MANTHANA 2021 ಮಂಥನ 2021

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

CHEMISTRY

CIVIL ENGINEERING

COMPUTER SCIENCE AND ENGINEERING

ELECTRONICS AND TELECOMMUNICATION ENGINEERING

ELECTRONICS AND COMMUNICATION ENGINEERING

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Estd. in 2002 | Affiliated to VTU | Approved by AICTE | Autonomous

Accredited by NAAC with 'A' Grade

Doddaballapura Main Road, Yelahanka, Bengaluru – 560 064

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www. bmsit.ac.in

Late Sri B. M. Srinivasaiah
Founder, BMSET

Late Sri B. S. Narayan
Donor Trustee, BMSET

Founder's Vision

Promoting prosperity of mankind by augmenting human resource capital through quality education and training

THEY MADE HISTORY BY THEIR INDOMITABLE SPIRIT

The history of BMS institutions dates back to the year 1946. Late Sri B. M. Sreenivasaiah, a philanthropist and visionary, realized the importance of technical education in the country. BMS College of Engineering, which he started in the year 1946 has the distinction of being the first private engineering college in the country. Sri B. M. Sreenivasaiah was conferred with the title 'Dharmaprakasha Rajakaryaprasakta' by the Maharaja of Mysore for his yeoman's service in the education sector. The inheritors of his legacy continue to cherish and uphold his vision and ideals.

After the demise of Sri B. M. Sreenivasaiah, his illustrious son Sri B. S. Narayan, a dynamic and enterprising personality, developed BMS College of Engineering into one of the finest engineering colleges. He is responsible for the creation of BMS Educational Trust (BMSET) under which he established other institutions of higher education including BMS College of Law, BMS College for Women and BMS Evening College of Engineering. He was instrumental in initiating several collaborative programs, such as cross cultural programs with M/s. Melton Foundation & training foreign students under International Co-operation Division (ICD). After the demise of Sri B. S. Narayan, the affairs of the BMS institutions was being effectively managed by The Council of Trustees appointed by Dr. Ragini Narayan wife of Late Sri B. S. Narayan and the Donor Trustee & Member Secretary of BMS Educational Trust.

BMS Institute of Technology

and

Management

is now Autonomous
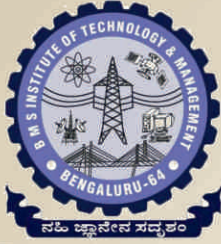
BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT
YELAHANKA, BENGALURU – 560064

Vision

To emerge as one of the finest technical institutions of higher learning to develop engineering professionals who are technically competent, ethical and environment friendly for betterment of the society.

Mission

Accomplish stimulating learning environment through high quality academic instruction, innovation and industry-institute interface.

Courses Offered

UNDERGRADUATE PROGRAMMES

1. B.E. in Electronics and Communication Engineering
2. B.E. in Computer Science and Engineering
3. B.E. in Information Science and Engineering
4. B.E. in Mechanical Engineering
5. B.E. in Electrical and Electronics Engineering
6. B.E. in Electronics and Telecommunication Engineering
7. B.E. in Civil Engineering
8. B.E. in Artificial Intelligence and Machine Learning

POSTGRADUATE PROGRAMMES

1. Masters of Computer Applications (MCA)
2. M.Tech in Machine Design
3. M.Tech in Computer Science and Engineering.

RESEARCH PROGRAMMES

1. M.Sc. (Engg.) By Research
2. Doctor of Philosophy (Ph. D)

BMS Educational Trust, Bangalore

Council of Trustees

BMSIT&M Board of Governors

Message from Trustee

Our Institution has a holistic system where the nitty -gritty of formal education has been intricately woven with moral, spiritual, and social education. The dynamism of the young talent blooming in our garden is being tapped , the skills and the potentialities of its students are being mined out and chiselled.

I appreciate every student who shared the joy of participation in co-curricular and extracurricular activities along with their commitment to curriculum. That little extra we do, is the icing on the cake.

Do more than belong– participate.
Do more than care – help.
Do more than believe – practice.
Do more than be fair – be kind.
Do more than forgive – forget.
Do more than dream – work.'
Just as our mother earth gives us more and more, MANTHANA-2021 will enable our learners to give and get a little more of learning.

Wishing you all the best...!

Dr. B. S. Ragini Narayan
Donor Trustee & Chairperson, BMSET

Message from Trustee

The college magazine MANTHANA-2021 has again provided an opportunity to the students to showcase their talent and explore their creative potential.

Always remember that nothing stays forever – neither success nor failure. The only thing that is constant in life is change. We have to accept the changes and challenges of life and be mentally focused, strong and determined. Keep learning about new things, God has created infinite capacity in you, make use of it; handle adverse situations fearlessly, with courage.

I would request all the students to fight through this pandemic and emerge victoriously, and also congratulate the editorial committee for making this magazine a beautiful one.

I wish all the faculty members and students, the very best in their activities.

Dr. P. Dayananda Pai
Life Trustee, BMSET

Message from Trustee

It gives me immense pleasure to know that BMSIT&M is bringing out the College Magazine Manthana-2021. The College Magazine plays a very important role in an Educational Institution by channelizing the talented writers.

I am proud to mention that BMSIT&M has become Autonomous Institution (UGC approved) from the Academic Year 2021-2022. This magazine serves as a platform for the students and faculty to give expression to their thoughts and ideas.

Our motto is to provide quality education and thereby enabling the students to become globally competent.

| wish all the students and staff, the very best in their activities.

| congratulate the Chief Editor and his team for their excellent work.

With best wishes,

Thanks and regards

Aviram Sharma
Life Trustee, BMSET

Message from Trustee

I am extremely happy to know that BMSIT&M is bringing out MANTHANA-2021, an annual college magazine.

As a well-established and esteemed institution, we uphold the highest academic standards while maintaining strict discipline, resulting in a remarkable academic progress.

Hard effort and discipline are the guaranteed pathways to success for any student, regardless of what career path they pick. And, as a learning institution, we will assist students in accomplishing their patronizing goals while also ensuring that their time at the college is enjoyable.

The creative content of MANTHANA reflect the wonderful creativity of thoughts and imagination of faculty, alumni and students of BMSIT&M!! Wishing the editorial team a great success

With best wishes,

Thanks and regards

Shri Muralikrishna K Mysore
Director, BMSET

Message from the Chairman
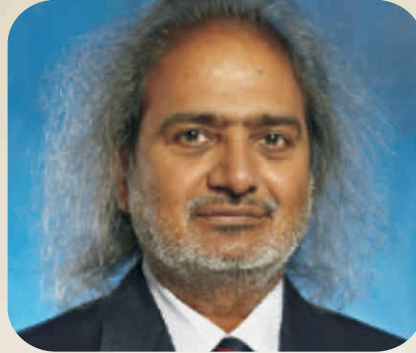
I am happy to note that a dedicated team of staff and students has brought out another edition of college magazine MANTHANA.

BMSIT & M is an eminent Institution known for sustained credibility and excellence in quality upholding the highest academic standards and all-round development. Recognizing need and relevance of education as a key to a Nation's progress, our Institution is striving hard to ensure every student succeed not only in academics but also evolve as a responsible citizen.

Learning is a continuous process and a class room scenario only facilitate a student to grow in methodological manner while connecting with real life situations in a holistic way.

MANTHANA is a platform for the student community to showcase their creative pursuits rooted in creativity and ingenuity. The BMSITians are trendsetters as reflected in our endeavor in this venture.

Shri M. Madan Gopal, IAS (Retd.)
Trustee, BMSET,
Chairman, Board of Governors, BMSIT&M.

Message from the Principal

I am glad to know that BMSIT&M is coming out with a newer edition of its magazine MANTHANA. I am sure that the students, staff members and alumni will find it as a great platform to exhibit their literary prowess and talent.

I believe that academic competence of an institution needs to be built meticulously and sustained with all-out effort.   I am very impressed by the commitment of our management, staff and students to achieve excellence and to propel the institution to the forefront of the global engineering education. They are dreaming big, growing self-confidence, thinking innovatively, working as a family, and using resources judiciously to get to the forefront.   A continuously improving teaching-learning process, an effort to close the gap with the industry and an efficient and responsive administrative system, have made BMSIT&M a happening place.   In addition, the scope and encouragement for co-curricular and extra-curricular activities have helped to produce graduates with fully rounded personality.

In this context, I am very happy that Manthana 2021 is bringing out the rich literary talent of Team BMSIT&M. I appreciate all those who have contributed insightful and interesting articles and congratulate the Editorial Team for its untiring effort to produce this valuable piece of work.

Dr. Mohan Babu G. N.
Principal

Editorial Board of Manthana 2021

From Editorial Desk

We are delighted to bring out the 18th Edition of the techno-cultural annual institutional magazine – **"Manthana 2021"**. This edition brings in articles of all types technical, literary, photographs, sketches from students, faculty, and alumni of our institutions. The edition is opportune at a time the institution attaining academic autonomy. The work showcased in this edition shows the vigour of students and staff even during lockdown and crisis due to COVID 19 pandemic. The magazine covers the profiles of individual depts., section and clubs followed by the articles. The articles are organized in to technical, literary, photographs, sketches, and alumni corner. Many of the articles in this edition are interesting and are eye-openers.

We thank all the authors who have liberally contributed their articles to this edition of the magazine making it a grand success. We would like to thank the untiring efforts and contributions of the student coordinators, faculty coordinators and HoDs for their seamless cooperation and support to bring out this colourful magazine.

We would like to thank our management and Principal, for their continuous motivation and support.

We hope this edition of the magazine will be a pleasant experience to all.

Dr. Mala C S   **Dr. Anjan Krishnamurthy**
Dean Student-welfare   Editor- Manthana 2021

Dr. Annapoorna M S   **Prof. Shimna Manoharan**
Co-Editor- Manthana 2021   Co-Editor, Manthana 2021

Content

Free Covid-19 Vaccination Camp in Association with BBMP

A four-day COVID-19 Free Vaccination Camp was conducted at BMSIT&M.

Our NCC Cadets, Civil Defence wardens, Rotaractors & NSS volunteered as the site-managers to maintain social distancing among the beneficiaries, to support the vaccinators' team, to help in registration on co-win portal and guide them through the process of vaccination.

They also participated in spreading the importance of vaccination and encouraging more people to get vaccinated. Over 1000 people including students of both BMSIT&M and BMSSA, faculty, staff, their families and localites were benefitted through this camp.

All COVID-19 safety protocols were strictly followed.

VACCINATION CAMP	WED 30/06/21	MON 05/07/21	TUE 06/07/21	WED 07/07/21	TOTAL
No. of BMSIT&M Students Vaccinated	75	154	8	1	407
No. of BMSSA Students Vaccinated			32	49	
No. of Faculty/ Staff Vaccinated	66		11	11	
No. of family members (of students/staff) Vaccinated	53	201	59	89	596
No. of locals (around campus) Vaccinated			189	5	
TOTAL COUNT OF THE DAY	194	355	299	299	1003

Sewage Treatment Plant (STP)

Location: BMSIT&M College campus.

Source of input for STP: The waste water from the campus comprises Sewage from hostel rooms and administrative section, Kitchens and toilets.

Capacity: 350KLD Sewage treatment plant

350KLD Sewage treatment plant is based on quantity and quality of waste water. It is proposed to treat the waste water in Moving Bed Bio Reactor (MBBR) system.

The treatment Process follows the stages mentioned below

1. Oil and grease trap for kitchen – from boys hostel
2. Equalisation tank
3. MBBR Tank 1
4. MBBR Tank 2
5. Flocculation Tank
6. Lamella Clarifier
7. Clarifier Water Tank
8. Tertiary Treatment
9. Disinfection
10. Treated water Tank
11. Sludge Holding tank
12. Sludge dewatering system

The treated effluents are used for gardening purpose in the campus.

Sewage treatment plant

Bike Parking

We have constructed a huge Bike Parking Area in our college, where all the staff, students and guests of our college can park their bikes comfortably. The area is surrounded by greenery, where the beautiful garden and trees covered the parking area.

In Coming & Out Going Staff

WELCOME TO OUR NEW STAFF

The Principal, Management, and staff of BMSIT&M welcome the newly joined staff members to the **"BMSIT family. "** **We congratulate and wish each of them a happy tenure at BMSIT&M..** Your skill would be of incredible asset to our institute and its success. **May all your endeavors help BMSIT to grow to new heights.**

SL. NO.	NAME OF THE FACULTY	DESIGNATION	DEPARTMENT	DATE OF JOINING
1	MR. ANUPKUMAR G EKBOTE	ASSISTANT PROFESSOR	CV	12.10.2020
2	DR. AMIT KUMAR	ASSISTANT PROFESSOR	ECE	03.03.2021
3	DR. PRACHI SHARMA	ASSISTANT PROFESSOR	ECE	04.03.2021
4	DR. ANITHA V R	ASSOCIATE PROFESSOR	ECE	18.06.2021
5	DR. DHANALAKSHMI B K	ASSISTANT PROFESSOR	CSE	01.03.2021
6	DR. ARCHANA R A	ASSISTANT PROFESSOR	CSE	25.03.2021
7	DR. BHUVANESHWARI C MELINAMATH	PROFESSOR	CSE	01.04.2021
8	DR. N RAKESH	ASSOCIATE PROFESSOR	AI&ML	05.04.2021
9	DR. SUREKHA K B	ASSOCIATE PROFESSOR	ISE	19.02.2021
10	DR. SHRIDHAR SANSHI	ASSISTANT PROFESSOR	ISE	22.02.2021
11	DR. NARASIMHA MURTHY M S	ASSISTANT PROFESSOR	ISE	26.02.2021
12	DR. GEETA AMOL PATIL	ASSOCIATE PROFESSOR	ISE	15.03.2021
13	DR. RAJAKUMARA H N	PROFESSOR	CIVIL	22.03.2021
14	DR. ATHIYAMAAN V	ASSISTANT PROFESSOR	CIVIL	25.03.2021
15	MR. MARSH M BANDI	ASSISTANT PROFESSOR	CIVIL	15.07.2021
16	DR. LALIT KUMAR GUPTA	ASSISTANT PROFESSOR	CIVIL	10.08.2021
17	DR. ARNAB BHATTACHARYYA	ASSISTANT PROFESSOR	MATHS	02.08.2021
NON TEACHING STAFF				
1	MR. SANTOSH KUMAR B SALIMATH	SDA	ACCOUNTS - NT	12.11.2020
2	MR. DEVENDRA KUMAR S	ADMINISTRATIVE OFFICER-AO	ADMIN. - NT	19.11.2020
3	MR. ARUN R	ACCOUNTS OFFICER	ACCOUNTS - NT	02.12.2020
4	MR. BASAVARAJU N	LIFT OPERATOR CUM ELECTRICIAN	BUILDING SECTION	19.04.2021

GOOD WISHES FOR OUTGOING STAFF

We thank you for your services at our institution. Farewell, and may victory take after you in your journey ahead.

SL. No.	NAME OF THE FACULTY	DESIGNATION	DEPART-MENT	DATE OF JOINING	DATE OF RELIEVING
1	DR. NANDINI R	ASSISTANT PROFESSOR	ME	03.07.2019	Relieved on 11.01.2021
2	MR. MANISH S	ASSISTANT PROFESSOR	CV	07.07.2014	Relieved on 17.08.2020
3	DR. SHANTI CHANDRA	ASSISTANT PROFESSOR	ECE	30.01.2020	Relieved A/N on 30.01.2021
4	SMT. HAMSAVAHINI R	ASSISTANT PROFESSOR	ECE	04.02.2008	Expired on 05.05.2021
5	DR. ROBIN SINGLA	ASSISTANT PROFESSOR	ECE	06.02.2020	Relieved A/N on 16.07.2021
6	DR. SANTHI NATARAJAN	ASSOCIATE PROFESSOR	AI&ML	01.07.2019	Relieved A/N on 30.01.2021
7	SRI. H GANAPATHY HEBBAR	VISITING FACULTY	TE	20.08.2007	Relieved on 18.08.2020
8	MRS. PRASANNA G	ASSISTANT PROFESSOR	CV	05.08.2015	Resigned and Relieved on 03.03.2021
9	DR. UNNATI SATISH AGRAWAL	ASSISTANT PROFESSOR	CV	27.10.2020	Resigned on 18.01.2021
10	SRI. VISHWANATHA ACHARYA	ADMINISTRATIVE OFFICER	ADMIN - NT	28.10.2020	Relieved on 28.11.2020
11	SRI. T. VENKATARAMA	ACCOUNTANT	ACCOUNTS - NT	13.09.2002	Relieved on 31.03.2021
12	SMT. KOMALA M	FDA	ACCOUNTS - NT	09.02.2007	Transferred to BMSCE & Relieved from BMSIT w.e.f. 16.01.2021
13	MR. RAMASWAMY NAIK S	GARDEN SUPERVIOR, ADMIN.	GARDEN SUPERVIOR, ADMIN.	02.11.2019	Relieved on 17.10.2020

Department Profiles

Department of
Artificial Intelligence and Machine Learning

Vision:. To develop professionals equipped to build sustainable and intelligent solutions that effectively interact with the natural intelligence towards creating a digitally empowered environment for future generations, safeguarding social ethics.

Mission: To enable students with the spirit and power of interdisciplinary acumen by integrating a world of knowledge into a world of intelligent systems and subsystems.
- Boost academic outcome through place-based education and collaborations with established research labs and industries.
- Encourage entrepreneurship efforts among students and develop them into great leaders.
- Strong Industry-Institute interaction

PEOs:
- PEO-1: To develop and impart knowledge in Artificial Intelligence and Machine Learning technologies at par with industrial standards.

- PEO-2: To develop the ability among the graduates to demonstrate strong communication skills, understand current pedagogical techniques and adopt state-of-the-art computing practices.
- PEO-3: To develop graduates who are socially responsible solution providers and ethical entrepreneurs.
- PEO-4: To prepare graduates to exhibit personal and professional responsibilities, with commitment to lifelong learning.

PSOs:
- PSO-1: Understand the basic principles of Artificial Intelligence and Machine Learning and appreciate the changes required in the evolving technology.
- PSO-2: Ability to develop Artificial Intelligence and Machine Learning systems and solutions, imparting team work, communication and product development skills.

From HoD's Desk
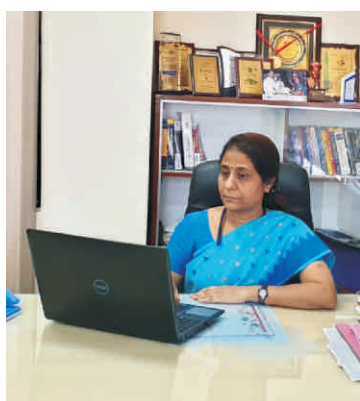
Dr. Bharathi M A
Professor and Head

The **Department of Artificial Intelligence and Machine Learning**, is one of the most dynamic and vibrant department. I am really elated to tell that the department stands on the strength of distinguished experienced faculty combining academic excellence, research , extracurricular activities and real-world experience with dedication and commitment. We strive hard to promote academic excellence and are committed to creating an ambience for fostering innovation and creativity, to develop the overall personality of the students so as to equip themselves with modern and sensitive outlook to face the challenges of the competitive world. The department maintains active research groups for carrying out collaborative and interdisciplinary research. We have state of the art research facilities to support our academic programs and research. Funding for research from Vision Group of Science and Technology , GoK, and Management help us to maintain and modernise our research infrastructure. our department, Our department looks forward to contribute in solving the technological challenges of the society with active participation from all sections of the society.

Dept. Name: Artificial Intelligence and Machine Learning

Dept. Established year: 2019

No. of students (UG): 124

No. of Doctorates: 05

Faculty Count: 05

No. of Research Scholars: 07 (Industry and Academia)

No. of FDP / Workshop / Seminar / Expert talk / STTP conducted in the year 2021 (May 2020 - till now):
FDP: 02
Expert talk: 04
Webinar: 02

No. of Publications: 08

No. of OBE activities: 01

Open Course: 02

Club Activities: 04

Club Activities/ Professional Society activity: 02

Research Scholar awarded with Ph.D: 01

Faculty Achievement:
- Dr. Santhi Natarajan Dr.Bharathi M A : Received IEEE - Best Paper award.
- Mr. Rajesh I. S. is awarded Ph.D under the guidance of Dr.Bharathi M A at Department of AI&ML.
- Dr. Bharathi M A, gave Keynote address on " AI - Virtual Reality " at Department of Computer Science of Shree Damodar Colleges of Commerce & Economics - Margao Goa.
- Dr. Bharathi M A has extended support as Resource Person for FDP on "AI in Healthcare Industry "at Reva University.
- Dr. Bharathi M A has extended support as Resource Person for FDP on "Emerging and Transformative Technologies-Post Pandemic Era" at Sharanbasaveshwar University, Gulbarga.
- Dr. Bharathi M A: Filed Patent and is published online.

- Dr. Vishwa Kiran S: Resource Person and delivered the content on wearable devices.
- Dr. Anupama H S: Granted Rs.5500/- from KSCST for the best student project.
- Dr. Anupama H S, has extended her support as Resource Person for Webinar on "Brain Computer Interface and its Applications" at R.V. College of Engineering, Bengaluru.
- Dr. Rakesh N. Invited to serve as "Technical Program Committee Member" for 2021 2nd International Conference on Information Technology, Advanced Mechanical and Electrical Engineering (ICITAMEE) Universitas Muhammadiyah Yogyakarta (UMY), Yogyakarta, Indonesia, August 25-26th 2021.
- Mr. Harinath H. N. has extended support as Resource Person for FDP on "IoT Applications - Emerging and Transformative Technologies-Post Pandemic Era" at Sharanbasaveshwar University ,Gulbarga

Student Achievements:
- Miss Aditi N, 4th semester student, volunteers for the NGO.
- Mr. Sadanand and Mr. Arun Joseph, 4th semester students, enterneurprener for Helping pandas.
- Mr. Gautham S, 4th semester student, writing a blog on instagram about BRAINIUM, department forum.
- Miss Ananya S Malagi, 4th semester student, won 2nd prize in Bharatanatyam competition.

Department of *Chemistry*

Vision :
To aspire, achieve and sustain for excellence in academics.

Mission:
To nurture young minds and to bring awareness and flair for Chemistry by personal attention and good guidance.

From HoD's Desk

Department of Chemistry has done a marvelous effort in keeping up the prestige of the department in the year 2020-21 amidst the covid-19 pandemic. I congratulate of the department faculty members for contributing toward the teaching – learning process with new approach. Also, they had contributed towards the development of science and technology by conducting an international conference - AIMS 2020 and also a series of international webinar series. Also, I thank all the students for excellent performance in their academics and wish them all the best for the future.

Dr. Ramakrishnappa T.
Associate Professor and Head

Dept. Name: Department of Chemistry

Dept. Established year: 2002

No. of Doctoral Degree Holder: 06

Faculty Count: 07

No. of Research Scholars: 04

No. of FDP / Workshop / Webinars / Expert talk / STTP/ conducted during 2020-21: 04

No. of Publications: 15

Faculty Achievement List: Conducted an International Conference on Accelerating Innovations in Material Science (AIMS 2020), for the first time at BMSIT&M in virtual mode.

Department of Civil Engineering

Vision:
To be an Exemplary Centre, disseminating quality education and developing technically competent civil engineers with professional integrity for the betterment of society

Mission:
1. Impart technical proficiency through quality education
2. Motivate entrepreneurship through enhanced industry -interaction and skill based training
3. Inculcate human values through outreach activities

PEO's:
PEO-1: Lead a successful career by analyzing, designing and solving various problems in the field of Civil Engineering.

PEO-2: Execute projects through team building, communication and professionalism
PEO-3: Excel through higher education and research for endured learning.
PEO-4: Provide effective solution for sustainable environmental development.

PSO's:
PSO-1: Identify & address the challenges in transportation, sanitation, waste management, and urban flooding in metropolitan cities.
PSO-2: Provide solutions related to civil engineering built environment through multi-disciplinary approach.

From HoD's desk

As HoD, I believe in strength of a department always lies in its human resources and infrastructure. Both of these have played an immense role in our department's development and growth. As a string team needs a motivational leader, similarly an inspiring leader also needs enigmatic team players for success to emerge The Department of Civil Engineering at BMSIT&M aims at imparting highest level of education inside and outside the classrooms. Our well-equipped and advanced laboratories facilitate experimental learning and various other departmental activities motivate the young minds to learn and evolve.

