L “Hackathon Competition” held at PES Mandya from 29th Feb. 2020 to 1st March2020.
4. Harshith R,Chandan B,Basavaraj and Dilip L “Hackathon Competition” held at PES andya from 29th Feb. 2020 to 1st March2020.

Student Achiever's:

1. Under the guidance of Mrs. Darshini M B, Asst. Prof., ATMECE, Mysuru Mr. DHANANJAYA S, Mr. JAYASURYA, Mr. HARSHITH R and Mr. CHANDUPRASAD T L ,3rd year students were participated in “Hackathon on Save Farming, Save Forest, Save India”, held at VVCE Mysuru from 12th to 13th Nov.2019 and won second prize.
2. Mr. ANIL KUMAR B ,Ms. SPANDANA N ,Mr. MAHESHCHANDRA N M and Mr. MANOJ M E of 8th semester received sponsorship from the Karnataka State Council for Science and Technology (KSCST) in the 43rd series student projects programme:2019-2020 for the project titled “ VISUAL SURVEILLANCE SYSTEM USING ARDUINO” under the guidance of Mrs. HARSHITHA N and Mrs. KEERTHI A KUMBAR.
3. Ms. SAIMA SADAF Mr. SYED FAZIL AHMED Ms. RANJINI D R and Mr. NITHISH ATHREYAS S R of 8th semester received sponsorship from the Karnataka State Council for Science and Technology (KSCST) in the 43rd series student projects programme: 2019-2020 for the project titled “AGRICULTURAL ROBOT USING IOT” under the guidance of Mrs. ANUPAMA SHETTER and Dr. PRATHIBHA M K.
4. Ms.SUPRIYA K Ms. VIDYASHREE H N Mr. WAHID PASHA and Mr. RAVIKUMAR K M of 8th semester received sponsorship from the Karnataka State Council for Science and Technology (KSCST) in the 43rd series student projects programme: 2019-2020 for the project titled “SOLAR OPERATED VISION CAPTURING SPY ROBOT USING RASPBERRY PI 3” under the guidance of Mrs. SHALINI V S and Mr. PRAJWALSIMHA S N.
5. Mr. RUPESH KUMAR G V Mr. PRAJWAL M Ms. PUNYA M Mr. YASHWANTH V of 8th semester received sponsorship from the Karnataka State Council for Science and Technology (KSCST) in the 43rd series student projects programme: 2019-2020 for the project titled “INTELLIGENT WHEEL CHAIR FOR HANDICAPPED PERSONS” under the guidance of Mrs. PAVITHRA A C Mr. Dr PRAKASH KURAVATTIC

Graduation Day At ATME

Graduation Day of 2015-2019 Batch students was held at ATME College of Engineering, Mysuru, on June 18 2019.

Padma Shree A.S. Kiran Kumar, Former Chairman, Indian Space Research Organization (ISRO), Bengaluru, was the chief guest. Addressing the students, he said in the fast-growing technology students have to develop their knowledge and skill and be updated. In this competitive world we are proud to say India has reached and achieved a remarkable milestone in Space research programme through ISRO; now we have reached a stage where other countries look forward towards our country in the area of Space technology, he added.

India has reached greater heights in Science and Technology through ISRO and need not depend on other countries for information's like Geo-space, Communication etc., he said adding that in the earlier days during any natural calamity there used to be many losses of lives but now with latest technology we are able to predict any unforeseen environmental natural disasters and take necessary precaution.

Kiran Kumar distributed Degree Certificates to students. L. Arun Kumar, Chairman, ATME College, presided and administered the oath to graduates.



DEPARTMENT OF LIBRARY & INFORMATION CENTER

Today the engineering institutions are investing huge amount for digital Resources because the quality of engineering institutions is measured in terms of digital collections, e-resources, networking component, ICT tools etc.

Academic libraries are under increasing pressure to demonstrate the value of their collections to their stakeholders and to focus on products and services that support eLearning. If the cost of library services increase and the perception of the importance of the library decrease, a value gap can result. Measures of value, including usage, and return on investment can help to demonstrate the current value of the library and help librarians to set priorities for the future. More than repositories for materials and knowledge; now libraries are access- point to acquire

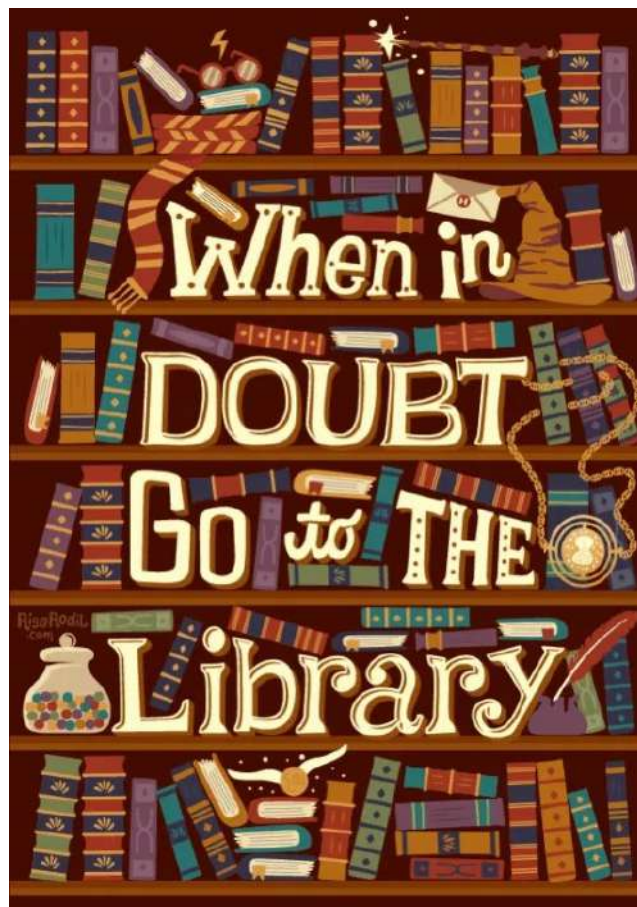
knowledge and skills at a faster rate.

Technology provides better access to information; especially electronic resources play a vital role in supporting academic activities and research. Recent studies demonstrate that academic users have become more dependent on article databases and electronic journals to obtain information pertinent to their needs. The printed resources are now being digitalized which has increased the availability of books and journals in the electronic format.

Providing access to E-resources is a service to help library users find E-Databases, E-Journals, E-Magazines-Books/ E-Audio/ E-Images, Data/ GIS, Digital Library Projects, Electronic Exhibitions, E-Subject Guide.

Traditional library resources are insufficient to meet current requirements of users. The increasing online environment has resulted in users, who are more technology savvy and are demanding and expecting more from the library. The potential of delivering information anytime (24X7) anyplace challenges libraries to re-examine how space is organized and used. It is necessary to create new modes to deliver services to the user Desktops even outside the campuses using the platform. As more resources are created via the web, issues arise related to search & access the same.

Users would like to see their library on the internet, able to meet their all information needs not only on demand but also in anticipation of demand. Besides this they would also expect to get comprehensive information on broader range of disciplines while a engineering college library could have good collection only in their specific discipline. Again it would be a big cause of users' dissatisfaction. But to overcome this problem engineering college libraries may have to have more & more electronic resources which shall help to offer new and more qualitative services to their users.



DEPARTMENT OF MECHANICAL ENGINEERING

"Mechanical Engineering is the branch of engineering that involves design, production, operation of machines and tools"

The Department was started in 2010-11. The department is recognized for PhD program in its folds. The strength of the department is its intellectual capital. The department is a blend of faculties from the diversified fields and it has well established infrastructure and state of the art laboratories to cater the present day requirements. Every effort is made to bridge the gap that exists between academics and the rapidly evolving global needs of industry and society. The main motto of the department is to prepare industry ready engineers with professional and ethical responsibilities. In order to achieve this, several

Memorandum of understanding (MOD's) has been signed with industries and training institutes.

Mechanical engineers require a solid understanding of key concepts including mechanics, kinematics, thermodynamics, energy and manufacturing. They use these principles in the design and analysis of automobiles, aircraft, heating and cooling systems, buildings and bridges, industrial equipment & machinery, and many more. To ensure that the students to learn the latest technological advancement in the field of Mechanical Engineering, they are encouraged them to attend various seminars, guest lectures, workshops and industrial visits.

Participation in IETE National Level Conference and Model contest -2019

The IETE National Level Conference and Model Contest -2019 Is A one-day National Level Conference and expo held on 4-4-2019 at IETE, Mysore in collaboration with National Institute of Engineering, Mysore.

A team of 10 students from ATMECE Mechanical Dept took active participation and were guided by Mr. Deepak M V S, Department of Mechanical Engineering. 4 students of 4th sem Mechanical Engineering took part in technical paper presentation and delivered a talk on Hyperloop, IOT for cars and driverless cars. In model presentation contest two teams pertaining to Pipe bending machine and Mudde making food processing machine took part and demonstrated the applications of projects.



KSCST Mysuru Region Nodal Centre Evaluation of 42nd Series Student Project Program at ATME College of Engineering, Mysuru.



KSCST has carried its Nodal Centre evaluation of 42nd Series Student Project Program on 10-06-2019. The program was organized at ATME College of Engineering, Mysuru. Students from various engineering colleges from Mysore, Mandya, and Kodagu district participated in the event and displayed their projects for the evaluation.

The event was inaugurated by Chief Guest Shri H Hemanth Kumar, Executive Secretary & Chief Scientific officer, KSCST Bengaluru, in his inaugural address he advised the students to select innovative

projects under the guidance of faculty members. Also, he suggested that, each college should form an IP cell (Intellectual property cell) for better coordination and output by providing training for faculty members to assist and guide the students in their Projects.

The projects were evaluated by a group of dedicated Scientists, and Engineers from reputed organizations, like IISc., ISRO and Industry experts. The experts congratulated the Principal and organizing committee of ATME College of Engineering for organizing the technical event in a relevant and meaning full manner.



YANTRIX 2019

The Project Exhibition and Department Technical Forum “YANTRIX” was inaugurated on 11-05-2019 in the seminar hall of the Mechanical Engineering Dept of ATMECE, Mysore. The event is being held on annual basis and organized by the Dept of Mechanical Engg. The event showcases Technical Projects, hobby projects and research findings. The event was inaugurated by the chief guest Dr G B Krishnappa, Prof and Dean R & D, VVCE Mysore and guest of honor Mr. Mohammed Asif, Deputy Manager, Rane Madras, Mysore.



Celebration of World Environment Day

The world Environment day was celebrated at ATME College of Engineering Mysuru on 4-6-2019. On this occasion the Honourable secretary Sri Shivshankar, principal Dr. L Basavaraj and Head of department of all the branch of Engineering , faculty members and students were present for the function.



Sri Shivashankar Inagurated the program by planting sapplings on this occasion and expressed his concern to preserve the environment to the next generation. Dr L Basavaraj during his speech talked about the

theme of this years world environment day “Air pollution” and appealed not to pollute air by burning plastic & other toxic items and also adviced to grow more plants and not to cut trees.

Awareness Program from People Mechanics, Bangalore

Department of Mechanical Engineering organized an “MOU Awareness Program from People Mechanics, Bangalore”, on 7/11/2019. The program speaker was MrTungaraju Technical Team Prolific People Mechanics, Bangalore. The event was presided by the Department HOD, Dr Rathnakar G.

Students of 6th semester were involved for this session. MrTungaraju addressed the MOU benefits which have been signed between People Mechanics, Bangalore and Department of Mechanical Engineering, ATME College of Engineering, Mysore. He also explained about the training details which will be given to the students who enroll. He explained that training comprises of knowledge enhancement and skill development on industrial automation, updated Manufacturing Technology, Professional Ethics, Industrial attitude and aptitude training.

He also emphasized on industrial safety and team work importance which will also be educated on in training sessions. The session was interactive and knowledgeable for the students. Also, explained the key benefits of placement from People Mechanics.



INDUSTRIAL VISIT TO NESTLE, NANJANGUD

Department of Mechanical Engineering has organized an Industrial Visit to NESTLE India Limited,



Nanjungud for 2nd year Mechanical Engineering students on 28th September 2019. Prof. Devaraj M R and Prof. Yashwanth N have accompanied the students during the visit. Nestle India Ltd. is one of the oldest industries set up in India. It's got a 150-year-old history. It is the leading brands in Food and Nutrition Products. At this factory, they

produce instant coffee, beverages (Cappuccino), and Maggie Noodles. The factory is also environment friendly, making sure of zero discharge.

Industrial Visit to GT&TC, Mysuru

Department of Mechanical Engineering has organized an Industrial Visit to Government Tool Room and Training Centre (GT&TC), Mysuru for 2nd year Mechanical Engineering students on 18th September 2019. Prof. Devaraj M R and Prof. Yashwanth N have accompanied the students during the visit. This training center undertaken by govt. of Karnataka. This organization well known to the production of Press tools, Injection moulds, Die Casting Dies and other precision tools. This Tool Room also has customers like ISRO, BEML, GTRE, L&T Wipro etc, for their precision components. Training center has various advanced and sophisticated machine tools and latest measuring tools and equipments.



Industrial Visit to Rane (Madras) Pvt. Ltd, Mysuru

Department of Mechanical Engineering has organized an Industrial Visit to Rane (Madras) pvt. Ltd, Mysuru for 2nd year Mechanical Engineering students on 31st August 2019. Prof. Devaraj M R and Prof. Niranjana Kumar V S have accompanied the students during the visit. Rane (Madras) Ltd is a part of the Rane Group of Companies involved in the manufacture and distribution of steering and suspension systems. The main components manufactured by the company include Manual Steering Gear Products (SGP) and Suspension & Steering Linkage Products (SSLP). The other products include tie rod assemblies, drag link assemblies, center link assemblies and gear shift ball joints. Automobile companies that use its products include Ashok Leyland, Volvo, M&M, Tafe, Tata among many others.

Industrial Visit to TVS Motor Company Pvt. Ltd, Nanjungud

Department of Mechanical Engineering has organized an Industrial Visit to TVS Motor Company pvt. Ltd, Nanjungud for 3rd year Mechanical Engineering students on 24th August 2019. Prof. Devaraj M R and Prof. Mohanakumara K C and Prof. Yashwanth N have accompanied the students during the visit. TVS Motor Company is a multinational motorcycle company headquartered at Chennai, India.



It is the third largest motorcycle company in India with a revenue of over 20,000 crore (US\$2.9 billion) in 2018-19. The company has an annual production capacity of 4 million two wheelers and 120,000 three wheelers. There are different sections and shops observed in the production plant namely painting shop, engine assembly section, component surface coating and vehicle assembly lines. Robots are used in painting shop to paint the body/ covering parts of the two wheelers.

Industrial Visit to BEML, Mysuru

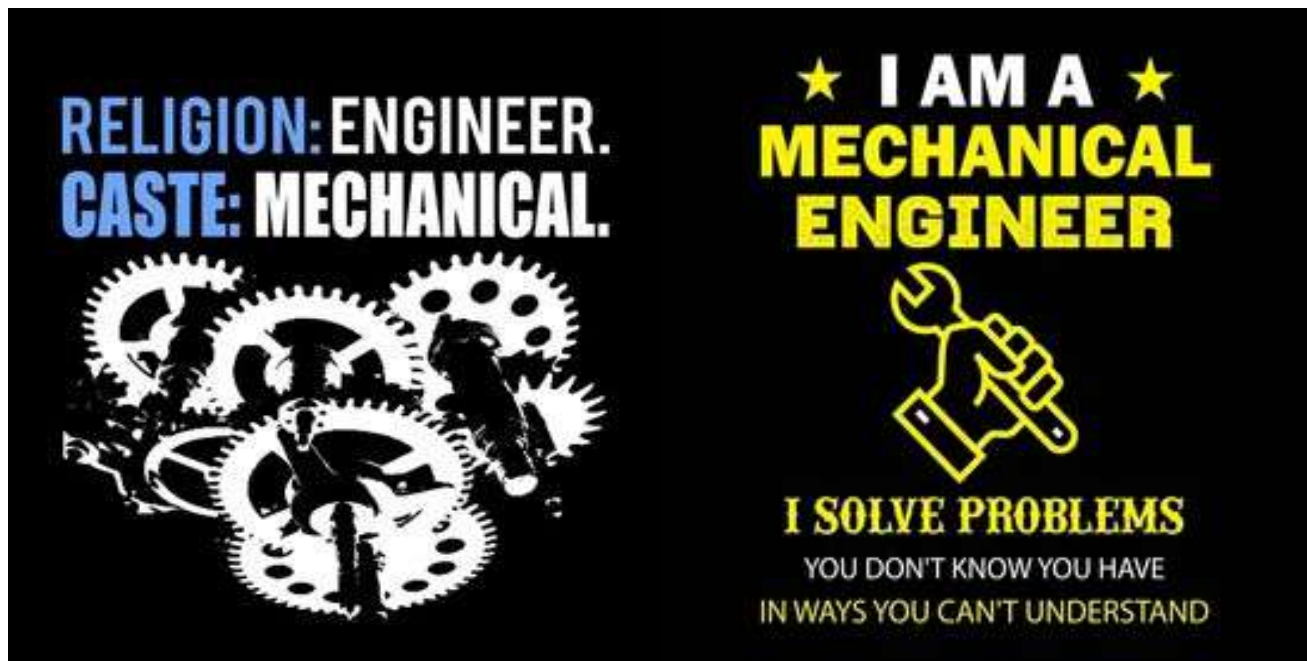


Department of Mechanical Engineering has organized an Industrial Visit to BEML, Mysuru for 3rd year Mechanical Engineering students on 17th August 2019. Prof. Devaraj M R and Prof. Yashwanth N have accompanied the students during the visit. In Mysuru BEML there are three divisions, are Dumpers & Dozers, Engine assembly and Aerospace division. The students took a round to four shops in this division which

included Major assembly shop, Plate shop, Machine shop, Light assembly shop.

"You want a valve that doesn't leak and you try everything possible to develop one. But the real world provides you with a leaky valve. You have to determine how much leakiness you can tolerate."

—Arthur Rudolph—



DEPARTMENT OF PHYSICAL EDUCATION & SPORTS

ATMECE mission is to foster a "culture of fitness" for students, faculty and staff.

We pursue this mission not only because fitness is a key component to a well-rounded liberal arts education, but because recent research shows that regular physical activity enhances memory, improves cognition and problem-solving abilities, and elevates one's overall sense of well-being.

To prepare physical education leaders of high academic caliber, with a holistic development of body, mind and spirit nurtured with a strong commitment to serve humanity.

I am very happy to present the annual sports report for the year 2019-2020. Our college students have brought laurels by participating and winning in various sports and games organized by VTU, University of Mysore and other open tournaments.

The college had participated in VTU, Mysore city intercollegiate tournaments conducted by University of Mysore, JSS S&TU tournaments, Mysore Dasara district division and state level

competition in the following sports/games like Cricket, Throwball, Football, Basketball, Baseball, Handball, Softball, Athletics, Youth Festival, Table Tennis, Chess, Volleyball, Hockey, Kabaddi, Best Physique, Weight Lifting and Power Lifting competition.

Sports Achievement in the year 2019-20

- Pavan V of 4th year ME secured Silver medal (Up to 75kg Category) in Mysore City Intercollegiate Best Physique Competition held at NIE, Mysuru.
- Abhijith of 3rd year ME secured Gold medal (79kg Category) in 20th VTU Intercollegiate Wrestling Competition held at SJCIT, Chikballapura.
- Abhishek K of 4th year ME has won Bronze medals (86kg Category) in 20th VTU Intercollegiate Wrestling Competition held at SJCIT, Chikballapura.
- Soft Ball Men Team secured Runner-Up in VTU Inter Collegiate Rest of B'lore Zone Soft Ball Championship 2019-20 organized by NIEIT, Mysuru.

- Soft Ball Men Team secured 3rd place in VTU Inter Zone Inter Collegiate Soft Ball Championship 2019-20 organized by DBIT, Bengaluru. (3rd time in succession)
- Softball Women Team secured Runners-Up in VTU Single Zone Inter Collegiate Soft Ball Championship 2019-20 organized by DBIT, Bengaluru. (3rd time in succession)
- Rajashekar M of 4th year ME won Bronze medal (Up to 67kg Category) in 2nd Mysuru Region Intercollegiate Engineering college sports meet (ICESM) Weight Lifting Competition organized by JSS S&TU, Mysuru.
- Best Physique Team secured Runners-Up in ICESM Inter Collegiate Best Physique Championship 2019-20 organized by JSS S&TU, Mysuru.
- Pavan V of 4th year ME clinched the Title Mr.ICESM in 2nd Mysuru Region Intercollegiate Engineering college sports meet Best Physique Competition organized by JSS S&TU, Mysuru.
- Pavan V of 4th year ME secured Gold medal (Up to 80kg Category) in ICESM Inter Collegiate Best Physique Championship 2019-20 organized by JSS S&TU, Mysuru.
- Md. Shabaz of 4th year EC won Bronze medal (Up to 65kg Category) in ICESM Inter Collegiate Best Physique Championship 2019-20 organized by JSS S&TU, Mysuru.
- Arun Nayar N of 3rd year CS won Bronze medal (Up to 70kg Category) in ICESM Inter Collegiate Best Physique Championship 2019-20 organized by JSS S&TU, Mysuru.
- Mansoor Fathak of 2nd year EC won Bronze medal (Up to 60kg Category) in ICESM Inter Collegiate Best Physique Championship 2019-20 organized by JSS S&TU, Mysuru.
- Abhishek K of 4th year ME won Silver medal (Up to 85kg Category) in ICESM Inter Collegiate Best Physique Championship 2019-20 organized by JSS S&TU, Mysuru.

University Representation

Sl No.	Name of the Student	Year / Branch	Game	Remarks
1	ABHIJITH	3rd yr., ME	Wrestling	First Time
2	RACHANA Y L	4th yr., EE	Softball	Fourth Time
3	PALLAVI K R	4th yr., EE	Softball	First Time
4	MONICA R	4th yr., EE	Softball	First Time
5	VARSHA J	4th yr., CS	Softball	First Time
6	NISCHITH J RAO	4th yr., EC	Softball	First Time
7	YASHWANTH P S	3rd yr., CS	Softball	First Time
8	CHIRAG C N	2nd yr., EC	Softball	First Time

• **Awards**

- Rachana Y L of 3rd yr. EE dept. has been received cash award of 4000/- for representing VTU Softball Team for 4 times & Cricket Team.