Celebration of Engineer's Day on the eve of Sir M. Visvesvaraya's Birthday, Techtransform, club activities, technical talks, Extensive Survey Camp, Internship Programs all initiate capacity building in students. Industrial visits and collaborative learning sessions aid the lateral thinking in students. Department is vibrant and actively involved in research and consultancy. The students assisted by faculties have published around 25 technical papers at various conferences competing with the post graduate students.

Dr. Rajesh Gopinath
Associate Professor and Head

Dept. Name: Civil Engineering

Dept. Established Year: 2013-2014

No. of Students (UG): 241

No. of Doctoral Degree Holders: 07

Faculty Count: 11

No. of Research Scholars: 04

No. of FDP / Workshop / Webinars / Expert talk / STTP/ conducted during 2020-21: 16

No. of Publication: 23

No. of OBE activities: 11

Faculty Achievement List:
- Dr. Velumani P received Best Senior Faculty award.
- Mr. Vinod B R received Best Young researcher award

- Mrs. Shimna Manoharan participated in Cambridge Science festival as a panellist member

Student Achievements:
- Sanju S P USN bearing 1BY17CV043 Cleared GATE 2021 (Civil)
- Vikas C USN bearing 1BY17CV061 got placed on his own in Contriver
- 3 Final year projects were funded by KSCST amount of Rs 17000/-

- Project titled "cold storage using cooling bricks, hydrogel and waste materials" has been shortlisted for the Second round for AICTE CHHATRA VISHWAKARMA AWARDS 2020. Guide : Shimna Manoharan and Dr. Anup Egbote. Group Members (2017 Batch - Final Year Project): Chandan Sai, Siddesh, Akanksha, Sumanth.

No. of Club Activities / Professional Society activity conducted during 2020-21: 01

Department of
Computer Science and Engineering

Vision:
To develop technical professionals acquainted with recent trends and technologies of computer science to serve as valuable resource for the nation / society.

Mission:
Facilitating and exposing the students to various learning opportunities through dedicated academic teaching, guidance and monitoring.

PEOs:
PEO-1: Lead a successful career by designing, analyzing and solving various problems in the field of Computer Science & Engineering.

PEO-2: Pursue higher studies for enduring edification.
PEO-3: Exhibit professional and team building attitude along with effective communication.
PEO-4: Identify and provide solutions for sustainable environmental development.

PSOs:
PSO-1: Analyze the problem and identify computing requirements appropriate to its solution.
PSO-2: Apply design and development principles in the construction of software systems of varying complexity.

From HoD's desk

Dr. Anil G.N.
Professor & Head

I am extremely happy to share with you the progress of Department of Computer Science & Engineering has made during 2020. The department has been one of the most vibrant among all, in terms of students, faculty, facility, placements, internships and incubation centre. The department has VTU recognized Research Centre and 12 scholars are enrolled for PhD. The department is supported by 34 qualified and experienced faculty members with 16 doctorates in different domains. Our department has a team of highly skilled, motivated, proficient faculties and technical staff members who are striving hard continuously to enhance the quality of education.

Dept. Name: Computer Science and Engineering

Dept. Established Year: 2002 – 2003

No. of Students (UG+PG): UG:963 + PG:17

No. of Doctoral Degree Holders: 16

Faculty Count: 34

No. of Research Scholars: 12

No. of FDP / Workshop / Webinars / Expert Talk / STTP / Conducted during 2020-2021: 16

No. of publications: 34 Indexed in Scopus

No. of OBE activities: 3

Faculty Achievement List:
Dr. Radhika K R and Dr. Dhanalakshmi B K awarded Ph D. degree during 2020-21.

Student Achievements: ·
• Mr. Adarsh Vatsa, as the state winner of 12th edition of TCS TechBytes with a TCS education scholarship of Rs 75,000/.
• Mr. Aman Rai, Ms. Afra, Ms. Arfa Noorain H, Mr. Abdullah Ali Hood, received KSCST Project Funds in the 44th Series of Student Project Programme 2020-21.
• Mr. Gaurav Sethia, Mr. Harish Kumar S Guragol, won 2nd Prize for an interdisciplinary project on Sahayak bot in the event e-Yantra Robotics Competition eYRC 2020-21.

No. of Club Activities/ Professional Society activity conducted during 2020-21: 08

Department of
Electronics and Communication Engineering

Vision:
Be a pioneer in providing quality education in Electronics, Communication and allied engineering fields to serve as valuable resource for industry and society.

Mission:
1. Impart sound theoretical concepts and practical skills through innovative pedagogy.
2. Promote interdisciplinary research.
3. Inculcate professional ethics.

PEOs:
PEO-1: Work as professionals in the area of Electronics, Communication, and allied Engineering fields.

PEO-2: Pursue higher studies and involve in interdisciplinary research work.
PEO-3: Exhibit ethics, professional skills and leadership qualities in their profession.
PEO-4: Identify and provide solutions for sustainable environmental development.

PSOs:
PSO-1: Exhibit competency in embedded system and VLSI design.
PSO-2: Capability to comprehend the technological advancements in radio frequency communication and digital signal processing.

From HoD's Desk

Dr. Ambika R.
Professor and Head

Department of Electronics and Communication Engineering (ECE) was established in the year 2002-03, affiliated to Visvesvaraya Technological University (VTU), Belagavi and approved by All India Council for Technical Education (AICTE). The UG programme is provisionally accredited by the National Board of Accreditation (NBA), New Delhi till June 2022. The department offers full-time UG programme in Electronics & Communication Engineering and has a research center recognized by VTU, Belagavi.

The department has qualified and experienced faculty members with expertise in VLSI and embedded systems, digital communication, signal processing, computer networks, Nano electronics, RF communication etc. To bridge the gap between industry and academia, the department is organizing industrial visits, expert talks, workshops, partial deliveries, etc.

Dept. Name: Electronics and Communication Engineering

Dept. Established Year: 2002

No. of Students (UG): 824

No. of Doctoral Degree Holders: 14

Faculty Count: 29

No. of Research Scholars: 19

No. of FDP/Workshop/ Seminar/ Expert talk / STTP/ conducted in the year 2021:
FDP: 01, Seminar: 01, Expert talk: 03

No. of publications: 35

No. of OBE activities: 65

Faculty Achievement List: Dr. Surekha Gondkar, Dr. Robin Singla and Dr. Rashmi N were awarded with Ph D. degree during 2020-21.

Student Achievements:
1. Deeksha Sethi of 5th semester ECE department secured a Silver Medal at All India Best Cadet Competition for the year 2020-21, which was conducted by NCC Directorate in Army wing during Pre-Republic Day Camp.
2. Likitha Madhav M R of 5th semester ECE department won the prestigious Richard E. Merwin Scholarship offered by the IEEE

Computer Society which include $1000 cash reward.
3. The project titled "Lifesaving system for road accidents" won the best project of the year 2020 in the 43rd Series of Student Project Programme conducted by KSCST on 21.09.2020.
4. Students of 5th semester ECE department won second prize in UDAAN - Quadcopter competition in National Level Technical Fest held at Nitte Meenakshi Institute of Technology, Bangalore during 2020.

No. of Club Activities/ professional Society activity conducted during 2020-21: 02

Rank Holders

ADHYA RAO
1BY16EC005
4th Rank

HARSHITA V M
1BY16EC033
8th Rank

HOMAGE

Prof. Hamsavahini R
Assistant Professor, ECE Department
Service in BMSIT&M: 04/02/2008 to 05/05/2021

A VERY PROACTIVE, KIND HEARTED AND ENERGETIC PERSON. ....
WE ALL MISS YOUR PRESENCE BUT ALWAYS WILL BE IN OUR
HEART.........

Department of
Electrical and Electronics Engineering

VISION:
To emerge as one of the finest Electrical & Electronics Engineering Departments facilitating the development of competent professionals, contributing to the betterment of society.

MISSION:
Create a motivating environment for learning Electrical Sciences through teaching, research, effective use of state of the art facilities and outreach activities.

PEOs
PEO-1: Have successful professional careers in Electrical Sciences, and IT enabled areas and be able to pursue higher education.

PEO-2: Demonstrate ability to work in multidisciplinary teams and engage in lifelong learning.

PEO-3: Exhibit concern for environment and sustainable development.

PSOs
Graduates of the program will be able to
PSO-1: Analyze and design electrical power systems.
PSO-2: Analyze and design electrical machines.
PSO-3: Analyze and design power electronic controllers for industrial drives.
PSO-4: Analyze and design analog and digital electronic systems.

From HoD's Desk

Dr. Narappareddy Ramarao
Associate Professor and Head

The Department of Electrical and Electronics Engineering, established in the year 2003 has a team of qualified faculty members who are well experienced and are highly dedicated towards teaching learning process. The Department is accredited twice by NBA, first in the year 2016 and second in the year 2019. The faculty members have also undergone professional training from leading organizations in "Teaching-Learning Methodologies". The Department follows the outcome based education(OBE) by conducting various activities in academics like flipped classes, collaborative learning, Project Based Learning etc., They also encourage students to enhance in their leadership and communication skills by making them to involve in extra-curricular activities in Tech Fests and cultural fests like "Vidyut", "Tech-Transform", "Utsaha" etc.,. Students of the Department are encouraged to undergo Industrial Internships during their semester breaks. All the faculty members of Department also undergo Industry Internship of Ten Days once a year. The Department has well established laboratories that satisfy all the academic requirements and are also upgraded over years since their establishment to further cater to the needs in changing technology and to enhance research works. The Department has VTU recognized Research Centre and presently eight scholars are pursuing Ph.D. All faculty members and students are actively involved in research works, published research papers in reputed National and International Journals and Conferences. The Department has shown excellent track record in Campus Placements of the final year students and with their abilities many students are gaining Internship with Stipends in their final semester in the companies they are placed. The number of students who are choosing to pursue Post Graduation in the Universities abroad and in reputed Indian Universities are increasing which is giving a Global Visibility of the Department and the Institute.

Dept. Name: ELECTRICAL AND ELECTRONICS ENGINEERING

Dept. Established Year: 2003 - 2004

No. of Students (UG+PG): 264

No. of Doctoral Degree Holders: 05

Faculty Count: 15

No. of Research Scholars: 10

No. of FDP / Workshop / Webinars / Expert Talk / STTP conducted during 2020-21: 06

No. of publications: 20

No. of OBE activities: 04

Faculty Achievement List:
- Dr. Prashanth N A was awarded Ph D. degree during 2020-21 for the thesis entitled "Certain Intelligent Techniques to Optimize parameters of PMSG for Wind Turbines" by JNTU Anathapura,.
- Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering was a reviewer for ELSEVIER journal "Nuclear Instruments and Methods in Physics Research Section A: Accelerator, Spectrometers, Detectors and Associated Equipment".

Student Achievements:
- The student Project Proposal entitled "SUPERCAPACITOR USING NANOTECHNOLOGY" has been approved by the Karnataka State Council for Science and Technology (KSCST) under "Student Project Programme - 44th Series".

- Kiran S of 3rd year secured first place in Orange Ball Tournament organized by Tennis Temple.

No. of Club Activities/ Professional Society activity conducted during 2020-21: 02

Rank Holder

ABHIJITH KUMAR
1BY16EE002
5th Rank

Department of
Electronics and Telecommunication Engineering

Vision:
Emerge as a premier department developing high quality Electronics and Telecommunication Engineering professionals with ethics and eco friendliness for the betterment of the society.

Mission:
Impart quality education in Electronics and Telecommunication Engineering by facilitating:
- Conducive learning environment and research activities
- Good communication skills, leadership qualities and ethics
- Strong Industry-Institute interaction

PEOs:
PEO-1: Excel as Professionals in Electronic and Telecommunication, Electronics and IT related fields.
PEO-2: Engage in life-long learning.
PEO-3: Maintain ethical norms, exhibit good communication skills and leadership qualities.

PSOs:
PSO-1: Analyze and design communication systems
PSO-2: Analyze and implement signal processing applications.
PSO-3: Design and implement embedded systems

From HoD's Desk

Dr. Seema Singh
Professor and Head

Its my pleasure to share the achievements of ETE dept in 2020-21. Our two faculty members awarded with PhD degree and now , more than 30% faculty are doctorates in ETE .The department additional facility of Texas innovation Centre could raise revenue of 1.5 lakh . Students excelled with good results including 4 ranks. Excellent placements include highest CTC of Rs 8,60,000/-from ANZ. Faculty have applied for funding under VTU RGS scheme and department funded by AICTE for ATAL FDP.

Dept. Name:
Electronics and Telecommunication Engineering

Dept. Established year: 2003

No. of students (UG+PG): 223

No. of Doctorates: 04

Faculty Count: 11

No. of Research Scholars: 04

No. of FDP/Workshop/Seminar/Expert talk STTP/ conducted:
FDP: 1, Expert talk: 2, Alumni talk: 2, Workshop: 1, Webinar: 1

No. of Publications: 21

No. of OBE activities: OBE:25, OC:02

Faculty Achievement List:
1. Dr. Banuprakash R. and Dr. Sumathi M. S. Ph. D., VTU - April 2021
2. Prof. Mallikarjuna Gowda, Prof. Banuprakash R and Prof. Prathiba: Best Paper award.
3. Prof. Thejaswini S, Prof. Banuprakash , Prof. Siddiq Iqbal and Prof. Saritha I G: filed patent.
4. Prof. Banuprakash R has completed a consultancy work : 20.11.2020.

Student Achievements: —

Club Activities/ Professional Society activity: 02

Rank Holders

NEHA R.
(1BY16TE029)
1st Rank
Gold Medalist

ARCHANA ARUN
(1BY16TE009)
7th Rank

RAGHAV K K
(1BY16TE038)
4th Rank

MANASA M
(1BY16TE024)
10th Rank

Department of
Information Science and Engineering

Vision:
Emerge as center of learning in the field of information science & engineering with technical competency to serve the society.

Mission:
To provide excellent learning environment through balanced curriculum, best teaching methods, innovation, mentoring and industry institute interaction.

PEOs:
PEO-1: Successful professional career in Information Science and Technology.

PEO-2: Pursue higher studies & research for advancement of knowledge in IT industry

PEO-3: Exhibit professionalism and team work with social concern

PSOs:
PSO-1: Apply the knowledge of information technology to develop software solutions.

PSO-2: Design and develop hardware systems, manage and monitor resources in the product life cycle.

From HoD's desk

Dr. Pushpa S K
Professor and Head

The Department of Information Science and Engineering started in the Year 2010 with an intake of 60 and currently we have an intake of 180. ISE Program is accredited by National Board of Accreditation, New Delhi.

The department has been imparting quality and outcome based education through a conducive learning environment, innovative teaching, mentoring and industry Institute interaction to students to become technically competent in serving society. The faculty members are actively involved in Teaching, Research, Outreach activities and have published a good number of research articles in various National, International Conferences and Journals. Department encourages students to take part in cultural, sports and extracurricular activities for their holistic development.

Dept. Name: Information Science and Engineering

Dept. Established year: 2010

No. of students (UG): 645

No. of Doctorates: 09

Faculty Count: 17

No. of Research Scholars: 08

No. of FDP/Workshop/ Seminar/ Expert talk / STTP/ conducted in the year 2021:
FDP – 02
Expertalk – 08

No. of publications: 22

No. of OBE activities: 08

Faculty Achievement:
1. Prof Veena N, Assistant Professor, Dept. of ISE has completed Final Ph.D. Viva -Voce on 13.06.2020
2. Prof. Gireesh Babu C N, Assistant Professor, Dept. of ISE has extended their support as Resource person for 5 days Online training program- Mathematics for Data Science, from 11th to 15th May 2020 at L&T, CTEA Madh, Mumbai as part of EDP program.
3. Dr. Pushpa S. K, Professor, Department of ISE has extended their support as Resource person for five day FDP on "Machine Learning and AI", from 08.06.2020 to 12.06.2020 organized by Ghousia College of Engineering, Ramanagaram.
4. Dr. Manjunath T N, Professor and Dean-ER, Department of ISE delivered a talk on "Trends in Data Analytics", AICTE sponsored One Week online Short term training program

conducted by SDM College of Engineering, Dharwad, Karnataka on 17.12.2020
5. Dr. Rudresh Shirwaikar, Prof, Swetha M S, Prof Shanthi D L were part of journal/conference review committee.

Student Achievements:
1. Gururaj B N, Aaqib R, Chetan N & Druva got First place "Innovathon 2020 – Build a Better Tommarow" organised by Department of CSE of SVCE, Bangalore from 1-07-2020 to 02-07-2020

2. Ms Samurdhi V Shetty 7th semester won 1st RunnerUp in beauty pageant: "VK NAVATARE 2020" organizer : Vijaya Karnataka (Times group) on 19.10.2020 in Bengaluru.

Club Activities/ Professional Society activity: 03

Department of
Master of Computer Applications

Vision:
To develop quality professionals in Computer Applications who can provide sustainable solutions to the societal and industrial needs

Mission:
Facilitate effective learning environment through quality education, state-of-the-art facilities, and orientation towards research and entrepreneurial skills

PEOs:

PEO-1: Develop innovative IT applications to meet industrial and societal needs.

PEO-2: Adapt themselves to the changing IT requirements through lifelong learning.

PEO-3: Exhibit leadership skills and advance in their chosen career.

From HoD's Desk

Dr. P. Ganesh
Associate Professor and Head,

The Department of MCA was established in the year 2003 with an approved intake of 60 students. The MCA programme is of 2-year duration w.e.f. the academic year 2020-21. The MCA programme is Accredited by National Board of Accreditation, New Delhi. The Department has 11 exclusive and qualified faculty members along with 2 technical staff. The enthusiastic staff members ensure that the students gain the right knowledge along with other life-skills, which help the students to face the world confidently and with high self-esteem. Disciplined environment, great Teaching-Learning ambience, meticulous academic monitoring, individual proctoring etc. are the student-centric initiatives at BMSIT&M that connect the students intrinsically. The best practices at the Department viz., Project Based Learning, Partial Delivery of Courses by industry practitioners, Value Added Courses, Alumni Mentoring, Industry orientation etc. augment a better Teaching-Learning environment and make the students industry-ready. The department is equipped with digital systems that enable us to provide uninterrupted learning experience for the students..

Dept. Name: MCA

Dept. Established Year: 2003

No. of Students: 163 (As per sanctioned intake 60)

No. of Doctoral Degree Holders: 04

Faculty Count: 11

No. of Research Scholars: 04

No. of FDP/Expert talk/STTP conducted: 04

No. of publications: 17

No. of OBE activities: 13

Club Activities / Professional Society Activity: 01

Faculty Achievement List
- Dr. P.Ganesh, Associate Professor, Department of MCA and Head-TPO, has been nominated as the member of the Sub-Committee that has been constituted to study and implement NEP-2020 at BMSET and BMSITM.
- Prof. M.Sridevi, Asst. Professor, Dept. of MCA offered 33 hours of corporate training for the employees of L&T, India on "Data Science".
- Prof. Drakshaveni G, Asst. Professor, Dept. of MCA has been appointed as the member of BoE-MCA, VTU, Belagavi for 2020-21.
- Dr. P Sudarsanam, Assistant Professor, Department of MCA was awarded the Ph.D. Degree in the 41st Anna University Convocation held on 22nd March, 2021 at Anna University, Chennai.

Student Achievements

Odd Semester – Toppers

I Semester

Chaithra S
1BY19MCA12
SGPA 9.14

III Semester

Sahdev Kumar Gupta
1BY18MCA24
SGPA 8.71

V Semester

K Mahesh
1BY17MCA10
SGPA 8.35

Even Semester – Toppers

II Semester

Arjun U K
1BY19MCA07
SGPA 9.74

IV Semester

Sahdev Kumar Gupta
1BY18MCA24
SGPA 9.65

VI Semester

Rohith B
1BY17MCA18
SGPA 10

VI Semester

Lavanya V
1BY17MCA11
SGPA 10

Department of Mathematics

VISION:
To empower students to excel in engineering and research by imparting equitable mathematics education of the highest quality

MISSION :
- To impart quality education in mathematics through innovative methods, thus laying a strong foundation for the study of engineering subjects.
- To enhance the students critical thinking, computational and problem solving skills.

From HoD's Desk

Dr. Chethan A. S.
Professor and Head

The Department conducts courses in Engineering Mathematics and Additional Mathematics for I and II year BE students, Applied Mathematics for M.Tech. (Machine Design) and Mathematical Foundation of Computer Science for M.Tech. (CSE) students. Students requiring extra help in Mathematics are identified and special classes are conducted for them to enable them to perform well. As a result of the sincere effort of the team the Department has been consistently obtaining excellent results in the VTU examinations. The Department is a recognized VTU research centre for pursuing Ph.D. in Mathematics with six scholars having registered for their Ph. D programme. The faculty members of the Department are actively involved in various research activities such as guiding research scholars, publishing research papers, executing funded projects, arranging and attending conferences, FDP and workshops.

Dept. Name: Mathematics

Dept. Established year: 2002

No. of Doctorates: 08

Faculty Count: 10

No. of Research Scholars: 06

No. of FDP/Workshop/Webinars / Expert talk / STTP/ conducted during 2020-21:
FDP: 01 / Seminar for Students: 04 / Expert talk by Faculty: 07

No. of publications: 12

No. of OBE activities: 14

Faculty Achievements:
- Dr. Karabi Sikdar selected as a Panel of External Members of the Doctoral Committee (for Ph.D) at Vellore Institute of Technology (VIT) since 22nd May, 2020.
- Dr. Kallur V Vijayakumar, Assistant Professor,

Department of Mathematics has been awarded best research paper for his presentation in the International Conference on Recent Challenges in Engineering Science and Technology (ICRCEST-2K21) Virtual Conference, organized by Department of Electronics & Communication Engineering, Ramachandra College of Engineering, Eluru, Andhra Pradesh held on 09.04.2021 & 10.04.2021.
- Dr. Shivaprasada Nayaka, Assistant Professor, Department of Mathematics has been appointed as Editor of Basic and Applied Science for Journal of Scholastic Engineering Science and Management (JSESM), 20.04.2021.
- Prof. Anitha Kiran, Assistant Professor, Department of Mathematics completed Ph.D Open seminar-I on 19.04.2021 through virtual mode.
- Prof. Sreelakshmi T K, Assistant Professor, Department of Mathematics completed Ph.D Open seminar - I on 20.11.2020 and open seminar-II on 22.12.2020 through virtual mode.

Department of
Mechanical Engineering

Vision:
To develop technically competent Mechanical Engineering professionals for the benefit of the society

Mission:
• Impart quality education in Mechanical Engineering and allied areas by state of the art infrastructure and dedicated faculty.
• Provide conducive environment for both students and faculty to pursue higher education & research and to work ethically for the benefit of society.

Program Educational Objectives: (PEOs)
PEO-1: Be successful professionals in the field of Mechanical Engineering and allied areas.

PEO-2: Exhibit skills to work effectively and ethically in multiple domains of engineering as part of a team.
PEO-3: Excel in higher studies, research and adapt in a world of constantly developing technology.

Program Specific Outcomes: (PSOs)
PSO-1: Analyze and design the mechanical components and systems.
PSO-2: Analyze the fluid and thermal aspects of different mechanical systems.
PSO-3: Develop materials and components through different manufacturing methods
PSO-4: Demonstrate managerial skills for effective execution of professional engagements

From HoD's Desk

Dr. K. M. Sathish Kumar,
Professor and Head

I am extremely happy to share with you the progress of Department of Mechanical Engineering during the year 2020. The programme is affiliated to VTU, Belagavi and approved by AICTE. The UG programme is accredited by the NBA, New Delhi. The Post-Graduation in Machine Design was started during the academic year 2014-15. The department has VTU recognized Research Centre and 21 scholars are enrolled for PhD. Department has 20 well qualified and dedicated faculty members with 11 faculty holding Doctoral Degree. Department is happy to inform that Mr. Arun D (1BY16ME010) has secured I Rank and 7 Gold medals. He was topper among 14803 mechanical engineering graduated students. Department has established a CoE with M/s. Toyota Kirloskar Motor Pvt. Ltd., Bengaluru.