Sports Staff

SI No.	Name	Designation	Email
1	Mr. Muralidhar M P	Director of Physical Education	mpmuralidhar7@gmail.com
2	Mr. Muttegowda	Grounds men	

University Blue 2019-20



Abhijith
3rd yr., ME
Wrestling



Rachana Y L
4th yr., EE
Softball



Pallavi K R
4th yr., EE
Softball



Monica R
4th yr., EE
Softball



Varsha J
4th yr., CS
Softball



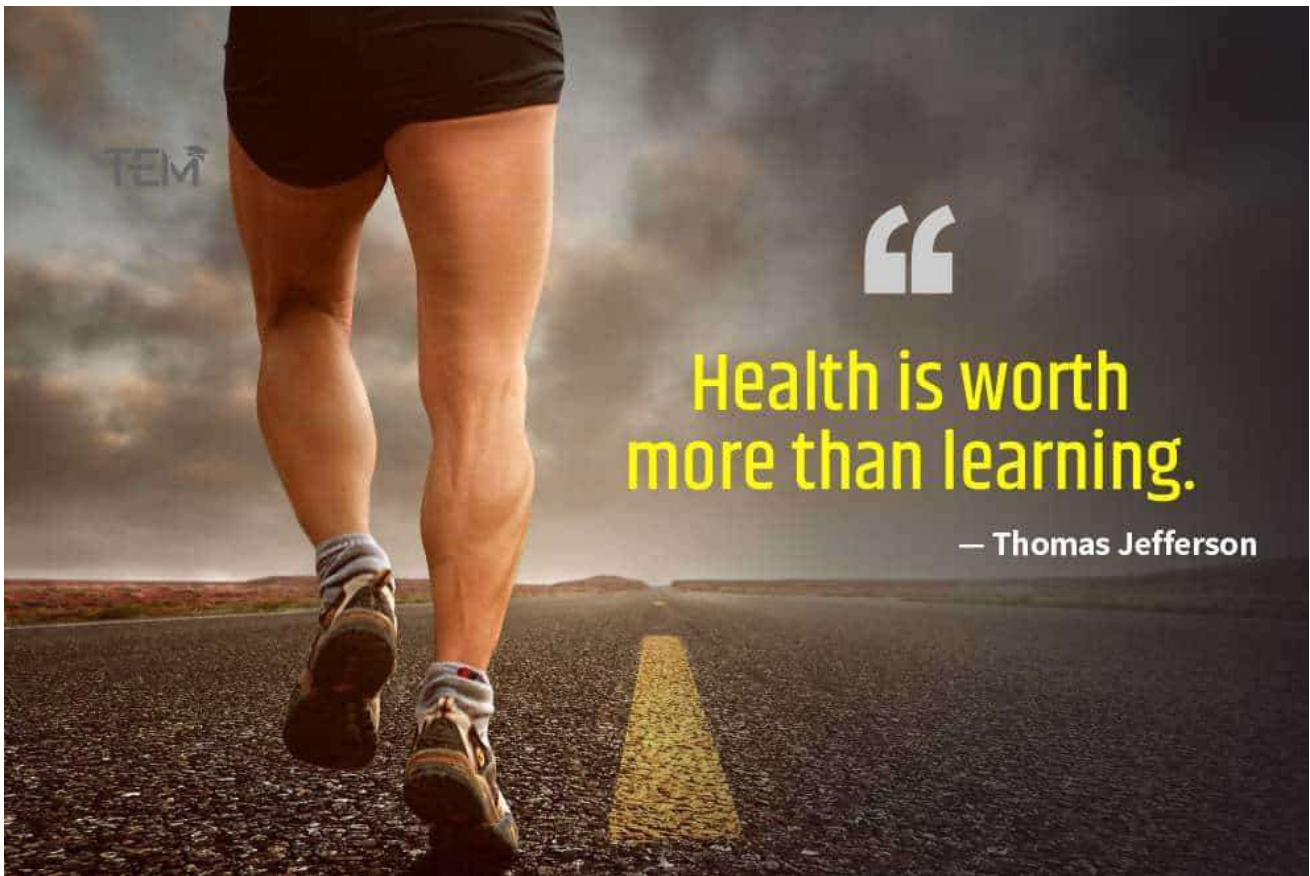
Nischith J Rao
4th yr., EC
Softball



Yashwanth P S
3rd yr., CS
Softball



Chirag C N
2nd yr., EC
Softball



TEM

“

Health is worth
more than learning.

— Thomas Jefferson



TEM

“

We don't stop playing
because we grow old;
we grow old because
we stop playing.

— George Bernard Shaw

DEPARTMENT OF TRAINING & PLACEMENT

Welcome to the Department of Training and Placement

Increasingly recognized as an innovative education hub by recruiters, consultancy's, alumni, students and faculty alike, ATMECE is steadily improving its presence among the preferred technical institution in the country. Its students have an edge in the tailored training and placement process.

Students are encompassed to a distinctive and well tailored program covering core and optional courses over four years, executed by a distinguished faculty with substantive teaching, research and industrial experience. We pioneer methods of learning and frequently update our functioning to keep abreast of global trends in technology and soft skills. Platforms for technical projects, learning centers complimented by aptitude development and soft skills ensure the employability is adept with the uptrend.

Our students benefit from the real world experiences of our local and extended network

of leading practitioners, professionals and academicians inclusive of webinars. These recognized leaders in their fields inspire our students by sharing what they know and gain enormous satisfaction from contributing to the learning of others.

On the global perspective, industries and technology platforms are experiencing situational crises to cope with evolving strategies, governance and business dynamics. Seasonal, requirement based recruitments or downsizing though widely implemented as a solution, is never the best answer for meeting these challenges. We believe and function to deploy better human resources who make positive contributions to your organizations and business.

Drive details

The year has witnessed good number of Campus, Pool and Internship based drives done regularly. The campus has witnessed a positive surge in the recruitments offered by few of the fortune 500 corporate and was also

able to accommodate the national and local based industries and start-up's.. The institution has also played a significant support in hosting pool and diversity drives for premium payers such as INFOSYS IBM, HPE, GENPACT, JARO, SENTIENZ, DXCORR, VVDN, BYJU's, COMMONFLOOR, VMWARE, 42 GEARS MOBILITY SOLUTIONS, SONATA, NTT DATA etc in IT, IT enabled and core companies. Mass recruitment drives showcases the institutions strength in handling massive footfalls through its enchanting infrastructure which also succeeds in testing the capacity utilization We take pride in hosting one of the biggest drives of the year through the pool campus of Infosys for a footfall of 1800 students from various colleges of Mysore and surrounding areas The department has successfully trained, placed and guided students and also its alumni's towards various wings of technology, business development and higher studies both in India and abroad. Up skilling and transformation challenges act as a learning curve to the recruitment wing resulting in better networking. State of art auditorium and furnished board rooms ensures the drives are engaged in a professional manner and serves as a positive environment to our recruiters who express to revisit.





“The future belongs to those who believe in the beauty of their dreams.”

The essence of training is to allow error without consequence.

“Success doesn't come to you, you go to it.”

Knowing is not enough; we must apply. Willing is not enough we must do.

GOETHE

Traffic Congestion Reduction in Smart Cities using Artificial Intelligence Enabled IoT

Impana Appaji
Assistant Professor
Dept of CSE

The world has now entered in a new era of Computing, blessed with many prominent technologies including Artificial Intelligence (AI) and Internet of Things (IoT). In an IoT world, sensor enabled objects (things) are connected together via the Internet to participate in performing a particular task mainly by sending and receiving data from one to other. Artificial intelligence empowers agents (machines or devices) to perceive the surrounding environments leading to take calculative decisions, followed by performing efficient actions in order to maximizing the chances of successfully accomplishing a desired task or goal. We combine both IoT and AI to reduce traffic congestions in a smart city environment.

Since last couple of decades, technology has grown vastly around the world in terms of hardware and software paradigm. Especially, the number of hardware is ever growing to meet multifaceted requirements; the capacity of these hardware is continuously expanding whereas the size is invariably becoming smaller day by day. IoT brings all these small objects, more commonly referred as things, together at one place through its sensor based communication and making use of the Internet. Thus IoT systems provide cheaper and wider communication channels to perform various tasks in any smart city or industry environment which is a vital precondition for Industry 4.0.

Over the last century, with the advances in technology, many states in the world have experienced massive migration of individuals from rural areas to the main cities. As a result, these cities have become highly populated and thus caused many civic problems, including traffic congestions. Furthermore, declining prices of vehicles and the increased demand by a large number of consumers, highly contributed to increased traffic congestions.



In fact, traffic congestion problem is more apparent in third world countries due to lack of proper infrastructures. Traffic congestions cause high consumptions of fuel which not only increases expenditure for communication but also pollutes the environment. Due to traffic congestions, a considerable amount of working hours are wasted and production costs are increased. Furthermore, it also causes problems for law-enforcement bodies, fire fighters and medical and/or paramedical teams leading to increased number of crimes as well as life losses. With the advent of smart cities that make use of advances in technology, it has become possible to combat this problem using satellite and computer technology to re-route vehicles from highly congested roads to less congested ones. Moreover, technology is on its way towards a smart world where driver-less autonomous vehicles could be used on a large scale. These vehicles are usually supplied with intelligent devices to collect required data regarding the traffic density in various roads which allows these vehicles to intelligently decide the best routes to follow to reach the destination.

The human population is drastically growing all over the world, especially in urban regions compared to the rural areas. Migration trend to urban areas is one of the major contributor in this regard. As per the world population report 2016 4.1 billion out of the 7.4 billion of the entire world population are living in cities. Based on the predictions it is calculated that the city population will become 6 billion out of a total 9 billion in the coming future. The drastic growth in the population leads to the increase in demand for transportation and hence the number of vehicles is ever rising. As a result, traffic management is becoming one of the major problems in big city infrastructure all over the world. Some of these concerns are traffic congestion and accidents that usually cause a significant waste of time, property damage, environmental pollution and even deaths.



Any type of congestion on roads ultimately leads to financial losses. Therefore, there is an urgent need to improve traffic management. To enhance the mobility in cities it is essential to have a planned technology-enabled development in infrastructure too. Thus, the benefits of adopting the Internet of Things (IoT) will provide a new prospect for intelligent traffic development.

WELCOME TO THE FUTURE

NIHAR AHMED

8th SEM, EEE

Wireless Power Transmission

Would it not be better that your mobile or laptop gets charged without the use of wires? True that it may be the dream of many people especially those who come under the “lazy people” category. But apart from this fact, the wireless power transmission can be loads better than the use of wires.



Wires can be a real messy job if not arranged properly. They may get entangled and lead to various problems. Like you may be disconnecting one appliance but accidentally disconnect another because the wires are so much mixed that it is difficult to distinguish between the two wire source. This may not be a problem at times but at others it can lead to huge errors and mistakes.

Transmission ways - Power can be transmitted wirelessly in three ways:

Radio waves: These waves have been found able to transmit milli-watts of power up to a distance of 15meters. This technology is now being employed to recharge small portable devices which include mobile phones and laptops.

Lasers: The use of laser technology to transmit power wirelessly has so far shown only 15% efficiency. Beams of laser are targeted on photocells which convert the light energy into electrical energy and thus power is produced. So far the application of this means stretches as far as lamps and speakers.

Magnetic induction: Both radio waves and lasers have applications only for the devices that require small amounts of power to operate. What about those requiring larger amounts of electricity. For such devices magnetic induction is used to transmit the power without using wires. The power loss during such a transmission is as much as 30%.

Although this technology is being looked forward to by many people but there are still some reservations to be settled before this tech is widely applied to applications. Like there is no knowledge so far that how increased exposure to magnetic field can affect. Another issue to be resolved yet is the efficiency of the process. With the current stats much favor is not turned towards this tech and huge amounts of improvement are still required before applied at mass level.

TIME AND RELATIONSHIP

Charan M V

Electrical and electronics, 4th sem

How young you are
Started spending time with friends.
Started spending time with your loved one's.
As you just ruling your time for the things,
The time move's on.
You don't know, who is praying for you.
At the same time, you don't know, who is playing with
you.
But the time moves on..
Now it's time for the "Time" to rule you.
How old you are now
There's no time to judge fake friends,
There's no time to judge fake love, that you have fallen for.
There's no time for the fresh start.
Hence, make sure that always you are moving along with
time and relationship that never makes you fail.
Be the one praying for everyone,
Don't be the one playing with everyone,
Because, time never leaves anybody.

PAIN ENDS

MOHAMMED UMAR

6TH ECE, ATME

Destiny as some calls it, merely locked on for it had no words, than that of a silent witness as her life was circled on, to the bitter worse of typhoon
There were no trees to claim her down with swishing sound of leaves in the placid, soft wind: Those pale cheeks, those dilated eyes is not for the world at large to see where a living soul dare not venture from the wicked glint of mean eyes
Wandering quite alone, she might seek solace for she like the lost beauty of a picked flower fears no further mutilation
Like all worldly lives, hers too had to go down Only to emerge up, into a bright new beginning
Because for every setting sun There awaits a breaking dawn.....

SHE

She is not a writer, neither she aspire to be one
But she had words in her head, which is always unsaid
She is never a seeker or a receiver, neither she expect
anything from any one
But she is always a giver, for those who seek and makes
them very comfort

She watched at birds, and stares at sky
But she never wished to fly nor freedom, because
She is the girl who not get sad , for what she doesn't have
But she is the girl who ride the wave, and goes with a flow

She never believed in magical fairytale
But she had a miniature belief in love
And then she got one, An almost kind of love
But she is not sure on the feels, cause she can't name it one

She had feelings for him, In a thousand different ways
But she never expressed any one
She dreamt of togetherness and happily ever after
But it never happened, cause it is not that kind of one

Then one day she had despair
And it broke her heart from peace into pieces
Now she had a scars in her heart
But she wore them with courage and strength

Now she has the mindset of a queen
And the heart of warrior
She is everything all at once
And too much for anyone who doesn't deserve her

Now she is the girl everyone wish to have
But she doesn't want anyone
Now she appreciate what they had taught her
And now she knows all her worth

CAROLINE SYMPHONY

4th SEM ECE

BYE, THANK YOU

The night I decide to choose you
I was worried, I might loose you
When on the other night, I saw the true you
Then I never had thoughts of loose you

If I can't have this love with you
Or any of the love I drew
I must accept your point of view
And bury all these dreams I knew

You never saw just how you threw
Me off, my line away from you
I failed attaching someone new
My heart still bleeds because of you

But time will do what time can do
And teach me how to move from past you
I wish you will and I'll work through
My future plans without us two

And one day I won't think of you
When you're the past I'll breakthrough
When someone loves me truly too
~~You~~ you won't be missed, no, bye, THANK

CAROLINE SYMPHONY. S

4th SEM ECE

FRIEND

Chinmayi R

4th Sem

ECE

A Friend is somebody
Who knows you and likes you
Exactly the way you are

Someone who's special
And so close in thought
That no distance can ever seem far
A Friend understands you
Without any words
Stands by you
When nothing goes right

And willingly talks
Over problems with you
Till they somehow
Just vanishes from slight
And whether you reneighbour
Or live miles apart
A word from a friend gives a lift
To your heart and spirit
That shows you once more
Why" friendship is life dearest life

FACE DIFFICULTIES POSITIVELY

JEEVAN VL

8th semester "A" section Mechanical Engg.

This parable is told by a farmer who owned an old mule. The mule fell into the well and the farmer heard the mule praying or whatever mules do when they fall into wells. After carefully assessing the situation, the farmer sympathized with the mule, but decided that neither the mule nor the well was worth the trouble of saving. Instead, he called his neighbors together, told them what had happened, and enlisted them to help haul dirt to bury the old mule in the well and put him out of his misery. Initially the old mule was hysterical but as the farmer and his neighbors continued shoveling and the dirt hit his back, a thought struck him. It suddenly dawned on him that every time a shovel load of dirt landed on his back, HE WOULD SHAKE IT OFF AND STEP UP! Thus he did, blow after blow. "Shake it off and step up... shake it off and step up... shake it off and step up!" He repeated to encourage himself. No matter how painful the blows, or how distressing the situation seems, the old mule fought panic and just kept right on SHAKING IT OFF AND STEPPING UP!

It wasn't long before the old mule, battered and exhausted, stepped triumphantly over the wall of that well! What seemed like it would bury him actually helped him... all because of the manner in which he handled his adversity. THAT'S LIFE! If we face our problems and respond to them positively, and refuse to give in to panic, bitterness or self-pity.

WOMEN : THE GUIDE OF INTUTION

Keerthana.N
2nd Semester
CSE Department

“**The world needs strong women, who will lift and build others, who will love and be loved, Women who live bravely both tender and fierce, Women of indomitable will**”. Today we commemorate the gallant story of ordinary women as the makers of history. In 1972, Kiran Bedi becomes the first female recruit to join the Indian Police Service, In 1972 Mother Teresa wins The Noble Peace Prize; becoming First Indian female citizen to take a step forward towards the betterment of people and In 1984 Bachendri Pal became the first woman to climb the Mount Everest. Women are prevailing in the Era of the Industrial Revolution, Development and changes in Political and basic beliefs. One powerful being of the society is a woman, who has the power to spread awareness, this woman is the one who frightens the advocators of taboos and stereotypes. Our first Indian female physician Anandibai Gopalarao Joshi, Shilpa Dawre, Country's first woman Auto Rikshaw Driver, Anjali Gupta, the first female flying Officer. Women gives her whole and sole contribution by sacrificing her dreams and life, just for the well being of loved ones. Right from birth till death, woman plays important roles like, the baby girl in the womb, woman in the form of daughter, next a wife, and then a mother, passes through many ups and downs, joys and sorrows with other sympathetic feelings. Woman can be cool as peaceful Mother earth, once hurt she can be fierceful as goddess Chamundeshwari. One woman can make a difference, but together can rock the world. So let's celebrate Women's day every day by respecting, caring and valuing her feelings. As a great saying in Bhagavadgita “**Yatra naryaste pujyante ramante tatra devathaha, yatraitastree na pujyanate sarvastatra jalaha kriyaha**” which signifies as where Women are honored, divinity blossoms there, wherever women are dishonored, all actions no matter how noble it may be remains unfruitful.

And now women is discovered as fierce and strong, and full of fire, and that not even she could hold herself back because her passion turned brighter than her fears.

EXAMINATION FEVER

Poojitha J

NAME : Modern student

Hospital : ATMECE

Date of admission: Before the exams.

Date of Discharge: Last day of the exams

History of illness : The patient gets fever and start shivering the day on which timetable is announced

Temperature chart: Temperature increases as exams approach and reaches normal when exams are completed

Previous history of the patient: very early attends the classes, used to go to movies during college hours and used to roam near girls hostel and corridors in the remaining time

Family Background: Good parents, they thought that he will attend all the classes regularly and thought being a grown-up he knows the responsibilities.

Blood pressure: Increase when lectures ask question of becomes normal when class core completed.

Result: quite normal

Diagnosis: Exam fever.

Treatment: no medicine in medical history He should attend classes regularly and take black tea every night to avoid sleep and study properly.

5 tips for students to improve coding skills during college

Kavayshree E D

Asst. Professor, Dept. of CSE

College education is the best time to improve programming skills. Becoming a better coder is one of the goals for every computer science student. Many students aim for improvement without any strategic plan. Here are five steps to follow during college education to improve coding skills.

1. Learn new things

Technology is changing at a rapid pace. It's important that you don't get left behind. During college life, make sure that you attend conferences, read blogs, magazines, and follow websites that teach you new things. It is quite likely that the curriculum follows old techniques of programming. You need to be ahead of the curve and learn new-age programming techniques and languages during college life.

2. Practice, practice and practice

The best way to excel in programming is practice. Most college students invest their time in learning the fundamentals which are also important but practical experience of coding is equally vital in improving your coding skills.

3. Stop trying to be right; make mistakes

To become great at certain skills, you have to learn from experience. The experience is usually full of flaws.

Nobody has learned without making mistakes. Novice software developers look at the code and admire its wonderfulness. They write tests trying to make their code look nice. However, in student life, you should rather focus on making mistakes. Great programmers often look for where they are wrong to learn from the flaws.

4. Learn techniques, not tools

Programming languages, tools, IDEs come and go. They change over time. Students must focus on programming fundamentals and techniques. If you pay more attention to architecture than to programming, you will master the basics which helps in adopting any new programming language or tool.

5. Participate in coding competitions and hackathons

Coding competitions and hackathons provide significant opportunity for students to learn from peers. It is also an opportunity to network with programmers having different background and experience. Most hackathons are focused on a particular theme. This allows you to improve your problem-solving skill. Competition like TechGig Code Gladiators is an excellent opportunity for students to participate in such events.

If you think

Harshavardhana. B

8th sem, ECE dept

If you think you are beaten, you are!
If you think you dare not, you don't!

If you like to win, but think you can't,
It's almost a cinch you won't!

If you think you'll lose, you're lost!
For, out in the world we find.

Success begins with a fellow's mill;
It's all, in the state of mind!

If you think you are out classed, you are,
you've got to think high to rise,

You're got to be State of yourself
Before you can ever win a prize!

Life's a battle doesn't always go
to the stronger and faster man,

But sooner or later the man who mins...
IS THE MAN WHO THINKS HE CAN!

Shadow Of The Narrow Minded

Peter A X

All of us today are living in an era that is moving really fast. We have a lot of technological advancements taking place. Living standards have been improved way better than what was thirty or forty years ago. In addition, we also have a lot of social reforms as well. Women are being given opportunities to explore the world in different streams from a transportation department to the defense forces across the globe. It is to this idea that I would like to take your attention to. In spite of so many advancements in all fields, we still have women kept within certain barriers. We still have the old nineteenth-century thoughts in our minds about women. It is a question that we need to ask ourselves, to the education we have all taken throughout our lives; did all that we learnt throughout our lives as a student help in achieving women's freedom and independence really achieved?

I'd say no because of a lot of reasons that is not only seen by me, but all of us have seen in the neighborhood we all live. Even today, a woman is not given the freedom to select the college she wants to join, the job she wants or the permission to talk to her colleagues with some freedom. I know most of us would say this is not happening, but the fact is it is. Not all women are given the freedom to choose their path or the skies where she wants to spread her wings. The one common reason that most of them say is that their parents do not allow them to be what they want to be. To this day, we have a good percentage of parents who do not allow their daughters to choose the college they want, or the job they need, but their sons are being given more priority than their daughters. Parents always have to protect their children, it is their duty that God himself has given them, but never did God tell that a woman should always be a low profile person in a place. Parents must protect and guide them in a path that they like to take. It is like restricting a river's flow by building a dam across it; you might be able to restrict the river's flow for sometime but after it is going to break with such force that it is going to take away everything in its path, it is the same with your daughters as well. She should be given the right knowledge and guidance like channelizing a river, but do not block her path like a dam or restrict her natural flow. We have seen many situations where young women who come from well-educated families say that they joined a particular job or college because their parents forced them to. Do you think all of them enjoy their parents' choice? I'm sure most of them would say no. How many of the so-called concerned parents have asked their daughters before taking any decision that impacts their life asked their opinion? Even, if they open up and tell their opinion, a woman's suggestion is never appreciated.

It is not just with parents. The next people a girl feels to talk to is their siblings if they have. Siblings play a vital role in helping a person succeed. If your sister is feeling difficult in talking to your parents, be patient and listen to your sister's problems, be kind and be caring for each other. Of course you need to respect your parents but do not be as hard as your parents are on your sister. She is conveying her troubles with you so that you might help her, not make it worse by accusing her.