Dept. Name: Mechanical Engineering

Dept. Established Year: 2002-03

No. of Students (UG+PG): 224

No. of Doctoral Degree Holders: 10

Faculty Count: 20

No. of Research Scholars: 21

No. of FDP / Workshop / Seminar / Expert Talk / STTP Conducted:
Number of FDPs: 2, STTPs: 1, Expert Talk: 7, International Webinar: 1

No. of publications: 20

No. of OBE activities: 17

Faculty Achievement List:
• Dr. Shripad Diwakar, has been conferred the prestigious "Adarsh Vidya Saraswati Rashtriya Puraskar".
• Dr. Keerthi Kumar N and Dr. G L Anantha Krishna, awarded Ph D. degree during 2020-21.
• Mr. T N Praveen Kumar guided a project which was funded by KSCST and also selected as one of best projects in the state level.
• Dr. Sangamesh. B was recognised for the valuable contribution towards promoting NEP 2020.

- Dr. Nandini R conducted executive development program for L & T Mumbai officials.
-

Student achievements:
- Mr. Arun D (1BY16ME010) has secured I Rank and 7 Gold medals.
- Kaushik Balasundar and Team Designed and developed a semi-autonomous food and medicine delivery robot.
- Kaushik Balasundar and Team designed a biomimetic fish for underwater pollutant inspection in the Ganges river.
- Students from IV, VI and VIII designed and fabricated an Electric Vehicle.

Club Activities/ Professional Society activity: 06

Rank holder

Arun D.
SGPA :- 9.5
1BY16ME010
VIII Semester

Department of Physics

Vision:
To impart sound fundamentals and concepts in Physics which helps students to nurture scientific temperament and creativity in the field of engineering.

Mission:
- To provide sound knowledge in applied Physics through innovative techniques and scientific methodology.
- To motivate students to pursue scientific analysis and develop problem solving ability in the field of engineering.

From HoD's Desk

Dr. Dhananjaya N.
Associate Professor and Head,

Department of Physics was established in the year 2002. The Department has well experienced and qualified teaching and technical staffs. Presently, the department consists of five doctorate holders, two faculty members are registered and perusing their Ph. D. under VTU. The department caters to the needs of all the branches as it is a basic science department. The Engineering Physics Lab is well furnished with latest equipments and all necessary amenities. Results of the department in VTU examinations has been consistently excellent.

Our faculty members have received research grants from various agencies like DST-SERB, VGST and successfully completed number of projects. The faculty members of the Department are actively involved in various research activities such as guiding research scholars, publishing research papers, executing funded projects, arranging, FDP, workshops, webinars and giving invited talks.

The Department has been recognized by VTU as a Research Centre since 2014-15 and six scholars are registered for their Ph.D. programme. The Centre for Advanced Materials Research (CAMR) lab for the purpose of research has been set up to enable faculty members to pursue experimental research in the field of nanotechnology. Research lab is equipped with instruments useful for Material/Nano material Characterization along with basic synthesis facilities. Facilities are open for characterization of samples for external institutions/Industry.

Dept. Name: Physics

Dept. Established Year: 2002

No. of Doctorates: 05

Faculty Count: 07 + 02 Technical staff

No. of Research Scholars: 06

No. of FDP / Workshop / Webinars / Expert Talk / STTP Conducted during 2020-21:
FDP: 01
Seminar for Students: 04
Expert talk by Faculty: 03

No. of publications: 19

No. of OBE activities: 02

Faculty Achievements:
- Dr. R. Lokesh, Associate Professor, presented a paper in international conference AIMS-2020 conducted by Chemistry Dept, BMSIT&M, Aug 2020.
- Dr. Daruka Prasad B, Assistant Professor, was a BOE member for JNTUA college of Engineering, Pulivendula attended online meeting on 19.12.2020.
- Dr. Daruka Prasad B, Assistant Professor has delivered invited talks at Reva University, Bengaluru and at Tumkur University.
- Dr. C. Kavitha presented a paper and co-chairing the session of AIMS-2020 international conference conducted by Chemistry Dept, BMSIT&M, Aug. 2020.

SECTIONS AND INSTITUTIONAL CLUBS / CELLS / UNITS PROFILE

Placement and Training Cell

Vision:
Foster Sustained Excellence in Training and Placement.

Mission:
Train the Students to make them Industry Ready and Enhance Employability of the Students to Serve Various Sectors of Engineering.

From Officer's desk

Dr. P. Ganesh
Placement Officer

Placement Cell at BMSIT&M was established in the year 2004, to initiate industry institute interaction activities with an initial aim to provide placement opportunities to the first batch of students. Though we had a humble beginning, with the support from BMS Educational Trust and strong alumni, we could achieve considerable breakthrough in providing ample opportunities to our students over the years. Today, our alumni are present in about 200+ organizations across the globe. We at placement cell are regularly discovering ways to make our students more and more employable by providing internships, inviting startups for recruitment, alumni interactions on industry standards/expectations etc.

The Placement and Training cell is ably supported by Prof. Ambika Subhash, Prof. Raghunandan GH and Ms. Ashwini S, in addition to the core team of staff and student placement coordinators.

Highlights of 2021 Batch
122 companies visited for recruitment as on date (2021 batch placements still in progress)
584 Pre-placement offers so far
Highest CTC offers by: Nutanix – 40.50 LPA, Cloudera – 26.50 LPA, ADOBE – 22.00 LPA, WALMART - 20.50 LPA, SAP LABS – 20.60 LPA, AMAZON - Rs.19.00 LPA, ENDURANCE INTL GROUP – 15.00 LPA, GAINSIGHT – 13.00 LPA, MONEYVIEW – 12.21 LPA, PHARMEASY – 11.00 LPA, ANZ – 11.00 LPA, KHOROS – 10.50 LPA etc.
Highest number of offers made by ANZ, COGNIZANT, PRICEWATERHOUSE COOPERS, WIPRO, CAPGEMINI, TCS etc.
Top recruiters like SAP LABS, INFORMATICA, AMAZON, ENDURANCE, SIEMENS, COGNIZANT, CAPGEMINI, ROBERT BOSCH, NOKIA, ATKINS regularly visit campus.
New recruiters like ONE ADVANCED, THE MATH COMPANY, EPSILON, KHOROS, LUMEN, etc. visited BMSIT&M for 2021 batch.

2017 Batch		2018 Batch		2019 Batch		2020 Batch		2021 Batch*	
No. of Offers	No. of Companies Visited	No. of Offers	No. of Companies Visited	No. of Offers	No. of Companies Visited	No. of Offers	No. of Companies Visited	No. of Offers	No. of Companies Visited
360	79	390	98	441	97	485	78	584	122
*Placements still in progress for 2021 Batch									

PLACEMENT & TRAINING ACTIVITIES

Students' Training:
Placement training on Aptitude and soft Skills imparted to all the pre-final year UG & PG students during the months of April, May & July 2021, to enhance their learning and prepare them better for their upcoming placement season from August 2021. Employability assessment tests were conducted for these students by First Naukri and Geek for Geeks to assess the readiness of the students and make them more industry ready.

Internships:
The B.E, M.Tech and MCA students of the 2021 batch, were offered Internships by top companies such as, Endurance, Amazon, Epicor, Cognizant, Wipro, Siemens, Informatica, etc. Around 754 students have pursued their internships from 345 distinct companies and 323 students are being given stipends ranging between Rs. 5,000 p.m. to Rs. 50,000 p.m.

INDUSTRY ENGAGEMENTS:

Cognizant Service Now MoU: BMSIT&M and Service Now, an American software company based in Santa Clara, California that develops a cloud computing platform to help companies manage digital workflows for enterprise operations, signed an MoU on 8th September 2020. Cognizant, a Day 1 recruiter has come forward to offer the Service Now training for the Cognizant selected students of the 2021 batch along with free certification. On successful completion of the Service Now certification exam the students will be offered a Gold pre-placement offer at Cognizant.

Capgemini Adapt (pre-joining Program): The leadership team of Capgemini conducted a pre-joining – ADAPT (Accelerated Digital Aid for Pre-onboarding Talent) program, a comprehensive suite of self-paced learning modules blended with adequate hands-on practice for the Capgemini placed students of the 2021 batch on 21st December 2020.

Epsilon Campus Enagement: Epsilon, a silver tier recruiter at BMSIT&M, held an interactive campus engagement session with the placement team on 11th Feb 2021. The aim of the session was to understand the best practices followed on campus to encourage students to participate in campus recruitments and also to see how best the company could engage with BMSIT&M campus beyond campus recruitment.

Interaction with BMSCE Placement Team: An interaction was held with the placement team, Dr. Pradeepa, TPO and Dr. Sharanabasava, Asst. TPO of BMSCE and Dr. P Ganesh, TPO and Ms. Ambika Subhash, Dy. TPO on 18th March'21 at BMSCE campus. The main aim of the interaction was to enhance the placement opportunities for BMSIT&M students through alumni engagement from both campus for grater industry connect and the best practices followed at the PT Cell, BMSCE to further improve placements.

BMSIT Connect: The BMSIT Connect project aimed at empowering the student community with the right knowledge and skillset to succeed in the ever-changing world of technology conducted a CV and Resume building session on 22nd April'21 for all the pre-final year students of the 2022 batch. The session was conducted by Alumni and Industry experts working at Tesla, HPE, Digital Norway etc., who informed the students about industry expectations when they appeared for their placement interviews during their final years. The present 2021 batch final year placed students also shared their inputs with their immediate juniors to help them face their upcoming placement season during August 2021.

Employers' Meet 2021: The 7th edition of the Employers' Meet with the theme 'Future of Work' was conducted for the IT and Circuit branch students on 19th June 2021 and about 500 students were part of the events. The IT event had panelists from companies such as Google, Netflix, Dun&Bradstreet, Epsilon, Accenture and Capgemini who interacted with students and helped them understand how they have to upskill themselves in the present industrial scenario, while the Circuit event had panelists from companies such as Cognizant, ARM, Amazon, Alteos and Infineon Tech who also gave the students various insights in the core circuit field of engineering. The panel was a combination of senior industry practitioners and HR managers.

The 7th edition of the Employers' Meet with the theme 'Future of Work' was conducted for the Civil and Mechanical Engineering students on 22nd May 2021. The Civil event had panelists from companies such as Embassy Group, L&T Construction, CMTI, JMC projects and Ajmal Estates who interacted with students and helped them understand how they have to upskill themselves in the present industrial scenario, while the Mechanical event had panelists from companies such as Timken India, Ringfeder Power, ZF Wind Power, Robert Bosch, CISCO and

TESLA who also gave the students various insights in the field of Mechanical Engineering.

Cognizant Softskills Session: A placement preparedness and softskills session was conducted by Ms. Mary, Associate Manager, Training, for all the pre-final year students on 3rd June'21. The session focused on informing students about the importance of softskills while facing interviews and how to avoid making mistakes with their mannerisms during their interview process. The session also covered the importance of building good resumes and self-grooming.

Cognizant Cyber Security Session: A session on Cyber Security, a niche skill in the industry these days was conducted for the IT students of the 6th semester by Mr. Prashant Dahalkar, Director, AI&Alanytics on 7th June'21. The session helped students understand the importance of Cyber Security and how best they could go about upskilling themselves on the said technology if they were interested to pursue a career in that field.

Cognizant Leader Connect Session: Mr. Gopalakrishna Bylahalli, VP Delivery, CDE

Digital Architecture held a connect session with the pre-final students on 9th June'21 to help them understand the field of Business Technology Services, which comprises of Cloud Computing, Intelligent Process Automation, IOT & Cognitive Computing. In addition, a leader connect session was held with Mr. Munish Gupta, Sr. Architect, on 29th June'21. The session covered topics involving multiple conventional databases with a strong focus around evolving data strategy around Bigdata and Cloud initiatives.

Employers' Meet 2021: The 7th edition of the Employers' Meet with the theme 'Future of Work' was conducted for the Civil and Mechanical Engineering students on 22nd May 2021. The Civil event had panelists from companies such as Embassy Group, L&T Construction, CMTI, JMC projects and Ajmal Estates who interacted with students and helped them understand how they have to upskill themselves in the present industrial scenario, while the Mechanical event had panelists from companies such as Timken India, Ringfeder Power, ZF Wind Power, Robert Bosch, CISCO and TESLA who also gave the students various insights in the field of Mechanical Engineering.

Library

Vision:
To emerge as one of the best state-of-the-art information centers, catering to the curricular and non-curricular informational needs of the stakeholders and to become one's lifelong learning center

Mission:
To build rich collection in the field of technical and allied subjects irrespective of its format, promoting its usage to the maximum extent possible and providing unparalleled library services to users.

Mr. Gopalakrishna
Librarian

Software Installation and Maintenance	
Koha Dspace	Librarian
Nodal Officer for	
Turnitin, IRINS, VTU e-consortium and NDL Club	Librarian

Staff Details	10 persons with Master's Degree and one peon
Software	Open Source Software KOHA 19.05 version.
OPAC Access	http://182.48.234.47/(internet) http:// 172.16.0.40 (within the campus)
Digital Library Access	http://dspace.bmsit.ac.in/xmlui (internet)

Collections	
Books	56060
E-books	14500
Print Journals	97
e-Journals	3644

Subscribed Online Resources Details	
e-Journals packages	**Nos.**
IEEE-ASPP & POP	1983
Taylor & Francis	555
Springer	690
Elsevier	296
Emerald	120
K-Nimbus (Remote Access Service)	5700

e-books packages	Nos.
Cambridge University Press (Perpetual access)	94
Pearson Engg.	74
McGraw-Hill	505
New Age Intl.	220
Taylor & Francis	4950
Packt	5002
Elsevier	436
K-Nimbus (Remote Access Service)	10000
Other (Calibre)	3219

The library has institutional membership of:

• National Digital Library (NDL); NDLI Club
• British Council Library, Bangalore.
• DELNET (Inter Library Loan service)

Events Organized:

1. One Day online National Conference on "**Transforming Libraries: smart users, smart staff and smart services"** was organized on 10th Oct. 2020, 30 papers were selected and published.

2. IEEE Xplore Digital Library session online webinar by **Dr. Dhanukumar Pattana shetti,** Ph.D. Senior IEEE Client Services/ University Partnership Program Manager at IEEE was conducted on 5th Feb 2021, nearly 30 members had attended, of them Two Students and One Staff got Prize.

Stack Area
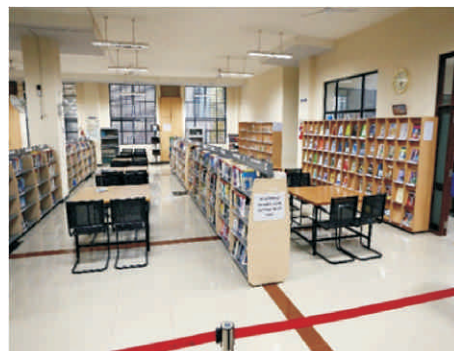
Reference Section

IEEE Xplore digital library session prize winners

Department of
Physical Education and Sports

Vision

"To develop highly talented sports performers along with 'Professional Education' aiming at great innovations in the field of Physical Education & Sports"

Mission

"To create awareness of fitness through 'Physical Education & Sports Activities' with the spirit of healthy competition to stimulate a long-lasting attitude towards discipline, sportsmanship, hard work, integrity, creativity, leadership and social responsibility within the safe & positive environment."

From HoD's Desk

Mallikarjun B Patil
Director of Sports

Physical Education is a universal subject where everyone needs the knowledge of physical exercise for fitness. Fitness is a basic requirement without any age factor, for which we need to encourage everyone to involve in physical/sports activities. It is easy to say, "Sound body had sound mind", Health is wealth" but it is equally important to motivate everyone to involve in physical activities for a healthy society. A person having overall development of personality means one must be sound by physically, mentally and socially. The Sports field gives fitness with pleasure, creates awareness of health and increases immunity power. It teaches us skills, discipline, dedication, team spirit, aggressiveness, control on temperament, leadership quality etc. Hence the students & staff are encouraged to take part in sports activities like VTU inter collegiate tournaments and tournaments organized by reputed colleges and organizations to promote the sports persons of our college. The sports department is well equipped with state of art Gym and excellent facilities for sports and games in the college premises.

SPORTS FACILITIES

Outdoor Facilities:
Basketball, Cricket Nets, Tennis, Volleyball, Throw ball, Ball badminton, Kho-Kho, Kabaddi, Hand ball, Hockey, Football, Softball & Athletics. Etc.

Cricket Nets

Multipurpose Football Field

Multipurpose courts

Indoor Facilities:
Carom, Chess, Table Tennis, Shuttle badminton, Boxing, Yoga & Weightlifting Etc.

Students performing work out in the college Gym and also utilizing at Indoor & Outdoor facilities.

Gym at Hostel premises:

GYM at College Premises

Gym facility in Hostel premises and Students performing work out in the Hostel Gym

SPORTS ACHIEVEMENTS FOR THE YEAR 2020-21

Team Achievements:

Staff Volleyball (M) Team Securedc First Place in the BMSCE Tournament in Feb 2021

Conducted fitness tests during college team selection trials from 1ˢᵗ March 2021:

Flexibility

Vertical Jump

Egility teast (10 mts x 6 Shuttle Run)

Push ups

Crunches/abs

Endurance (6 min run)

Our college Basketball (M) team had Practice match with Reva University team twice

Inauguration of indoor badminton court on 31st March 2021

We have an International Standard Maple Wooden Flooring Badminton Court in our college. It's a professional sports facility where wearing of non-marking shoes is compulsory to enter in to the arena.

Facilities available are – Roof lighting, Dressing room, Swedish ladder on the wall, Jumping board, Battle rope, TRX belt etc… for conditioning of players. Provision of non-marking shoes on demand for pay and use bases.

Innovation Centre

Vision:
"To inspire and motivate faculty and students of all disciplines within the organization to nurture, educate and inculcate innovative thinking through systematic approach for a better living"

Mission:
"To Influence the rate and direction of ideas without compromising the quality of the outcome to benefit the organization, community, society by fulfilling the societal needs"

About Innovation Centre
The Innovation Centre at BMSIT&M was formed in December 2015. It promotes innovation by encouraging students to take up innovative, interdisciplinary technical projects. It provides technical support during the phase of ideation and prototyping. It also provides funding for meritorious prototypes.

Institution's Innovation Council (IIC)
Since November 2018, Institution's Innovation Council (IIC) has been constituted in our College under the Ministry of Education's Innovation Cell and Innovation Centre takes complete responsibility in conducting all the activities as per the calendar of events by MoE's Innovation Cell. A quarterly meeting is held to evaluate the activities carried out under the IIC. All the internal and external experts of the committee will be part of the meeting to discuss on how to execute the activities every quarter to improve the innovative quotient among the students at BMSIT&M.

We are proud to announce that BMSIT's Institution's Innovation Council has secured 4.5 stars out of 5 stars based on the innovative activities organized and benefitted by the students and faculties. Out of 222 Colleges in South Western Region, 15 colleges have secured 5 Star Rating and10 Colleges have secured 4.5 Star Rating. IIC 3.0 Thrust area is Validation and Concept development, Prototype design, Development of business models Awareness on startup and related ecosystem.

SUMMARY OF ACTIVITIES

Interactive session with "Successful Start-up founders" (Entrepreneurs in Campus):
This session was on 30th April 2021 from 2PM-3PM by Mir Mohammad Abbas, Co-founder, Helping Panda and Shantanu Jain, CEO, Co-founder, Sterling Media Labs. About 40 students were part of this interactive session.

Orientation Program:
As part of the induction program, Innovation Centre conducted orientation programs for the first year students during January 2021. Students were informed about the support and services like funding innovative projects and mentoring students at their projects etc., by Innovation Centre.

Atal Ranking of Institutions on Innovation Achievements (ARIIA):
Innovation Centre successfully finished the pre-qualifier process of providing documentation of the departments, labs, research centres, Industry collaboration with the college. Qualified at the pre-qualifier and the next level.

Workshop on Design Thinking, Critical thinking and Innovation Design:
An interactive session on Design Thinking was held on 18th December 2020 which is an iterative process in which we seek to understand the user, challenge assumptions, and redefine problems.

Panel discussion on "Atmanirbhar Bharat - Vocal for Local, Make in India":

Innovation Centre organized a panel discussion on one such topic on 19th December, 2020. A distinguished panel of this event consisted Mr. Kishore Jagirdhar, CMS, Infopace Management Pvt. Ltd., Mr. Arjun N, Founder & CEO, SolutionBuggy, MR. Sanjay Belawal, MD & CEO, Bell Consultancy Pvt. Ltd., Mr. Jayachandra Aradhya, MD & CEO, Silicon Micro Systems along with the principal Dr. Mohan Babu G N, Moderator of the panel discussion. About 60 faculty members were physically present at this panel discussion and about 192 students and faculties joined online for the event.

Webinar on "National Innovation and Start-up Policy":

The **National Innovation and Startup Policy** for students and faculty of Higher Education Institutions (HEIs) is a guiding framework to enable the institutes to actively engage students, faculties and staff in **innovation** and entrepreneurship related activities. One such attempt to make the student and faculty community understand the benefits of NISP was made by conducting a Webinar on 22nd December, 2020. Dr. Sangmesh, Assistant Professor, Mechanical Dept. & Incubation Manager, BMSIT & M was the resource person. About 35 students and faculty members were part of this session online.

Webinar on "Motivational session by successful entrepreneur":

An activity to promote and inspire budding entrepreneurs was held by Innovation Centre on 30th December, 2020. Distinguished and popular entrepreneur of Bangalore Mr. Manjunath T N, Co- Founder & CEO at Royal Brothers, Founder-Humus AgriTech Pvt. Ltd. was the resource person. Mr. Manjunath explained about feasibility study, market research, domain knowledge and his personal experience in his journey to be a successful entrepreneur. About 30 student and entrepreneur communities were part of this webinar session.

Chabot competition:

BMSIT&M's college website needed an addition of feature to answer viewers queries and hence a competition was organized for the students by Innovation center to develop the chatbot on 11th August 2020. 28 students participated in this competition and 2 teams of students were selected to develop the chatbot for BMSIT&M college website.

Hacking the BMSIT&M Covid-19 challenge:

The Hackathon was conducted by the innovation centre during July and august of 2020. This competition had multiple stages like Idea/POC submission, project presentation and final implementation of the concept. 12 teams of students participated and the winners were Karan and team, Gocoronaboys from ISE Dept.

National Innovation Contest by MoE's Innovation Cell:

78 Ideas, 7 POC's, 5 prototypes were submitted to the National Innovation Contest during the month of July 2020. 4 teams were nominated for regional level mentoring under IIC national innovation contest 2020. A prototype by Team "Evanesco- an ultrasonic repeller using UAV" was qualified for the stage-1 evaluation among 34 projects from Karnataka.

3-day webinar series on "Role of Startups and Innovators in Atma Nirbhar":

BMSIT & M along with AIC NITTE organized a 3-day webinar series online. About 500 faculties across the country benefited out of this webinar series. About 500 participants took part in this 3-day webinar session.

National Service Scheme (NSS) Unit

Preamble:
The National Service Scheme (NSS) is an Indian government-sponsored public service program conducted by the Department of Youth Affairs and Sports of the Government of India. Popularly known as NSS, the scheme was launched in Gandhiji's Centenary year, 1969. Aimed at developing student's personality through community service, NSS is a voluntary association of young people in Colleges, Universities and at +2 level working for a campus-community linkage. Today, NSS has more than 3.2 million student volunteers on its roll spread over 298 Universities and 42 (+2) Senior Secondary Councils and Directorate of Vocational Education all over the country.

In BMSITM, the National Service Scheme (NSS) Unit was established in **1st September 2004**. Since its inception various social activities are successfully carried out under its banner. In the current academic year, 100 students registered which included 40 girls from all branches of our Institute.

Objectives: The programme aims to inculcate social welfare in students, and to provide service to society without bias. NSS volunteers work to ensure that everyone who is needy gets help to enhance their standard of living and lead a life of dignity. In doing so, volunteers learn from people in villages how to lead a good life despite a scarcity of resources. it also provides help in natural and man-made disasters by providing food, clothing and first aid to the disaster victims.