The other thing that most women ask is for sometime for themselves. Time we have seen in a good number of families that when their daughter is talking to their friend for a long time, and especially if it is a boy, means they think all sorts of wrong things. So, basically you are not sure of your own daughter you brought up, that means it is a time that you need to doubt on yourselves, dear parents. If parents are confident of the way they have brought up their daughter, you must not doubt her. Because, if parents have moulded and etched the moral values they need to have in their lives into their hearts, they would never go in a wrong direction, and even if they do, they are sure that they would come back to good ways in such situations what your daughter asks is to trust her. We all make mistakes, if they do remember their core values, they will surely regret for their mistake and are willing to correct it, give them a chance, be with them, place your total trust in them.

At the end of the line, we all honor women in all religions and beliefs. So, allow your girls to fly high, protect them but do not keep restrictions on the heights that she has to fly, the sea of opportunities she wants to explore, as parents and siblings, it is our duty to make sure that they do not fall into bad ways, so guide them with good values. Like, we say if the keel (Base of a ship) of a vessel is strong, then it will sail through any storm and reach its destination.

KARATE



Ramya.N
8th sem 'B' Sec
MECH ENGG

Karate is a martial art developed in **Ryukyu kingdom**. It was developed from the indigenous Ryukyuan martial arts under the influence of Kung-Fu, particularly Fujian white crane.

Karate, the Japanese word for “**empty hands**”, was born in the **Okinawan Island** as a form of self-defense, at a time when weapons were banned by invading Japanese forces. It began as te (hand), a fighting style used by the natives of the Ryukyu Island, and was later influenced by Chinese Kenpo, introduced through the Chinese families that settled on Okinawa after the trade relationships between china and the Island were established.

The four main karate styles are, **Gojo-Ryu, Shotokan-Ryu, Wado-Ryu and Shito-Ryu**. Each form is derived in some way from the karate established by Gichin Funakoshi. Each one has its own techniques that rely heavily on the core tenets of karate in general.

Importance of Karate

Karate can help you feel stronger and better able to do daily activities. Karate is also known to help you feel better mentally and emotionally and can improve your overall quality of life. For people struggling with mental health problems such as depression or anxiety, karate training can help to reduce their symptoms.

Martial arts as educational system are of paramount importance for everybody especially for students. Karate benefits students at every aspects of their lives

such as physical, mental, spiritual and emotional developing balanced with co-ordination, focus, respect, discipline, self-defense is well known features of every practice.

Self-defense for women

A karate women's daily spiritual attitude is most important because she must, as far as is possible, always avoid conflict. This is one of the first rules of karate. Karate daily training is designed to help us avoid individual fights.

A woman who knows something of how to defend herself in a crisis is much better off than the woman who does not and who first tries to run away, because flight is often the best way to fall into your enemy's hands. A man who attacks a woman is sure to be stronger than his victim, but if the women will calmly apply the principles of the point and circle, which we explained earlier, and will learn the following few techniques, she will always be able to get away from any masher. In training you should first study and learn all of the body movements and leg actions slowly together and then try adding speed to them.



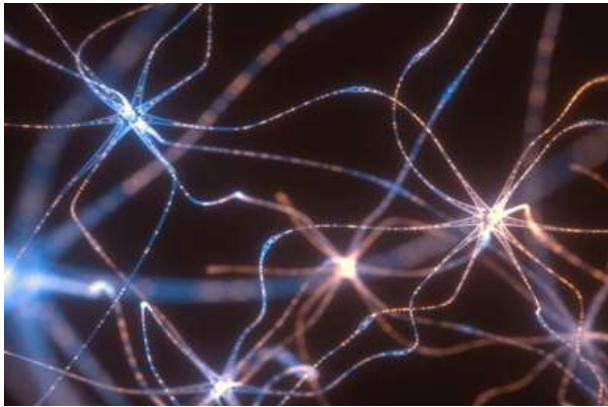
MACHINES THAT READ YOUR BRAIN WAVES

SYED MOHAMMED ADNAN

4AD18EC415

6th B sec, ECE

Sometimes a technology that's been simmering in the laboratory or the clinic for decades makes the leap to mainstream consumption almost overnight.



Take the cavity magnetron. The precursor to this curious form of vacuum tube was invented at General Electric around 1920. It wasn't until 1940 that British scientists found a magnetron design that could pump out microwave energy at unprecedented power. That discovery fueled a crash program at the MIT to build airborne radar units, an advance that helped the Allies turn back Nazi Germany in Europe. The conflict had barely ended when a Raytheon engineer noticed that microwaves could also melt chocolate. The "Radarange" debuted in 1947, and today there's a magnetron in virtually every kitchen.

The next old-but-new technology to pervade our lives may be so-called neural interfaces. Thanks to noninvasive tools that have been around for decades, such as electroencephalography (EEG) and functional magnetic resonance imaging (fMRI), physicians and neuroscientists can measure changes in your brain without drilling a hole in your skull. And now some of the problems that made these tools finicky, expensive and hard to interpret are being ironed out, meaning that neural interfaces are suddenly showing up at Amazon and Target. Which presents a challenge because measuring brain activity isn't like making microwave popcorn. There are enormous privacy and ethical issues at stake.

The story of Toronto-based InteraXon, a brain-machine interface start-up founded in 2007, shows how fast things are changing. Getting reliable brain-wave measurements via EEG used to mean pasting dozens of electrodes to a subject's scalp. But InteraXon built a wearable EEG device with just a few electrodes that rest against the forehead and behind the ears, along with software to classify the brain waves they measure. Low-frequency "alpha" waves indicate a relaxed state; higher-frequency "beta" or "gamma" waves indicate a busy or concentrating mind.

The company's first applications were on the whimsical side. Visitors to the Ontario pavilion at the 2010 Winter Olympics in Vancouver could don a headband and use their thoughts to control the lights shining on Niagara Falls and other distant Ontario landmarks. Later the company built thought-controlled slot cars and *Star Wars* games. "After all this thought controlling, we hit upon this very important recognition," InteraXon co-founder Ariel Garten told me. "Although you *could* control technology with your brain, the way that you did it was not very effective. Frankly, you could just turn the thing with your hand much more readily."

But in 2014 the company released its Muse headband, now in its second iteration: it pairs with a smartphone app to help users practice mindfulness meditation. When the software detects brain waves indicating a wandering mind, wearers hear feedback in the form of crashing waves or thunder. These sounds cue them to return their attention to their breath. "It's like doing a rep at the gym," Garten says. "That's you saying, 'Okay, I have this muscle called my attention, and I'm going to strengthen it.'"

But it's one thing to use EEG data to diagnose sleep disorders or epilepsy; it's quite another to start monitoring the brain states of millions of healthy consumers. So Garten also founded the Center for Responsible Brainwave Technologies, which aims to prevent privacy breaches, excessive scientific claims or other missteps that could derail the nascent neural-interfaces industry. "The goal is to create a set of standards to ensure that everybody's data is kept safe at all times and that the technology is used appropriately," Garten says.

Mary Lou Jepsen is onboard with that. She's a Silicon Valley hardware engineer who recently founded Openwater, a start-up building a ski-cap-shaped device that will use skull-penetrating infrared light to measure blood flow—a sign of which brain areas are working hardest. Jepsen conceived the technology as a low-cost substitute for fMRI for diagnosing brain injuries or neurodegenerative diseases. But one day, she says, it might also be used to read thoughts.



That could be a boon for people with disabilities, but it is also a privacy nightmare in the making. "I think the mind-reading scenarios are farther out, but the reason I'm talking about them early is because they do have profound ethical and legal implications," Jepsen says. "The only way we're going to release something is if we have ways to define what it means to be responsible."

As with so many other technologies, consumer neural interfaces seem destined to reach consumers before they're fully cooked. For now they'll be best served with a healthy side of caution.

Blue Brain Technology

Mohamed Imaduddin
8th Sem, EEE

Blue Brain - The name of the world's first virtual brain. That means a machine that can function as human brain. Today scientists are in research to create an artificial brain that can think, response, take decision, and keep anything in memory. The main aim is to upload human brain into machine. So that man can think, take decision without any effort. After the death of the body, the virtual brain will act as the man .So, even after the death of a person we will not lose the knowledge, intelligence, personalities, feelings and memories of that man that can be used for the development of the human society. No one has ever understood the complexity of human brain. It is complex than any circuitry in the world.

First, it is helpful to describe the basic manners in which a person may be uploaded into a computer. Raymond Kurzweil recently provided an interesting paper on this topic. In it, he describes both invasive and

non-invasive techniques. The most promising is the use of very small robots, or nanobots. These robots will be small enough to travel throughout our circulatory systems. Traveling into the spine and brain, they will be able to monitor the activity and structure of our central nervous system. They will be able to provide an interface with computers that is as close as our mind can be while we still reside in our biological form. Nanobots could also carefully scan the structure of our brain, providing a complete readout of the connections between each neuron. They would also record the current state of the brain. This information , when entered into a computer, could then continue to function as us. All that is required is a computer with large enough storage space and processing power. Many people believe firmly those we possess a soul, while some very technical people believe that quantum forces contribute to our awareness. But we have to now think technically.

However, that we need not know how the brain actually functions, to transfer it to a computer. We need only know the media and contents. The actual mystery of how we achieved consciousness in the first place, or how we maintain it, is a separate discussion.

Uploading Human Brain: The uploading is possible by the use of small robots known as the Nanobots. These robots are small enough to travel throughout our circulatory system. Traveling into the spine and brain, they will be able to monitor the activity and structure of our central nervous system. They will be able to provide an interface with computers that is as close as our mind can be while we still reside in our biological form. Nanobots could also carefully scan the structure of our brain, providing a complete readout of the connections. This information, when entered into a computer, could then continue to function as us. Thus the data stored in the entire brain will be uploaded into the computer.



Electronic Pills

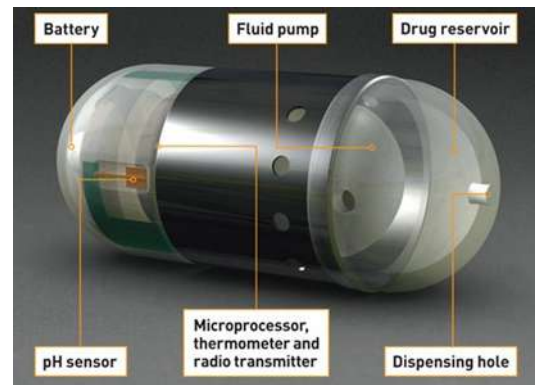
Falkiya Tahareem
8th sem, EEE

After years of investment and development, wireless devices contained in swallowable capsules are now reaching the market. Companies such as Smart Pill based in Buffalo, New York and Israel-based given imaging (PillCam) market capsules the size of vitamin tablets. These pills contain sensors or tiny cameras that collect information as they travel through the gastrointestinal tract before being excreted from the body a day or two later. These new electronic inventions transmit information such as acidity, pressure and temperature levels or images of the esophagus and intestine to your doctor's computer for analysis.



Doctors often use invasive methods such as catheters, endoscopic instruments or radioisotopes for collecting information about the digestive tract. So device companies have been developing easier, less intrusive ways, to gather information. Digestive diseases and disorders can include symptoms such as acid reflux, bloating, heartburn, abdominal pain, constipation, difficulty in swallowing or loss of appetite.

Doctors can inspect the stomach using endoscopic instruments. But some areas cannot be easily viewed, and finding out how muscles are working can be difficult. Electronic Pills are being used to measure muscle contraction, ease of passage and other factors to reveal information unavailable in the past.



TECHNOLOGY IMBALANCE

CHANDAN KUMAR M S
1ST YEAR
4AD19CS013

The topic technology imbalance is an interesting topic, rather saying it as an interesting topic, we can say it as the topic that the modern people have to think about it. In these days the whole earth is suffering from corona virus. The vaccine is still not found. This is known as technology imbalance, now let me tell you how?. Let's see the other part of technology where we have even reached Mars and also we have sent spaceships towards sun also. But here we even can't overcome against a simple virus. This is so similar to building a building by making one pillar very tall and the other short, obviously the building will fall right? Likewise only investing on one part of technology is very dangerous to us but not now, we may have to face the consequences in future. We take India as example where we are investing a loot for space research and other parts of technology but it is not same for medical part. We are lagging very much back in the medical field. We can say it so because, if we think of finding vaccine in today's technology we have, it may take us 2 years. Like first they extract the virus from infected ones, observations on it, finding vaccine, testing on animals, and then victims and then later manufacturing these takes time .In future we may have to face many problems like corona virus because of which the country is towards a lot of loss economically. Overcoming this loss in future is like disaster task for not only India but the other countries also .But other part where we invested a lot is not even helping us a little of point one percent. Whatever the technology improve they cannot create human beings right. So by this we cannot saying that it's wrong because it is also helping us, like one of major example is that if any asteroid or any anonymous is coming to hit us we can send an rocket from here and we can somehow manage to blasted in space and somehow we can overcome the problem . So by giving equal importance to everything will give you a good structured building I mean a life. At last I say that Instead of searching an replacement for Earth let's make it an irreplacement planet.

5 Best freelancing jobs during COVID-19 crisis

Kavayshree E D
Asst. Professor
Dept. of CSE

The COVID-19 pandemic has forced most people to stay at home. This may seem like a delirious situation but professionals can use this time well. Here is a list of 5 freelancing jobs that you can consider while in the COVID-19 lockdown.

Copywriters: Copywriter is responsible for writing original content that grabs the attention of the target audience and also matches the vision of a client.

Online Teachers: If you like teaching and are a subject matter expert , it is the right job for you. You can become a private tutor and start teaching students from your home via video calling.

Translators: If you're well versed with different languages, then you can find great work as a translator. A great aspect about translator jobs is many of them offer flexibility in terms of hours, location, and scheduling.

Video Editor / Producer: If you're well skilled with the editing techniques, video editing is the best job opportunity and most in-demand skill on these days.

Social Media Manager: Social Media Managers are responsible for planning, implementing, managing and monitoring the company's Social Media strategy and all these functions are possible to fulfill without going anywhere.

CAREER OPTIONS FOR COMPUTER SCIENCE GRADUATES

Kavayshree E D
Asst. Professor
Dept. of CSE

Computer Science is one of the favourite streams of students during their Bachelor of Technology (B.Tech) course. Most of India's 4,500+ engineering colleges offer an engineering degree in Computer Science (CS). The biggest reason behind this huge popularity is the variety of exciting job opportunities, students are offered after their graduation.

The demand for CS engineers has surged in the last decade as all the businesses around the globe started adopting cutting-edge computer solutions for rapid growth. Not only in India but abroad also, the demand for computer professionals has risen extensively in every walk of life. If you are wondering what career path you should go on after your engineering in Computer Science, here are some of the top career options for a fresh CS graduate.

1. Application Developer

The world has grown at a very fast pace. The information technology is not limited to just desktop computers but people are more inclined to use hand-held portable computers, like laptops, tablets, smartwatches, and smartphones to perform their day-to-day tasks. Therefore, the demand for computer professionals with skills in application development has increased. High salary packages, use of the latest technologies, joy at work, and reputed profile are a few of the perks of being an app developer.

2. Software Engineer

The second most popular career option for CS graduates is to become a software engineer. Software engineers are responsible for designing, developing, testing, and maintaining software products using various configuration management technologies. The most exciting part of a software engineer's job is to build a solution that can perfectly address a real-life problem.

3. Software Quality Engineer

Developing a software application might seem easy but there are chances the software has errors and bugs that can affect its functioning in the due course. Hence, companies hire computer science graduates to test their software and assure the quality of the end product. Software testing engineers are offered a handsome salary along with other perks associated with the job role.

4. Ethical Hacker

This is one of the most exciting job profiles that every CS engineer dreams of building a career into. The major work of an ethical hacker is to find the loopholes in and protect the systems, network, and software applications from getting compromised. Everyday, thousands of software applications are developed and clubbed together with systems, networks, and computer programs to maximise the usage of information technology. Ethical hackers ensure the security of these systems by preventing the unauthorised access to sensitive and private information. The ethical hackers ensure that the system is firewalled, security protocols are in place and sensitive files are encrypted.

5. Graphic Designer

Another interesting career option for computer science engineers is graphic designing. A graphic designer is responsible for developing engaging and brand-oriented graphics for the business in the form of logo, illustration, mailers, flyers, and a variety of media, mostly using graphic design software tools. The job role needs a pinch of creativity and innovation to conceptualise and build outstanding visuals that can boost the user-engagement across various marketing platforms.

ONLINE EDUCATION

MOHAMMED UMAR

6TH ECE , ATMECE

Online education is a flexible instructional delivery system that encompasses any kind of learning that takes place via the Internet. Online learning gives educators an opportunity to reach students who may not be able to enroll in a traditional classroom course and supports students who need to work on their own schedule and at their own pace.

The quantity of distance learning and online degrees in most disciplines is large and increasing rapidly. Schools and institutions that offer online learning are also increasing in number. Students pursuing degrees via the online approach must be selective to ensure that their course work is done through a respected and credentialed institution.

RATIONALE FOR CONSIDERING ONLINE EDUCATION

Online education has become a viable and exciting method for instructional delivery in the global business society that runs on a 24/7 schedule (24 hours a day/7 days a week) because it provides students with great flexibility. They do effectively in an online classroom as they do in the traditional classroom.

POSITIVE AND NEGATIVE EFFECTS OF LEARNING ONLINE

Online education offers many positive benefits for the students:

- They have flexibility in taking classes and working at their own pace and time face no commuting or parking hassles
- for learn to become responsible their own education with information available at their fingertips
- find the submission of assignments easy and convenient
- They may miss the face-to-face interaction with the instructor and among students
- May prefer to attend traditional classes with an instructor who teaches and guides them through the course
- find access to the necessary technology challenging and the availability of technical support limited
- In addition, some administrators and instructors who do not understand the workload may display a negative attitude toward online education.

FUTURE OF ONLINE EDUCATION

Online teaching is here to stay. Many students prefer the online classroom since it offers flexibility in their busy schedules. With the proliferation of information and knowledge, students must become lifelong learners in today's world, and online education plays an important role in helping individuals access the learner-centered and self-directed instruction.

With enhanced software, hardware, and Internet access, more options for online education will become available. With student enrollments increasing faster than classrooms can be built, students are becoming more proficient with technology, and students pursuing an education will meet their needs, the future of online education will continue to grow. Online degree programs will become more widely accepted as they become a more common practice.

HYDROGEN POWERED AUTOMOBILES

SYED MOHAMMED ADNAN

4AD18EC415, 6th B sec, ECE



Right now, you could get behind the wheel of a car that burns zero fossil fuels and produces zero pollution or greenhouse gases, runs on the same chemical reaction that powers rockets, and gets twice as much mileage as a Tesla. It's called a hydrogen fuel-cell vehicle, but unless you live in California, you may have never seen one on the road.

These days, electric cars driven by batteries seem destined to rule our roads, while hydrogen cars—once toasted as the vehicle of the future—are rare and relatively unheralded. Fuel cells actually have lots of advantages over the competition, including better mpg or faster refueling times. So what happened to hydrogen cars?

How It Works

The first thing you should know is, hydrogen cars *are* electric cars. We tend to think of EVs only in terms of battery-powered vehicles like Teslas and the Nissan Leaf, but despite the fact that they run on a gaseous fuel, hydrogen fuel cells actually power their vehicles with electricity. “When we talk about electric cars, that includes plug-in hybrids, hybrids, battery electrics, fuel cells, and anything else that may come along later that still uses an electric motor,” says Keith Wipke, laboratory program manager for fuel cell and hydrogen technologies at the National Renewable Energy Laboratory.

But a fuel cell is much different than a battery. The hulking lithium-ion battery in the belly of a Tesla Model

S stores electrical energy as a voltage across an anode and cathode. A fuel cell produces electricity by means of electrochemical reactions between a fuel, typically hydrogen, and the oxygen in the air. During the reaction, hydrogen and oxygen combine to produce electrical energy and harmless water vapor as a byproduct. If that initial chemical reaction is large enough, it can move an entire vehicle.



Toyota Mirai, a hydrogen fuel cell car.

This dance of mechanics and chemistry is similar to the hydrogen-oxygen reaction that powers rocket engines (you may remember it from *The Martian*). In this case the energy produced by the reaction is run through a fuel cell and produces electricity instead of an explosion. In both cases, an extreme amount of energy is released with no toxic byproducts, which is what makes hydrogen fuel cells such a great power source for electric vehicles.

The hydrogen itself can be produced by running this process in reverse, which is called electrolysis. Running an electrical current through water separates the H₂O into hydrogen and oxygen. More commonly, however, hydrogen is produced at scale from natural gas in a process called steam-methane-reforming in which high-temperature and high-pressure steam is combined with natural gas to create hydrogen.

THIS DANCE OF MECHANICS AND CHEMISTRY IS SIMILAR TO THE HYDROGEN-OXYGEN REACTION THAT POWERS ROCKET ENGINES.

This process does produce some carbon dioxide, so the hydrogen fuel itself isn't 100 percent clean. But it compares favorably with CO2 emissions related to battery electrics and hybrids, and it's obviously better than any fossil fuel vehicle in terms of environmental impact.

Currently, the state of California mandates that at least 33 percent of the hydrogen that goes into vehicles has to come from renewable sources, with the hope of eventually marching toward 100 percent renewable energy. That brings fuel-cell vehicles in line with battery electrics running off grid power, as California's grid is mandated to be 33 percent renewable by 2020.

Many Positives, One Costly Negative



As battery electric cars come to the fore, the automotive industry is grappling with their two major downsides for drivers. One, it can take hours to fully charge a battery vehicle (if you don't have access to a fast charger), and two, even with a full battery most electric cars struggle to travel half the distance of a conventional car on a full tank of gas.

Fuel-cell vehicles have neither problem. Hydrogen can be pumped into a vehicle's fuel tank just like gas. You can fill up quickly, the same way you would with gas or diesel. And once it has a full tank, a fuel-cell vehicle can travel just as far as a gas vehicle. The Toyota Mirai has the shortest range of any commercial fuel-cell sedan currently on the market and it goes 317 miles on a full tank. That's almost 50 percent more range than the 220 miles the base model Tesla Model 3 can travel on a single charge.

"YOU CAN CHOOSE WHATEVER KIND OF ELECTRIC DRIVE MOTOR YOU WANT AND

APPLY IT. THERE IS NO BARRIER THERE."

"If you look at how much energy is actually flowing through your hand as you're holding a dispenser at a gasoline pump, it's on the order of 1 to 2 megawatts," Wipke says. Compare that to the 2 kilowatts—a thousand times less power—that's available at a standard wall outlet. It's easy to see why charging times are so long for battery electrics.

"With hydrogen, you're still moving molecules. As long as you have enough pressure and low-resistance flow paths, then you can push the molecules from the station to the car very quickly."

Once those molecules get into the car, there's little difference between a fuel-cell vehicle and a battery-powered car. Battery vehicles are famous for their incredibly high performance—Tesla recently set a 0-60 record with one. But according to Stephen Ellis, fuel cell vehicle manager at American Honda, fuel cell cars can hold their own.

"Put enough motor in a [Honda] Clarity and it could hit those 0-60 times also," he says. "Again, the Clarity fuel-cell is an all-electric car. You can choose whatever kind of electric drive motor you want and apply it. There is no barrier there."

However, all those benefits currently come at a high price. Honda's Clarity fuel cell vehicle currently leases at almost twice the cost of their battery model. Fortunately, that does include the cost of fuel, which currently sits around \$14 per kilogram of hydrogen. In terms of energy, that's the equivalent of around \$5.60 for a gallon of gasoline. The cost of both the vehicle and the fuel should go down over time, but for now, the advantages of fuel cells will come with a hefty price tag.

Fill'er Up... Where, Exactly?



“Consumers love the vehicles,” says Wipke. “The challenge has really been building fueling stations fast enough to keep up with the demand.”

While the fuel-cell industry isn't meeting that demand, it's not for a lack of trying. The industry is opening approximately one new fueling station a month, and is on track to meet its goal of 200 stations in California by 2025. Even so, hydrogen would remain far behind the approximately 8,500 gas stations currently in the state, as well as the 17,000 electric charging stations for battery vehicles.

Elsewhere, hydrogen infrastructure barely exists in the rest of the U.S., and fuel-cell cars are not sold in most states. There are a couple of fueling stations in New York and Connecticut, but Wipke says the Northeast is four to five years behind California. With its density and political climate, the Northeast may indeed be the place for hydrogen's next boom. But building a robust network would be harder than it was in California.



hydrogen fuel-cell bus.

“The challenge there has been that it's not just one state, so you've got to get a bunch more people involved and comfortable with the technology,” says Wipke. “It's a slower process.”

He estimates it'd take until the early 2020s for fuel-cell vehicles to become a viable mode of transportation in New York. Even though that's years behind hybrid and electric infrastructure, Wipke thinks hydrogen cars can close the gap.

H.O.P.E

HOLD ON

MOHAMMED UMAR
6TH ECE, ATME

Briefly visible above the vapor, Gathering the last of the light smoke mingled with mist she walked down the deserted path.

Swirling through the misty scenes, her thoughts seeking the broken Remnants of her yester droughts with nonchalance coloring the scenario grey she stood still as the words echoed back.

Pulling her deeper into the eerie dark of her sorrow reflecting back in shattered bits orphaned and abandoned, she walked the Alley solitude enveloping the tiny Evangeline

Her life, a desperate note where one could scribble up a pile her life, a twig to bend and then break

She cannot but hide, skin, hair and all with no words her lip can claim in the wilderness with her bare feet she glanced up to see of stars in the midst of silver studs. A silver ball

BUILDING THE MONARCHS OF SPEED: F1

Deepak M V S
TPO, ATMECE

A legacy built over 60 years, Formula 1 teams have developed, tested, and built the fastest and most technologically impressive cars the world has ever seen. Accelerate from 0 to 360kph in about 10 seconds, fling around a corner at such speeds that the driver experiences g-force close to that of an Apollo astronaut during Earth re-entry, and then decelerate by 100kph in just 0.7 seconds thanks to strong brakes and massive down force. *Most of these machines are designed and built from scratch every year and most of these 10 competing teams are from Europe.*

Main discovery of downforce:

Marking the first thirty years of Formula 1's history, the cars were technically assessed as dumb mechanical beasts unknown beyond the driver, tyres, and power train in 1977, Team started paying more attention to aerodynamics—specifically the ground effect, which, in the world of motorsport, is usually known as *downforce*. The underside of the Lotus 79 F1 car was curved like an upside-down airplane wing, creating a pocket of low pressure that essentially sucked the car to the ground.



Lotus 79 F1

Understandably the Lotus 79 was massively successful, and before long—once the other teams eventually fished out Lotus' black magic—every Formula 1 car was engineered to provide maximum downforce. One



Brabham Bt46

In the next few years Formula 1 got faster and faster, especially around corners. Eventually, following a number of accidents and the death of Gilles Villeneuve in 1982, the FIA mandated a return to flat-bottomed cars.

Largely considered more than the car's weight the downforce makes the car stick to the road so well that through corners the driver can be subjected to forces of 5 Gs – five times the pull of gravity

Unusual experience of Five Gs can stop a driver breathing, and make his head weigh 25kg and their 70-kilogram body suddenly weighs 350kg.

Wind Tunnel Testing

Wind tunnel usage is similarly restricted: F1 teams are only allowed 25 hours of "wind on" time per week to test aerodynamics of new chassis designs. 12 years ago, in 2007, it was very different with no restriction on teraflops, no restriction on wind tunnel hours. Teams were doing three shifts running the wind tunnel 24/7. It got to the point where a lot of teams were talking about building a second wind tunnel; Williams built a second tunnel.

Governing Driver Health

F1 drivers are serious about fitness and are professionally managed. Their steeds can brake from 185kmh to a halt within 80 metres. Former World champion Jacques Villeneuve once described the braking force as "like having someone drop a brick around your neck". The thinner and lighter the driver, the better the fit in the tiny cockpit. All the top drivers train like elite athletes to endure the rigours – and the high temperatures – of a race. Muscle strength is critical, especially in the neck along with Head and Neck Support system, or HANS, which reduces the force applied to the neck by up to 86 percent.



Wind Tunnel Setup



Aerodynamic Analysis

Between races, practice and the demands of corporate promotion, drivers undergo vigorous short-session training and psycho-physical therapy programs devised by the teams. Toyota, for example, asks its F1 drivers to take food intolerance tests and complete personality questionnaires in a bid to find each man's ultimate "round-the-clock" training regime. The driver's blood pressure can rise by up to 50 percent during racing and loses up to three litres of fluid in a race. His heart rate can reach 190 beats per minute on

the starting grid and exceed 200 during the race. The pulse rate of a healthy young person is typically about 60.

Economics of racing

Each team starts the season in Melbourne with two cars and at least one spare. Teams in contention for the championship will ensure each driver has a spare car. It takes a lot of money and brainpower to generate this sort of vehicle. The outrageous costs have drawn industry criticism arguing that the major players must cut costs or risk extinction. The top teams – Williams, McLaren, and constructors' champion for the past few years, Ferrari – each budget on \$400 to \$500 million a racing season and employ at least 350 people. A steering wheel alone costs \$120,000 and is made of carbon fibre. Most teams' aerodynamic departments own full-sized (if not, then half-scale) rolling-road wind tunnels and have vast computing power. Ferrari has its own test circuit at Maranello in Italy.

McLaren also invented a unique rear differential to better handle that awesome power; it too was banned. One engineer estimated that half of his 15-year career had been spent on developing gear that was now illegal. The job of the engineer is creative; to design and build something that has never been built before. You could say that engineering comes closest to art in the design of today's F1 car.

Race proven

Many passenger car features have come from racers, among them turbochargers, disc brakes (and superior brakes in general), improved gearboxes, advanced tyre technology, Aerodynamics and sophisticated valve trains

Global game

F1 races command the third-biggest global television audience today, after the Summer Olympics and World Cup soccer. In 2004, each race is expected to attract 300 million viewers. For the Monaco GP, regarded as the sport's "jewel in the crown", the figure rises to nearly 600 million. On local free-to-air television.

ಪ್ರಕೃತಿ ಕಲಿಸಿದ ಪಾಠ

ಪರಿಸರವಾದಿಗಳು
ಬೊಬ್ಬೆ ಹೊಡೆದು, ಕೇಕೆ ಹಾಕಿ
ಬಾಯಿ ಬಡಿದುಕೊಂಡರು ಕೇಳಲಿಲ್ಲ
ಯಾರೂ ಕಲಿಯಲಿಲ್ಲ 'ಪಾಠ'
ಮೋದೀಜಿಯವರು 5 ವರ್ಷಗಳಿಂದ
ಸ್ವಚ್ಛ ಭಾರತಕ್ಕಾಗಿ ಶ್ರಮಿಸಿದರೂ
ಕಲಿಯಲಿಲ್ಲ ಪಾಠ, ಅದಕ್ಕಾಗಿ
ಇನ್ನೂ ಶ್ರಮಿಸುತ್ತಿಹರು ಹಲವರು
ಅವರೆಲ್ಲರ ಶ್ರಮ ಸಾರ್ಥಕವಾಗಿದೆ ಇಂದು
ಈಗ ಒಮ್ಮೆ ಹೋಗಿ ನೋಡಿ
ಅರಮನೆ ನಗರಿಯ ರಸ್ತೆಯ ಇಕ್ಕೆಲಗಳ
ಗುಡಿಸಿ, ಸಾರಿಸಿ, ರಂಗೋಲಿ ಹಾಕಿದಂತಿದೆ
ಬೇಕೆಂದರೂ
ಒಂದು ಕಾಗದದ ಚೂರಾಗಲೀ,
ಪ್ಲಾಸ್ಟಿಕ್ ಕಣವಾಗಲಿ ಸಿಗದು
ಧೂಮಪಾನ, ಮದ್ಯಪಾನದ ಸೋಂಕಿಲ್ಲದೆ
ಶಬ್ದಮಾಲಿನ್ಯ, ವಾಯುಮಾಲಿನ್ಯವಿಲ್ಲದೆ
ಪಶು-ಪಕ್ಷಿ ಸಕಲ ಜೀವರಾಶಿಗಳು
ಸ್ವಚ್ಛಂದ ಗಾಳಿಯ ಸೇವಿಸುತ್ತ
ನೆಮ್ಮದಿಯಿಂದಿಹವು
ಇದೇನು ನಮ್ಮ ಮೈಸೂರೋ ಅಥವಾ
ವಿದೇಶವೋ ಎಂಬಂತೆ ಅಚ್ಚರಿ ಮೂಡಿದೆ
ಈ ಬದಲಾವಣೆಗೆ ಕಾರಣ,
“ಕೊರೋನಾ”ದ ನೆಪದಲ್ಲಿ
ಪ್ರಕೃತಿಮಾತೆ ತನ್ನನ್ನು ತಾನೇ ರಕ್ಷಿಸಿಕೊಳ್ಳಲು
ಮಾಡಿದ ಉಪಾಯವೇನೋ ಎಂದೆನಿಸುತ್ತಿದೆ ನನಗೆ
ಹೀಗೆಯೇ ಸ್ವಚ್ಛ ಪರಿಸರಕ್ಕಾಗಿ “ಶ್ರಮಿಸೋಣ”
ಭೂತಾಯಿಯ ಋಣವಾ “ತೀರಿಸೋಣ”
“ಕೊರೋನಾ” ಓಡಿಸೋಣ

- ಅನುಷಾ ಎ.ಎಸ್.

ಬಿಸಿಲಲ್ಲಿ ಬಳಲಿದ ಮುದುಕ ತಲೆಸುತ್ತಿ ಬಿದ್ದರು
ನೋಡದ ಯುವಕ
ಯುವತಿಯ ಕೈಯಿಂದ ಜಾರಿತು ಪುಸ್ತಕ
ಆಕೆಯ ಕೈಗಿಟ್ಟು ಹೇಳಿದ ನಾನೊಬ್ಬ ಸಮಾಜ ಸೇವಕ
ಸುಮ್ಮೆ ಬರೆಯೋದಿಲ್ಲ ನನ್ನಾಣೆ
ಇದು ಹುಣಸೂರಲ್ಲಿ ನಡೆದ ನೈಜಘಟನೆ

- ಮಂಜುನಾಥ ಹೆಚ್.ಎಸ್.

ಪ್ರಕೃತಿ, ದೇಶ

ಅಹಂಕಾರದಲ್ಲಿ ಮೆರೆಯುತ್ತಿದ್ದರು ಜನರು
ಮಹಾಮಾರಿಯೊಂದು ಬಂತು ಕದಿಯಲು ಅವರ ನೆಮ್ಮದಿ ನೆತ್ತರು |
ಮರಣ ಹೊಂದಿದರು ಒಬ್ಬರ ಹಿಂದೊಬ್ಬರು
ಒರೆಸುವಾರು ಅವರ ಕುಟುಂಬದ ಕಣ್ಣೀರು ||

ಪ್ರಕೃತಿಯ ಮೇಲೆ ಪ್ರತಿದಿನ ನಡೆದಿದೆ ಪ್ರಹಾರ
ಕಿವಿಗೊಟ್ಟು ಕೇಳುವರಿಲ್ಲ ಈ ಘೋರ |
ಪ್ರತಿಯಾಗಿ ಆಗುತ್ತಿಲ್ಲ ನೀರು ಆಹಾರ
ಎಲ್ಲರೂ ಬಿಟ್ಟು ಹೋಗುತ್ತಿದ್ದಾರೆ ಇಹಪರ ||

ಈ ನಷ್ಟದಿಂದ ನಾವು ಕಲಿಯುವುದು ಬಹಳಷ್ಟಿದೆ
ಕಲಿಯದಿದ್ದರೆ ನಮ್ಮ ಅವನತಿ ಹತ್ತಿರದಲ್ಲಿದೆ |
ನಮ್ಮ ಪ್ರಗತಿಗಾಗಿ ಇರುವ ಉಪಾಯ ಒಂದೇ
ಪ್ರಕೃತಿ, ಭೂಮಿ ರಕ್ಷಣೆಗಾಗಿ ಹೆಜ್ಜೆಯನ್ನು ಇಡೋಣ ಮುಂದೆ ||

ಬದುಕೋಣ ನಾವು ಉತ್ತಮರಾಗಿ
ಬೆಳಗೋಣ ದೇಶವನ್ನು ಉಜ್ವಲ ರಾಷ್ಟ್ರವಾಗಿ |
ಹಲವಾರು ಅವಕಾಶಗಳು ಕಾದಿದೆ ನಮಗಾಗಿ
ಉಪಯೋಗಿಸಿಕೊಂಡು ರೂಪಿಸೋಣ ದೇಶವನ್ನು ಮಾದರಿಯಾಗಿ ||

- ಶ್ರೀಕಂಠಶರ್ಮ ಎಂ.ಎಸ್

ಗೆಳೆತನ

ಭೇಟಿಯಾದೆವು ಅಪರಿಚಿತರಾಗಿ
ಬೆಳೆದವು, ಕಲಿತವು ಸ್ನೇಹಿತರಾಗಿ |
ನಮಗೆ ಬೇಧ-ಭಾವ ತರಲಿಲ್ಲ ಆಸ್ತಿ ಅಂತಸ್ತು
ನಾವು ಮಾಡುತ್ತಿದ್ದ ಕೀಟಲೆಗೆ ಶಿಕ್ಷಕರಿಗೆ ಸುಸ್ತೋಸುಸ್ತು ||

ಹೆತ್ತವರ ನಂತರ ಸ್ನೇಹಿತರೇ ಎಲ್ಲಾ
ಅವರಿಲ್ಲದ ಜೀವನದಲ್ಲಿ ಸತ್ವವೇ ಇಲ್ಲ |
ಯಾವ ಗಳಿಗೆಯಲ್ಲಾದರೂ ಆಸರೆಯಾಗಬಲ್ಲ
ಏನೇ ಕೇಳಿದರೂ ಇಲ್ಲ ಎನ್ನುವುದಿಲ್ಲ ||

ಯಾವುದೋ ಕೆಟ್ಟ ಗಳಿಗೆ ಜಗಳವಾಗಿ
ಹೊಡೆದಾಟ ಮಾಡಿಕೊಂಡೆವು ವೈರಿಗಳಾಗಿ |
ನಾವೇ ಕೇಳೋಣ ಕ್ಷಮೆಯನ್ನು ಅದಕ್ಕಾಗಿ
ಎಲ್ಲಾ ಗೆಳೆಯರು ಬಾಳೋಣ ಒಂದಾಗಿ ||

ನಮ್ಮ ನಡುವೆ ಯಾರು ಸಂಶಯ ಬಿತ್ತಿದರೂ
ನಾವಿರಬೇಕು ಇದ್ದಂತೆ ಕರ್ಣ-ದುರ್ಯೋಧನ
ಎಷ್ಟೇ ಕಡುಕಷ್ಟ ಬಂದರೂ |
ಚಿರವಾಗಿ ಉಳಿಯಲಿ ನಮ್ಮ ಗೆಳೆತನ ||

- ಶ್ರೀಕಂಠಶರ್ಮ ಎಂ.ಎಸ್

ನೆನಪುಗಳು

ಹೆಗಲ ಮೇಲಿರುವ Bag ನಲ್ಲಿ ಭಾರವಾದ ಪುಸ್ತಕಗಳು.....
ಅಲ್ಲಿಂದಲೆ ಶುರುವಾಯಿತು ನಮ್ಮ ಪುಟ್ಟ ಜೀವನದ
ಅವಸ್ಥೆಗಳು.....
ಶಾಲೆಯ ಮೊದಲ ದಿನವೆ ನಮ್ಮ ಕಣ್ಣಲ್ಲಿ ನೀರಿನ ಅಲೆಗಳು.....
ಒಳಗೆ ಪ್ರವೇಶಿಸಿದರೆ ಸುತ್ತ 4 ಗೋಡೆಗಳು

ಮೊದಲ ದಿನ ಮಾತ್ರ ಎಂಬ 'Hai Students' ಪ್ರೀತಿ
ಮಾತುಗಳು.....
ನಂತರ ಪಕ್ಕದಲ್ಲಿರುವವರಿಗೆ 'Handshake' ಗಳು.....
Friendship ಗಳು, Box sharing ಗಳು

ಖುಷಿಯಲ್ಲೆ ಬಂತು ನಮ್ಮ High School ನ ಸಮಯಗಳು.....
ಪಾಠ ಮಾಡುವಾಗ ನಮ್ಮ ಕೀಟನೆಗಳು.....
Teachers ಬೈದಾಗ, ಎದ್ದು ನಿಲ್ಲುವ ಗೊಂಬೆಗಳು.....
Questions ಕೇಳಿದಾಗ ತಿರುಗಿಸುವ ಪುಟಗಳು.....
ಉತ್ತರ ಸಿಗದಿದ್ದಾಗ Teachers ಎದುರು ಬಿಡುತ್ತಿದ್ದ 32
ಹಲ್ಲುಗಳು

Sports ನಲ್ಲಿ ನಾವು ಗೆದ್ದ ಆಟಗಳು, ಮಾಡಿದ Party ಗಳು.....
ದಿಡೀರ್ ಬಂದ Exam ಗಳು, ಗೊತ್ತಿಲ್ಲದೆ ಅವೆಲ್ಲ ಮುಗಿಸಿ
ಹೋಗುವಾಗ ಬಂದ ಪನ್ನೀರಿನ ಹನಿಗಳು

“ಇವೆಲ್ಲವು ನಮ್ಮ ಸಂಸ್ಥೆಯ ಸವಿ ಸವಿ ನೆನಪುಗಳು
ಇನ್ನು ಹಾಗೆಯೇ ಉಳಿದಿರುವ ಎಷ್ಟೋ ಕನಸುಗಳು
ಮುಂದೆಂದೂ ಬಾರದ ಈ ಕ್ಷಣಗಳು
ನಮ್ಮ ಜೀವನದ ಅಮೂಲ್ಯವಾದ
ನೆನಪುಗಳು”

– ನಯನ ಕೆ.ಎಸ್

ಕರೋನ ಜಾಗೃತಿ

ಓದು ಮುಗಿಸಿ, ದುಡಿಯುವ ಭರದಲ್ಲಿ ಹೆತ್ತವರು ಮತ್ತು
ನಮ್ಮೂರ ತೊರೆದು ಸಾಗಿದೆ ಬಹುದೂರಹಂಗಳಿಸಿ
ಸಂಪದಾನೆ ಮಾಡುತ್ತಾ ಯಾಂತ್ರಿಕ ಬದುಕಲ್ಲಿ ಮರೆತೆ
ನಮ್ಮವರ.
ಕರೋನ ಬಂತು, ಸುತ್ತ ನೋಡಿದರೆ ಯಾರಿಲ್ಲ ನನ್ನ ಹತ್ತಿರ
ನೆನಪಿಸಿತು ಹೆತ್ತವರ ಹಾಗೆ ನಮ್ಮೂರ ಬದುಕ.
ಹಚ್ಚ ಹಸುರಿನ ನಡುವೆ ಕಳೆದ ಸುಂದರ ಬದುಕ.
ಆಗ ಅರಿವಾಯಿತು ನಮ್ಮವರು, ನಮ್ಮೂರು ಒಂದೇ ಶಾಶ್ವತ,
ದುಡಿದ ಊರು ಓಡಿಸಿತು, ದುಃಖದಲ್ಲಿ ಕಣ್ಣು
ಒದ್ದೆಯಾಯಿತು. ಏನು ಮಾಡಲಿ ನನ್ನ ಮನೆ ಸೋತಿತ್ತು.

– ಯೋಗೇಶ್ ಕೆ. ಸಿ, ಲ್ಯಾಬ್ ಅಸಿಸ್ಟೆಂಟ್

ಕಾಲಚಕ್ರ

ಎಲೈ ಮಾನವನೇ, ವಿಶಾಲವಾದ ಸ್ವರ್ಗದಂತಹ ಈ ಪ್ರಪಂಚದಲ್ಲಿ
ಸೌಂದರ್ಯ ಹೆಚ್ಚಿಸುತ್ತಿದ್ದ ಪ್ರಾಣಿಪಕ್ಷಿ ಗಿಡಮರಗಳಾದ ನಮ್ಮನ್ನು
ನೀನು ಕೊಂದೆ. ಇದರಿಂದ ನಿನಗೆ ಕ್ಷಣ ಮಾತ್ರದ
ಪ್ರಯೋಜನವಾಗಿದೆ. ಆದರೆ ಇದರಿಂದ ನಿನಗಾದ ನಷ್ಟ ಹಲವು.
ನಿನ್ನಲ್ಲಿ ಅಹಂಕಾರ, ಮದ, ಮತ್ಸರ, ಅತಿ-ಆಸೆ ಮುಂತಾದ ಕೇಡು
ಬುದ್ಧಿ ಹೆಚ್ಚಾಯಿತು. ನಿಮ್ಮ-ನಿಮ್ಮಲ್ಲಿ ವೈಮನಸ್ಸು ಹುಟ್ಟಿತು.
ಹಸಿದವರ ಸಂಖ್ಯೆ ಹೆಚ್ಚಾಗಿ ಕಳ್ಳತನ ದರೋಡೆ ಎಂಬ ದುಷ್ಟತ್ಯಕ್ಕೆ
ನಿನ್ನನ್ನು ನೀನು ತೊಡಗಿಸಿಕೊಂಡೆ. ಆಸ್ತಿ-ಅಂತಸ್ತು ಮಾಡಲು
ಕಾಡುಗಳನ್ನು ನಾಶ ಮಾಡಿದೆ. ಇಂದು ನೀನು ಉಸಿರಾಡಲು ಶುದ್ಧ
ಗಾಳಿ ಸಿಗದೆ, ಕಾಲಕ್ಕೆ ತಕ್ಕಂತೆ ಮಳೆ-ಬೆಳೆ ಇಲ್ಲದೆ ವಿನಾಶದ
ಅಂಚಿನಲ್ಲಿರುವೆ. ಈ ನಿನ್ನ ಸ್ವರ್ಗದಂತಹ ಈ ಪ್ರಪಂಚ
ನರಕವಾಗುತ್ತಿದೆ ಹಾಗೂ ನಿನ್ನ ಅಮೂಲ್ಯವಾದ ಜನ್ಮವನ್ನು
ವ್ಯರ್ಥಮಾಡಿಕೊಳ್ಳುತ್ತಿರುವೆ. ಏ ಮಾನವನೇ ಕಾಲದ ಚಕ್ರ
ತಿರುಗುತ್ತಲೇ ಇದೆ. ಕೇಡುಗಾಲ ಮುಗಿಯಲೇ ಬೇಕು. ಸತ್ಯಕಾಲ
ಶುರುವಾಲೇ ಬೇಕು.