Organization:
Programme Officer -> Faculty Coordinator/s -> Student Coordinator/s -> Student Co-Coordinator/s -> Volunteers (Boy's and Girl's).

Mr. Shivakumara T, NSS Programme Officer receiving honor from Sri. Suresh Kumar K, Honorable Primary & Secondary School Education Minister, GoK in association with Lion Blood Bank, Vijayanagar for the recognition of organizing blood donation Camp, NSS Unit, BMSITM

NSS Annual Report

Sl. No.	Programme Organized/ Attended	Place	Date	Vol. No.	Details of work done	Beneficiaries
			Programme Organized			
1.	Yoga for 21 days	Within Campus	1st June to 6th June 2020	30	Yoga Teaching and practice by yoga expert and participants	35
2.	International Yoga Day Celebration	Within Campus	30th June 2020	5	Yoga Presentation by participants	10

Sl. No.	Programme Organized/ Attended	Place	Date	Vol. No.	Details of work done	Beneficiaries
Programme Organized						
3.	Covid-19 Awareness Campaign	Singanayakanahalli, Madappanahalli, Mylappanahalli, Avalahalli.	29-06-2020	05	Awareness of Sanitization, Maintain social distancing and staying at home to villagers. This event conducted in association with Unnat Bharath Abhiyan. Donated Sanitizer dispenser developed by Mech-Department, BMSITM	05 Villages public
4.	Visit: Orphanage & Old age Home	Mussange Mane, Kolar	26-03-2021	05	Student Volunteers donated stationery, clothes and essentials to Orphange and old age home and spend a valuable time along with the kids and elderly on 26th march, 2021	Orphans and old age peoples benefitted

Sl. No.	Programme Participated by NSS Volunteer / Programme Officer	Place	Date	Topic of Discussion
Programme attended				
1.	National Webinar Attended by NSS Program Officer	Online Mode Sri Siddartha First Grade College, NSS Unit, Tumkur	13-08-2020	History and signification of National Flag - Participated
2.	International webinar attended by NSS Program Officer	Online Mode Dr. A V Baliga College of Arts & Science, NSS and NCC, Kumta, Dharwad	16-08-2020	Life Skill Enhancement through NSS and NCC
3.	Webinar attended by NSS Program Officer	Online Mode Campus 2 Community and NSS, KCESS	18-09-2020	NEP:2020: Transformation School Education
4.	Webinar attended by NSS Student Volunteer, CSE dept.	Online Mode Do It Yourself, State NSS & Dept. of Youth Empowerment and sports Cell, GoK	07-11-2020	Do It Yourself – Animal Husbandry and Dairying

Sample Event Photos

Sanitizer Dispenser handed over to Singanayakana halli Gram Panchayat, developed by Mech-Department, through NSS and UBA Clubs, BMSIT

Creating Awareness of Covid-19, Sanitization, Maintain social distancing and staying at home to villagers by announcement mode by Prof. Ravindra Asundi, UBA Coordinator in association with NSS, BMSITM

NSS, BMSITM Student Volunteers donated stationery, clothes and essentials to Orphange and old age home and spend a valuable time along with the kids and elderly on 26th march, 2021

The National Cadet Corps

The National Cadet Corps is a **Tri-Service Voluntary Organization**, engaged in grooming the Youth of the Country into Disciplined & Patriotic citizens. It is directly Administered through Ministry of Defence, Government of India. The Defence Secretary is overall in-charge for efficient functioning of NCC.

Currently, the **World's Largest Uniformed Youth Organization**, with more than 14 Lakh Cadets on roll. The NCC aims at developing character, comradeship, discipline, a secular outlook, the spirit of adventure and ideals of selfless service amongst young citizens. Further, it aims at creating a pool of organized, trained and motivated youth with leadership qualities in all walks of life, who will serve the nation regardless of which career they choose.

The 39/17 NCC Company in our college is attached to **39 Karnataka Bn NCC** of Bangalore- 'B' Grp HQ, Karnataka & Goa Dte. Since inception NCC BMSIT is engaged in grooming the young engineers into disciplined & patriotic citizens of the nation and motivating them to take up career in the Indian Armed Forces. Headed by Associate NCC Officer & Company Commander **Lt. Rani MS**, Dept. of Sports, BMSIT&M.

Lt. Rani M S
Associate NCC Officer

ACTIVITIES FOR THE YEAR 2020-2021

Independence Day Celebration - 2020
During the pandemic in 2020 when the colleges were closed, Independence Day celebration was allowed by the government.

The NCC company participated in the flag hoisting ceremony and gave the guard of honour.

International Yoga Day - 2020
International Yoga Day was celebrated by the NCC company during the lockdown where Cadets displayed various Yogasanas & Pranayama from their homes.

Fit India Campaign - 2020
Ours cadets campaigned online to promote the Fit India Movement.

To stay fit and healthy by displaying various stages of exercise and workouts.

To encourage people to remain healthy and fit by including physical activities and sports in their daily lives.

SWACHH BHARAT ABHIYAN - 2021

Swachh Bharat Swasth Bharat Plogging by cadets.

Annual Training Camp - 2021

Second year NCC cadets of our college successfully completed the Combined Annual Training Camp held at St. Vincent Pallotti Degree College from 18th Jan to 20th Jan 2021. The camp curriculum included foot drill, rifle drill, map reading, weapon training and basics of field & battle crafts.

Third year NCC cadets completed the Combined Annual Training Camp held at Shri Rama Public School from 18th Jan to 22nd Jan 2021.

Republic Day Celebration - 2021

The NCC Unit celebrated the 72nd Republic Day on 26th January 2021 in full swing with magnificent display of infantry section formations & drone show raising the tricolour, apart from the marching parade and guard of honour.

Republic Day Camp / Rajpath Parade - 2021

Senior Under Officer. Deeksha Sethi of 5th Sem ECE dept. proudly marched the National Republic Day Parade at Rajpath, Delhi on 26th Jan 2021 in NCC Girls Marching Contingent. She has also represented Karnataka & Goa NCC Directorate in the All-India Best Cadet Competition at HQ DG NCC and being the runner

up by securing Silver Medal in Senior Wing (Army) category.

"Jai Hind. I'm Senior Under Officer Deeksha Sethi. As an aspiring Indian Navy Pilot, my experience at the Republic Day Camp was wonderful. I seem to fall short on words to express the emotions that went into the march at Rajpath on 26th January. I am blessed with a very supportive management from BMSIT that enabled me to smoothly attend this camp and achieve to the best of my potential. Thank you so much to the Chairman and Principal of BMSIT for supporting my endeavours throughout. I'm very grateful and thankful for my Associate NCC Officer, Lt. Rani Mysore ma'am for everything. It really would not have been possible without her efforts and hard work on the backend. Thank you to the faculty and staff of BMSIT for encouraging to take up every challenge courageously. A big shoutout and thank you to my NCC contingent in BMSIT for believing in me and motivating me at every step. Lastly, thank you to my family for being my backbone through my journey. I am glad to have brought back a silver medal in the All-India Best Cadet Competition - Army Wing, Senior Wing."

- SUO. Deeksha Sethi

Rank Piping Ceremony - 2021
Third year cadets were awarded with ranks.

B & C Certificate Examination - 2021
The B-Certificate Exam was attended by 22 Second year cadets while the C-Certificate Exam was attended by 17 Third year cadets.

Ncc For Statues - 2021
Statue Cleaning & Maintenance Activity at Swami Vivekananda Statue, Yelahanka Old Town, Bangalore.

Civil Defence Unit

Civil Defence measures are designed to deal with immediate emergency conditions, protect the public and restore vital services and facilities that have been destroyed or damaged by disaster. Historically, The Civil Defence Policy of the Government of India, till the declaration of Emergency in 1962, was confined to making the States and Union Territories conscious of the need of civil protection measures and to ask them to keep ready civil protection paper plans for major cities and towns under the then **Emergency Relief Organization (ERO) Scheme.**

Civil defence is volunteer organization of people who fight to mitigate the effects of a Disaster like an Air raid, Earthquake, Floods or Civil Disturbance, on civilian life & to maintain the morale of the people in the time of crisis.

The **BMSIT&M CIVIL DEFENCE INSTITUTIONAL DIVISION** is headed by civil defence divisional warden **Lt. RANI M.S ,** Dept of sports , BMSIT&M.

ACTIVITIES FOR THE YEAR 2020-2021

New Year Eve Bando Bust Duty-2020
Bangalore City Police Commissoner has sought deployment of 1100 Civil Defence personnel in 8 Police Divisions for 31st New year eve bandobust duty.

Civil defence warden of BMSIT&M doing the New Year eve Bando bust duty.

Pulse Polio Immunization Drive - 2020

Civil defence warden of BMSIT&M volunteering at Primary Health Center for Pulse Polio immunization Camp at Yelahanka zone.

Rtpcr Test For Covid -19
The Civil Defence Warden Of Bmsit&M working as Covid Warrior and have organized free RTPCR test at college campus by BBMP.

Intellectual Property (IP) Cell

PATENT APPLICATION FILED   DETAILS 2020-21

Total No. Patent Application filed: 18
No. of Patent Granted: 01
Total No. Design Application filed: 01

PATENT FILED DETAILS

1) Tittle of the Invention: **A System for an Improved Hearing Aid**
   Patent Application Number: 202041044874
   Date of filing: 15-10-2020
   Faculty Inventors: Prof. SARITHA I. G, Assistant Professor, Dept. of ETE
   Student Inventor: Shashank Srinivas Kathavate (1BY16TE045), Aditya V Kulkarni (1BY16TE004), Prajwal P. S. (1BY16TE033), Sudhanva Rao P. N. (1BY16TE049)

2) Tittle of the Invention: **Mobile Railway Track Fault Detection System with Internet of Thing and Machine Learning**
   Patent Application Number: 202141000383
   Filing date: 05-01- 2021
   Faculty Inventors: Vinutha K, Assistant Professor, Department of ISE
   Student Inventor: Jayanth G,   Nikhil S, Pathan Aseef Khan, Students of Dept. of ISE

3) Title of the invention: **Novel approach for class recording & blackboard cleaning system and methods thereof**
   Faculty Inventors/Applicant: Prof. Vinod B R & Prof. Shobha R, Assistant Professor, Dept. of CV and Team
   Application number: 202041041304
   Filing date: 23-09-2020
   Publication date: 09-10-2020

4) Title of the invention: **Covid-19 THERMAL SCREENING USING SMART HELMET**
   Application number: 202041036651
   Filing date: 25-08-2020
   Date of Publication: 11-09-2020
   Faculty Inventors:
   Prof. Dwarakanath G V, Assistant Professor, Dept. of MCA,
   Prof. Banuprakash R, Assistant Professor, Dept. of ETE,
   Prof. Siddiq Iqbal, Assistant Professor, Dept. of ETE,
   Prof. Vishakha Yadav, Assistant Professor, Dept. of CSE,
   Dr. Ganesh P, Associate Professor, Dept. MCA,
   Prof. Saneesh Cleatus T, Associate Professor, Dept. of ECE

5) Title of the invention: **IOT Enabled Smart Health Care Automation System**
   Applicant/Inventor: Dr. Dankan Gowda V, Assistant Professor, Dept. of ECE and Team
   Application Number: 202041040896
   Complete Specification Filing Date: 21-09-2020
   Date of Publication: 02-10-2020

6) Tittle of the Invention: **Far Field and Near Field Radiation Pattern of Gold Nano Particle in Mie Scattering Phenomenon Modelling using DGTD Method**
   Patent Application Number: 202041041906
   Filing date: 27-09-2020
   Publication date: 09-10-2020
   Faculty Inventors/Applicant: Dr. Bharathi M A, Professor & HoD, Dept. of AI&ML   and Team
   Student Inventor/ Applicant: Divya (1BY18SCS03) Students of Dept. of CSE

7) Title of the Invention: **An Apparatus for Interactive Information Exchange Through Machine Learning**
   Patent Application Number: 202041051008
   Date of Filing: 24-11-2020
   Inventors: Dr. Satish Kumar T, Assistant Professor, Dept. of CSE and Team

8) Title of the Invention: **Effective Feedback System of Managements of Educational Institutions Using Artificial Intelligence and Methods Thereof**
   Patent Application Number: 202041047650
   Date of Filing: 01-11-2020
   Date of Publication: 06-11-2020
   Inventors/Applicant: Dr. Satish Kumar T, Assistant Professor, Dept. of CSE& Team.

9) Tittle of the Invention: **Catastrophe Detection and Smart Rescue System Utilizing Android Smartphone with Real-Time Location Tracking**
   Application No.: 202041049454A
   Date of filing : 12/11/2020
   Publication Date: 20/11/2020
   Applicant/Inventor: Prof.   Siddiq Iqbal, Assistant Professor, Dept. of ETE,
   Prof. P. Ganesh, Associate Professor, Dept. of MCA,
   Prof. Saneesh Cleatus. T, Associate Professor, Dept. of ECE,
   Prof. Vishakha Yadav, Assistant Professor, Dept. of CSE,

Prof. Banuprakash. R, Assistant Professor, Dept. of ETE ,
Dwarakanath. G.V, Assistant Professor, Dept. of MCA

10) Tittle of the Invention: **A Novel Compact Printed Antenna Loaded with Hexagonal Complementary Split Ring Resonators (HCSRR) For Penta Band Wireless Applications**
Application No.: 202041047659 A
Date of filing: 01/11/2020
Date of Publication: 06/11/2020
Applicant/Faculty Inventors: Prof. Banuprakash. R, Assistant Professor, Dept. of ETE and Team

11) Title of the Invention: **Shabdkosh Device for Women Safety in Public**
Application Number: 202041044161
Filing Date: 09/10/2020
Published Date: 16/10/2020
Faculty Inventors: Dr.Usha B A, Associate Professor, Dept. of CSE and Team

12) Title of the Invention**: Students Posture & Gesture Detection system using Artificial Intelligence and Methods thereof**
Application Number: 202011046511
Filing Date: 09/10/2020
Published Date: 06/11/2020
Faculty Inventor: Dr. Usha B A, Associate Professor, Dept of CSE
Dr. Anupama H S, Associate Professor, Dept of AI&ML
Dr. Sathish Kumar T, Assistant Professor, Dept of CSE

13) Title of the Invention: **A compact IOT based Air monitoring system**
Applicant: Prof. Sreelaksmi T K, Assistant Professor, Dept. of Maths and Team
Application Number: 202141023368
Date of Filing: 25/05/2021
Publication Date: 11-06-2021

14) Title of the Invention: **Smart Ticketing System for Smart Cities**
Applicant: Dr. Hema Malini B H, Associate Professor, Dept. of CS&E and Team
Application Number: 202141026348
Date of Filing: 14-06-2021
Publication Date: 25-06-2021

15) Title of the Invention: **Interpersonal Skill Score Card for Students Using Artificial Intelligence and Method Thereof**
Applicant: Dr Usha BA, Associate Professor, Dept. of CSE
Application Number:202041045225
Date of Filing:16-10-2020
Publication Date: 13/11/2020

16) Title of the invention: **Security Technique in Energy Harvesting IOT Devices Using Slotted Aloha with NOMA**
Applicant: Dr. Veena N, Prof. S. Mahalakshmi, Assistant Professor, Dept. of ISE
Application Number: 2021100913
Date of Filing: 18-02-2021
Date of Publication: 14-04-2021

17) Title of the invention: **Prevent the Sensitive Data Leakage in Rest.**
Applicant: Prof. Shivakumara T., Assistant Professor, Dept. of MCA
Application Number: 202021038154
Date of Filing: 04/09/2020
Date of Publication: 18/09/2020
Publication Number:38/2020

18) Title of the invention: **Cold Formed Steel hybrid double T Box Girder**
Inventor: Prof. MS Deepak, Assistant Professor, Dept. of CV and Team
Application Number: 202141013917
Date of Filing: 29-03-2021
Date of Publication: 19-04-2021

DESIGN REGISTRATION DETAILS (2020-21):
Cost effective Ventilator using Co2 Laser Cutting Machine for COVID-19
Applicant Name: Dr Keerthi Kumar N, Assistant Professor, Dept. of ME ,
Prof. Prathiba N., Assistant Professor, Dept. of ETE,
Prof. Raghunandan G H, Assistant Professor, Dept. of ETE
Application Number:342442-001
Cbr Number: 202675
Cbr Date: 15-04-2021
Application Status: Published
Journal No.: 25/2021
Journal Date:18-06-2021

IEEE Student Branch

IEEE SB BMSIT&M was started in the year 2016 and revived in the year 2018. Since then we have conducted more than 150 events which include both technical and non-technical domains. A few major ones being,

1. Online Technical Quiz - 3: The Online Technical Quiz was conducted on 09/07/2020 to help participants enhance their knowledge about Computer Society and emerging technologies in the computer domain. IEEE CS Chapter BMSIT the quiz on IEEE BMSIT Instagram Page moderated by Roobini G, Vice Chair, IEEE CS Chapter, BMSIT&M.

2. Why IEEE?: A talk "Why IEEE," by Dr. Abhishek Appaji, was held on August 11th, 2020. The main goal of the webinar was to educate the students of BMSIT, the benefits of IEEE, and thus to promote students to make use of the membership drive to become a part of the IEEE family.

3. What do Leading Tech Companies want?: Ms. Harpreet Kaur, Sr Tech Program Manager, Microsoft delivered a terrific session on What Leading Tech Companies Want? She guided students regarding the Interview Etiquette and important steps to be taken before attending an Interview.

4. Game Development Workshop: The workshop was conducted by Mr. Ishan V, Microsoft Student Partner, Game development mentor at the International Organisation of Software Developers. He handled the session very well. It was a 2-day workshop with 2 hours each day.

5. IEEE DAY 2020: It was a two-day event organized by the members of the student branch. It included many fun and technical activities. The events included Kahoot Quiz which had several interesting questions based on IEEE facts, then Scribbi was another fun event which was like an online Pictionary, Blind survival, Guess the personality, KBC to name a few.

6. IEEE Membership Drive: The IEEE Membership Drive 2020 October cycle was conducted as a part of the IEEE Day 2020 celebrations. The membership drive was delivered by Likitha Madhav M.R, Secretary, IEEE SB, BMSIT&M, K. Narmadha, Treasurer, IEEE SB BMSIT&M, Roobini G, Vice Chair, IEEE CS, BMSIT&M, and Shiladitya Banerjee, Vice Chair, IEEE PES, BMSIT&M.

7. Scholarships by IEEE Computer Society: The session was addressed by Ms. Liitha Madhav, Chair, IEEE Student Branch BMSIT&M. Likitha is one of the ambassadors of the IEEE Student Young Professionals Scholarship Outreach Initiative.

8. Roadmap To NASA: The speaker for the Q&A session was Dr. Goutam Chattopadhyay, a Senior Scientist at NASA-JPL. The webinar started with the speaker giving an overview of how NASA functions, and what are the innovations and current research trends in the field of Space. Following this, we had the Q&A session where the participants got their queries clarified.

9. How to master AI-ML with AWS: The event started with an amazing introduction of the speaker Mike Chambers, AWS HERO, AWS ML Training. As a great head start the speaker gave a brief introduction about AI-ML and a walk-through about the services provided by AWS. As a key takeaway for the attendees, the speaker described the various services offered by AWS ML services and infrastructures available.

10. IEEE BMSIT&M Signal Processing Society Inaugration: IEEE Signal Processing Society Student Chapter was inaugurated virtual on 15th May 2021 at 10:30 am. The event was graced by Dr. Mohan Babu G.N, Principal BMSIT & M, Dr. C.S Mala, Dean (Student Welfare), Dr. Anjan Krishnamurthy, Branch Counselor IEEE Student Branch, Mr. Saneesh Sir, Branch Advisor IEEE SPS BMSIT&M, hods of all department and Professors of Dept of ECE, EEE, and ETE.
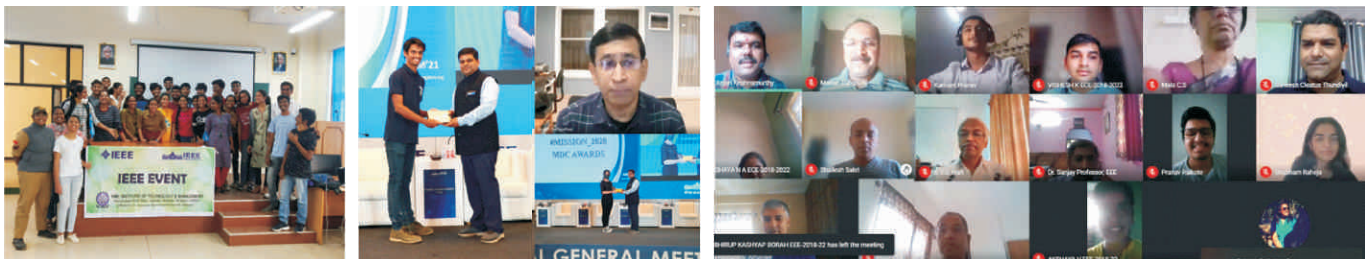
Public Relations and Media Cell
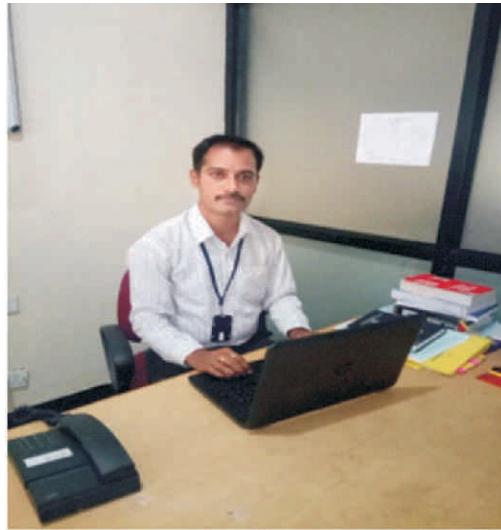
Prof. Venkatesh A.
Public Relations Officer

Cell Members:
1) **Prof. Venkatesh A.**, Public Relations Officer
2) **Prof. Reshma C.R.**, Faculty Member
3) **Mr. Arjun U.K.,** Student Member, MCA Dept.
4) **Mr. Benakaraj,** Student Member, MCA Dept.
5) **Ms. Chandana,** Student Member, Civil Dept.

About the Cell:
Public Relations & Media Cell was established in 2019 February, with an intent to serve BMS Institute of Technology & Management by communicating & collaborating with our stakeholders and the outside world. The cell has maintained a good rapport with the media and other stakeholders and continuously striving towards the betterment of our Institution.

Our cell works towards giving wide publicity to the events and achievements of BMS Institute of Technology & Management. Public Relations & Media Cell represents the Institution in various Digital/Social media platforms such as: Facebook, LinkedIn, Instagram, Youtube etc.

Vision:
To help BMSITM to reach greater heights by effectively communicating and sharing our success stories with all the stakeholders and the outside world.

Mission:
To publish BMSITM articles in good, reputed Media channels, attract talented students and, teachers to guide students to solve the problems of Industry and society at large.

Responsibilities:
• To give wide publicity to the events of our Institute in both Social and Print media.
• To publish Student and Faculty articles in media.
• To make all media related arrangements that are conducted by BMSIT&M.
• To encourage young Students to take tasks like: article writing & publishing, digital marketing etc..
• To promote all the courses of our Institution.

Gender Champion Cell

Under the Gender Champion Cell of BMSIT&M the following activities are conducted

1. **Group discussion and Digital poster making**

   Group discussion & Digital poster making on "Beti Bachao Beti Padhao: Will It Abolish the Orthodox Mindset?" was conducted for first year ETE students on 15th May, 2021 form 9:00am - 10:30am. This event was organized by Prof. Thejaswini Assistant Professor. Around 28 students participated and expressed their views. The Moderators for the event were Aditi S and Ananthapadmanabha of 6th Semester, Department of ETE. The events were Judged by Prof. Saritha I G, Assistant Professor, Department of ETE.