ಪ್ರಕೃತಿಮಾತೆಯು ತನ್ನ ಮಕ್ಕಳಿಗೆ ಬೇಕು-ಬೇಡಗಳನ್ನು ಸರಿಯಾಗಿ
ವಿಂಗಡಿಸಿದ್ದಾಳೆ. ಎಂದಾದರೂ ನೀನು ಜಿಂಕೆ ಮರಿಯು
ವಾಂಸವನ್ನು ಹುಲಿಯು ಹುಲ್ಲನ್ನು ತಿನ್ನುವುದನ್ನು
ನೋಡುವೆಯಾ? ಆದರೆ, ನಿನಗೆ ಸಸ್ಯಾಹಾರಿ ಆಹಾರವೂ ಬೇಕು...
ಮಾಂಸಾಹಾರಿ ಆಹಾರವೂ ಬೇಕು. ಹಾಗಾದರೆ ಪ್ರಕೃತಿ ನಿನ್ನನ್ನು
ತಿನ್ನುವುದು ತಪ್ಪೇ...?

ಪ್ರಾಣಿ ಪಕ್ಷಿಗಳನ್ನು ಪಂಜರದಲ್ಲಿ ಸೆರೆ ಮಾಡಿದೆ. ಅದೇ ರೀತಿ ಕಾಲವು
ಬದಲಾಗಿದೆ. ಇಂದು ನಿನ್ನ ಸರದಿ. ಕಾಲ ಮನುಷ್ಯರೆಂಬ
ನರರಾಕ್ಷಸರನ್ನು ಪಂಜರದಲ್ಲಿ ಸೆರೆಹಿಡಿದು, ಬಲಿ ತೆಗೆದುಕೊಳ್ಳುತ್ತಿದೆ.
ಪ್ರತಿಯೊಬ್ಬ ಮಾನವನಿಗೆ ನೀತಿಯ ಬೋಧನೆ ಮಾಡುತ್ತಿದೆ. ಜನರ
ನಡುವೆ ಪ್ರೀತಿ, ಸ್ನೇಹ, ಒಬ್ಬರಿಗೊಬ್ಬರು ನೆರವಾಗಿ ನಿಲ್ಲುವುದು
ಹೆಚ್ಚುತ್ತಿದೆ. ಜೀವ ಅಳಿವು-ಉಳಿವು ಎಂಬ ವಿಷಯ ಬಂದಾಗ
ಯಾವ ಆಸ್ತಿ-ಅಂತಸ್ತು ಲೆಕ್ಕಕ್ಕೆ ಬಾರದು. ಬದಲಾಗಿ ವಿಶ್ವಾಸ,
ಬಾಂಧವ್ಯ ಮುಖ್ಯ ಎಂಬುದನ್ನು ಅರಿವು ಮೂಡಿಸುತ್ತದೆ. ಪ್ರಾಣಿ-
ಪಕ್ಷಿಗಳು ಸಂತೋಷದಿಂದ ಕುಣಿದು ಕುಪ್ಪಳಿಸಿ ನಲಿದಾಡುತ್ತಿವೆ.
ಗಿಡ-ಮರಗಳು ಮನುಷ್ಯರ ಮಧ್ಯಸ್ಥಿಕೆ ಇಲ್ಲದೆ ಚಿಗುರುತ್ತಿವೆ. ಭೂಮಿ
ತಾಯಿ ನಮ್ಮ ಹೊರೆಯನ್ನು ಸಹಿಸುತ್ತ ತನ್ನ ಮಕ್ಕಳಿಗೆ ಮತ್ತೊಂದು
ಅವಕಾಶ ನೀಡುತ್ತಿದ್ದಾಳೆ. ಈಗಲಾದರೂ ಎಚ್ಚೆತ್ತುಕೊಂಡು ಬದುಕನ್ನು
ಸಾರ್ಥಕಗೊಳಿಸು. ಕಾಮ, ಕ್ರೋಧ, ಲೋಭ, ಮದ, ಮತ್ಸರ ಎಂಬ
ಅರಿಷಡ್ವರ್ಗಗಳನ್ನು ತೊರೆದು ಪ್ರೀತಿ, ಸ್ನೇಹ, ವಿಶ್ವಾಸ,
ಬಾಂಧವ್ಯವನನು ಬೆಳೆಸಿಕೋ.

ಯಥಾ ಯಥಾಹಿಂ ಧರ್ಮಸ್ಯ ಗ್ಲಾನಿರ್ಭವತಿ ಭಾರತ
ಅಬ್ಯುಧ್ವಾನಮ ಧರ್ಮಸ್ಯ ತಥಾತ್ಮನಮ್ ಸಿಜಮ್ಯಹಂ

ಪರಿತ್ರಾಣಾಯ ಸಾಧುನಾ, ವಿನಾಶಾಯ ಜ ದುಶ್ಚೈತ
ಧರ್ಮಸಂಸ್ಥಾಪನಾರ್ಥಾಯ, ಸಂಭವಾಮಿ ಯುಗೇ ಯುಗೇ ..!

– ಚೈತ್ರ ಬಿ.2ನೇ ಸೆಮಿಸ್ಟರ್, ಇಸಿಇ

ಮಿತ್ರ ಎಂಬ ರತ್ನವನ್ನು ಯಾರು ಸೃಷ್ಟಿಸಿದರೋ...

ಮೊನ್ನೆ 'ಹುಟ್ಟು' ಎಂಬ ವಿಷಯವನ್ನು ಕುರಿತು ಬರೆಯುವಾಗ ಒಂದು ಹುಟ್ಟಿನ ಜೊತೆಗೆ ನೂರಾರು ಸಂಬಂಧಗಳು ಹುಟ್ಟುತ್ತದೆ ಅನಿಸಿತು. ಅದು ಸತ್ಯವೂ ಕೂಡ. ಆ ಸಂಬಂಧಗಳು ನಾವು ಬೇಡವೆಂದರೂ ಸಾಮಾಜಿಕವಾಗಿ ಬರುವಂಥದ್ದು ಮತ್ತು ಆ ಸಂಬಂಧಗಳಿಗೂ ನಮ್ಮ ಜನನ ಸಮಯಕ್ಕೂ ಸಾಮ್ಯವಿರುತ್ತದೆ. ಅಪ್ಪ ಅಮ್ಮ ಅಣ್ಣ ತಮ್ಮ ಇವು ಈ ಸಾಲಿನವುಗಳು. ಇನ್ನು ಕೆಲವು ಸಂಬಂಧಗಳು ಸಾಂದರ್ಭಿಕವಾಗಿ ಸೃಷ್ಟಿಯಾಗುತ್ತದೆ. ಒಂದು ಮದುವೆಯಾದರೆ ಪತಿ-ಪತ್ನಿಯರ, ಭಾವ ಮೈದುನರ ಅತ್ತಿಗೆ ನಾದಿನಿಯರ ಸಂಬಂಧ ಜನಿಸುತ್ತದೆ. ಇದಕ್ಕಿಂತಲೂ ಹೊರತಾದದ್ದು ಇನ್ನೊಂದು ಸಂಬಂಧವಿದೆ ಅದೇ ಗೆಳೆತನ.

ಕಥೆ: ಗೆಳೆಯ 'ಮುಖ' ಪರಿಚಯ ಮಾಡಿಸಿದ ಫೇಸ್ ಬುಕ್

ನಾನು ಖಂಡಿತವಾಗಿ ಹೇಳುತ್ತೇನೆ. ನಾನು ಅಂದಿನಿಂದ ಗೆಳೆಯ ಎಂದು ಯಾರೊಬ್ಬನೂ ಹೇಳಲಾಗದು, ನಾನು ಮತ್ತು ಅವನು ಗೆಳೆಯರು ಎಂದರೆ ಅದು ಕೇವಲ ಅವರಿಬ್ಬರ ಗೆಳೆತನ ಸೂಚಿಸುತ್ತದಷ್ಟೇ. ಆದರೆ ಅವರಿಬ್ಬರೂ ಇನ್ನಾರಿಗೋ ಇನ್ನಾವುದೋ ಸಮಯದಲ್ಲಿ ಗೆಳೆಯರಾಗಿರುತ್ತಾರೆ. ಹಾಗೆಯೇ ಆ ದಿನದಿಂದ ಅಲ್ಲಿ ಆ ಕಾರಣದಿಂದ ನಾವು ಗೆಳೆಯರಾದವು ಎನ್ನುವುದಿದೆಯಲ್ಲ ಅದು ಕೇವಲ ಒಂದು ಭೇಟಿಯಷ್ಟೆ. ಹೆಚ್ಚಿದರೆ ಅದು ಪರಿಚಯವಾಗಿರಬಹುದು. ಗೆಳೆತನವಂತು ಅಲ್ಲ. ಏಕೆಂದರೆ ಸಮಯ-ಸಂದರ್ಭ-ದೇಶ-ಭಾಷೆ-ಧರ್ಮ ಇವೆಲ್ಲವನ್ನು ಮೀರಿ ನಿಷ್ಕಲ್ಮಷ ಮನಸ್ಸುಗಳ ಬಂಧವೇ ಈ ಸ್ನೇಹ. ಇದು ಇಂತಹ ಸಮಯ ಇಂತಲ್ಲೇ ಇಂಥ ಕಾರಣದಿಂದ ಹುಟ್ಟಬೇಕೆಂದಿಲ್ಲ ಎಲ್ಲಿ ಯಾವಾಗ ಯಾರಲ್ಲಿ ಜನಿಸುತ್ತದೆಯೋ. ಜನಿಸಿದ ಮೇಲೆ ಮನಸ್ಸು ಕೆಡದೆ ಇದ್ದರೆ ಅದು ನಿತ್ಯವಾಗಿರುವಂಥದ್ದು.

ನಾನು ಒಂದು ದಿನ ನನ್ನ ಗೆಳೆಯರನ್ನೆಲ್ಲ ಪಟ್ಟಿ ಮಾಡಬೇಕು ಅಂತ ಅಂದುಕೊಂಡೆ. ಗೆಳೆಯರ ಪಟ್ಟಿ ಮಾಡುವ ಮೊದಲು ಗೆಳೆಯ ಎಂದರೇನು ಎಂದು ತಿಳಿಯಲು ಒಂದು ಶ್ಲೋಕವನ್ನು ನೋಡಿದೆ.

ಪಾಪಂ ನಿವಾರಯತಿ ಯೋಜಯತೇ ಹಿತಾಯ
ಗುಹ್ಯಂ ಚ ಗೂಹತಿ ಗುಣಾನ್ ಪ್ರಕಟೀಕರೋತಿ |
ಆಪದ್ಗತಂ ಚ ನ ಜಹಾತಿ ದದಾತಿ ಕಾಲೇ
ಸನ್ನಿತ್ರಲಕ್ಷಣಮಿದಂ ಪ್ರವದಂತಿ ಸಂತಃ || ಎಂಬ ಶ್ಲೋಕ ಅದು.

ಅಂದರೆ ಒಬ್ಬ ಗೆಳೆಯ ತಪ್ಪು ಕೆಲಸ ಮಾಡುವುದನ್ನು ತಪ್ಪಿಸುತ್ತಾನೆ. ಒಳ್ಳೆಯ ಕೆಲಸ ಮಾಡಿಸುತ್ತಾನೆ. ನಮ್ಮ ಗುಟ್ಟನ್ನು ನಮ್ಮಲ್ಲೇ ಬಚ್ಚಿಟ್ಟಿರುತ್ತಾನೆ. ನಮ್ಮ ಒಳ್ಳೆಯ ಪ್ರತಿಭೆಗಳನ್ನು ಬೆಳೆಸುತ್ತಾನೆ. ಕಷ್ಟದಲ್ಲಿ ಜೊತೆಯೇ ಇರುತ್ತಾನೆ ಮತ್ತು ಬೇಕಾದ ಸಮಯದಲ್ಲಿ ಬೇಕಾದ್ದು ಕೊಡುತ್ತಾನೆ ಎಂದು. ನಂತರ ಪಟ್ಟಿ ಬರೆದು ಮುಗಿಸಿದರೆ ಬಹಳ ಆಶ್ಚರ್ಯವಾಗಿತ್ತು. ಕಾರಣವಿಷ್ಟೇ...

ಸ್ನೇಹಿತನ ಸಂಕಷ್ಟ ಹಂಚಿಕೊಂಡ ಇವರು ನಿಜವಾದ ಗೆಳೆಯರು!

ನಾನು ಹುಟ್ಟಿದಾಗಿನಿಂದ ನನ್ನೊಡನೆ ಇದ್ದ ಅವರು ಈ ಸಾಲಿನಲ್ಲಿ ಮೊದಲಿದ್ದರು. ನನ್ನೆಲ್ಲ ತಪ್ಪನ್ನು ತಿದ್ದಿದ, ಒಳ್ಳೆಯ ಕೆಲಸಕ್ಕೆ ಬೆನ್ನು ತಟ್ಟಿ ಹುರಿದುಂಬಿಸಿದ, ಪ್ರಾಪ್ತೇಷು ಷೋಡಶೇ ವರ್ಷೇ ಪುತ್ರಂ ಮಿತ್ರವದಾಚರೇತ್ ಎಂದು ತಿಳಿದು ಅವರೇ ನನ್ನನ್ನು ಗೆಳೆಯನಂತೆ ನೋಡುವಾಗ ನನ್ನ ಶಕ್ತಿಯಾಗಿ ನನ್ನ ಜೊತೆಗಿರುವ ಅವರ ಹೆಸರು ಬರೆಯದೇ ಇರಲಾಗಲಿಲ್ಲ. ಹೌದು... ನಿಮ್ಮ ಊಹೆ ಸರಿ. ನಾನು ಬರೆದ ಪದ ಅಪ್ಪ. ಅವರ ಪ್ರೀತಿ ಕಾಳಜಿ ಜವಾಬ್ದಾರಿಗಳ ಮಧ್ಯೆ ಸ್ನೇಹ ಮರೆಯಾಗಿದೆ ಅಷ್ಟೇ. ತೆರೆ ಕಳಚಿ ನಾನು ನೋಡಬೇಕಷ್ಟೇ.

ನನಗೆ ಪ್ರಪಂಚ ಪರಿಚಯಿಸಿದ 'ಅಪ್ಪ' ಎಂಬ ಮೊದಲ ಗೆಳೆಯನಿಗೆ ಸರಿಸಮನಾಗಿ ನನ್ನನ್ನು ಪ್ರಪಂಚಕ್ಕೆ ಪರಿಚಯಿಸಿದ ನನ್ನನ್ನೇ ಪ್ರಪಂಚವಾಗಿಸಿಕೊಂಡ ಒಬ್ಬಳು ಗೆಳತಿ ಇದ್ದಾಳೆ. ಆಕೆ ನನಗೆ ಹಸಿವಾಗದಂತೆ, ನಾನೆಂದೂ ನೋವನ್ನು ಅನುಭವಿಸದಂತೆ ಕಾಲಕಾಲಕ್ಕೆ ಕೊಡಬೇಕಾದ ಎಲ್ಲವನ್ನು ಕೊಟ್ಟಿದ್ದಾಳೆ. ನನ್ನನ್ನು ಪೋಷಿಸಿದ್ದಾಳೆ. ಇವಳಿಗಿಂತ ಇನ್ನಾವ ಗೆಳತಿ ಹೀಗೆ ಮಾಡಿಯಾಳು..? ನನ್ನ ಮುಖದ ಮೊದಲ ಮಂದಹಾಸಕ್ಕೆ ಕಾರಣಳಾದ 'ಅಮ್ಮ' ಎಂಬ ಎರಡಕ್ಕರದ ಈಕೆ ನನ್ನ ಮೊದಲ ಗೆಳತಿ.

ನನ್ನ ಜೊತೆಜೊತೆಗೆ ಬೆಳೆಯುತ್ತಾ ನನ್ನ ಭಾವ ಹಂಚಿಕೊಂಡ ನನ್ನ ಸೋದರರಿದ್ದಾರೆ ನೋಡಿ, ನಂತರದ ಸ್ಥಾನ ಅವರಿಗೆ. ಬೇರೆಬೇರೆ ಭಾವನೆಗಳಿದ್ದರೂ ದಿನದ ಬಹಳಷ್ಟು ಸಮಯ ಒಟ್ಟಿಗೆ ಕಳೆಯುವುದರಿಂದ ಭಾವನೆಗಳ ಹಂಚಿಕೆಗೆ ಅವಕಾಶ ಮತ್ತು ಅನಿವಾರ್ಯತೆ ಎರಡೂ ಇರುತ್ತದೆ. ತಪ್ಪು-ಒಪ್ಪುಗಳ, ಬೇಕು-ಬೇಡಗಳ ಹಂಚಿಕೆಗೆ ಇದಕ್ಕಿಂತ ಉತ್ತಮವಾದವರು ಇರಲಾರರು. ನಮ್ಮ ಎಷ್ಟೋ ಚೇಷ್ಟೆಗಳನ್ನು ಗುಟ್ಟಾಗಿಡುವ, ಅಪ್ಪ-ಅಮ್ಮ ಮಾಡುವ ಕ್ಷಣಿಕ ಕೋಪದ ದಾಳಿಯಿಂದ ಕಾಪಾಡುವ ಇವರು ನಿಜವಾಗಿಯೂ ಗೆಳೆಯರಾಗುತ್ತಾರಲ್ಲವೇ?

ರಕ್ತಸಂಬಂಧಿಗಳಂತೆ ಮಾನಸಿಕವಾಗಿ ಸಂಬಂಧಿಗಳಾದವರು ಅನೇಕರು ಇರುತ್ತಾರೆ. ಪಕ್ಕದ ಮನೆಯಿಂದ ಹಿಡಿದು ಅದೆಷ್ಟೋ ಜನರ ಪರಿಚಯವಾಗುವ, ಬಾಳಿನ ಬೀದಿಯಲ್ಲಿ ಎಂದೂ ಮರೆಯಲಾರದಂತೆ ಕೆಲವರು ಉಳಿದು ಬಿಡುತ್ತಾರೆ. ಪಾಠದಲ್ಲಿ ಜೊತೆಯಾದವರು, ಆಟದಲ್ಲಿ ಕೂಡಿಕೊಂಡವರು, ಕಣ್ಣೀರ ಹನಿಗಳ ಕಾಣದಂತಾಗಿಸಿದವರು, ಬಿದ್ದಾಗ ಮೇಲೆತ್ತಿದವರು, ಮನದ ಪ್ರತಿ ಭಾವನೆಯ ಪಾಲುದಾರರು ಹೀಗೆ ನನ್ನ ಜೀವನದ ಪ್ರತಿ ಸನ್ನಿವೇಶಗಳಲ್ಲೂ ಇರುವವರು ನನ್ನ ಆ ಸಂಬಂಧಿಗಳು. ಅವರೆಲ್ಲರೂ ಆ ಪಟ್ಟಿಯಲ್ಲಿ ಮೂಡುತ್ತಾ ಹಾಳೆ ಪೂರ್ತಿಯಾಯಿತು.

ಆಗ ತಿಳಿಯಿತು ಅಂಥವರಿಗೂ ನಮಗೂ ಇರುವ ಸಂಬಂಧ ಇದೇ ಗೆಳೆತನವೆಂದು ಮತ್ತು ಹೇಗೆ ಅವರ ಹೆಸರು ಖಾಲಿ ಹಾಳೆಯಲ್ಲೆಲ್ಲ ತುಂಬಿತೋ ಹಾಗೆ ನನ್ನ ಆ ಗೆಳೆಯರಲ್ಲ ನನ್ನ ಬದುಕನ್ನು ತುಂಬಿಕೊಂಡಿದ್ದಾರೆಂದು. ನಿಮಗೂ ಹೀಗೆ ಅನೇಕರಿರುತ್ತಾರೆ. ಏಕೆಂದರೆ ಅನಾಥನಲ್ಲೂ ಬೆಳೆಯುವ ಬಂಧ ಈ ಸ್ನೇಹ.

ಬಹಳಷ್ಟು ಜನರು ಗೊಂದಲಗೊಳ್ಳುವ ವಿಷಯವೊಂದಿದೆ. ನನ್ನ ಮತ್ತು ಅವರ ಮಧ್ಯೆ ಇರುವ ಬಂಧ ಪ್ರೀತಿಯೋ ಅಥವಾ ಸ್ನೇಹವೋ ಎಂದು. ಆದರೆ ನನ್ನ ಪ್ರಕಾರ, ಪ್ರೀತಿಯಿಲ್ಲದ ಸ್ನೇಹವಿಲ್ಲ. ಅದರಂತೆಯೇ ಸ್ನೇಹವಿರದ ಪ್ರೀತಿಯಿಲ್ಲ. ಗಂಡು-ಹೆಣ್ಣಿನ ನಡುವೆ ಎಲ್ಲಾ ವಯಸ್ಸಿನಲ್ಲೂ ಇರಬಹುದಾದದ್ದು ಈ ಗೆಳೆತನವೊಂದೆ. ಮನುಷ್ಯನು ತಂದೆ ತಾಯಿಯಿಂದ ಆರಂಭಿಸಿ ಎಲ್ಲಿಯತನಕ ಬಾಂಧವ್ಯ ಬೆಳೆಸುತ್ತಾನೋ ಅಲ್ಲೆಲ್ಲ ಮೊದಲ ಉದಯ ಗೆಳೆತನದ್ದೇ. ಅಂಥ ಗೆಳೆತನದಿಂದಲೇ ಕುಚೇಲ ಕೃಷ್ಣನನ್ನು ಪಡೆದ. ದುಷ್ಟ ದುರ್ಯೋಧನ ಕೂಡ ಕರ್ಣನನ್ನು ಪಡೆದ. ಅದು ಸ್ನೇಹಕ್ಕಿರುವ ತಾಕತ್ತು. ಗಂಡ-ಹೆಂಡತಿಯಾಗಲಿ, ಅಣ್ಣ-ತಮ್ಮ-ಅಕ್ಕ-ತಂಗಿಯಾಗಲಿ, ತಂದೆ-ತಾಯಿ-ಮಕ್ಕಳೇ ಆಗಲಿ ಎಲ್ಲರನ್ನು ಬೆಸೆಯುವ ತಾಕತ್ತು ಗೆಳೆತನದ್ದು.