2. **Online Webinar on "First Right Step Towards Women Entrepreneurship"**

   An online webinar on **"First Right Step Towards Women Entrepreneurship" has** been conducted on 27th November 2020, from 3.00 PM to 4.00 PM. The speaker was Ms. Khushi Sharan Founder and Director of Peace Quest Education. The event, was organized in order to create awareness among students, in view of women entrepreneurship. The speaker spoke about the various ways of entrepreneurship and its scope. The Speaker told about the challenges to be faced in the society when women are working with men in different sectors of ventures. Around 45 students participated.
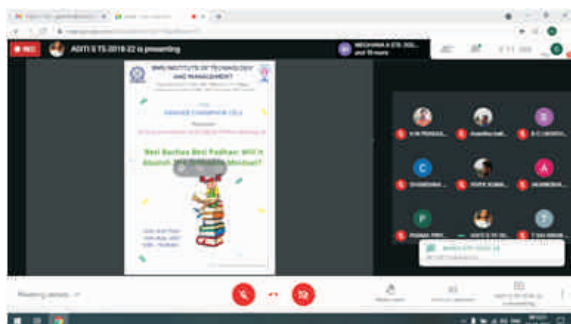
3. **Group Discussion Activity:**

   A Group discussion on **"He For She-Gender equality is not just a women's issue, it is a human rights issue that benefits everyone"** On 20th November 20th, 2:00 - 3:00 pm. It was an online event and was carried out on Google meet. The purpose of the group discussion was to highlight the importance of Gender Equality and how it is a human rights issue. The event was a success with 21 registrations and the final event turnout was 10 Participants that indulged in a healthy public debate highlighting various issues and problems faced by all three genders Male, Female and Transgender.

   The Moderators for the event were, Ananthapadmanabha and Aditi S of 5th Semester, Department of ETE. The events were Judged by Prof. Thejaswini S, Assistant Professor, Department of ETE, Prof. Nirupama K, Assistant Professor, Department of MCA and Prof. Chandra Prabha R, Assistant professor Department of ECE. The winners of the group discussion were :

   1st Place: Jai Puneeth - 5th Semester, Department of EEE.

   2nd Place: Harshata - 5th Semester, Department of ETE.

   3rd Place: Chaitra - 3rd Semester, Department of ECE.
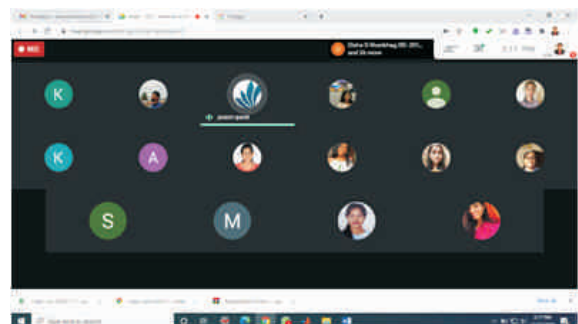
Higher Education Facilitation Centre

HEFC was established in October 2018 to provide trustworthy, reliable and authentic information, resources and advice to prospective students.

RESOURCES AT HEFC:

Books and CDs
- Test Prep (GRE, GMAT, TOEFL, IELTS)
- How to craft effective SoPs, CVs, Resumes
- Directory of Engineering Programs in the US

Online resources:
- Subscription to US NEWS
- Scholarship updates are sent periodically to registered students.

Handouts
- Guidelines on Grad Education, LoRs, SoPs
- Brochures of universities/programs in different countries

Profiles
- Profiles of successful students, including GRE/TOEFL/GPA scores and universities where they secured admission/financial assistance

Events
- Seminars, workshops featuring practitioners and experts in the field
- About 5 such workshops and sessions were conducted with Education USA, IDP, SI-UK,

- Students from BMSCE were also part of these sessions.

Advice/Guidance
- Individual counselling, review of SoPs, help with choosing universities, financial planning
- Visas- Help students navigate the student visa process.

Contact us:
renukarajarao@bmsit.in
shama.handral.mallesh@bmsit.in

Link to register to our database:
bit.ly/HigherEducationCenter

HEFC facilitated the admission process for 86 students and alumni.
Students secured admissions to universities such as Carnegie Mellon University, University of California- San Diego, Worcester Polytechnic Institute, University of Colorado, Arizona State University, Purdue University, Northeastern University, University of California- Irvine, Johns Hopkins University, University of Pennsylvania, Suny Buffalo, Brunel University, Loughborough university, Anglia Ruskin University, Offenburg University, Macquarie university and many more.

IETE Student Forum

Activities Conducted by the IETE Student Forum:

1. An Expert talk on "Introduction to IOT automation applications"

During the Five Day open course on "Advanced Networking and IOT Applications", an expert talk "**Introduction to IOT Automation Applications",** was delivered by **Mr Abhijith Telang , Business Development Manager at Softcell Technologies Private Limited** .This session was organized in collaboration with IETE Student Forum, BMSIT&M . The topics like Introduction to IOT, its features and its automation in various applications were highlighted. The complete insight on innovation in IOT its automations in various applications including inter disciplinary domain as well as current status and future prospect of IoT were discussed in detail. Sir also showed some demonstrations on IOT projects which he had carried till now. Session was very informative, various concepts on IOT projects were cleared. The program was coordinated by Prof. Thejaswini S (IETE Coordinator), Assistant Professor, Dept. of ETE and Prof. Saritha I G, Assistant Professor, Dept. of ETE.
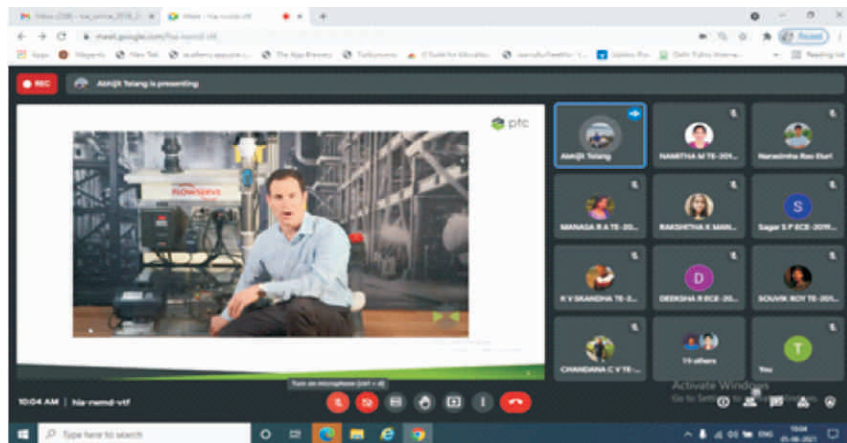
Session by Mr Abhijith Telang

2. Webinar on "Over View of IETE Student Membership"

Under IETE Student Forum of BMSIT&M, a webinar on "Over View of IETE Student Membership" was organized on 30th November 2020 at 12.00pm to 1.15 pm . Around 71 students of 3rd and 2nd year ETE students attended the webinar. The talk was delivered by Mr. Ramesh G Chairman of Membership Committee of IETE Governing Council, also currently he is head of Components Division at U R Rao Satellite Center, ISRO. He highlighted on the goal of IETE, various activities that can be conducted.
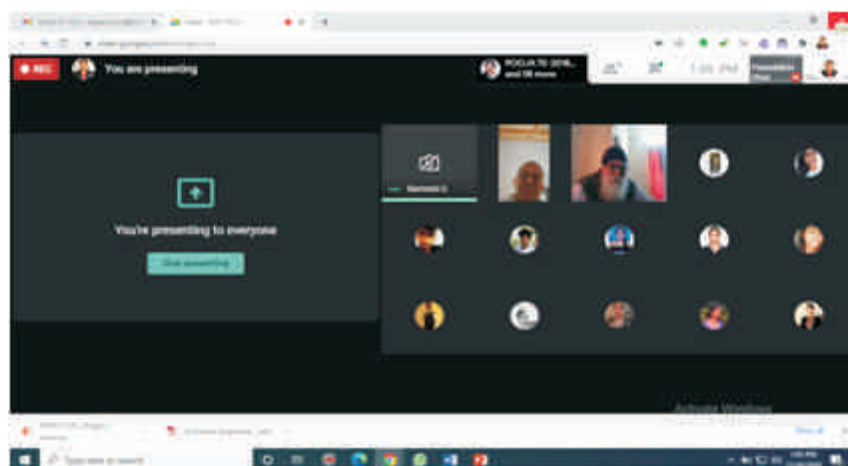
OIKOS Eco-Club

The internal activities organized bv OIKOS primarily included organization of International Webinar on the occasion of World Environment Day on 5th June 2020. The theme was based as "Celebrating Environmental Stewardship with Peer Experience Sharing". The online presentation included 3 speakers. Er Supreeth DP (University of Technology Sydney, Australia) presented about "Eco Clubs & Environmental Conservation"; Er Aadarsa VR Ram (University of Hertfordshire, United Kingdom) presented about "Inventorisation of Institutional Flora and Fauna"; and Er Nireeksha Sampath (Avid Traveler and Nature Blogger) presented about "Nature Trails". There were close to 200 participants including faculty and students. The recorded version is available in the OIKOS YouTube channel inaugurated on 5th June 2020.

Channel:
https://www.youtube.com/channel/UCb84HFNJ--PtRWHjytuUJ0Q

Webinar recorded-uploaded Link:
https://youtu.be/vdcNbSQq8rl
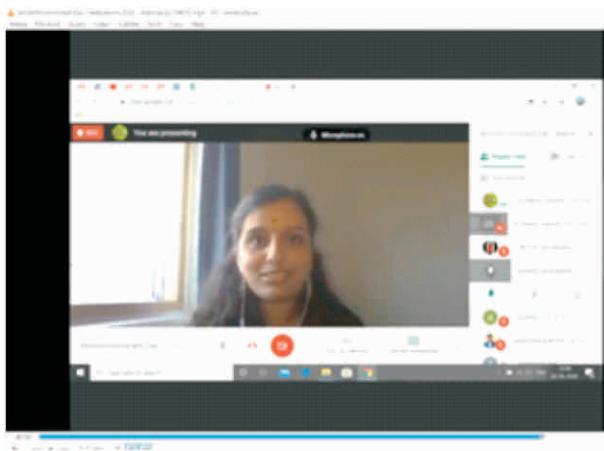
As an outreach activity of OIKOS, Dr Rajesh Gopinath (Key Liaison-OIKOS & Assoc. Professor & HoD, Dept. of Civil Engineering) has delivered a Webinar via CISCO WEBEX on "Environmental Stewardship: Need and Potential Role-play by an Educational Institution", on 5th June 2020; organised by "Shaashwat Eco-Sustainability Club, JSPM's Rajarshi College of Engineering, Pune"; towards the World Environment Day Celebration.

More than 21 Student Members were also successful in accomplishing the Entry Level of the Tide Turners Plastic Challenge, organized by UNEP, CEE, WWF-India and Million Sparks Foundation. Dr Rajesh Gopinath (Key Liaison-OIKOS & Assoc. Professor & HoD, Dept. of Civil Engineering) was successful in accomplishing the next stage i.e., Leaders Level. The activity was conducted during the month of June 2020.

Article "In pursuit of Life" by Dr Rajesh Gopinath (Key Liaison-OIKOS & Assoc. Professor & HoD, Dept. of Civil Engineering) has appeared in the online Periodical "CERD Green Chronicles-Issue 1, Volume 1", (Published by CERD Foundation, Anantnag, Jammu and Kashmir), on 5th June 2020, during the occasion of World Environment Day.

During the initial phases of Lockdown due to advent of COVID-19, OIKOS as a means to sensitize and create awareness among its member fraternity about perils of Coronavirus and direct/inadvertent consequences on Environment; had organized a Cartoon Competition; with theme as Covid-19 & Environment. The result was encouraging, with Akshaya, Madhumita and Sanif winning the 1st, 2nd and 3rd prize respectively, based on results declared by external judges.
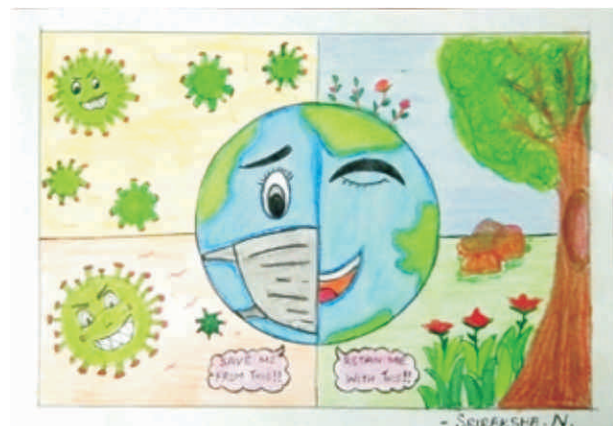
Student Member Ms Nikhita Srinivas (2nd sem CSE/inset) has won 2nd prize in Nature Photography Competition with cash prize, organized by Institute of Environmental Studies, Kurukshetra University. The prize-winning pic was of wingless grasshopper on milkweed host plant of blue tiger, on 5th June 2020. Student Member Ms Anushka Tripathi (6th sem ECE/inset) has won 1st prize in World Environment Day Quiz, organized by ISERD on 5th June 2020. Ms Harshitha (Student member-OIKOS) deserves a special mention for her Achievement during lockdown for indulging in 14 relevant Environment based MOOCs offered by United Nation.

On the occasion of World Nature Conservation Day (28th July 2020); OIKOS had floated an Online Environmental Awareness Quiz, to enhance Environmental Sensitisation across all types of Stakeholders in India. The quiz was attempted by more than 2500 participant from across India.

As part of CSER activity of OIKOS (BMSIT& M), and also for facilitating Institute's Societal Greening Initiative (under Smart Campus & Green Campus guidelines); and for supporting AICTE Activity points; "Home Agro Drive" was being carried out by students from 1st September to 15th October 2020. This was a joint initiative between OIKOS, NGO Hasiru Committee and Rotaract Club of BMS Yelahanka. Knowledge transfer of which would be shared further by Rotaract Club to villages towards improving their standard of living, health and sustainable growth.

Welcoming 2021 in the right Earnest, OIKOS was instrumental in drafting of the Environmental Policy for BMSIT. The document was ratified on 1st January 2021. This was one of the major requisites sought by UGC in March 2021 w.r.t. it's Framework for Eco-Friendly and Sustainable Campus Development in Higher Educational Institutions.

Vision
Environmental sustenance by constantly disseminating ecological and environmental knowledge to the society at large.

Mission
Inducing informal and formal environmental awareness programmes by Keystone Students Environmental Education Training.
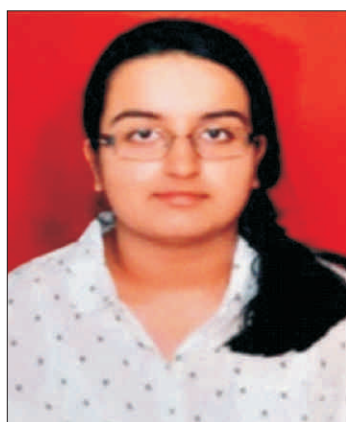
E - Studio Report

BMSIT & M Inaugurated e-STUDIO at BSN block 1st floor on 31st March, 2021 for online class/ Executive talks/Guest talks recording with high quality video and audio facility. Studio is well equipped with recorder, amplifier, interactive display, high speed internet, best acoustics, HD quality cameras, ELMO 3D Projector, best lighting facility etc.

Aero Club

The Aero club was launched on 5th May 2017 with a team of 13 core student members of 5th semester Mechanical Engineering. The Aero club was formed with an initiative to bring awareness about drone and aircraft building amongst the students., followed by a one day workshop on drone building was done by Mr. Ganesh Laxmanamurthy of Probiz- IT solutions.

Benefits of joining the club:
The students are exposed to theoretical and practical aspects of aircraft building. The Aero club now has a mission to motivate students to participate in National level aircraft building competitions. Frequent training like workshops and Industry visits to Aerospace Industries are being planned by the club.

Activities of the Aero club

1. The Aeroclub organised an online club activity on 3.4.2020 with Mr. Leo Peter Charles, MD, Jane Aerospace Pvt Ltd, Bengaluru delivering a talk on Flight dynamics, Aeromodelling, and flight simulation . There were 74 students and were benefitted with the knowledge of flight dynamics and aeromodelling.

2. A two day Drone building event was organized on 27th and 28th March 2019 by the Department of Mechanical Engineering in association with Happy landings India, Bengaluru. The Inauguration was presided over by Dr. K.M Satish Kumar, Head, Department of ME, and Dean (Student welfare), DR. H.K Govindaraju. Principal, Dr. Mohan Babu G.N were present during the flying of the drones.

Aero club Faculty Coordinator: Madhu MC , Asst Professor, Dept of ME.

Women Empowerment Cell

Webinar on "Menopause"

Women Empowerment Cell has organized an online webinar on "Menopause" on 13th November 2020 at 2.30 Pm onwards. The Talk was delivered by Dr. Megha Basavaraj, Consulting Obstetrician and Gynecologist. Around 40 staff members had attended the program. The program began with the introducing the speaker by Dr. Usha B A , Associate Professor, Chief coordinator, WEC. She gave a brief insight on female reproduction system, Different stages of menstrual cycle of women like menarche, pre /perimenopause and menopause stage. She also briefed out the changes and symptoms a woman could face during each stage. She gave awareness when to consult doctor based on the observed changes. The session was ended by questionnaire from the participants. The vote of thanks was given by Dr. Usha B.A. The program was coordinated by Prof. Thejaswini S, Assistant Professor, Dept. of ETE and Prof. Nirupama K, Assistant Professor, Dept. of MCA.
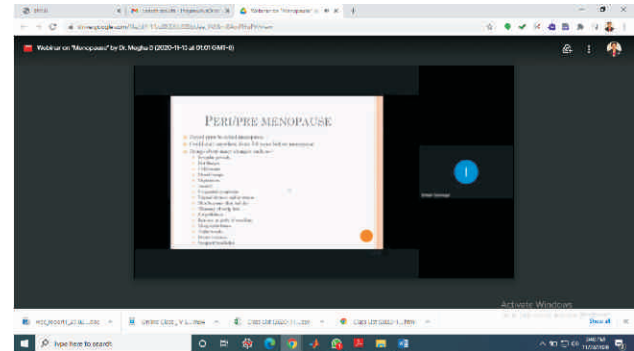
Webinar on "Work Life Balance"

The Women Empowerment Cell in association with Department of Physical education and Sports conducted an online webinar on the topic "Work Life Balance" on 20th November 2020. The resource person for the webinar was Smt. K Ratnaprabha, IAS (Retd.)., Former Chief Secretary, Govt. of Karnataka, and Chairperson, Skill Development Authority, Karnataka.
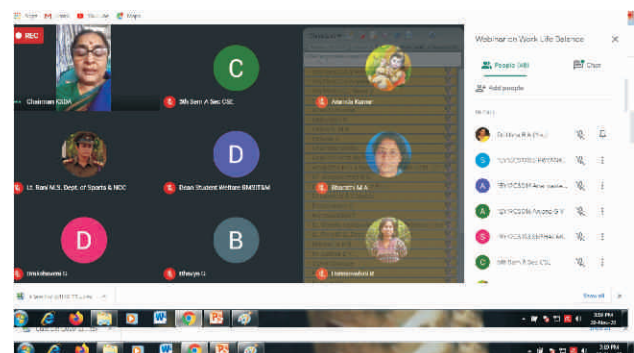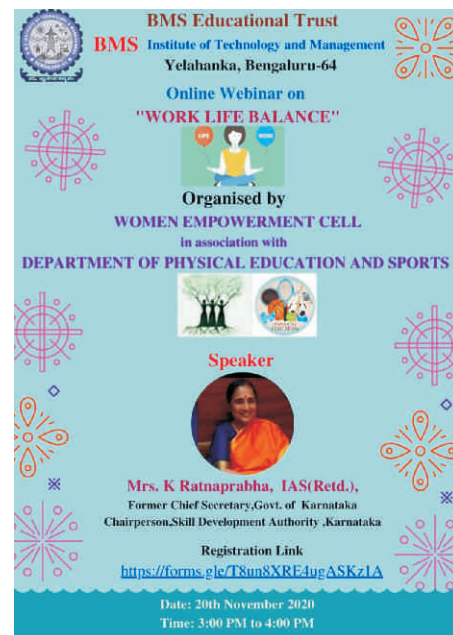
Dr. Usha B A, Chief Coordinator of WEC, BMSIT&M felicitating the Speaker Smt. Ratnaprabha (IAS Retd.) Former Chief Secretary, Govt. of Karnataka, and Chairperson, Skill Development Authority, Karnataka.

Three days Online Workshop on "Successful Parenting during Pandemic"
Women Empowerment Cell, BMSIT&M conducted 3 days Online Workshop on "Successful Parenting during Pandemic" on 29th May, 5th June and 12th June, 2021 for three consecutive Saturdays.

The speaker of the event was Ms. Izzat Yaganagi Head of Experimental Programs Indiahikes. Madam has Specialized Training in Negotiation and Mediation, including deal mediation, Basic Skills In Counselling, Child and Adolescent Counselling, Couple and Marriage Counselling, Coaching to Excellence etc,. She has work and experience in Partner and co-founder of 'Nurturing Nature' that offers Mediation, Counselling and Training support for Educational Institutions, Corporates, Families and Individuals, and In-house Counsellor at BMSSA.
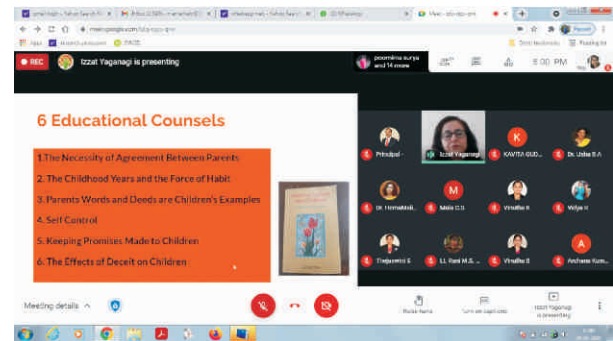
e-Yantra Robotics Lab (eLSI)

What is e-Yantra?

e-Yantra, a robotics outreach project hosted at IIT Bombay and funded under NMEICT* by the Ministry of Education, Government of India. e-Yantra initiatives complement the largely exam oriented Higher Education systems in India by "Project-Based Learning (PBL)" capabilities to render young engineers able to address real problems in society. e-Yantra encourages a "can do" attitude amongst students, that prepares them for a career in research or as technology entrepreneurs. Students are encouraged to use robots to solve "real-life problems.

e-Yantra Lab Setup Initiative (eLSI):

The project is where practical engineering skills get honed. Most good postgraduate engineering schools often quiz entrants about their technical competence, by discussing their BE project experience. e-Yantra naturally lends itself to motivating exciting BE projects where students can learn a lot through 'Project-Based Learning' with the robots. eLSI fills the gap in facilitating good BE projects, by setting up Robotics labs at colleges and training teachers.

Inauguration of eLSI:

e-Yantra lab inauguration (eLSI) in collaboration with IIT Bomaby was conducted in BMSITM on 27th November 2020. Inauguration began with ribbon cutting which marked the official opening of the newly established lab by the chairman of BMS Institute of Technology and Management, Mr. M Madan Gopal, IAS (Retd.), along with Principal, Dr Mohan Babu G N.

ACHIEVEMENTS AND AWARDS:

1. E-Yantra Ideas Competition year 2020:

A team of 4th year students from BMSIT took part in the E-Yantra ideas competition. The team consisted of: Kaushik Balasundar – Team Leader (ME), Abay J Kottoor (ME), Akash S Nambiar (ME), Shwetha D (CSE) Under the guidance of Mrs S.Nithya poornima, Assistant Professor. The project they presented was titled – "Hydraulically Actuated Autonomous Nurse (HYAAN)". They worked on developing a full-scale model of the project. The aim of the project was to help hospital nurses lift and turn sedated and unconscious patients amid the increasing shortage in skilled nursing staff across the world. The full-scale prototype was completed by January and they submitted a video for evaluation which was shortlisted for the Regional Finale that took place at PSG Institute of Technology and Applied Research, Coimbatore, where their efforts were highly appreciated by the judging panel. Their project was then selected for the National Finale, conducted by IIT Bombay, and was commended by the judging panel of acclaimed IIT Bombay professors and Angel Investors. Their project finished in the top 5% of the competition.

Meet the Team!

2. Sahayak Bot - ERYC 2020-2021:

Interdisciplinary team from CSE and EEE, consisted of 4 members: Siddharth Ghodasara (EEE), Vineet Ranjan (EEE) Gaurav Sethia (CSE), Harish Kumar S Guragol (CSE) under the guidance of Mrs Shruthi.J, Assistant Professor(CSE). Here they unleashed an imagination and showed talent in programming an Autonomous Ground Vehicle (AGV) to make it capable of autonomously traversing an indoor environment to assist moving objects from one place to another. The scenario is that objects are

being moved in e-Yantra's lab and there is short of manpower so Sahayak bot is used to help move the boxes from one place to another. The theme was divided into a number of tasks:

Challenges in this theme include:

1. 2D mapping and 3D mapping (SLAM)
2. Autonomous Navigation
3. Perception
4. Pick and Place.

This team had been selected as one of 7 finalists out of 465 teams in the Sahayak Bot theme and had been placed at 2nd position in finale under this theme. The competition was held on March 30 to April 3 2021 online.

2ND POSITION
Team ID: 337
BMS Institute of Technology and Management

Gaurav Sethia   Harish Kumar S Guragol   Siddharth Ghodasara   Vineet Ranjan

ARTICLES

M_SSING...

I am running to catch my train,
only to realize that for a change it was on time, and I missed
my train.
Now I have no option, but to wait
My eyes fall on on a random pillar while I wait.
This pillar of a random railway station, of a random City has a
poster,
another random poster that reads "missing...
It has a face, a smiling face of a chubby boy,
below which it is written height 4"I3, age **12,**
face round and complexion Brown.
There is a contact number in bold at the bottom,
and this black and white poster has it's own colour of dust, with
shades from summer to autumn.
I wonder if I have ever seen that boy, and if I *ever* do,
Will I remember he is "missing" from someone's life
Or just like I walked past thousands of such posters
I will walk past the lost boy too?
Such torn and tattered, sheets and posters
Are all over the city, on walls, trees and old dusty shutters.
Black and white and sometimes in colours,
stories of lost kids and old parents with Alzheimer's.
For you and me it is another random poster,
But for the mother who stuck the poster with shaking hands,
tears and hope,
And faith, if not on God, at least on humanity, it isn't.
It isn't a random poster, it is her effort to find her lost one,
She is longing to reunite with her loved one.
Hope.The hope to find the "missing" is going to stay forever,
Unlike our momentary attention to missing posters.

How many such posters and how many lost ones, have we
missed, I wonder.
Lost in our world, we are running, running past unfinished
verses of someone's life,
How many times, I wonder.

-MSK
AI&ML

Hypothetical Situation

Let us think of a hypothetical situation:
You are sitting in your room, but you are not alone. There's another 'you' in your room. You have the same thoughts, same clothes, same goals and the same life. You both love your family equally. You both like the same books and the same movies. You both think alike. The other you, thinks it is their room and you are the hypothetical you.
You both are exactly the same. You are just copies of one another and there's no way to tell who is more real.
Now, one of you have to die and the other can continue living.

Either of you can die, because it makes no difference if you both are the same, right?

What do you do?
Do you kill yourself and let the other 'you' live?

No?
Why?
Why do you hesitate, when you know that it is just going to be same? The other you, is just you?
If you are killed by your own self, why do you have a problem?

Why do you feel, you are better than the exact same person in your room?
Why do you feel you are more "real"?

Maybe because, deep down, all of us feel we are unique and no matter what, there has to be something about us that is just not there anywhere else.

For some reason, we know,
nobody can be us, more than ourselves.

This feeling we have about ourselves, how real is it? How real is anything?

To be honest nothing is real until we believe in it, shower love, have trust and hope for it to be better....

This dilemma about the two "yous' " is just the two main reasons for our lives, the hypothetical you is the heart and the other you which is so similar to us but is still different is the brain.

In life we have to learn when to listen to the brain and heart,
And if both the yous' agree on something and come to a unified decision,

Then trust me both the yous' that is we ourselves have gained control over our body and we know what is right,
This is the time when a person becomes a learned and wise person,
Because life is not about giving up to any of the two yous' ,
Its about nurturing, loving and living with them to have a peaceful and satisfied end of this wonderful life.

--MSK
AI&ML

UNANSWERED QUESTIONS

There are days you can't talk,
And there are times you can't think,
There are nights reserved for conversations, that you again kick with no energy to talk or think.

Conversations with yourself, the important conversations that you again push for another night,
Because it's not yet time, and you are too tired to have this fight with yourself again.

But when is it ever going to be time and when are you ever not going to be tired?
Maybe you are tired because you have been carrying the burden of unanswered questions and thoughts, all hampered?

These unanswered questions have question marks that grow bolder and darker and stronger with time that we feed them,
As days turn to weeks and weeks turn to months and months turn even longer than anticipated?

As time flows, what happens to these unanswered questions?

Do they become webs, trapping you and growing, thicker and denser?
Or do they fade and make it easier to escape?
Do they explode like stars or do they contract like black holes, sucking in all your light?
Do they rot and smell,
Or do they simply vanish leaving behind a incomplete and weird feeling, for eternity?
Do they chase you in dreams turning them into nightmares and haunt you, and with every passing dream, deeper they sink into our minds?
Or do they wait, for days you can talk and times you can think?
Do they wait until you develop the courage to solve the problem with a decent conversation?
Or do they simply let you go harmed, leaving you clueless in your own cage?
Do they wait until there's no more room left for you to push them for another night?
Or do they make you push them forever in the suspense that you are capable of holding them for longer?
Don't they become stronger to make you push yourself to the limits you unimagined and if you fail to hold yourself make u dependent on holding to the very question mark at the end?

Or are they just nicer, simply becoming a string of unanswered questions
till the end, untouched, unanswered and abrupt?
Now it is our decision to make whether we end up nurturing and feeding
these questions to a level that they eat us up,
Or whether we solve our problems, find a answers to these questions and
make our lives easier.

--MSK
AI&ML

AVERAGE

This is a very average writing, about an average night. Actually, no It is about an average night that turned into coaster, Again. I shut my eyes, it is dark. In this darkness, I wait for sleep to come. I wait. I want to be lost in a land of dreams. I want to slowly, slide into sleep and put my conscious to rest, throw away all my worries and sleep like a baby. Undisturbed, sound sleep, is all I want. I wait.

Steep doesn't always come easy, and tonight is one of those nights.
It is a dark night and my thoughts camouflage.
I open my eyes. I stare at the white roof. I turn sides, I look at the walls and the roof and then the walls again.
It is already late. I can feel the demons creeping in, filling up the voids within my ribs. I don't see them, I feel them. They are entangled in a perfect mess. Their presence is so strong. They are within me, and now, the night isn't quite. My thoughts are so loud. My feelings are pouring on the demons, like rain, and my heart is pounding faster and louder than thunder. The demons are enjoying this rain. They are jumping and dancing and piercing my insides with their invisible swords. I am shaking and trembling. My throat is bursting. I can't hold it within anymore. Its choking, real hard. I breathe, I try not to cry, not to shout, not to fall apart, but it's all in vain.

I cry a lot.
The tears wash away all my positiveness, all the courage that put back the broken prices last time I lose it all, again.

But this is really, really average.

-MSK
AI&ML

Chamomile Tea

A beautiful yellow box,
pastel yellow box.
Within it are 13 little packets,
tiny squares.
"For good sleep" written on it,
In Italics.

And there is a drawing of a tiny chamomile flower on the
packet,
In the right corner.
I cut open one packet and dip the tea bag into a mug of hot
water,
Blue mug.

Dip. Dip. Dip.

You said, chamomile tea will calm you down. You said, looking
around and pointing out features of 5 random things will calm
you down.

I did it

Pastel yellow box, tiny squares, letters in italics, right corner and
blue mug.

Dip. Dip.

No, it did not

Also, the tea tastes like paper.

Six things.

By the way, I don't like the smell of chamomile flowers, they
remind me of the other bad nights.
I don't like counting and I can't stop.
   I was at six, right?

-MSK
AI&ML

The Songs I Love.

I like the song of waves,
And I like the noise of water, dripping and hitting boulders of dark caves.

I love the cold wind and song it sings,
And more than the chirping of birds, I like the sound of their flapping wings.
Talking of wings, my favourite are the black bats,
I love them just as much as I love the welcoming cries of dogs and cats.

The sound of my play time, the dark eerie night,
The sound of your footsteps, shadows and vanishing light,
Your loud thoughts, the blood in your veins and your red, pumping heart,
All of them make a beautiful song, an imperfect art.
It is so beautiful, sometimes I feel like tearing it all apart.
But I love the way you whisper "I love you" in her ears,
And I am happy, you did not kill her, even after all these years.
Even after I am long gone,even after I am dead.

I love the way she sleeps on my bed.
But you know what, you don't sleep, and I don't like that. I'd love to watch you sleep.
Is it the guilt of killing me, or is it the thought of killing her, keeping you awake?
Do you still hear my screams or is it the plans you make? I swear, I wish to amalgamate all the songs I love, and sing a lullaby to put you to sleep.
Tonight, Let me know, if you still cannot sleep,
I can take you with me, we'll listen to chirping birds, the wind, waves, and water within dark caves,
And then, we'll sleep quietly, FOREVER within our graves.

-MSK
AI&ML

WATERY GRAVE

The beautiful, blue sea
And the tiny sea shells, enchanted me,
The cool breeze and the waves so high,
I would never get tired of the colorful sky.
The sea did not only bring me happiness
But would also take away all my loneliness,
bringing home my dad, the captain of the mighty ship
After his month long trip.
I just loved the sea.

Until one day..
You know, I keep waiting like every fourth Sunday,
I thought, I would see the ship approaching the shore
You would get down and hug me like never before.
But it didn't happen, you never came
Hours later, your death news followed
Just like your ship, I too sank.
Did the pirates take you?
Or did the storm eat you?
Whom should I blame?
I now, no more like sea,
I hate the dark deep sea.
The scary breeze, lifeless shells
and the monstrous wave
It's just a bloody grave.
I hate them for taking away my dad,
I'm now broken and sad.
The happiness that the sea shore bought me is dead.
forever dead.

- MSK
AI&ML

I Think, I Overthink

Soaked into the darkness of the silent night,
Endless Battles of infinite thoughts, in my head I fight.
My eyes are wide open, I forget to blink,
Its because I think, I over think.
My pillow, my only best friend,
Soaks in all that's in my head, having no end.
My punches, my tears, it swallows up everything like a sink,
And its because I think, I overthink.
At the dark hours, My fears are surfaced to the top,
Reminded of My insecurities, forgotten of battles I fought.
Reality checks, delusional dreams, I turns sides, I cuddle and I shrink.
And I think, I overthink.
The night is weird, powerful and yet surprising.
I think of fishes flying and butterflies swimming.

Happy, sad, frightening and also the impossible, I think,
Because I think, I over think.
In my head, I'm a minister, a warrior, a loser, a winner
And for it all, is the night a sinner?
For some are high on Thoughts after a drink,
But I, at night I think I over think.
I always thought over thinking is a bane,
But no, it's not all bad, not all pain.
I have dreamt beyond limits and it's not all in vain.
I mustn't forget My best ideas are borrowed from that deep end.
Night is the time when the thoughts of our soul descend.
I now realize, I now rethink.
I think, I over think.

- by **M S Kaushik**
USN: 1BY20AI024
AI&ML 1ST YEAR

Board the Future: The Journey is a Way of Arriving Unannounced

Chirag Arora

It's hard to imagine a world without some of these innovations. Who knows when the next game-changing, technological blockbuster will occur? One goal I definitely see in my future is graduating from college. As of right now, I am not sure what I want to do with my education or what I would like to major in but I am confident that, I will graduate from college with a degree. Today, it's hard to succeed and live comfortably without a college degree. Everyone must understand that Time waits for no one. No one can stop the clock. Secondly, Time cannot be reversed.

Engineering" considered being a field of brain, technical knowledge and day and night study. It is the field that every math's student views as his/her career as engineering. Moreover going away from home to a college at distant place that too for the first time was a tough job for me. Here I am going to elaborate my journey till 3rd year of my engineering. Still one long year to continue.

It was July 2018, packed up with all competitive and board results and just enjoying the vacations as if life would be the same in the coming months and years. Hardly, aware where we would get finally landed up and which engineering college had the destiny decided for us.

Cautious about the career, thinking that life would be easier and free, as it was the college time, free from all stringent school rules and daily punishments. Neither homework, nor a bulky bags just a thin notebook and pen. It was the time in order to choose the engineering discipline of my choice that was computer science in the college of Bangalore.

Soon the day came classes started. The place was new, living away from home makes me realize the importance of family. You need to tackle your problems and deal with them in your way. Internally, I was little upset and afraid but

externally pretending to be strong and comfortable with the situations. It was dusk, and I settled my bags and other items. Wondering the whole night that how miserable the life had become so soon.

In the hostel, friends become family as we live together, eat together and share things together. Hostel life taught me that you need to express your care and love towards your friends.

Got up early in the morning as it was my first day in the college thinking while brushing the teeth, Will I reach the college on time today?
(Was totally new to that place, while the hostel was in campus only, 1o1)
What about nagging?
How will be the new classmates and new teachers?

Muddled up with all these thoughts, I got up and get myself ready for my first day of college.

With my head down, I was walking and suddenly a scream catches my eardrum saying,"Oye, come here". That shook me for a while, I turned back a little and had a glance and possibly it was a senior at 30 yards distance. Thinking that if I approach him, I will surely be ragged. Immediately, I turned off and continued myself moving towards the campus and with the steps at a faster pace and pretending I did not hear a word. That was my first and also a safe escape. Next task was to find the classroom, after going through various notice boards. With all new faces I managed to enter a classroom, I took a window seat just like boarding to a class of new journey was completed.

Instead of looking at the teacher I was looking at the aircrafts flying over my head outside through the window as it was dream to become a commercial pilot.

First lecture completed with these terrible thoughts. Considering still it like a school classroom that all the lectures would be delivered in a single room, I remain seated. But as the whole class dispersed I also followed them. The view outside the lecture hall was threatening. A crowd of seniors waiting outside for the fresher's to come out.

The whole corridor echoed with such a noise, Wish, Wish, Wish, Wish !!!!!!!!!!!!!!!!!!!!!!!!!!
Heads down. Eye on the shirt's third button.

We all tried to escape from that place as soon as possible. The whole day went in the same confusion.

Finally the first day came to an end few were day scholars who had to go far and leave the college campus, as most of the students were hostellers.

College continued and ragging was in vogue. It was hard to cope up with the studies and above which the fear of ragging. I was totally in a situation of dilemma where life has left me. It was the time when I learned to manage everything on my own like to wash clothes and do all other little household works.

Every morning we use to get up at seven, then had breakfast, and leave the room at least at 8 am. Usually the college used to get over and at 4pm we used to reach back room. Totally soporific schedule used to make us asleep for 2 hrs. after reaching room. Weekend holidays were meant for washing clothes and completing the written work. Life continued in the same manner and slowly and gradually time passed and we also became seniors. Situations were little better now but we were totally exhausted.

Till then it has been three long years now, struggling with life everyday but habituated now and become more tough and strong with the circumstances. The entire semester completes with the same struggle and the actual study is a day before the finals. Thus from my point of view, a B.Tech Degree is not a matter of 48 months (4 years) but a matter 48 nights (48 subjects in total degree , hence 48 nights before each exam.) A lesson it has taught is that life is not that easy always. Time is one of the best teachers.

I am in the last year of my hostel life and I believe that it will continue teaching me life lessons. *"Kyunki picture abhi* boaki *hai* mere *dost!"*

- by **Chirag Arora**
1BY18CS046
6th Sem A-sec

"WAR"

Shrividya Shashidhara

Red flows through the streets once filled with smiles and laughter of children now echoing with cries and marches of heavy boots.
The ground trembles with the weight of the tanks, pushing forth the remains of courage out of its way.
The once heavenly blue skies and pearly clouds have now turned to ash and grey.
What used to be a peaceful home is now torn apart by the sound of the guns and riddled with fired bullets.
What used to be a country full of health and goodwill has now ruptured itself with malnutrition, disabilities and injuries.
The shrieks of those who are burning and bleeding under the ground are dampened by the bone rattling commands of the military
"Steady boys, READY, AIM, FIRE!!"

Missiles are now disguised as fireworks.
Raging fires wear the mask of a sunset.
Migration and refuge now veiled under the ambiguity of travailing.
There are people out there who no longer have a home to live in.
There are people out there who no longer have a family to stay with.
There are people out there who have silenced their hunger by starving.
There are people out there no longer know what it feels like to sleep in a bed.
"Everything happens for a reason.
""Don't give up hope"
"Let's keep praying"
NO. STOP. ENOUGH.

Winning a war not give you the upper hand.
Winning a war does not make you stronger than another nation
Winning a war does not mean you take your place on a throne and sit comfortably above the rest of the world.
To wage war is to have the blood of a thousand lives on your hands.
To wage war makes you a sin against nature and all its beings.
To wage war makes you an enemy of god.
To wage war is to lose what makes you human.
And then we wonder why the world we live in is no longer bright.
We wonder why the world is colourless and cruel.
We wonder why our world is crumbled our governments ruptured and our people no longer have a heart.

Those who wage war are those who don't love others nor themselves.
Their bones are damned and their flesh is cursed.
And they will pay a price for trapping the souls of those who's lives they recklessly took.
And the PRICE?
You are an abomination.
You're no longer one of the people.
You're no longer our kind.
You're no longer human.
You're no longer us.
You're just evil in a vessel, an evil that needs to be cleansed out of this world. And you will be.
For you will pay the price for what you've done.

- by **Shrividya Shashidhara,**
1BY20CS181
CSE, II Sem, 'C' Section

An Essay Without a Perfect Topic: LIFE

Subrahmanya Lakshmi Keshav Bhumaraju

Our lives, asserted as our only chance, and seldom sarcastically remarked as mundane find their similarity with that of an essay. Their heading, whatever it might sound to be, leaves without any exception, a colon.

And when it (the colon) urges us with a dash propped right beside it, we find ourselves, involved, playing around, acting as exclusive spendthrifts regarding the concept of time investment.

As the merry-go-round makes its rounds which might vary in number, finish their certain digits, we find that one of the paragraphs of our lives, the introduction, comes to a standstill, thus leaving a line to further proceed the act of urging again.

This act makes us realize the globe around, which appears itself to be conspicuous as that of a slightly inclined inkpot gradually spilling its ink, which is of one color, to involve all of us into one activity (studying), in addition to our favourite recreation (playing) in the play of this life.

But as the experience of that of a roller-coaster, twists begin stepping into our lives, abstaining us from believing that its not just a color but another has already begun to spill to realize the mix, the colors have blended themselves into (the dawn of exams, the pressure, stress involved in the success of their accomplishment).

But at the eventual end of taking a gap of its own, which is not that much to cause us to get us restless and impatient, an interesting shade starts leaking out from the same inkpot, which causes the resulting mixed shade to appear in a rather varied manner to the eyes of the varied teenagers who beheld it while entering the doors of puberty. They find that this mixture (of the shade) is enchanting, attractive but depends on our will, and our considered opinion to be drawn towards it, leaving a strange and a weird question in front of us, perplexing us whether to use it to make an embodiment of artistic brilliance (a painting- a successful life) or that of a terrifying one (painting again- challenging future ahead) finding itself hard to be sold in spite of being displayed in a cursed gallery for years, centuries, probably for millenniums together.

But as the essay moves on like this page after page, paragraph after paragraph, through the pen of a writer who pens it, instead of the realization whether he or she is painting a picture or crafting an essay, lands into a delirium that his sheets have gone up to end his or her essay with an inference, thus forcibly dragging him or her out of a dream that life is actually not just a mere essay, that has a full stop to end it, to save his or her sheets from getting spent.

- by **Subrahmanya Lakshmi Keshav Bhumaraju**
USN- 1BY20CS192
2nd SEM C Section

Finding Pain in Hapiness or Hapiness in Pain:
An Example of CONFUSION

The worlds of reality and fantasy are like that of two steep and giant cliffs separated by an extremely stable and weary bridge. This bridge is extremely old, unique in its own way, not only holds an ideal balance between its tough and elastomeric properties consisting a splendid framework, but also guides the sources of the weight it is burdened with, (the human beings and other living organisms), by the path it withholds, thus forming a isthmus between the two large stretches of enormous worlds, the reality and fantasy.

The beings capable of being self consciousness, the human beings, often step on the pavement of this pathway, the bridge, when they are under utter perplexity (especially involving a group of teenagers in surplus numbers, if the crowd over the bridge's crust be noticed in a statistical manner). When such Individuals with extremely diverse attitudes and intentions step on such a unique and mind blogging structure en route from their site of departure (reality), tending towards their non confirmed site of arrival (the fantasy), they get to understand and offer their inferences on the characteristics of the bridge, their eyes have coincidentally run into.

Some guys with net positive minds, admire and think of assimilating the perseverance of the bridge, which has never succumbed to collapse, in spite of carrying on its obligation for so many centuries together (people who are capable of correcting and being persistent enough to learn from their mistakes). Some other category of guys, with net negative mindsets, get frightened and scared when they sight the distributed crevices and holes and worn out sections of the bridge and that of the imminent dangers of falling down to land upon the rocky terrain beneath, which their eyes never fail to meet with (people who tend to develop undesirable phobias towards their negative aspects and loopholes of their life).

These two self explanatory forms of human beings presently under confusion , either get discouraged by the then condition of the same isthmus, they have been standing upon, ultimately trudge, gallop or run back to their active residence, the world of reality. The former above mentioned strong minded guys, provide themselves with a promise to remain in reality while the latter weak minded fellow never grudge themselves to doubt about their return quest over the bridge in future.

The remaining strange, queer and thoughtful group of guys, who hardly care about time, either get realized by their perseverance of crossing of all odds (crevices, holes, broken sections of the bridge channel, and other living organisms in their path, as to why they want to peep into fantasies, and then return home with either difficulty or pleasure), or consider themselves rather destined to live in fantasies with escapism, pessimism or determination, and enter the other side of the such a controversial channel holding so many delirium sectors, to be alive in the attractive world of fantasies for a temporary tenure (if reality calls them back ashore), or till eternity.

- by **Subrahmanya Lakshmi Keshav Bhumaraju**
USN- 1BY20CS192
2nd SEM C Section

Lost

My eyes seem to stare upon some random thing in front of them.

Irrespective of the reason, irrespective of the purpose, they just examine in the same direction, Without any swaying and without any diversion.

Despite being aware that my thoughts have gone nil and the time is going waste, My mind helplessly holds within itself a dilemma and a conflict, whether to be solemn or not, While viewing in the same random thing with utmost focus.

At that time, the same eyes, which rather belong to me, seem they are actually not, As they do not obey my guidance, do not cast around elsewhere as per my wish and are rather ignorant of the duration, For which they would be sighting the same random object, without any boredom or drear.

They do not even know that the body (from which they are inseparable) has gone frozen, has got stationary and has assumed the look of a statue.

I do not know whether they have the slightest clue about the present condition of their body's surroundings.

I do not think they actually bother about the activities of other's eyes, belonging to other bodies.

I think these eyes, which are actually mine have turned ignorant, illiterate, sluggish and irresponsible, by giving importance to that cursed random object.

I myself know that my brain, which controls these eyes would have turned blank while such a random object is observed.

I myself can give an illustration to myself about the inevitable existence of some reason, which is prodding me to fall into this trance for a while.

I myself would be able to confront my preoccupied mind as well as my face suffused with a plain expression if the random object would have been a plain mirror.

I myself assume that my mind has reached its critical limit of musing over the same unknown issue for a long duration, That causes it to go blank for the time being, thus permitting my eyes to keep peering at that random object.

I myself know that this state of my mind is not permanent, it is bound to be broken, either by myself or somebody else, When his or her eyes meet mine that had gone ceased abruptly many moments ago.

I myself am aware that my determination would wake me up, land me up into taking a firm resolution in order to resolve this particular issue, That is supposed to be erased off my mind either by revealing it or by keeping it a secret, as it has been before.

I myself know that if I would gain back my consciousness somehow, I might say to myself either mentally or verbally, "I do not know why I am **LOST**? Right into the depths of the world of my own."