ಕೊನೆಯ ಮಾತು...

ಕೇನ ರತ್ನಮಿದಂ ಸೃಷ್ಟಂ ಮಿತ್ರಮಿತ್ಯಕ್ಷರದ್ವಯಂ ಎಂಬಂತೆ ಮಿತ್ರ ಎಂಬ ರತ್ನವನ್ನು ಯಾರು ಸೃಷ್ಟಿಸಿದರೋ... ನಿಜವಾಗಿಯೂ ಅವರಂಥ ಮಿತ್ರರು ಮನುಕುಲಕ್ಕೆ ಇನ್ನೊಬ್ಬರಿಲ್ಲ. ಪ್ರಪಂಚ ಇಂದು ಆಧುನಿಕತೆಯ ಪರದೆಯೊಳಗೆ ನಾಲ್ಕು ಗೋಡೆಗಳ ಮಧ್ಯೆ ಸಿಲುಕಿ ಸೀಮಿತವಾಗುತ್ತಾ ಕಿರಿದಾಗುತ್ತಿದೆ. ಪಕ್ಕದ ಮನೆಯವರೂ ಅಪರಿಚಿತರಾಗುತ್ತಿದ್ದಾರೆ. ಮೊಬೈಲ್ ಟಿವಿ ಮುಂತಾದ ಆವಿಷ್ಕಾರದಿಂದ ಸಂಬಂಧಗಳು ಆವಿಯಾಗುತ್ತಿರುವಾಗಲೂ ಬಾಧೆಗೊಳಗಾಗದ ಬಂಧವೇ ಈ ಸ್ನೇಹ. ಫೇಸ್‌ಬುಕ್-ವಾಟ್ಸಾಪ್ ಎಂಬಂಥ ಅದೆಂಥ ಮಹಾನ್ ಆವಿಷ್ಕಾರಕ್ಕೆ ಹೋದರೂ ಅಲ್ಲಿ ಸಿಗುವುದು ಅದೇ ಗೆಳೆತನ. ಗೆಳೆತನಕ್ಕಾಗಿ ಅಲ್ಲೆಲ್ಲೋ ಇರುವ ಸೂರ್ಯ ಕಮಲವ ಅರಳಿಸುವಂತೆ ಅಳಿಸಲಾಗದ ಈ ಸಂಬಂಧ ನಮ್ಮೆಲ್ಲರನ್ನು ಬೆಳೆಸಲಿ.

ರಾಮನವಮಿ ಕೃಷ್ಣಾಷ್ಟಮಿಯಂತೆ, ಕ್ರಿಸ್‌ಮಸ್‌ನಂತೆ ಅಥವಾ ಬಕ್ರೀದ್‌ನಂತೆ 'ಗೆಳೆತನ ದಿನ' ಎಂಬುದು ಆಚರಿಸಲಾಗದು. ಗೆಳೆಯರು ಗೆಳೆತನಕ್ಕೆ ಬೆಲೆಕೊಟ್ಟು ಗೆಳೆತನವ ಉಳಿಸುವುದೇ ನಿಜವಾದ ಆಚರಣೆ. ಸರ್ವಥಾ ಸುಕರಂ ಮಿತ್ರಂ ದುಷ್ಟರಂ ಪರಿಪಾಲನಂ ಎಂಬಂತೆ ಗೆಳೆತನದ ಪಾಲನೆ ಅತಿಕಷ್ಟ. ಶುದ್ಧಮನಸ್ಸು ಗೆಳೆತನವ ಕಾಪಾಡುತ್ತದೆ. ಆ ಶುದ್ಧ ಮನಸ್ಸು ನಮ್ಮ ಗೆಳೆತನವ ಕಾಪಾಡಲಿ. ಗೆಳೆತನದಿನದ ಶುಭಾಶಯಗಳು.

- ಮೊಹಮ್ಮದ್ ಉಮರ್
6ನೇ ಇಸಿಇ, ಎಟಿಎಂಇಸಿಇ

ಕೊನೆಯ ದಿನಗಳ ಅನಿಸಿಕೆ

ಚಿರತ

ಇಂಜಿನಿಯರಿಂಗ್ ಕೊನೆಯ ಪುಟದಲ್ಲಿ ಇರುವೆವು ನಾವು
ದಯಮಾಡಿ ಆನಂದಿಸಲು ಬಿಡಿ ನೀವು
ಎಲ್ಲಾರು ಕೊನೆಯ ವರ್ಷ ಬಂದ ಮೇಲೆ ಆಡ್ಡಾರೆ ಆಟ
ಆದ್ರೆ ನಮಗೆ ಮಾಡ್ಡ ಇದ್ದಾರೆ ಆನಲ್ಯೆನ್‌ನಲ್ಲಿ ಪಾಠ
ಕಾಲೇಜಿಗೆ ಇನ್ನೊಂದು ಎರಡು ತಿಂಗಳಲ್ಲಿ ಹೇಳ್ತೀವಿ ಟಾಟ
ಗುರಿ ಮುಟ್ಟುವ ಕಡೆಗೆ ಹೋಗುವೆವು ನಾವು
ಸಾದ್ಯವಾದರೆ ನಮ್ಮ ಜೊತೆ ಕಳೆದ ಕ್ಷಣವ ನೆನೆಪಿಡಿ ನೀವು
ಇಂಜಿನಿಯರಿಂಗ್ ಅಲ್ಲಿ ಮರೆಯಲಾಗದ ಕ್ಷಣಗಳನ್ನು
ಕೊಟ್ಟಿರುವಿರಿ ನೀವು
ನಾವು ಮಾಡಿದ ತಪ್ಪುಗಳನ್ನು ಕ್ಷಮಿಸಿ ಹಾರೈಸಿರಿ ನೀವು
ನಮ್ಮ ಮುಂದಿನ ಪಯಣ ನೀವು ಕಲಿಸಿದಂತ ವಿದ್ಯೆಯು
ಜೊತೆಗೆ

- ನಿಮ್ಮ ವಿದ್ಯಾರ್ಥಿ

ನಿನ್ನ ನಗುವಿಗೆ ಮನಸೋಲದ ಕವಿ ಇಲ್ಲ
ನಿನ್ನ ನೋಡಿದರೆ ಚಂದ್ರನಿಗು ನಗು
ನನ್ನ ಪ್ರೀತಿಯ ಜೊತೆ
ನೀ ಮುಂದೆ ಸಾಗು
ಸೂರ್ಯನ ಬೆಳಕಿಗೆ ಸ್ಫೂರ್ತಿ ನೀನು
ಚಂದ್ರನ ಕಾಂತಿಗೆ ಕಾರಣ ನೀನು
ನನ್ನ ಪ್ರೀತಿಗೆ ಜೀವ ನೀನು
ನವಿಲ ನರ್ತನ ಚಿಂದ
ಕೊಗಿಲೆಯ ಧ್ವನಿ ಚಿಂದ
ನೀ ನನ್ನ ಜೊತೆ ಇರಲು
ಜೀವನವೆಲ್ಲ ಚಿಂದ
ಆಕಾಶದಂತಿರುವ ನಿನ್ನ ಪ್ರೀತಿಯ
ಎಣಿಸಲಾಗದು ನನ್ನ ಜೀವನದಲ್ಲಿ ನಿನ್ನದು
ಮರೆಯದ ಪುಟ
ನೀ ನನ್ನ ಸನಿಹ ಬರಲು ಹಾರುವುದು
ಹೃದಯದ ಗಾಳಿಪಟ
ಚಿಂತಿಸದಿರು ಈ ಹೃದಯ ನಿನ್ನದೆ
ನೀನೊಂದು ಸುಂದರಚಿತ್ರ
ನಿನ್ನ ಮೇಲಿನ ಪ್ರೀತಿ ವಿಚಿತ್ರ
ನಿನಗೆ ಕೊಡದೆ ನೆನಪುಗಳ ಪತ್ರ
ಈ ಪ್ರೀತಿ ಪವಿತ್ರ

ಓ ನನ್ನ ಚಿಲುವೆ

ನಾನೇಕೆ ಹುಡುಕಲಿ ಕಾಣದ ಸ್ವರ್ಗವನ್ನು, ಅತ್ಯದ್ಭುತವೆನಿಸುವ
ಭುವಿಯಾಗಿ ನೀನಿರುವಾಗ

ನಾನೇಕೆ ಬಿಡಿಸಲಿ ಅಳಿಸಿ ಹೋಗುವ ಚಿತ್ತಾರವನ್ನು, ಎಂದೂ ಅಳಿಸದಂತೆ ನಿನ್ನೆಸರು ನನ್ನ ಹೃದಯದಲ್ಲಿ ಅಚ್ಚೊತ್ತಿರುವಾಗ

ನಾನೇಕೆ ಸಂಪಾದಿಸಲಿ ಸಿರಿಸಂಪತ್ತನ್ನು, ಬೆಲೆಕಟ್ಟಲಾಗದ ನನ್ನ ಪ್ರೀತಿಯೆಲ ನೀನಾಗಿರುವಾಗ

ನಾನೇಕೆ ಅಂಜಲಿ ಸಾವಿಗೆ, ನೀ ನನ್ನ ಉಸಿರಾಗಿರುವಾಗ

ನಾನೇಕೆ ಕಾಣಲಿ ಕನಸನ್ನು, ಕೊನೆಯಿಲ್ಲದಂತಹ ನನಸಲ್ಲಿ ನಾನು ನೀನು ಜೊತೆಯಾಗಿರುವಾಗ

ನಾನೇಕೆ ಆಲಿಸಲಿ ಕೋಗಿಲೆಯ ಧನಿಯನ್ನು ನಿನ್ನ ನುಡಿಯೇ ಇಂಪಾದ ಸಂಗೀತದಂತಿರುವಾಗ

ನಾನೇಕೆ ಹೊತ್ತಿಸಲಿ ನಂದಿಹೋಗುವ ದೀಪವನ್ನು ಎಂದೂ ಆರದಂತೆ ಜ್ಯೋತಿಯಾಗಿ ನೀ ನನ್ನ ಜೀವನದ ಬೆಳಕಾಗಿರುವಾಗ

ಇನ್ನೇಕೆ ಬದುಕಲಿ ನಾ, ಪ್ರೀತಿ ಪ್ರೇಮದ ಪಯಣವ ಮುಗಿಸಿ ನೀ ನನ್ನ ಬಿಟ್ಟು ಅಂಬರದಾಚೆ ಹೊರಟಾಗ

- ಸುನಿಲ್, 4ನೇ ಇ.ಸಿ.

ಭೂಮಿ

ಅವಳ ಬಗ್ಗೆ ವರ್ಣಿಸುವಷ್ಟು ದೊಡ್ಡವರು ಈ ಭೂಮಿಯ ಮೇಲೆ
ಯಾರೂ ಇರಲಿಕ್ಕಿಲ್ಲ. ನಮ್ಮಂತಹ ಕೋಟ್ಯಾಂತರ ಜೀವರಾಶಿಗಳಿಗೆ
ಉದಾರವಾಗಿ ವಾಸಿಸಲು, ಚಾಕರಿ ಮಾಡಲು ಭೂಮಿ, ಗುಡಿ
ಗೋಪುರಗಳನ್ನು ಕಟ್ಟಲು ಯಥೇಚ್ಛವಾಗಿ ಜಾಗ ನೀಡಿದ್ದಾಳೆ.
“ಜನನೀ ಜನ್ಮ ಭೂಮಿಶ್ಚ ಸ್ವರ್ಗಾದಪಿ ಗರೀಂಠುಸಿ”
ರಾಮಾಯಣದಲ್ಲಿ ಶ್ರೀರಾಮ ಉಲ್ಲೇಖಿಸಿದ ನುಡಿ. ಇದರ ಅರ್ಥ
ಜನ್ಮ ನೀಡಿದ ತಾಯಿ ಹಾಗೂ ಭೂಮಿಯ ಮುಂದೆ ಸ್ವರ್ಗವೂ
ಲೆಕ್ಕಕ್ಕಿಲ್ಲ ರಾಮಾಯಣ ಅಷ್ಟೇ ಅಲ್ಲದೆ, ಭಗವದ್ಗೀತೆ ಖುರಾನ್
ಹಾಗೂ ಬೈಬಲ್‌ಗಳಲ್ಲೂ ಭೂಮಿ ತಾಯಿಯ ಬಗ್ಗೆ ಉಲ್ಲೇಖವಿದೆ.
ಸಾವಿರಾರು ವರ್ಷಗಳಿಂದ ನಮ್ಮ ಪೂರ್ವಜರು ಅನುಜಾನವಾಗಿ
ಕಾಡುಗಳನ್ನು ಜೀವಕ್ಕಿಂತ ಹೆಚ್ಚಾಗಿ ಸಂರಕ್ಷಿಸಿ ಭೂಮಿಗೆ
ಮಹತ್ತರವಾದ ಉಡುಗರೆಯನ್ನು ನೀಡಿದ್ದಾರೆ. ಆದರೆ ಸ್ವಾತಂತ್ರ್ಯ
ನಂತರ ಅಗತ್ಯಕ್ಕಿಂತ ಜಾಸ್ತಿ ಕಾರ್ಖಾನೆಗಳ ಉದ್ಧಾರಕ್ಕಾಗಿ ಅರಣ್ಯದ
ನಾಶಕ್ಕೆ ನಾಂದಿ ಹಾಡಿದ್ದು ಈಗ ಅಳಿವಿನಂಚಿನಲ್ಲಿರುವ ಅರಣ್ಯಗಳನ್ನು
ಜೀರ್ಣೋದ್ಧಾರ ಮಾಡಲಿಕ್ಕೆ ಆಯವ್ಯಯವನ್ನು ಮೀಸಲಿಡುವುದು
ಎಷ್ಟುಸರಿ? ಆಸ್ಟ್ರೇಲಿಯಾ, ಅಮೇಜಾನ್ ಕಾಡು, ಅಷ್ಟೇ ಯಾಕೆ
ಬಂಡೀಪುರದಲ್ಲಿ ಆದಂತಹ ಅಗ್ನಿ ಅಪಘಾತ ಜಗತ್ತನ್ನೇ ದಂಗು
ಬಡಿಸಿದೆ. ಈ ಅವಘಡದಲ್ಲಿ ಲಕ್ಷಾಂತರ ಜೀವಿಗಳು, ಲಕ್ಷಾಂತರ
ಹೆಕ್ಟೇರ್ ಅರಣ್ಯ ಪ್ರದೇಶ ಬೂದಿಯಾಗಿದ್ದು ಇತ್ತೀಚೆಗೆ ಬೀಳುತ್ತಿರುವ
ಮಳೆಯಿಂದ ಸುಧಾರಿಸಿಕೊಂಡಿದ್ದು ಚಿಗುರುತ್ತಿವೆ.

ಭೂಮಿ ಎಂದರೆ ಬರೀ ಅರಣ್ಯವಲ್ಲ ಗಾಳಿ, ನೀರು, ಬೆಂಕಿ, ಆಕಾಶ
ಇದರ ಜೊತೆಗೆ ಭೂಮಿ ಸೇರಿದರೆ ಪಂಚಭೂತಗಳು. ಇಷ್ಟರಲ್ಲಿ
ಯಾವುದು ಇಲ್ಲವಾದರು ಮನುಷ್ಯನ ಜೀವನ ಸಾಗುವುದಿಲ್ಲ
ವಿಪರ್ಯಾಸವೆಂದರೆ ಈಗ ಇವೆಲ್ಲದರ ಇರುವಿಕೆಗೆ ಕುತ್ತು ಬಂದಿದೆ.
ಆದ್ದರಿಂದ ತಮ್ಮ ಹಕ್ಕನ್ನು ವಾಪಾಸು ಪಡೆದುಕೊಳ್ಳಲು ತಮ್ಮ
ಅಸ್ತಿತ್ವವನ್ನು ಪ್ರದರ್ಶನ ಮಾಡಬೇಕಾದ ಪರಿಸ್ಥಿತಿ ಒದಗಿ ಬಂದಿದೆ.
ಆದ್ದರಿಂದ ಸುನಾಮಿ, ಭೂಕಂಪ, ಚಂಡಮಾರುತ, ಅಗ್ನಿ ಅವಘಡ,

ಹಚಾಮಾನ ವೈಪರಿತ್ಯ ಪ್ರತಿನಿತ್ಯ ಜರುಗುತ್ತಲೇ ಇವೆ. ಪ್ರಾಯಶಃ ಈ
ವಿಷಯಗಳ ತಿಳಿವಳಿಕೆ ತಮಗೆ ಇದೆ. ಆದರೂ ತಿಳಿದಿದ್ದೂ ಹೀಗೆ
ಮಾಡುವುದು ತಪ್ಪಲ್ಲವೇ? ನಾನು ನಿಮಗೆ ಜಾಗ ನೀಡಿ ಅಪರಾಧ
ಮಾಡಿದ್ದೇನೆ. ಅದಕ್ಕೋಸ್ಕರ ನನ್ನ ತಪ್ಪಿಗೆ ಶಿಕ್ಷೆಯನ್ನು ಕೂಡ ದೊಡ್ಡ
ಮಟ್ಟದಲ್ಲಿ ನೀಡುತ್ತಿದ್ದೀರಿ, ನಿಮ್ಮ ಶಿಕ್ಷೆಯನ್ನು ತಾಳಲಾರದೆ ಪೆಟ್ಟು
ತಿಂದ ಸಿಂಹದಂತೆ ನನ್ನ ಅಸಮಾಧನವನ್ನು ಕೆಲವೊಂದು
ವಿಧಾನದಲ್ಲಿ ಹೊರಹಾಕುತ್ತಿದ್ದೇನೆ ಎಂದು ಭೂಮಿ ಪದೇ ಪದೇ
ಹೇಳುತ್ತಾಳೆ. ಪ್ರತಿ ಬಾರಿಯೂ ಆಗುತ್ತಿರುವ ಸತತ ಮಾಲಿನ್ಯಕ್ಕೆ
ಪರ್ಯಾಯವಾಗಿ ಮಾಲಿನ್ಯವಾಗದೆ ಇರುವಂತಹ ಮಾರ್ಗದ
ಅನ್ವೇಷಣೆ ಆಗುತ್ತಲೇ ಇದೆ. ಆದರೆ ಆ ಮಾರ್ಗದಲ್ಲಿ ಸಾಗುವವರು
ಬೆರಳೆಣಿಕೆಯಷ್ಟು ಮಾತ್ರ, ಇಂದು ವೇದಿಕೆಯಲ್ಲಿ ಹಸಿದವರಿಗೆ ಅನ್ನ
ನೀಡಿ ಎಂದು ಭಾಷಣ ಮಾಡಿದವರು ಎರಡು ದಿನದ ನಂತರ
ನಡೆದ ಮಗನ ಮದುವೆಯಲ್ಲಿ ಉಳಿದ ಆಹಾರವನ್ನು ತಿಪ್ಪೆಗೆ
ಎಸೆಯುವುದಕ್ಕೆ ಹೇಳಿ ಯಾರಿಗೂ ತಿನ್ನಲೂ ಬಾರದಂತೆ
ಮಾಡುತ್ತಾರೆ. ನೀರಿನ ಉಳಿತಾಯದ ಬಗ್ಗೆ ನೆರೆಹೊರೆಯವರಿಗೆ
ಉಪದೇಶ ಮಾಡುವವರು ವಾಹನ ತೊಳೆಯಲಿಕ್ಕೆ ಟ್ಯಾಂಕ್‌ಗಟ್ಟಲೆ
ನೀರು ವ್ಯಯ ಮಾಡುತ್ತಾರೆ. ಅವರಿವರ ಬಗ್ಗೆ ಹೇಳುವುದಕ್ಕೆ ನಾವು
ಸರಿಯಾಗಿ ಇದ್ದೀವಿಯೇ? ಇಲ್ಲ ನಮ್ಮಲ್ಲೂ ಕೂಡ ಒಂದು ನ್ಯೂನತೆ
ಇದ್ದೇ ಇರುತ್ತದೆ. ಅದನ್ನು ತಿದ್ದಿಕೊಂಡು ನಡೆದಲ್ಲಿ ಅವಳಿಗೆ
(ಭೂಮಿಗೆ)ಒಂದು ಪುಟ್ಟ ಉಡುಗೊರೆಯ ಅರ್ಪಣೆ ಯಾಗುತ್ತದೆ.
ಅದಮ್ಮ ಚೇತನ, ಅಕ್ಷಯ ಪಾತ್ರ, ಇನ್ಫೋಸಿಸ್ ಫೌಂಡೇಶನ್
ನಂತಹ ದೊಡ್ಡ ಸಂಸ್ಥೆಗಳು ಭೂಮಿಗೆ ದೊಡ್ಡ ಮಟ್ಟದಲ್ಲಿ
ಉಡುಗೊರೆಯನ್ನು ಕೊಡವಲ್ಲಿ ಮುಂದಡಿ ಇಟ್ಟಿದ್ದಾರೆ. ಅದಮ್ಮ
ಚೇತನದಿಂದ ಪ್ರತಿ ಭಾನುವಾರ ಹಲವಾರು ಗುರುತಿಸಿದ ಜಾಗಗಳಲ್ಲಿ
ಸಾರ್ವಜನಿಕರ ಸಹಕಾರದಿಂದ ಗಿಡಗಳನ್ನು ನೆಟ್ಟು ಪೋಷಿಸುತ್ತಾರೆ.
ಪ್ರತಿದಿನ ಸಾವಿರಾರು ಜನಕ್ಕೆ ನೀಡುತ್ತಿರುವ ಉಚಿತ ಆಹಾರ
ತಯಾರಿಕೆಯಲ್ಲಿ ಪೆಟ್ರೋಲಿಯಂ ಇಂಧನಗಳ ಬಳಕೆ ನಿಲ್ಲಿಸಿ
ಸಾವಯವ ಇಂಧನ ಬಳಸುತ್ತಿದ್ದಾರೆ.

ಇನ್ನೋಸಿಸ್ ಸಂಸ್ಥೆಯಿಂದಲೂ ಕೂಡ ಸಾರ್ವಜನಿಕ ಶೌಚಾಲಯಗಳನ್ನು ಸಾವಿರಾರು ಸಂಖ್ಯೆಯಲ್ಲಿ ಕಟ್ಟಿಸಿದ್ದಾರೆ. ಎಲ್ಲಿ ನಿಸರ್ಗದತ್ತ ಅವಘಡಗಳು ನಡೆಯುತ್ತವೆಯೋ ಅಲ್ಲಿ ಹಾಜರಿ ನೀಡಿ ನೋವನ್ನು ಉಂಡವರಿಗೆ ಉಪಚರಿಸುತ್ತಾರೆ.