THEME:
The intention of this text is to convey those lonely moments of people when they are under perplexity and their minds are preoccupied with their private issues, they are engrossed about. Excessively reflecting such issues for a long time causes people to tend to go into a trance having acquired a thoughtful state of mind. When the solution for such issues does not penetrate our mind, we tend to go blank, muse and enter into a half-conscious state. The above-mentioned text attempts to portray such moments of a man's life when we just get **LOST**, thinking about our hurdles and certain pressing matters.

- by **Subrahmanya Lakshmi Keshav Bhumaraju**
USN- 1BY20CS192
2ⁿᵈ SEM C Section

A Poem that I Wanted to be Short But is Helplessly Long!

Helplessness! It is difficult to carry your load in one's mind.

You put forward a Herculean test to one's patience.

You remind every able person of his or her only inability or weakness, he or she is disgusted with.

You help every innocent individual to fall prey to their naivety and let them commit all those mistakes, they would have never dreamt of.

You can show your valour by defeating every formidable human being by aiding them to recall their failed stories and doleful memories.

You can give way for any focussed prodigy to take a diversion off his righteous course by letting him or her go astray with ease without his or her consciousness.
You can cause contortion of a face possessing a Schrodinger smiley to get transformed into another face, quite different, quite astonishing to perceive or witness.

Hope you ever let a person expect one's fate to be in the way one would desperately want to be. Every conscious person knows your ability, your capability and potential to foil one's plans and bring out a fantastic twist to the crux of one's plot.

Everybody is also aware that it is indeed impossible to list out all those instances which make you superior and turn others inferior.

You control one's life in your own way, by getting things out of control for him or her.

It is you, helplessness who is really difficult to be recalled and remembered once again, once more, in one's mind!

- by **Subrahmanya Lakshmi Keshav Bhumaraju**
USN- 1BY20CS192
2nd SEM C Section

Pebbles

Prashant Parashar

Walking on the road slowly, i kicked a pebble and just thought Pebbles, you see them.

They have no significance, you don't even notice them lying around. They are like obstacles in the soft sand.

On the other hand, sand! you can't even think of this beautiful world without it. Every fascinating structure man has ever made, sand has its important contribution. It's totally your choice to be one of them. Both exist but one earns respect while the other faces ignorance.

To become sand from a pebble one must go through constant carving force which cut it down to the finest precision and becomes more important.

Same is true for humans. We need to go through a constant change. Work for your dream to become what you want, just like the pebble who suffers to become sand.

- by **Prashant Parashar**
USN- 1BY18CS110
6th sem B section

Prerana H.

ತಾಯಿ

ಗರ್ಭದ ಗುಡಿಯಲ್ಲಿ ಜೋಪಾನವಾಗಿ ರಕ್ಷಿಸಿಕೊಂಡ
ಮಾಸಗಳು ಒಂಬತ್ತು...,
ಅಳುತ್ತಾ ಭೂಮಿಗೆ ಬಂದಾಗ ಕೊಟ್ಟಳು ಸಿಹಿಯಾದ
ಮುತ್ತು...,
ಹಸಿದು ಆಯಾಸದಿಂದ ಮರಳಿದಾಗ ಕೊಟ್ಟಳು
ರುಚಿಯಾದ ಕೈತುತ್ತು...,
ಪ್ರತಿಯೊಂದು ಹಾವ ಭಾವಾದಲ್ಲೂ "ಅವಳ ನಿಷ್ಕಲ್ಮಶ
ಪ್ರೀತಿ"ಯೇ ಒಳಗೊಂಡಿತ್ತು...,
ಅವಳೇ ನನ್ನ ಜೀವನದ ಬೆಲೆ ಕಟ್ಟಲಾಗದ
ಸಂಪತ್ತು...,
ದೇವರಲ್ಲಿ ಸದಾ ಪ್ರಾರ್ಥಿಸುತ್ತೇನೆ "ಈ ಪ್ರೀತಿ"ಗೆ
ಬಾರದಂತೆ ಯಾವುದೇ ವಿಪತ್ತು.....

ಎಂದಿಗೆ ಕೊನೆ ಕಾಣುವುದೋ

ವರ್ಷದ ಹಿಂದೆ ಜಗತ್ತಿಗೆ ಪರಿಚಯವಾಯಿತು "ಈ
ಕೊರೊನ",
ಅಂದಿನಿಂದ ಅಸ್ತ ವ್ಯಸ್ತ ಆಗಿಹೋಯಿತು ಜನರ
ಜೀವನ,
ನಿಮ್ಮ ಹಾಗೂ ನಿಮ್ಮ ಕುಟುಂಬದ ಆರೋಗ್ಯವನ್ನು
ಮಾಡಿ ತುಂಬಾ ಜೋಪಾನ,
ಮಾಸ್ಕ್ ಧರಿಸಿಕೊಂಡು, ವ್ಯಕ್ತಿಗಳ ನಡುವೆ ಅಂತರ
ಕಾಯ್ದುಕೊಂಡು,
ಸುರಕ್ಷಿತವಾಗಿ ಮನೆಯಲ್ಲಿ ಉಳಿಯುವುದೇ
ಪರಿಹಾರಕ್ಕಾಗಿರುವ ಪ್ರಮುಖ ಸಾಧನ...

PROGRAMMING ಕವಿತೆ

ಮನಸ್ಸಿನ ಭಾವನೆಗಳಿಂದ **CODE** ಮಾಡಿದಾಗ,
ಪ್ರೀತಿಯ **PROGRAM** ಖಂಡಿತ ಯಶಸ್ವಿ
ಆಗುತ್ತದೆ...
ಜಗಳ ಹಾಗೂ ಮನಸ್ತಾಪದ **ERRORS** ಸಾಮಾನ್ಯ,
ಪರಿಶುದ್ಧ ಪ್ರೀತಿಯಿಂದ **DEBUG** ಮಾಡುವುದೇ
ಗಮನಾರ್ಹ.....

ಹೊಸ ವರ್ಷ

ಹೊಸ ವರ್ಷವನ್ನು ಸಂಭ್ರಮದಿಂದ ಆಚರಿಸಿಕೊಂಡು,
ಹೊಸ ಬೆಳವಣಿಗೆಯ ಭರವಸೆಗಳನ್ನು ಕಟ್ಟಿಕೊಂಡು,
ಹೊಸ ಜವಾಬ್ದಾರಿಗಳನ್ನು ನೆನಪಿಟ್ಟುಕೊಂಡು,
ಹಳೇ ಅಮೂಲ್ಯವಾದ ಸಂಬಂಧಗಳನ್ನು
ಉಳಿಸಿಕೊಂಡು,
ಹಳೇ ಸಿಹಿಯಾದ ನೆನಪುಗಳನ್ನು ಹೊತ್ತುಕೊಂಡು,
ಹಳೇ ಅನುಭವಗಳನ್ನು ಕಾಪಾಡಿಕೊಂಡು,
ಉಲ್ಲಾಸದಿಂದ **ಮುಂದೆ ಸಾಗೋಣ**....

ದಸರಾ

ನಮ್ಮ **ನಾಡಹಬ್ಬ** ದಸರ,
ತರುವುದು ಇಡೀ ರಾಜ್ಯದ ತುಂಬಾ ಸಡಗರ,
ಮನಸೋಲಿಸುವ ಅಂಬಾರಿಯ ಸಿಂಗಾರ,
ಅಲ್ಲಿನ ಅರಮನೆಯು ಎಂದಿಗೂ ಬಂಗಾರ,
ನವದುರ್ಗೆಯರ ಶಕ್ತಿ ಅಪಾರ,
ಕಂಗಳು ಸಾಲದು ನೋಡಲು ದೇವಿಯ ಅಲಂಕಾರ,
ಭಕ್ತಾಧಿಗಳ ಹರ್ಷೋಲ್ಲಾಸ ತಲುಪುವುದು ಅಂಬರ,
ನಮ್ಮ ಮೈಸೂರಿನ ಸಂಸ್ಕೃತಿಯೇ ಅತೀ ಸುಂದರ,
ಸಾಕ್ಷಿಯಾಗಲು ಬರುವುದು ಜನಗಳ ಸಾಗರ...

ಕನ್ನಡ ಭಾಷೆ

ಕೋಟ್ಯಾಂತರ ಜನರ ಭಾವನೆಗಳು,
ಲಕ್ಷಾಂತರ ಸಂಭಾಷಣೆಗಳು,
ಸಾವಿರಾರು ಕೃತಿಗಳು,
ನೂರಾರು ಕವಿಗಳು,
ಹಲವಾರು ಪುರಸ್ಕಾರಗಳು,
ಕೇವಲ ೪೯ ಅಕ್ಷರಗಳು,
೮ ಜ್ಞಾನಪೀಠ ಪ್ರಶಸ್ತಿಗಳು,
ಆದರೇ ಒಂದೇ ಭಾಷೆ,
ನಮ್ಮ ಹೆಮ್ಮೆಯ ಮಾತೃಭಾಷೆ
"ಕನ್ನಡ".....

ಜೀವನ

ಜಗವೆಂಬ ರಂಗಭೂಮಿಯಲ್ಲಿ,
"ನಿನ್ನ ಜೀವನ"ವೇ ಒಂದು ನಾಟಕ,
ಅದರಲ್ಲಿ ನೀನೊಬ್ಬ ಪಾತ್ರದಾರಕ,
ಪ್ರತಿಯೊಂದು ದೃಶ್ಯದಲ್ಲೂ ಸಣ್ಣದ್ದೋ-ದೊಡ್ಡದ್ದೋ
ನಿನ್ನ ಪಾತ್ರ ಅತ್ಯಾವಶ್ಯಕ,
ಪಾತ್ರಕ್ಕೆ ನ್ಯಾಯ ಸಲ್ಲಿಸಿದಾಗ ಜೀವನ ಸಾರ್ಥಕ,
ಈ ಸಮಾಜದಲ್ಲಿ ನೀನಾಗುವೇ ಒಬ್ಬ ಸಾಧಕ...

ದೇಶದ ಬೆನ್ನೆಲುಬು

ರೈತ ಹಿಡಿಯದೆ ಹೋದರೆ ನೇಗಿಲು,
ನಮಗೆ ಸಿಗುವುದೇ ಅಕ್ಕಿ ಬೇಯಿಸಲು?
ಹಾಗಾಗಿ ದೇಶದಲ್ಲಿ ಮೊದಲ ಆದ್ಯತೆ,
ರೈತರಿಗೆ ಸಿಗಬೇಕು, ಗೌರವ ಸಲ್ಲಿಸಲು!
ಆಗಷ್ಟೇ ಸಾಧ್ಯ ನಮ್ಮ ದೇಶ ಇನ್ನಷ್ಟು
ಮುಂದುವರಿಯಲು....

ಭದ್ರ ಸಂಬಂಧ

ಮುಗಿಯಲಾರದಷ್ಟು ಮಾತುಕತೆ,
ಎಣಿಸಲಾರದಷ್ಟು ಮುನಿಸು,
ಬಗೆಹರಿಸಲಾರದಷ್ಟು ಜಗಳಗಳು,
ಊಹಿಸಲಾರದಷ್ಟು ಹೊಂದಾಣಿಕೆ,
ಹೇಳಲಾರದಷ್ಟು ಆತ್ಮೀಯತೆ,
ಮರೆಯಲಾರದಷ್ಟು ನೆನಪುಗಳು,
ಬೆಲೆಕಟ್ಟಲಾರದಷ್ಟು ನಂಬಿಕೆ,
ವರ್ಣಿಸಲಾರದಷ್ಟು ಪ್ರೀತಿ,
ಒಂದು ಬಿಡಿಸಲಾರದ ಭದ್ರ
"ಸಂಬಂಧ"...

ಸೂರ್ಯನ ಕಿರಣ

ಸೂರ್ಯನ ಕಿರಣಗಳು,
ಆಕಾಶವನ್ನು ರಂಗೇರಿಸಿ,
ಭೂಮಿಯನ್ನು ಸ್ಪರ್ಶಿಸಿ,
ಮಂಜನ್ನು ಕರಗಿಸಿ,
ಇಬ್ಬನಿಯನ್ನು ಹೊಳೆಸಿ,
ಮೊಗ್ಗನ್ನು ಅರಳಿಸಿ,
ಎಲೆಗಳನ್ನು ಚುಂಬಿಸಿ,
ಮರಗಳನ್ನು ಆಲಂಗಿಸಿ,
ಪಶು - ಪಕ್ಷಿಗಳನ್ನು ಸಕ್ರಿಯಗೊಳಿಸಿ,
ಮನುಷ್ಯರನ್ನು ಎಚ್ಚರಗೊಳಿಸಿ,
ಇಡೀ ಜಗವನ್ನೇ ಬೆಳಗಿಸುತ್ತದೆ.....

Prerana H.
1BY19CS111
4th Sem B Section

Aishwarya M.

Every person who reads a book which is written by the same author, still perceives the same plot in numerous different ways which makes us realize that ~ *No matter what is said or how it is said, one only receives it as he discerns it.*

"A samurai is found dead in a quiet bamboo grove!" Each one of the crime's only known witnesses narrate their account of the events that occurred. But as they each tell their tale, it becomes clear that every testimony occurs to be credible, yet distinct. Thus, making each witness a potential suspect themselves.

This is the premise of "In a Grove," a short story published in the early 1920s by Japanese author Ryūnosuke Akutagawa. Though many people are aware of this tale of conflicting perspectives by a different name: "Rashomon."

The Rashomon effect describes an instance wherein individuals give significantly contrasting but fairly plausible accounts of the exact same event. Often used to highlight the inconsistency of eyewitnesses, the Rashomon effect generally happens under two specific conditions. The first being the lack of evidence to prove what really happened and then there's pressure to close the case within a given time frame, often provided by an authority figure trying to identify the definitive truth.

Neuroscientists have found that whenever a memory is being created by us, our interpretation of visual information is influenced greatly by our past experiences and internal biases. Some of these biases are unique to individuals, but others are more universal. For example, egocentric bias can influence people to subconsciously reshape their memories in ways that shed a positive light on their actions. Even if we were able to encode a memory accurately, recalling it incorporates new information that changes the memory. And when we later recall that event, we typically remember the embellished memory instead of the original experience.

Personal backgrounds of an individual can have an impact on the individual's perception. In one famous case, two anthropologists visited the Mexican village of Tepoztlan. The first researcher described life in the town as happy and contented, while the second recorded residents as paranoid and disgruntled.

Multiple statements, as a result of the Rashomon effect, have turned to be false accusations or rumors, as the information passed on from one person to the next, the perception and biases of each person compelled them to modify details that they considered relatively insignificant. Eventually, I saw a dream of Actress XYZ having a baby turned into Actress XYZ was secretly having an affair and is now having a baby! In no time, altering subtle details in the story can change the entire crux of the plot.

It's tempting to reach a common conclusion as to why no two individuals have a common perception and more so why we have competing perceptions to the exact same occurrence, but perhaps the more important question the Rashomon effect raises is, what is truth anyway? Are there situations when an "objective truth" doesn't exist? What can different versions of the same event tell us about the time, place and people involved? And how can we make group decisions if we're all working with different information, backgrounds, and biases? Like most questions, these don't have a definitive answer. But the enduring importance of Akutagawa's story suggests there may be value in embracing the ambiguity.

- by **Aishwarya M.**
USN - 1BY15CV030
(2015 – 19)

Renuka C T

MY DREAM
There was a garden
Which had lots to see
There lived with pardon
A small little bee
In the garden when I go
I see bee moving to and fro
I find it busy finding nector to make honey
As i find my father working to make money
Garden was full of flowers and trees
Was as beautiful as ocean and seas
I wanted to make friendship with bee
But huge water splash on my face I could see
Then my mom shout out with scream
I was put out from my dream
I felt I was happy lying in the bed
Whether I was alive or fully dead

A TREE
A Tree is a friend of us from birth to death
But we are so cruel we last ourselves taking
its last breath
A man can just break the trunk of a tree
He is never bothered and take it for free
Atleast try to save plants which are small
It will help in future so try to do with all
Try to start with your tiny hand

Lets do it and make others to do with silence
not with a band
Youth of future may loose opportunity to enjoy
It may be a girl or a boy
A tree may not ask you anything
It has given not only one but many things
 Man can end his life in the shadow of a tree
Tree has seen your youth and even death it
can see
Life of man ends by putting log on fire
Which is also a part of tree and still it is not
tired
Try to save trees as much as you can
Because we don't know when will our life end
Now is our responsibility to not to act or
pretend
Because your not a child and have a mind
which is already grown

LOVE
Love is not melody sung by two
It is common which every man can do
It can start from mother to child
But it us not thing which will ever end

It can be story which is never told
But it is not a thing which can be sold
It us sweet memory which remains in our
mind
Some may search and some may never find

We can't imagine when does it start
And it is not only present in mind but also in
heart
Love for country let it grow
Let it be constant not to and fro

- by **Renuka C T**
CV

Varsha G

MY MOTHER

She is my best gift,
who is so very sweet ,
She is the one who bore me ,
so very caring,
Always sharing

To describe her is really very hard !
The one with long hair , so very fair ,
And charming look ,
And warming touch

My childhood spent in her arms ,
with all her warmth
I know the trouble she took ,
To read my school book .....
she toiled for me,
To make me as me !

She cooks deliciously !
She works miraculously !
She mets her eyes with tears,
To make me free of fears,
She is an emotional lift,
and mind chiller,
and mood lifter,
and friend in need,
& friend in deed

She is my dearest
and owe my gratitude to her
My mother, my all
My mother !!
I love you **" MOM** "

GOD MADE TEACHERS

When God created teachers,
he gave us special friends
to understand his world
and truly comprehend
The beauty and the wonder
of everything we see,
and become a better person,
with each discovery
when God created teachers,
He gave us special guides,

to show us ways in which we grow,
So we can all decide
How to live and how do ?
What's right what's of wrong !

Why did God create teachers?
God understood our thirst for
Knowledge, and our need to be
led by someone wiser.......

In the hands of gifted teachers
The classroom is a magical place,
In the hands of a gifted teacher
there is a smile on each child's face.

LOVE & ANGER HAVE NO LIMITS...........!!!

A man was polishing his car, his four year old
son scratched lines on car by stone !!
In anger, man hit hammer on son's hand, child
lost all fingers !!!
Child " Dad when will my fingers grow back ? "
Man was hurt and speechless !!!
He went back, kicked car and see what child
had written.........!!
He had written
" Love you Dad "
Thereby man committed suicide....
Love and Anger have no limits !!
So, I request all of you "Please be aware,
Think before you act".
Always remember
**" Things are to be used and
           People are to be loved "**

THERE ARE ANGELS GOD PUTS ON THIS EARTH

Who care for us and guide us
You can feel their love and gentleness
As they walk through life beside us.
They do great things for us everyday
They whisper in our ears,
They even hold us in their hearts
When we are filled with all our fears...
They are always there to give a hug
and try to make us smile,
They treat us with respect and love.
God blessed me with an Angel,
Iam proud to call my own
She's been with me throughout my life , with me
as I've grown.
She's guided me the best she can,
She's taught me like no other,
and I'm thankful I'm the lucky one
who get's to call her............
         Mother ...!!!

- by **Varsha G**
  1BY19CV043

Making Your Own Opportunities

Narmada D

University is a moment in your life when you have the opportunity to experience it to the fullest. Everyone is brimming with vigour and zeal. It's easy to call it the most memorable period of your life. University leaves you with memories that will last until you die, and the fires will never extinguish. Aside from all of the excitement, the frightening part is studying, which is necessary to become an Engineer. All students worked hard from the beginning to the end to further their professions. Students from all backgrounds come to the event with a specific goal in mind. You will have to work under pressure at times owing to your workload, but you will undoubtedly emerge as a polished Engineer in the end.

Every student appears to be concerned about employment chances in the market during their final year and to be actively considering how to advance in their careers. In whatever field a student is studying, this is a critical period in his or her life. Everyone begins by attempting to obtain employment with one of the country's greatest and most recognized firms, but only a few succeed. Many individuals travel to other countries for further education, and some of them are unable to find work that satisfies their requirements. Because they have established expectations for accomplishing their work, this causes despair. So, what steps should be taken in such a situation?

In such situations, one should never give up and must be self-reliant in order to tackle whatever challenges life throws at them. Rather of sitting idle, it is a good idea to begin your career with a local company. Although it is likely that the income and perks would fall short of your expectations, doing nothing would reflect poorly on your resume. Start your employment at any degree of responsibility, no matter how little. Prove your skill over time, and you'll be trusted with assignments with more significance and more responsibility.

Spending time with that local company and gaining experience there is highly encouraged. Also, apply somewhere else where you'd like to work. With the passage of time, you will gain experience in your area. You will undoubtedly find a career that meets your qualifications one day. Because there is no such thing as a border for success, your education and experience will help you get to your chosen goal.

Finally, I must state that learning is critical for us to obtain information, and that learning should never end in a person's life. The most essential thing is that we must be committed to learning, discovering, educating, and contributing to ourselves and society. As long as we have resolve, opportunities will present themselves in any situation. It all depends on us so **"Be the one to make your own opportunities".**

- by **Narmada D**
USN: 1BY17CV031
Batch: 2017-2021

Fahad Iqbal

जब सर से भक्ति उतरेगी
तो सरकार बदल दी जाएगी
तुम सच को सच ना लिखोगे
तो अख़बार बदल दी जाएगी
तुम साल बदलने से खुश हो
मैं हाल बदलने की सोचूं
गर यूंही रहा आलम ऐसा
तो किरदार बदल दी जाएगी
हम कैसे गिनाए नाकामी
तुम किस जीत की बात करोगे
सड़को पर किसान है बैठा
कौन से अन्नदाता से फरयाद करोगे
जब जुल्म बढ़ेगा हद से ज़्यादा
तो ज़ालिम की औकात बदल दी जाएगी
सब सर से भक्ति उतरेगी
तो सरकार बदल दी जाएगी

⚬

हर मंजिल सफर करती है
ग़म अक़्सर दिलों में घर करती है
टूट कर बिखरो तो पता चलता है
ज़िन्दगी कैसे बसर करती है
सुना है बहुत दूर जाकर संभलती है ज़िन्दगी
संभलने तक सबको दर गुजर करती है
हर मंजिल सफर करती है
थका कर भी चलती रही मुझको
चीख निकली तो दबाती रही उसको
कहने ना दिया कि टूटा हूं मैं
आंसू गिरने तक डराती रही मुझको
तनहा हर रास्ते को तय करती है
हर मंजिल सफर करती है।।

⚬

निकल पड़ा हूं ज़िन्दगी की उस गली से
जहां पर दम घुट घुट के रोया करते है, सोया करते है
जहां तन्हाइयों का सैलाब रहता है, जो हर बात कहता है
जहां हर झूट की तारीफ होती है
सच्चाई ऐसी जगह कहां तामीर होती है
जहां तकलीफ के सैलाब में भी हर बात पर मुस्कुराया
करते हैं, ग़म छुपाया करते हैं
जहां आवाज़ की सिस्कन को अपनी मुस्कुराहट से दबाया
करते है, खुद को समझाया करते है
पर फ़िर भी नज़रे झुकाके हम भगोया नहीं करते,
हम वहां पर भी रोया नहीं करते।।

⚬

ये उदास शाम
ये अंधेरी रात
ये हवाएं किसके ख़िलाफ़ हैं
हम ग़म को ग़म से धो रहे
ये दिलों कि कैसी मुराद है

⚬

मोहब्बतों के शहर में कोई तो ठिकाना मिलता।
झूता ही सही कोई तो दीवाना मिलता।।
मेरा सब्र ऊरुज पर है अब नहीं होता मुझसे।
जुदाई का ऐसा भी कोई बहाना मिलता।।

⚬

उससे मोहब्बत भी की
और कुछ दर्द भी दिया
वो फ़िक्र में थी मेरे
और मैंने बेक़रार रहने दिया
वो पास तो नहीं थी
मगर आस पास थी
ये सोचकर मैंने
अपने ग़मो को आबाद रहने दिया
वो खयाल रखना चाहती थी
मगर गुस्से में था मैं
इस हरकत की वजह से
खुदको बर्बाद रहने दिया
पर एहसास ग़लती का जो अब हो रहा
उस दूर जाता देख दिल तो रहा
जो मैंने मुआफी मांगनी चाहि
नज़रे फेर ली उसने
और मुझे कफ़्फ़ारे के साथ रहने दिया

⚬

- by **Fahad Iqbal**
USN: 1BY20CV011
Batch: 2020-2024

Dreams of Infinity

Shubhashree G R

"Dreams have the power to change the world".
"Dreams define Destiny".