ಕೋರೋನಾ ಎಂಬ ಮಹಾಮಾರಿ ಜಗತ್ತನ್ನು ಆವರಿಸಿದೆ. ಲಕ್ಷಾಂತರ ಜನರು ಮರಣ ಹೊಂದಿದ್ದಾರೆ. ಆದರೆ ಭಾರತದಲ್ಲಿ ಅದರ ಸಾಂದ್ರತೆ ಕಡಿಮೆ ಇದ್ದು ಅದಕ್ಕೆ ಪ್ರಮುಖ ಕಾರಣ ನಮ್ಮ ಸಾಕ್ಷಿಕ ದಿನಚರಿ ಇಲ್ಲಿ ಒಬ್ಬರಿಗೊಬ್ಬರು ಕೈ ಮಿಲಾಯಿಸಿದರೆ ಯಾರಿಗೂ ಉಳಿಗಾಲವಿಲ್ಲ. ಭಗವದ್ಗೀತೆ. ಖುರಾನ್, ಬೈಬಲ್, ಗುರುಗ್ರಂಥ ಸಾಹಿಬ್, ಭೌದ್ಧಧರ್ಮ, ಜೈನಧರ್ಮ ಎಲ್ಲಾ ನೀಡುವುದು ಒಂದೇ ಸಂದೇಶ. ಆದರೆ ಒಂದೇ ವ್ಯತ್ಯಾಸ ಎಂದರೆ ಎಲ್ಲಾ ಗ್ರಂಥಗಳಿಗೂ ಅದರದೇ ಆದ ಅನುಯಾಯಿಗಳಿದ್ದಾರೆ. ಎಲ್ಲರೂ ಒಂದುಗೂಡಿದರೆ ಭೂಮಿಯನ್ನು ಕಲುಷಿತ ಮುಕ್ತ ಮಾಡುವುದು ಅಸಾಧ್ಯವೇನಲ್ಲ. ನಮ್ಮ ನಾವು ಬದುಕಲು ಜಾಗ, ಅನ್ನ, ನೀರು ನೀಡಿರುವ ಅವಳಿಗೆ ಗಿಡ ಮರಗಳನ್ನು ಬೆಳೆಸಿ ಹಸಿರು ಸೀರೆ ಉಡಿಸಿ ಕಳೆ ಬರುವಂತೆ ಮಾಡುವುದು, ಅರಣ್ಯಗಳನ್ನು ನಾಶ ಮಾಡಿ ಅವಳ ಮಾನಹಾನಿ ಮಾಡುವುದು ಎರಡೂ ನಮ್ಮ ಕೈಯಲ್ಲೇ ಇದೆ. ಆದರೆ ಮಾನಹಾನಿ ಮಾಡುವುದಕ್ಕೂ ಮುಂಚೆ ಅದರಿಂದಾಗಿ ಮುಂದೆ ಆಗುವ ಪರಿಣಾಮವನ್ನು ಯೋಚಿಸಬೇಕು, ನೀರಿನ ಮಿತವ್ಯಯ, ವಾಯು ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣವು ವಿದ್ಯುತ್ ವಾಹನಗಳ ಬಳಕೆ, ಭೂ ಮಾಲಿನ್ಯ ನಿಯಂತ್ರಣವು ಅರಣ್ಯಗಳ ಉದ್ಧಾರ ಅಗತ್ಯವಿದೆ.

ಕೊನೆಗೆ ಈ ಚಿಕ್ಕ ಕಥೆಯೊಂದಿಗೆ ನನ್ನ ಲೇಖನಕ್ಕೆ ಅಂತ್ಯ ಹಾಡುತ್ತೇನೆ. ಈ ಕಥೆ ಎಲ್ಲರಿಗೂ ಚಿರಪರಿಚಿತ. ದಕ್ಷಿಣ ಸೂಡಾನ್‌ನಲ್ಲಿ ನಡೆದ ಸತ್ಯಘಟನೆ. ಸಂಯುಕ್ತ ರಾಷ್ಟ್ರಗಳು ಅಂದರೆ ಯುನೈಟೆಡ್ ನೇಷನ್ಸ್ ತೆಗೆದಿದ್ದಂತಹ ಸಂತ್ರಸ್ತರ ಆಹಾರ ಕೇಂದ್ರಕ್ಕೆ ಮಗುವೊಂದು ನಿಶ್ಚಕ್ರಿಯಿಂದ ತೆವಳುತ್ತಾ ಹೋಗುತ್ತಿತ್ತು. ಆ ಮಗುವೇನಾದರೂ ಸತ್ತರೆ ಅದನ್ನು ಕುಕ್ಕಿ ತಿನ್ನಲು ರಣಹದ್ದು ಒಂದು ಹಿಂಬಾಲಿಸುತ್ತಿತ್ತು. ಇದರ ಚಿತ್ರವನ್ನು ತೆಗೆದ ಛಾಯಾಗ್ರಾಹಕ ಕೆಲ್ವಿನ್ ಕಾರ್ಬರ್ ಅವರಿಗೆ ಪುಲುಟ್ಜರ್ ಪ್ರಶಸ್ತಿ ಸಂದಿತು. ಆದರೆ ಅವರಿಗೆ ಆ ಮಗುವಿನ ಬಗ್ಗೆ ಕೇಳಿದಾಗ ಅವರು ತಮಗೆ ಅದರ ಬಗ್ಗೆ ಮಾಹಿತಿ ಇಲ್ಲವೆಂದರು. ಮಾನವೀಯತೆ ಮರೆತು ಛಾಯಾಗ್ರಾಹಣಕ್ಕಾಗಿ ಪ್ರಶಸ್ತಿ ಪಡೆದ ಅವರು ಕೆಲವೇ ದಿನಗಳಲ್ಲಿ ತಮ್ಮ ಜೀವವನ್ನು ಆತ್ಮಹತ್ಯೆಗೆ ಅರ್ಪಿಸಿದರು ಕಥೆ ಹಳತೆ ಆದರೂ ಸತ್ಯಘಟನೆ ಮರೆತಿದ್ದೆ, ಅಘನಾಶಿನಿ ಎಂಬ ಸುಂದರ ಕಿರುಚಿತ್ರ ಯೂಟ್ಯೂಬ್‌ನಲ್ಲಿ ಪ್ರಚಲಿತವಾಗಿದ್ದು ಸಾಧ್ಯವಾದರೆ ವೀಕ್ಷಿಸಿ.

ಇಷ್ಟೊಂದು ಬರೆದರೂ ನಮ್ಮ ಜ್ಞಾನದ ಮಟ್ಟ ಇನ್ನೂ ಬೆಳೆಯಬೇಕು ಎನ್ನುವ ಹಂಬಲ ಇದೆ. ಭೂಮಿಯ ಬಗ್ಗೆ ಬರೆಯಲು ಪದಗಳೂ ಸಾಲುವುದಿಲ್ಲ. ಅವಳನ್ನು ಸಂರಕ್ಷಿಸುವಲ್ಲಿ ನಾವೆಲ್ಲಾ ಒಟ್ಟಾಗಿ ಹೆಜ್ಜೆ ಇಡೋಣ.

ಶ್ರೀಕಂಠ ಶರ್ಮ ಎಂ ಎಸ್
4ನೇ ಸೆಮಿಸ್ಟರ್, ಎಲೆಕ್ಟ್ರಿಕಲ್ & ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್ ವಿಭಾಗ

ಮರೆಯಲಾಗದ ಮಹಾನುಭಾವ

ಗುರುಪ್ರಸಾದ್ ಕೆ.ಎಸ್
ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕರು
ವಿದ್ಯುನ್ಮಾನ ಮತ್ತು ಸಂವಹನ ವಿಭಾಗ

ಸ್ವತಂತ್ರ ಭಾರತದ ರಾಜಕೀಯ ಇತಿಹಾಸದಲ್ಲಿ ಬಹುಕಾಲದವರೆಗೆ ಸಕ್ರಿಯ ರಾಜಕಾರಣಿಯಾಗಿ ತಮ್ಮ ಅಪೂರ್ವ ಯೋಗದಾನ ಮಾಡಿದ ಅನೇಕ ಧೀಮಂತರಿದ್ದಾರೆ; ತಮ್ಮ ಸ್ವಂತ ಹಿತಾಸಕ್ತಿಗಳನ್ನು ಬದಿಗೊತ್ತಿ ದೇಶವನ್ನಾಳಿದ ಮಹಾಮೇಧಾವಿಗಳಿದ್ದಾರೆ. ಇಡೀ ಜೀವನವನ್ನು ದೇಶಕ್ಕಾಗಿ ಸವೆಸಿದ ಕಳಂಕರಹಿತ ರಾಜಕಾರಣಿಗಳಿದ್ದಾರೆ. ಈ ಎಲ್ಲಾ ಗುಣಗಳು ಒರ್ವ ವ್ಯಕ್ತಿಯಲ್ಲಿ ಮೇಳೈಸಿದವರು ಬೆರಳೆಣಿಕೆಯಷ್ಟು ಮಂದಿ ಮಾತ್ರ. ಇಂತಹ ಮಹಾನ್ ವ್ಯಕ್ತಿಗಳ ಸಾಲಿನಲ್ಲಿ ಪ್ರಮುಖವಾಗಿ ಕೇಳಿಬರುವ ಹಾಗೂ ಸಮಕಾಲೀನರಲ್ಲಿ ಅಗ್ರಗಣ್ಯರಾಗಿ ನಿಲ್ಲುವ, ಅಪರೂಪದಲ್ಲಿ ಅಪರೂಪದ ರಾಜಕಾರಣಿ ಶ್ರೀಯುತ ಅಟಲ್ ಬಿಹಾರಿ ವಾಜಪೇಯಿಯವರು.

ಬಾಲ್ಯ ಹಾಗೂ ವಿದ್ಯಾಭ್ಯಾಸ

ಮಹಾನ್‌ವಾಗಿ, ರಾಜತಾಂತ್ರಿಕ ಚತುರ, ಹಾಗೂ ಈ ಭರತಭೂಮಿ ಕಂಡ ಅಪರೂಪದ ಅನನ್ಯ ಸಾಧನೆಯ ಶಿಖರ 'ಅಟಲ್‌ರವರು' ಜನಿಸಿದ್ದು 1924ರ ಡಿಸೆಂಬರ್ 25 ರಂದು ಮಧ್ಯಪ್ರದೇಶದ ಗ್ವಾಲಿಯರ್ ಹತ್ತಿರದ ಶಿಂದೆ ಕಿ ಚವ್ವಾಣಿ ಎನ್ನುವ ಗ್ರಾಮದಲ್ಲಿ. ತಂದೆ ಶ್ರೀಯುತ ಕೃಷ್ಣ ಬಿಹಾರಿ ವಾಜಪೇಯಿ. ತಾಯಿ ಶ್ರೀಮತಿ ಕೃಷ್ಣಾದೇವಿ. ಅವರ ಬಾಲ್ಯದ ಶಿಕ್ಷಣ ಗ್ವಾಲಿಯರ್‌ನ ಗೋರ್ಖಿಯಲ್ಲಿನ ಸರಸ್ವತಿ ಮಂದಿರದಲ್ಲಿ ಆರಂಭವಾಯಿತು. ಮುಂದೆ ವಿಕೋರಿಯಾ ಪದವಿಯನ್ನು ಕಾನ್ಪುರದ ಡಿ.ಎ.ವಿ. ಕಾಲೇಜಿನಿಂದ ಪಡೆದರು. ಮುಂದೆ ವಿಕೋರಿಯಾ ಪದವಿಯನ್ನು ಕಾನ್ಪುರದ ಡಿ.ಎ.ವಿ. ಕಾಲೇಜಿನಿಂದ ಪಡೆದರು.

ವಿದ್ಯಾರ್ಥಿ ದೆಸೆಯಲ್ಲಿಯೇ ಸ್ವಾತಂತ್ರ್ಯ ಹೋರಾಟದಲ್ಲಿ ಭಾಗವಹಿಸಿದ್ದ ಇವರು, 1942ರ ಕ್ವಿಟ್ ಇಂಡಿಯಾ ಚಳುವಳಿಯಲ್ಲಿ ಪಾಲ್ಗೊಂಡು ಸೆರೆಮನೆ ವಾಸವನ್ನು ಅನುಭವಿಸಿದ್ದರು. ನಂತರ 1951ರಲ್ಲಿ ಶ್ಯಾಮಪ್ರಸಾದ್ ಮುಖರ್ಜಿಯವರ ನೇತೃತ್ವದಲ್ಲಿ ಭಾರತೀಯ ಜನಸಂಘದ ಸಕ್ರಿಯ ಸದಸ್ಯರಾಗಿ ರಾಜಕೀಯ ಪ್ರವೇಶಿಸಿದ ಇವರು, ತದನಂತರ ರಾಷ್ಟ್ರೀಯ ಸ್ವಯಂ ಸೇವಕ ಸಂಘವನ್ನು ಸೇರಿ, 'ವೀರ-ಅರ್ಜುನ್' ಹಾಗೂ 'ಪಾಂಚಜನ್ಯ' ಎನ್ನುವ ಎರಡು ಪತ್ರಿಕೆಗಳಿಗೆ ಪತ್ರಕರ್ತರಾಗಿ ಸೇವೆ ಸಲ್ಲಿಸಿದರು.

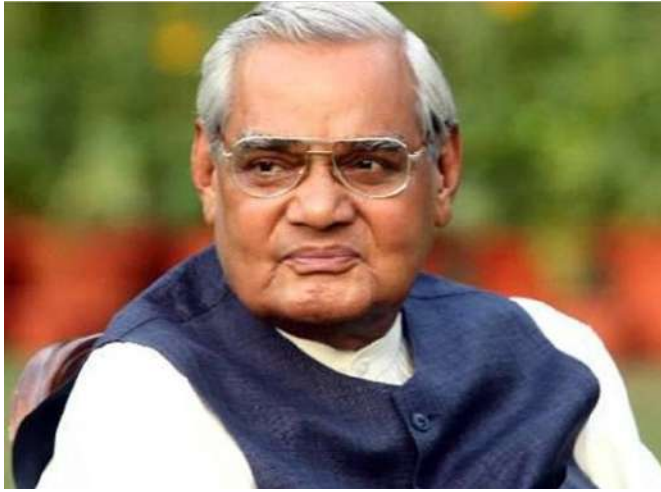
ರಾಜಕೀಯ ಜೀವನ

1957ರಲ್ಲಿ ಉತ್ತರಪ್ರದೇಶದ ಬಲರಾಮಪುರದಿಂದ ಪ್ರಪ್ರಥಮವಾಗಿ ಲೋಕಸಭೆಗೆ ಆಯ್ಕೆಯಾದ ಇವರು, ತಮ್ಮ ಅಪ್ರತಿಮ ವಾಕ್ಚಾತುರ್ಯ ಹಾಗೂ ಶಕ್ತಿಶಾಲಿ ಭಾಷಣಗಳಿಂದ ಅಂದಿನ ಪ್ರಧಾನಿ ಪಂಡಿತ್ ನೆಹರುವರ ಗಮನ ಸೆಳೆದಿದ್ದರು. ನಂತರದ ದಿನಗಳಲ್ಲಿ ಮೊರಾರ್ಜಿ ದೇಸಾಯಿಯವರ ಸರ್ಕಾರದಲ್ಲಿ ಮಾರ್ಚ್ 1977ರಿಂದ ಜುಲೈ 1979ರವರೆಗೆ ವಿದೇಶ ಮಂತ್ರಿಯಾಗಿ ಕಾರ್ಯ ನಿರ್ವಹಿಸಿದರು. 1980ರಲ್ಲಿ ಲಾಲಕೃಷ್ಣ ಅಡ್ವಾನಿ ಹಾಗೂ ಬೈಹೋನ್ ಸಿಂಗ್ ಶೇಖಾವತ್ ಅವರುಗಳೊಡಗೂಡಿ ಭಾರತೀಯ ಜನತಾಪಕ್ಷವನ್ನು ಸ್ಥಾಪಿಸಿ ಅದರ ಸಂಸ್ಥಾಪಕ ಅಧ್ಯಕ್ಷರಾಗಿ ಆಯ್ಕೆಯಾದರು.

1991 ರ ಚುನಾವಣೆಯ ನಂತರ ವಿರೋಧ ಪಕ್ಷದ ನಾಯಕರಾಗಿ ಆಯ್ಕೆಯಾದ ಅಟಲ್‌ರವರು ವಿರೋಧವಪಕ್ಷಕ ನಾಯಕನ ಸ್ಥಾನದಲ್ಲಿ ಕುಳಿತು. ಈ ದೇಶದ ಆಡಳಿತಕ್ಕೆ ತಮ್ಮ ಅನುಭವದ ಧಾರೆಯೆರೆದರು. 1996ರಲ್ಲಿ ನಡೆದ 11ನೇ ಲೋಕಸಭಾ ಚುನಾವಣೆಯಲ್ಲಿ ಭಾರತೀಯ ಜನತಾಪಕ್ಷ ಏಕೈಕ ದೊಡ್ಡ ಪಕ್ಷವಾಗಿ ಹೊಮ್ಮಿ ಅಂದಿನ ರಾಷ್ಟ್ರಪತಿಗಳ ಆಹ್ವಾನದ ಮೇರೆಗೆ 1996ರ ಮೇ 16 ರಂದು ಮೊದಲ ಬಾರಿಗೆ ಪ್ರಧಾನಮಂತ್ರಿಗಳಾಗಿ ಪ್ರಮಾಣವಚನ ಸ್ವೀಕರಿಸಿದರು. ಕೇವಲ ಹದಿಮೂರು ದಿನಗಳನ್ನು ಬಹುಮತ ಸಾಬೀತುಪಡಿಸಲಾಗದೇ ರಾಜೀನಾಮೆ ನೀಡಬೇಕಾಯಿತು.

1998ರ ಫೆಬ್ರವರಿಯಲ್ಲಿ ನಡೆದ ಹನ್ನೆರಡನೇ ಲೋಕಸಭಾ ಚುನಾವಣೆಯಲ್ಲಿ ಮತ್ತೊಮ್ಮೆ ಭಾರತೀಯ ಜನತಾ ಪಕ್ಷ ಏಕೈಕ ದೊಡ್ಡಪಕ್ಷವಾಗಿ ಹೊರಹೊಮ್ಮಿತು. ಹತ್ತು ಹಲವು ಪಕ್ಷಗಳ ಬೆಂಬಲದೊಂದಿಗೆ 1998ರ ಮಾರ್ಚ್ 19 ರಂದು ಎರಡನೇ ಬಾರಿ ಪ್ರಧಾನಮಂತ್ರಿಗಳಾಗಿ ಅಧಿಕಾರದ ಚುಕ್ಕಾಣಿ ಹಿಡಿದ ಇವರು, ಅಧಿಕಾರಕ್ಕೆ ಬಂದ ಕೇವಲ ಒಂದೆರಡು ತಿಂಗಳಲ್ಲೇ, ರಾಜಸ್ಥಾನದ ಪೋಖ್ರಾನ್‌ನಲ್ಲಿ ನಡೆಸಿದ ಯಶಸ್ವಿ ಅಣ್ಣಸ್ತ ಪರೀಕ್ಷೆಯಿಂದ ಜಾಗತಿಕ ಇತಿಹಾಸದಲ್ಲಿ ವಿದೇಶಗಳು ಭಾರತವನ್ನು ಬೆರಗುಗಣ್ಣಿನಿಂದ

ನೋಡುವಂತೆ ಮಾಡಿಬಿಟ್ಟರು. ಕಾರ್ಗಿಲ್ ಯುದ್ಧ ನಡೆದ ಕೆಲವೇ ತಿಂಗಳುಗಳಲ್ಲಿ ನಡೆದ ಹದಿಮೂರನೇ ಲೋಕಸಭೆ ಚುನಾವಣೆಯಲ್ಲಿ ಭಾರತೀಯ ಜನತಾ ಪಕ್ಷ ಮುನ್ನಡೆ ಸಾಧಿಸಿತು. ಬಿಜೆಪಿ ನೇತೃತ್ವದ ಎನ್‌ಡಿಎ 270 ಸೀಟುಗಳನ್ನು ಪಡೆದು, ಅಟಲ್‌ರವರು ಅಕ್ಟೋಬರ್ 1999ರಲ್ಲಿ ಮೂರನೇ ಬಾರಿಗೆ ಪ್ರಧಾನಿಯಾದರು. ಸಂಪೂರ್ಣ ಐದು ವರ್ಷ ಅವಧಿಯನ್ನು ಪೂರೈಸಿದ ಕಾಂಗ್ರೆಸ್‌ನೇತರ ಮೊದಲ ಸರ್ಕಾರವೆಂಬ ಪಾತ್ರಕ್ಕೂ ವಾಜಪೇಯಿ ಸರ್ಕಾರ ಭಾಜನವಾಯಿತು.



ಕವಿ ಹೃದಯ ಅಟಲ್

ವಾಜಪೇಯಿಯವರು ರಾಜಕಾರಣಿಯಲ್ಲದೆ ಕವಿಯೂ ಆಗಿದ್ದರು. ಹಿಂದಿ ಭಾಷೆಯಲ್ಲಿ ಅನೇಕ ಕವಿತೆಗಳನ್ನು ರಚಿಸಿದ್ದಾರೆ. ಇವರ ಇಪ್ಪತ್ತೊಂದು ಕವಿತೆಗಳ ಸಂಕಲನ Twenty One Poems ಎಂಬ ಹೆಸರಿನಲ್ಲಿ ಆಂಗ್ಲ ಭಾಷೆಗೆ ಅನುವಾದಗೊಂಡಿದೆ. 2004ರ ಸಾರ್ವತ್ರಿಕ ಚುನಾವಣೆಯ ಸೋಲಿನ ನಂತರ, 2005ರಲ್ಲಿ ವಾಜಪೇಯಿಯವರು ರಾಜಕೀಯದಿಂದ ನಿವೃತ್ತಿ ಘೋಷಿಸಿಕೊಂಡರು.

ಕೊನೆಯ ಕ್ಷಣಗಳು

ಮೂತ್ರಪಿಂಡ ಹಾಗೂ ಪಾರ್ಶ್ವವಾಯು ಸಮಸ್ಯೆಗಳಿಂದ ಬಳಲುತ್ತಿದ್ದ ವಾಜಪೇಯಿಯವರನ್ನು 2018, ಜೂನ್ 11 ರಂದು ದೆಹಲಿಯ ಏಮ್ಸ್ ಆಸ್ಪತ್ರೆಗೆ ದಾಖಲಿಸಲಾಯಿತು. 2018 ಆಗಸ್ಟ್ 2016 ರ ಬೆಳಗ್ಗಿನಿಂದಲೇ ಚಿಕಿತ್ಸೆಗೆ ಸ್ಪಂದಿಸುವುದನ್ನು ಕ್ಷೀಣಿಸಿದ ವಾಜಪೇಯಿಯವರು ಸಾಯಂಕಾಲ 5.05ರ ಸಮಯಕ್ಕೆ ನಿಧನರಾದರು.

ಪ್ರಶಸ್ತಿ / ಗೌರವ / ಸನ್ಮಾನಗಳು

ವಾಜಪೇಯಿಯವರಿಗೆ ಸಂದ ಪ್ರಶಸ್ತಿಗಳು ಹತ್ತು ಹಲವಾರು. 1992ರಲ್ಲಿ ಪದ್ಮವಿಭೂಷಣ, 1994ರಲ್ಲಿ ಲೋಕಮಾನ್ಯ ತಿಲಕ್ ಪ್ರಶಸ್ತಿ, ಉತ್ತಮ ರಾಜಕೀಯ ಪಟು ಗೌರವ, ಹಾಗೂ ಪಂಡಿತ್ ಗೋವಿಂದ್ ವಲ್ಲಭಪಂತ್ ಪ್ರಶಸ್ತಿ, 2015ರಲ್ಲಿ ಬಾಂಗ್ಲಾ ವಿಮೋಚನಾ ಯುದ್ಧ ಪ್ರಶಸ್ತಿ ಇವುಗಳಲ್ಲಿ ಪ್ರಮುಖವಾದವುಗಳು. 2015ರಲ್ಲಿ ಈ ಮಹಾನ್ ಮುತ್ಸದ್ಧಿಗೆ, ನರೇಂದ್ರ ಮೋದಿ ನೇತೃತ್ವದ ಎನ್.ಡಿ.ಎ ಸರ್ಕಾರ ಭಾರತ ಸರ್ಕಾರದ ಪರಮೋಚ್ಚ ನಾಗರಿಕ ಪ್ರಶಸ್ತಿಯಾದ 'ಭಾರತರತ್ನ' ಪ್ರಶಸ್ತಿ ನೀಡಿ ಗೌರವಿಸುವುದರ ಮೂಲಕ ತನ್ನನ್ನು ತಾನು ಗೌರವಿಸಿಕೊಂಡಿತು.

ಬುರ್ಜ್ ಖಲೀಫಾ

ಗುರುಪ್ರಸಾದ್ ಕೆ.ಎಸ್

ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕರು

ವಿದ್ಯುನ್ಮಾನ ಮತ್ತು ಸಂವಹನ ವಿಭಾಗ

ಬುರ್ಜ್ ಖಲೀಫಾ

ಮಾನವನ ಆಸೆಗೆ ಮಿತಿಯಿಲ್ಲ. ಆವಿಷ್ಕಾರಗಳಿಗೆ ಕೊನೆ ಇಲ್ಲ. ಆವಿಷ್ಕಾರಗಳಿಗೆ ಕೊನೆ ಇಲ್ಲ. ಆಕಾಶದತ್ತಕ್ಕೆ ಜಿಗಿಯುವಾಸೆ. ಅದೇ ಎತ್ತರದಿಂದ ಧುಮುಕುವಾಸೆ; ಗಿರಿ ಶೃಂಗಗಳ ಏರುವಾಸೆ, ಸಮುದ್ರದಾಳಕ್ಕೆ ಇಳಿಯುವಾಸೆ; ಗಗನಚುಂಬಿ ಕಟ್ಟಡಗಳ ಕಟ್ಟುವಾಸೆ; ತನ್ನ ದಾಖಲೆಗಳ ತಾನೇ ಮುರಿಯುವಾಸೆ. ಇಂತಹುದೆ ಮಾನವನ ಆಸೆ ಹಾಗೂ ಆವಿಷ್ಕಾರಗಳ ಫಲವಾಗಿ ಸಂಯುಕ್ತ ಅರಬ್ ಎಮಿರೇಟ್ಸ್ (ಯುಎಇ) ದೇಶದ ಪ್ರಮುಖ ನಗರದ ದುಬೈನಲ್ಲಿ ತಲೆ ಎತ್ತಿ ನಿಂತು ವಿಶ್ವವನ್ನು ತನ್ನೆಡೆಗೆ ಆಕರ್ಷಿಸುತ್ತಿರುವ ಹಾಗೂ ಬಹಳ ಅದ್ಭುತಿಯಾಗಿ ನಿರ್ಮಾಣಗೊಂಡಿರುವ ವಿಶ್ವದ ಅತಿ ಎತ್ತರದ ಗಗನಚುಂಬಿ ಕಟ್ಟಡವೇ ಬುರ್ಜ್ ಖಲೀಫಾ.

ಬುರ್ಜ್ ಖಲೀಫಾ ಕಟ್ಟಡವನ್ನು ಉದ್ಘಾಟನೆಗೆ ಮುಂಚೆ ಬುರ್ಜ್ ದುಬೈ ಎಂದು ಕರೆಯಲಾಗುತ್ತಿತ್ತು. ಅನಂತರ ಅಬುಧಾಬಿಯ ರಾಜ ಹಾಗೂ ಯುಎಇಯ ರಾಷ್ಟ್ರಾಧ್ಯಕ್ಷ ಖಲೀಫಾಬಿನ್ ಝಯೆದ್ ಅಲ್ ನಹ್ಯಾನ್ ಅವರ ಗೌರವಾರ್ಥವಾಗಿ ಹಾಗೂ ಕಟ್ಟಡದ ನಿರ್ಮಾಣದಲ್ಲಿನ ಅವರ ಅತ್ಯಮೂಲ್ಯ ಬೆಂಬಲಕ್ಕಾಗಿ ಈ ಕಟ್ಟಡವನ್ನು ಬುರ್ಜ್ ಖಲೀಫಾ ಎಂದು ಮರುನಾಮಕರಣ ಮಾಡಲಾಯಿತು. ಇದನ್ನು 'ಖಲೀಫಾ ಟವರ್' ಎಂದೂ ಕರೆಯಲಾಗುತ್ತದೆ. ಇದರ ಒಟ್ಟು ಎತ್ತರ 828 ಮೀಟರ್‌ಗಳು ಅಂದರೆ ಸರಿಸುಮಾರು 2717 ಅಡಿಗಳು. ಇದುವರೆಗೂ ನಿರ್ಮಿಸಲಾದ ಅತ್ಯಂತ ಎತ್ತರದ ಮಾನವ ನಿರ್ಮಿತ ಈ ಕಟ್ಟಡ ದುಬೈ ನಗರದ ರಾಜ ಮಾಹಮ್ಮದ್ ಬಿನ್ ರಫೀದ್ ಅಲ್ ಮಬ್ರುಕ್ ಅವರ ಕನಸಿನ ಕೂಸು.

ನಿರ್ಮಾಣ

ಇದರ ನಿರ್ಮಾಣವು 2004ರ ಸೆಪ್ಟೆಂಬರ್ 21ರಂದು ಪ್ರಾರಂಭವಾಗಿ ಕಟ್ಟಡದ ಹೊರಭಾಗ ರಚನೆಯ ನಿರ್ಮಾಣವು 2009ರಂದು ಪ್ರಾರಂಭವಾಗಿ ಕಟ್ಟಡದ ಹೊರಭಾಗ ರಚನೆಯ ನಿರ್ಮಾಣವು 2009ರ ಅಕ್ಟೋಬರ್ 1ರಂದು ಸಂಪೂರ್ಣಗೊಂಡಿತು. 2010ರ ಜನವರಿ 4ರಂದು ಈ ಕಟ್ಟಡವನ್ನು ಲೋಕಾರ್ಪಣೆ

ಗೊಳಿಸಲಾಯಿತು. ಈ ಕಟ್ಟಡವು ದುಬೈ ನಗರದ ಪ್ರತಿಷ್ಠಿತ ವಾಣಿಜ್ಯ ಪ್ರದೇಶ ಡೌನ್‌ಟೌನ್ ದುಬೈನ ಫೇಕ್ ಝಯೆದ್ ರಸ್ತೆಯಲ್ಲಿ ತಲೆ ಎತ್ತಿ ನಿಂತಿದೆ. ಅಡ್ರಿಯನ್ ಸ್ಮಿತ್ ಈ ಕಟ್ಟಡದ ಪ್ರಮುಖ ಶಿಲ್ಪಿ ಮತ್ತು ಬಿಲ್ ಬೇಕರ್ ಪ್ರಮುಖ ರಚನಾ ಎಂಜಿನಿಯರ್. ಈ ನಿರ್ಮಾಣ ಯೋಜನೆಯ ಒಟ್ಟಾರೆ ವೆಚ್ಚ ಸುಮಾರು 1.5 ಬಿಲಿಯನ್ ಅಮೆರಿಕನ್ ಡಾಲರ್‌ಗಳು.



ವಾಸ್ತು ಶಿಲ್ಪ ಮತ್ತು ವಿನ್ಯಾಸ

ಈ ಕಟ್ಟಡವನ್ನು ಸ್ವಿಡ್ಜರ್ ಒವಿಂಗ್ಸ್ ಅಂಡ್ ಮೆರಿಲ್ ವಿನ್ಯಾಸ ಸಂಸ್ಥೆಯು ವಿನ್ಯಾಸಗೊಳಿಸಿದೆ. ಇಸ್ಲಾಮಿಕ್ ವಾಸ್ತು ಶೈಲಿ ಹೊಂದಿರುವ ವಿನ್ಯಾಸ ವ್ಯವಸ್ಥೆಗಳಿಂದ ಈ ಕಟ್ಟಡದ ವಿನ್ಯಾಸವನ್ನು ಪಡೆದು ಕೊಳ್ಳಲಾಗಿದೆ. ಈ ಕಟ್ಟಡದ ವಿನ್ಯಾಸವು ಆ ಪ್ರದೇಶದ ಸಾಂಸ್ಕೃತಿಕ ಹಾಗೂ ಐತಿಹಾಸಿಕ ಅಂಶಗಳನ್ನು ಒಳಗೊಂಡಿದೆ. ವೈ ಆಕಾರದ ಯೋಜನೆಯು ಗೃಹವಸತಿ ಹಾಗೂ ಹೋಟೆಲ್ ವಾಸಕ್ಕಾಗಿ ಸೂಕ್ತವಾಗಿದೆ. ಈ ಕಟ್ಟಡದ ಕೆಲವು ಅಂಶಗಳು ಸುಂದರ ಬಾಹ್ಯ ನೋಟಕ್ಕಾಗಿ ಹಾಗೂ ನೈಸರ್ಗಿಕ ಬೆಳಕಿಗೂ ಅವಕಾಶ ನೀಡುತ್ತವೆ. ಕಟ್ಟಡದ ಪಾದ ಭಾಗದಲ್ಲಿ ಮುಪ್ಪಟ್ಟು ಹಾಲೆಗಳು ಹೈಮೆನುಕ್ಯಾಲಿಸ್ ರಚನೆಯನ್ನು ಆಧರಿಸಿದೆ.

ಪ್ರಸ್ತುತ ದಾಖಲೆಗಳು

ಈ ವಿಶಿಷ್ಟ ಹಾಗೂ ವಿಶೇಷ ಕಟ್ಟಡವು ಹಲವು ದಾಖಲೆಗಳನ್ನು ತನ್ನೊಡಲಲ್ಲಿ ಇರಿಸಿಕೊಂಡಿದೆ. ಅವುಗಳಲ್ಲಿ ಪ್ರಮುಖವಾದವು ಗಳೆಂದರೆ:

- 1) ವಿಶ್ವದ ಅತ್ಯಂತ ಎತ್ತರದ ಗಗನಚುಂಬಿ ಕಟ್ಟಡ (828 ಮೀ, 2717 ಅಡಿ)
- 2) ಅತಿಹೆಚ್ಚು ಅಂತಸ್ತುಗಳುಳ್ಳ ಕಟ್ಟಡ : 160
- 3) ವಿಶ್ವದಲ್ಲೇ ಅತಿ ಹೆಚ್ಚು ಜನನಿಬಿಡ ಅಂತಸ್ತು : 160ನೆಯ ಅಂತಸ್ತು
- 4) ವಿಶ್ವದಲ್ಲೇ ಅತಿ ಎತ್ತರದ ಲಿಫ್ಟ್ ಅಳವಡಿಕೆ.
- 5) ವಿಶ್ವದಲ್ಲೇ ಅತಿ ವೇಗದ ಲಿಫ್ಟ್ (ವೇಗ 64 ಕೆಎಮ್/ಹೆಚ್ ಅಥವಾ 18 ಎಮ್/ಎಸ್)
- 6) ವಿಶ್ವದ ಅತಿ ಎತ್ತರದ ಹೊರನೋಟ ವೀಕ್ಷಣ ವೇದಿಕೆ 124ನೆಯ ಅಂತಸ್ತು) : 452 ಮೀ ಎತ್ತರ
- 7) ವಿಶ್ವದ ಅತ್ಯಂತ ಎತ್ತರದ ಮಸೀದಿ (158ನೆಯ ಅಂತಸ್ತು)
- 8) ವಿಶ್ವದ ಅತ್ಯಂತ ಎತ್ತರದ ಈಜಿನ ಕೊಳ (76ನೆಯ ಅಂತಸ್ತು)
- 9) ವಿಶ್ವದ ಅತ್ಯಂತ ಎತ್ತರದ ರಾತ್ರಿ ವಿಹಾರಕೇಂದ್ರ (144ನೆಯ ಅಂತಸ್ತು)

ಬುರ್ಜ್ ಖಲೀಫಾ ಕಟ್ಟಡದ ನಿರ್ಮಾಣವು ತೈಲ ಸಂಪನ್ಮೂಲ ಆಧಾರಿತ ಆರ್ಥಿಕತೆಯಿಂದ ವಿಭಿನ್ನವಾಗಿ ಸೇವೆ ಮತ್ತು ಪ್ರವಾಸೋದ್ಯಮ ಕ್ಷೇತ್ರವನ್ನು ಅಭಿವೃದ್ಧಿಗೊಳಿಸುವ ಸರ್ಕಾರದ ನಿರ್ದಾರವನ್ನು ಆಧರಿಸಿದೆ. ಅಧಿಕಾರಗಳ ಪ್ರಕಾರ ಹೆಚ್ಚಿನ ಅಂತರರಾಷ್ಟ್ರೀಯ ಮನ್ನಣೆ ಮತ್ತು ಹೂಡಿಕೆ ಗಳಿಸಿಕೊಳ್ಳಲು ಬುರ್ಜ್ ಖಲೀಫಾದಂತಹ ಯೋಜನೆಗಳ ಅಗತ್ಯವಿದೆ. ಸಾಧ್ಯವಾದರೆ ತಾವೂ ಕೂಡ ಹೋಗಿ ಈ ಸುಂದರ ಕಟ್ಟಡವನ್ನು ನೋಡಿ ಬನ್ನಿ. ನೋಡಿ ಕಣ್ತುಂಬಿಕೊಳ್ಳಿ.



ಯಾವ್ಯಾದ್ಯು ಕೆಲಸ ಶುರು
ಮಾಡಿದ್ ಮೇಲೆ ಸೆಕ್ಸಸ್ ಆಗುತ್ತೋ
ಇಲ್ಲೋ ಅಂತ ಯೋಜ್ನಿ ಮಾಡ್ಲೆ
ಕೆಲಸ ಮಾಡಿ, ನಿಯತ್ತಾಗಿ ದುಡಿಯೋಗೇ
ಫಲ ಇದೆ.

- ಜಾಣಕ್ಕ



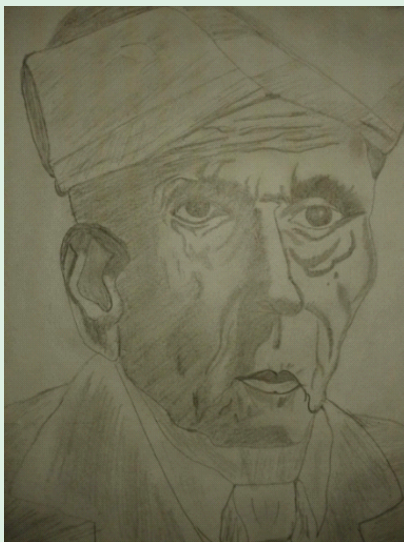
PHOTOGRAPHY



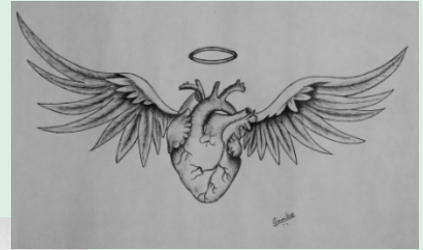
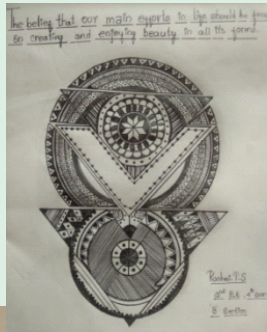
PHOTOGRAPHY

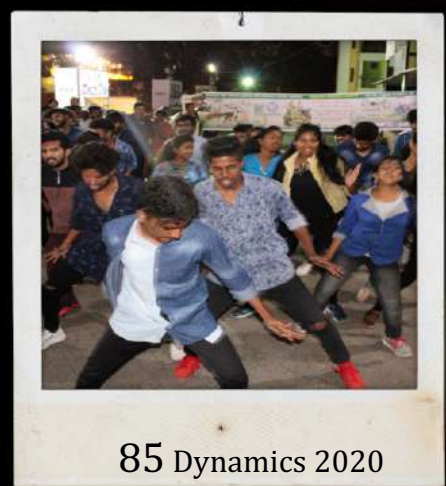
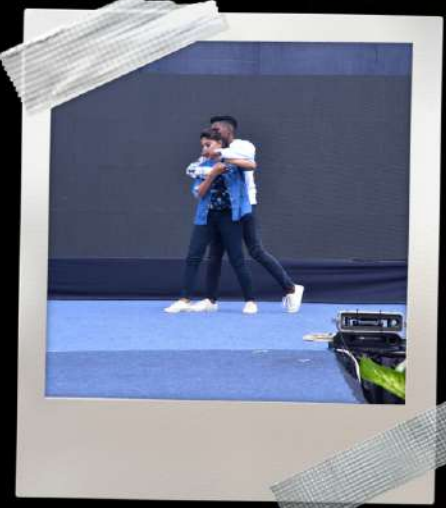
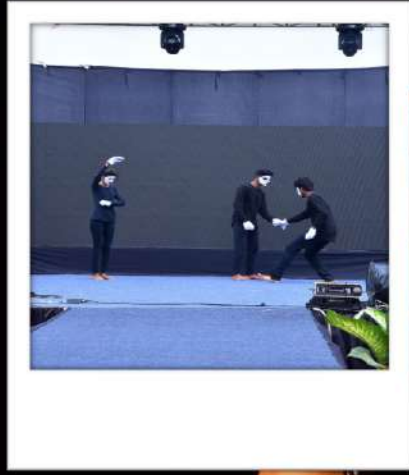


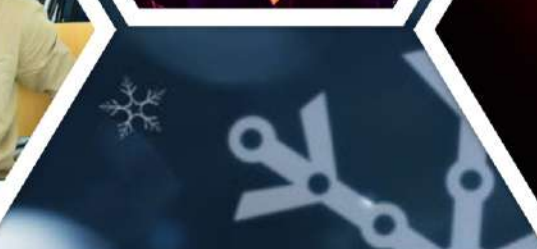
SKETCHES



SKETCHES







ALUMNI VOICE

ATME has always been successful in nurturing the young minds to reach them to the pinnacle of Success. Success not only in terms of getting a job but in a broader angle it refers to making an individual fit into this evolving world, to let them find themselves in the crowd and to prove survival of the fittest.

It was like a dream of four years that I spent in ATMECE. I have explored many things that are not described by words from both teaching and non-teaching staffs. A great thanks to all of them, I'm very great full to all.

Especially in ECE department they are not staff they are like family. Many department activities, like workshops, technically entertainment activities that come from URJA fest are like boosting us to achieve something.

The opportunities are like an ocean, but u need a right attitude and right approach to reach it and trust me, my ATME has nuked to every corners to expose the opportunities and made students dreams come true, call it in the field of sports, technical, culture, creativity. ATMEians always had their way.

Words are not enough to describe the four years journey. I can just say I'm proud to be an alumni of ATME and to carry the memories of it forever.



Sindhu C, Design Engineer (Intern), Frenus Tech



Completed bachelor's of engineering from this college in 2015 but the memories are still alive and like a treasure. The college has the best infrastructure, best faculties who teach you concepts based on live experiences, the peer here is very helpful and give you healthy competition on the fast growing world. If your looking for a happening engineering college from where you can learn and earn from, ATME should be your destination. It was a great time, spent in ATME, that too we are the second batch passout of the college.

Harshith R, ECE Dept.

I was enrolled at ATME pursuing Computer Science Engineering from 2010-2014. I was part of the first batch at ATME and never felt any lack of equipment/infrastructure during my four years of study. Teaching faculties were knowledgable and always approachable to resolve any questions. I would like to especially thank Prof. AnilKumar C J, Prof. Puttegowda D, and Prof.Vandana B who were instrumental in helping me to publish three journals (in IJCST, IJSR) and presentation at national level symposiums. I enjoyed my time at ATME while learning and practically applying computer science concepts by involving in extracurricular activities and being an active part of the Computer Society of India (CSI) chapter. All of my experience in and out of the classroom at ATME piqued my interest in further learning computer science concepts that eventually led me to pursue higher studies at San Jose State University, California. The placement cell at ATME provided key services to my peer(s) which helped them to eventually secure employment.



Athitha M Anantharamu, Walmart labs

TESTIMONIALS

Deepak Hebbur
Co-Founder and CEO
SKILLFINITY Technologies Private Limited

ATME as the name suggests, is a great academy for Technical and Management Education. SKILLFINITY has been associated with ATME for providing guidance to students of the Electronics and Communication department for the past 2 years. The support from the faculty and the department has always been constructive and industry oriented. We find the students of the electronics and communication department capable, mature and very hard working. The management team there also has a focus to improve skills and knowledge required by the industry. It is our pleasure to be associated with ATME College of Engineering and we look forward for bringing out great engineering talent together.

I am very happy to note that ATME college of Engineering is bringing out institution magazine Dynamics 2020. Almost a year ago, during July 2019, I had an opportunity to visit this beautiful campus in outskirts of Mysore. I am impressed by the team work and cooperation the young faculty exhibiting to enhance the teaching learning process and deliver industry relevant inputs the students. The institute is also providing requisite infrastructure and facility to the students and faculty. The hands on experience given to students in developing embedded system modules and robotic kits makes their learning more experiential and research oriented leading to patents. I definitely feel the magazine Dynamics 2020 will showcase all these resources/facilities and best practices.



Dr. Shreesh C
Professor and HOD,
Department of Instrumentation and Control
Engineering MIT Manipal.
(A Constituent institute under MAHE Manipal, a
Deemed to be university) (Institution of
Eminence accorded by MHRD, GOI).

DYNAMICS 2020



ATME COLLEGE OF ENGINEERING