We all dream. They say, "dream big." Yes, we do. We follow different path to achieve it that makes us different from all others.

While we sleep, our subconscious mind continues to work on problems our conscious mind has failed to solve.

"The future belongs to those who believe in the beauty of their dreams." We have many examples who lit their path by following their dreams.

Dmitri Mendeleev, Alfred Russel Wallace, August Kekule, Rene Descartes, Otto Loewi, Louis Agassiz, Neil Bohr, Albert Einstein and many other worked on their dreams and succeeded in their discoveries.

Here is a story of a bright boy, born in a poor family of Erode, Tamil Nadu and now known as a famous mathematician. The Hindu goddess NAMAGIRI- who appeared in his mother's dream telling her to allow him to go to Cambridge-had appeared in one of his dreams. Namagiri would appear in his dreams, showing him mathematical proofs, which write down when he awoke. He described one of his dreams as follows:

"While asleep, I had an unusual experience. There was a red screen formed by flowing blood, as it were. I was observing it. Suddenly a hand began to write on the screen. I became all attention. That hand wrote a number of elliptic integrals. They stuck to my mind. As soon as woke up, I committed them to writing. He's the one who knew infinity, who credited his 39000 formulae- Srinivasa Ramanujan.

The subconscious mind is so powerful. Provided the conscious mind absorbs plenty of data while awake, the subconscious mind can process and make sense of data while asleep. Some of the greatest scientific discoveries in history are testament to importance of sleep and dreams in the operation of our minds. Your dreams are your future inventions. You alone can achieve it. Never give up.

- by **Shubhashree G R**
USN: 1BY17CV052
Batch: 2017-2021

Patience

Desiring to have Stoicism
Never mind time passes
Brightness flourishes
Goofs turn into lessons
Moments stand as memories
Every loss will recompense
Pain turns to Ecstasy...

-by **Suchetha P. B.**
1BY20EC168
ECE 2nd semester

Ambushed by darkness
Leading to torment
Obliviously saying yes
To cognitive impairment
Robustness turning to weakness

Tracks or Trees

A colonnade of lush green trees stood tall and proud against the blue sky on either side of the railway track. They seemed to have seen it all, the beginning and end of generations, the rise and expansion of buildings. The giants spread their branches across the sky and into the light as far as they could. Sometimes, the branches touched the electrification lines. These branches had to be pruned off to protect the overhead lines. Some barks were thick and rough, some craggy and some beautifully smooth with different shades of brown. The roots sprawled and twisted in the earth as if there was no end. Few trains halted in the station and few continued with their journey. Passengers in the halted train had time to observe the greenery and the antics of the monkeys. People travelling by the Express trains missed the scenery and the liveliness of the station as the train passed the green cave in a jiffy. The trees housed a troop of monkeys, different species of birds and a variety of insects. The gentle breeze whistled through the leaves and made a few branches bob. People gathered in the station for their evening walk-and-talk, they strolled along the stretch of the platform sharing their stories, few folks sat under the shade of the tree and enjoyed the sound of the birds and the smell of the trees. Children ran along the length of the platform waving their hands at the passing trains and happily spotted monkeys jumping from tree to tree.
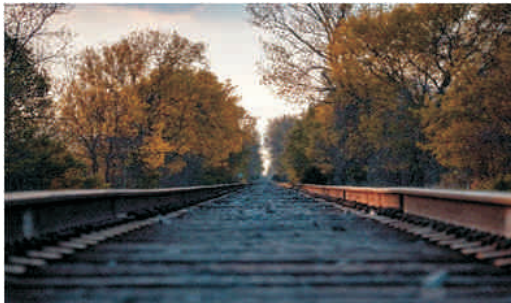
The station was a hang out spot for the monkeys, no one knew if the place belonged to them or they moved here because of urbanization. The monkeys were constantly on the lookout for food. The minute they encountered someone with food or a packet in their hand, they sprung from branch to branch, snatched the edibles and fled. To boost the infrastructure and the loading capacity of the freight train movement, a second track had to be laid. The huge trees stood in the way of doubling the track. The trees that once stood tall and proud were now axed, felled and taken away. The birds flew away to find a new shelter and the monkeys created chaos by entering nearby homes. After a few days, the monkeys disappeared. Some said that they went to the nearby town and some said they boarded a train in search of a new greener space. A few years later a new track and a platform was laid in the place of the vibrant trees. A colonnade of Sakura trees was planted towards the end of the platform to compensate for the lost trees. The cherry blossom tree is a beauty to admire, but it housed no monkeys and held no green. The trees that were charged with wonder and housed millions of stories became a faint memory in a matter of months.

"Ancient trees are precious. There is little else on Earth that plays host to such a rich community of life within a single living organism"
- Sir David Attenborough

-by **Nannapaneni Kavya**
1BY17EC103,
ECE 8th semester B section

ಮಾಯಾಲೋಕದ ಬದುಕು:

Gangappa

ಹಾಳೆಗಳು ಬರೆಯೋಕೆ ಪೆನ್ನುಗಳು, ಮನದಲ್ಲಿ ನೂರಾರು ವಿಚಾರಗಳು.
ಹಾಸ್ಯಗಳು ಚುಟುಕುಗಳು, ಏನು ಬರೆಯಬೇಕೆಂಬ ಚಿಂತೆಗಳು.
ತಲೆ ಕೆರಕೊಂಡರೆ ಬರೀ ಹೇನುಗಳು, ಕಾಡುವ ನೆನಪುಗಳು.
ನಾ ಬರೆಯುತಿರೂ ಸಾಲುಗಳು, ಇಗೋ ಬರುತಿದೆ ಒಂದೊಂದು ಶಬ್ದಗಳು.

ಹುಟ್ಟು ಸಾವುಗಳು, ಮಧ್ಯದಲ್ಲಿ ಕೊರಗೋ ಜೀವಗಳು.
ಮಕ್ಕಳ ನಲಿವುಗಳು, ಪ್ರೇಮಿಗಳ ನೋವುಗಳು.
ಆಸೆಗಳು ನಿರಾಸೆಗಳು, ಮುಗಿಯದ ಕನಸುಗಳು.
ತಿನ್ನುವುದಕ್ಕೆ ಇರುವ ಜೀವಗಳು, ತಿನ್ನಲಿಕ್ಕಿಲ್ಲದಿರುವವರ ಆತ್ಮಹತ್ಯೆಗಳು.

ಮನೆ ಬಿಲ್ಡಿಂಗ್ ಬಂಗಲೆಗಳು, ಹೆಚ್ಚುತ್ತಿರುವ ಜನಸಂಖ್ಯೆಗಳು.
ಬಿಯರ್ ಬಾರ್ ಸಾರಾಯಿ ಅಂಗಡಿಗಳು, ಹಾಳಾಗ್ತಿರೋ ಹುಚ್ಚು ಹೃದಯಗಳು.
ಬಿಗ್ ಬಾಜಾರ್ ರಿಲಯನ್ಸ್ ಫ್ರೇಶಗಳು, ಅಪ್ಪ ಅಮ್ಮ ಬಿಟ್ಟು ಎಲ್ಲ ಸಿಗೋ ಅಂಗಡಿಗಳು.
ಹೊಟ್ಟೆ ಕೆಡಿಸೋ ಫಾಸ್ಟ್ ಫುಡ್‍ಗಲು, ಹಾಳಾಗ್ತಿರೋ ಜಮಾನಾಗಳು.

ಹಳ್ಳಿ ಪಟ್ಟಣಗಳು, ಜನರ ಜಂಜಾಟಗಳು.
ಎಮ್ಮೆ ಕೋಣ ಎತ್ತುಗಳು, ಕಾರು ಬೈಕು ರಿಕ್ಷಾಗಳು.
ಹಳ್ಳಿ ಸೋಬಗುಗಳು, ಪಟ್ಟಣದ ಬೆರಗುಗಳು.
ಶುದ್ಧ ಗಾಳಿಯ ಸುಂದರ ಪರಿಸರಗಳು, ಸಾವಿರಾರು ಗಾಡಿಗಳು ಟ್ರಾಫಿಕ್ ರೂಲ್ಸಗಳು.

ಊರ ತುಂಬಾ ದೇವಸ್ಥಾನಗಳು, ಸಾವಿರಾರು ಚಪ್ಪಲಿಗಳು.
ಮಂತ್ರ ಹೇಳೋ ಬಾಯಿಗಳು, ಘಂಟೆ ಅಲುಗಿಸೋ ಕೈಗಳು.
ಚಿಲ್ಲರೆ ಕಾಸುಗಳು, ಹರಿದ ನೋಟುಗಳು.
ಚಪ್ಪಲ್ ಕಡಿಯೋ ಕಳ್ಳರು, ಭಿಕ್ಷೆ ಬೇಡೋ ಭಿಕಾರಿಗಳು.

ಕಾರುಗಳೂ ಬೈಕುಗಳು, ಮುಗಿಯದ ಟ್ರಾಫಿಕ್ ಜಾಮ್‍ಗಳು.
ಬೆಟ್ಟ ಗುಡ್ಡಗಳು, ನದಿಗಳು ಜಲಪಾತಗಳು.

ಹಸಿರು ಕಾನನಗಳು, ತುಂಬಾ ಕಾಡು ಪ್ರಾಣಿಗಳು.
ಬಣ್ಣ ಬಣ್ಣದ ಚಿಟ್ಟೆಗಳು, ಹಾರಾಡೋ ಪಕ್ಷಿಗಳು.

ಇಂಜಿನಿಯರಿಂಗ್ ಮೆಡಿಕಲ್ ಕಾಲೇಜ್‍ಗಳು, ಮಕ್ಕಳಿಲ್ಲದ ಕ್ಲಾಸ್ ರೂಮುಗಳು.
ತುಂಬಿರೊ ಕ್ಯಾಂಟೀನುಗಳು, ಪಾರ್ಕ್ ಬೆಂಚುಗಳು.
ಕಿಟಲೆ ಮಾಡೋ ಹುಡುಗಳು, ಸ್ಟೈಲ್ ಮಾಡೋಕೆ ಬೈಕುಗಳು.
ಲವ್ ಮಾಡೋ ಹಾರ್ಟ್‍ಗಳು, ನೋವ್ರು ಅನುಭವಿಸೋ ಮನಸುಗಳು.

ಬಣ್ಣ ಬಣ್ಣದ ಬೆಡಗಿಯರು, ಹಿಂದೆ ಬೀಳುವ ಪಡೆ ಜೀವಗಳು.
ಟಿ ಶರ್ಟ್ ಟೈಟ್ ಪ್ಯಾಂಟ್‍ಗಳು, ಅರ್ಧ ಬ್ಲೌಸ್ ಗಳು ಸಾರಿಗಳು.
ತುಂಬಿ ತುಳುಕುವ ಪಾರ್ಕುಗಳು, ಕಾಫಿ ಶಾಪ್ ಥಿಯೇಟರ್‍ಗಳು.
ಸುತ್ತಾಡಲು ಬೈಕುಗಳು, ದಿನಾ ಚೇಂಜ್ ಆಗೋ ಏಟಂಗಳು.

ಸಾಹಿತಿ ಲೇಖಕರು ಕವಿಗಳೂ, ದಿನವೂ ಪ್ರಕಟವಾಗೋ ಹೊಸ ಪುಸ್ತಕಗಳು.
ಲೇಖನಗಳು ಕವನ ಕಾದಂಬರಿಗಳು, ಜನವಿಲ್ಲದ ಗ್ರಂಥಾಲಯಗಳು.
ಅಣ್ಣಾ ಮಾಡುವ ಉಪೋಷಣಗಳು, ಟೋಪಿ ಹಾಕ್ಕೊಂಡು ಕೂಗಾಡೋ ಜನಗಳು. ಭ್ರಷ್ಟ ಮಂತ್ರಿಗಳು ಅಧಿಕಾರಿಗಳು, ಯಾವಾಗ ಬರುವುದೋ ಲೋಕಪಾಲ್ ಬಿಲ್ಲುಗಳು.

ಹೆಚ್ಚುತ್ತಿರೋ ಹಾರ್ಟ್ ಪೇಷೆಂಟ್‍ಗಳು, ದುಡ್ಡು ಎಳೆಯೋ ಹೋಸ್ಟಿಟಲ್‍ಗಳು.
ನರ್ಸುಗಳು ಸ್ಪೆಷಲಿಸ್ಟ್ ಡಾಕ್ಟರುಗಳು, ಮುಟ್ಟಿದರೆ ಕಾಸು ಕೇಳೋ ದೈತ್ಯಗಳು.
ಜ್ವರ ಕೆಮ್ಮ ಭಂಡಿಗಳು, ಬಣ್ಣ ಬಣ್ಣದ ಗುಳಿಗೆಗಳು.
ಮದುವೆ ಇಲ್ಲದೆ ಪ್ರೆಗ್ನೆಂಟ್ ಆಗೋ ಜೀವಗಳು, ಗರ್ಭ ನಿರೊಧಕ ಮಾತ್ರೆಗಳು.

ಓ.ವಿ ಕಂಪ್ಯೂಟರ್‍ಗಳು, ಮೊಬೈಲ್ ಎಸ್ ಎಂ ಎಸ್ಸುಗಳು.
ಅರ್ಥವಿಲ್ಲದ ಮೆಸ್ಸೇಜಗಳು, ಚಾಟಿಂಗ್ ಮಾಡೋ ಜೀವಗಳು.
ಪ್ರೇಮಕ್ಕೆ ಲವ್ ಪಾಯಿಂಟುಗಳು, ಸಾಯೋಕೆ ಸುಸೈಡ್ ಪಾಯಿಂಟುಗಳು.
ಹಾಳಾದ ಹಾರ್ಟ್‍ಗಳು, ಮತ್ತೆ ಹುಟ್ಟೋ ಪ್ರಿತಿಗಳು.

ಸಾವಿರಾರು ಅಂತರ್ಜಾಲ ಪುಟಗಳು, facebook twitter ಗಳು.
ಟೈಮ್‍ವೇಸ್ಟ್ ಮಾಡೋ ಜನಗಳು, ದುಡ್ಡು ಮಾಡೋ ಕಂಪನಿಗಳು.
ನೂರಾರು ಪೋಸ್ಟುಗಳು, ಪೋಕ್ ಲೈಕ್ ಕಾಮೆಂಟುಗಳು.
ಚಿತ್ರಗಳು ಹಾಡುಗಳು ವೀಡಿಯೋಗಳು, ದಿನವಿಡೀ ಡೌನ್‍ಲೋಡ್‍ಗಳು.

-by **Gangappa**
EEE, 8th Sem

ನೀರು ಮುಟ್ಟದ ಕೋತಿ

ನೀರು ಮುಟ್ಟದ ಕೋತಿಯೊಂದು
ಮೀನಿಗೀಜು ಕಲಿಸಲು ಬಂದಿತು
ಕಾಲು ಜಾರಿ ನೀರಿಗುರುಳಿ
ಜೀವ ಉಳೀಸಲು ಕೂಗಿತು

ಕೋತಿ ಜೀವ ಉಳೀಸಲೆಂದು
ಹಿರಿಯ ಮೀನು ಕರೆಯಿತು
ಎಲ್ಲ ಮೀನು ದಡಕೆ ನೂಕಿ
ಕೋತಿ ಜೀವ ಉಳಿಯಿತು

ಜಂಭ ಬಿಡದ ಕೋತಿ ಎದ್ದು
ಸೊಕ್ಕಿನಿಂದ ಹೆಳಿತು
ನಾನು ಜಾರಿದೆನೆಂದು ನಿಮಗೆ
ಈಜಲಿಂದು ತಿಳಿಯಿತು

ಕೋತಿ ಮಾತನು ಕೆಳಿ
ಎಲ್ಲ ಮೀನು ನಕ್ಕಿತು
ಕೋತಿ ತಾನೆ ಶ್ರೇಷ್ಠನೆಂದು ಬೀಗಿ
ಅಲ್ಲಿಂದ ಹೊರಟಿತು.

– ಪ್ರೊ. ನಾಗರಾಜ ಚೊಹಾಲಿ
ಸಹಾಯಕ ಪ್ರಾಧ್ಯಾಪಕರು
ವಿದ್ಯುತ್ ಮತ್ತು ವಿದ್ಯುನ್ಮಾನ ವಿಭಾಗ

ಮೂಢ

ವರುಷ ಹೊಯಿತು ಹರುಷ ಸೋರಿತು
ಮಾಡಿತು ಕಾಣದ ಜೀವಿಯು ನರ್ತನ
ಬಾಡಿ ಹೊಯಿತು ಕನಸ ಕುಸುಮ
ಆಯಿತು ಜೀವನ ದರ್ಶನ

ದುಡಿದ ಊರು ಮಡಿಲ ಕೊಡದೆ
ದೂಕಿತು ನಿನ್ನನು ದೂರವ
ಹಡೆದ ಊರು ಉಸಿರ ಹಿಡಿದು
ಕಾಯಿತು ದಾರಿ ನೀ ಬರುವ

ತುತ್ತು ಅನ್ನಕೆ ಗತಿಯ ಕೆಟ್ಟು
ಸೋತ ಜೀವವು ನಿಂತಿತು
ಗುರುತು ಇಲ್ಲದ ಕೈಯ ನಿನ್ನ
ಹಸಿವು ನೀಗಿಸಿ ನಡೆಯಿತು

ನಾನು–ನನ್ನದೇ–ನನ್ನಿಂದ ಎನುತ
ಸೊಕ್ಕು ಮೆರೆದೆ ಮಾನವ
ಕಾಲ ನಿನ್ನ ಕಾಲ ಎಳೆಯಿತು
ಕೆಡವಿ ನಿನ್ನ ಮೂಢವ.

When In Doubt...

One of the days you know, that all the art and beauty in this world is not going to save you.

You are going to wake up and your heart will be beating for all the wrong reasons.

With life seeping out of your finger tips and strangers asking you if you are okay
………if you ever will be.

And if one more person asks, if you are okay. You swear…..you wont be.

No matter how many times you pull at this door, it is not going to open because right
in front of your blinded eyes in capital letters, its written **"PUSH".**

What happened to all the songs you wanted to sing, all the moves you wanted to master, and all the art you are meant to create.
What happened to witnessing your siblings' laughter, your best friend's warm shoulder, your mother's happy tears and your father's pat on the head.

On the days you know, that all the art and beauty in this world is not going to save you.

You just want to rip your chest and throw your heart out
BUT STOP…
HOLD ON…

Because someone somewhere feels the same.
You just have to realize that you aren't alone.

Why is there a need for permanent solution to a temporary problem.
Realize that Death isn't the greatest loss, the greatest loss is what dies inside when you are still alive.

We can always and always start over…
 Every time you feel like giving up, remember why you held on for so long.
Because it is always too early to quit.

Lets all move forward to being what we wish to see in this world.

Because in the end,
It takes more courage to live, than kill oneself.

- by **Mansi Lohitashwa**
ETE, 2ND SEM.

Safarnama - Devarayana Durga Hills (DD Hills)

Abhinav Sharma

The ride started on a new route. I have never gone on the Bangalore-Mumbai Highway. This road was rough until joining the main highway, but once there, it was smooth and wide open. Maintained a good pace of 100-110 kmph and covered quite a lot of distance before sunrise. As soon as I got out of the city limits, the temperature drastically dropped. Then, I wished that I was carrying my thermal liner. I had never expected the temperature to fall that low. Probably it could be the wind hitting at that speed that caused this effect; it felt very chilly.

As I exited the national highway, I noticed a spot along the side of the road with trees on both sides that would make a perfect backdrop for a photograph. I was back in the saddle after a few photos and stretching exercises. I shot a video of myself riding on the twisty roads with the front-facing camera. The views became very scenic after deviating from the state highway onto the Devarayanadurga Road. I had planned to stop by a small lake en route to the hills before proceeding to the destination. The lake is known as Devarayana Lake, and it is unique because it is surrounded by a forest. I had to go down the road, and after some off-roading, I arrived at the lakeshore. I got some great shots and also made my first cinematic film. With each kilometer that I rode, the route became better. There was one stretch of road that I did not expect to be so fantastic. It was as if I were riding through to the mountains.

Then came the twisting roads that led to the DD Hills. Because of the board with animal signs on it, I assumed it was a state forest. The view was breathtaking. Clouds hung low over the hills. Their peaks could be seen piercing through the clouds. I imagined how it would feel to be so up high on those hills. Because of the hairpin bends and patchy lane, reaching the top required a lot of focus. There was no protective fencing on the roads, so there was no way of surviving if something went wrong. This concentration is referred to as meditation by motorcyclists. When the engine is revving, you are leaning into corners, concentrating on the road ahead.

When I got to the peak, there was a group of guys taking photographs with one another. I was pleased to get a few photos of the motorcycle and myself, thanks to them. This viewpoint is not well-known in DD Hills. It was merely one of them. The actual point is a rock where riders push their motorcycles to the end of the ledge and snap photographs. I looked for that spot but could not locate it. I even asked a few locals about it, but they said it was off-limits to tourists. It added to the attractiveness of the viewpoint. I went down near the temple and searched the area around it in my last attempt. I was fortunate enough to come across a small trail that I had previously seen in a YouTube video. This time it was accessible.

It is times like these that I am thankful for the adventure motorcycle I have chosen. The Himalayan glided over the rough patch like a breeze, even though the path was difficult to ascend by foot. I did not expect the view from the top to be so spectacular. Right before the viewpoint, two trees seemed to be a doorway to heaven. The scenery was breathtaking. I stood there for ten minutes, thinking about how fortunate I am to be in a position to go on such adventures and thanking God for everything. Then Avicii's song started playing, the lines "One day you'll leave this world behind, So live a life you will remember." and that gave me goosebumps. My stomach then grumbled because I had not eaten since the morning. I had carried a couple of ladoos with me that I planned on eating there.

Fortunately, another guy had reached there on his bullet. He approached me and asked if I could photograph him with his motorcycle, which I agreed to. He took his motorcycle up to the cliff's edge and sat there, his feet dangling over the edge. I was terrified just seeing what he was doing. The distinction between courage and stupidity is razor-thin. A few likes, in my opinion, are not worth losing one's life or their beloved motorcycle. I then asked him to take a picture of me as well. I avoided the ledge because I wanted to go on more adventures. If Mummy ever sees me doing such stuff, she will take away my keys and refuse to let me go on rides.

I decided to leave after taking in a little more of the scenery because the temperature was

climbing, and I didn't want to be out in the heat for prolonged periods. Since the ladoos had filled me up, I skipped breakfast and went straight home. I was very sluggish on the way back, and the highway had very few places to stop for refreshments, and they were all shady. I couldn't ride and had a few near-misses as well. So I came to a halt and cleaned my face with the wet wipes I always have with me on my journeys. It is part of a survival kit that I put together, and it always stays in the top box. Since there was less traffic, I arrived home relatively early. It was, after all, a weekday.

To many more rides…………….

- by **Abhinav Sharma**
ISE, 6th sem A Section
1BY18IS001

Tejaswini

Why Me?

If you have to ask *Why me?*
When you're feeling really blue,
When the world has turned against you
And you don't know what to do,
When it pours colossal raindrops
And the road's a winding mess,
And you're feeling more confused
Than you ever could express,

When the saddened sun won't shine,
When the stars will not align,
When you'd rather be
Inside your bed,
The covers pulled
Above your head,
When life is something
That you dread
And you have to ask *Why me? . . .*

Then when the world seems right and true,
When rain has left a gentle dew,
When you feel happy being you,
Please ask yourself *Why me?* then, too.

Poetry which really **inspires** me, I would love to share with you all.

कौन कहता है आसमान में सुराख़ नहीं हो सकता
एक पत्थर तो तबियत से उछालें यारों!

-दुष्यंत कुमार
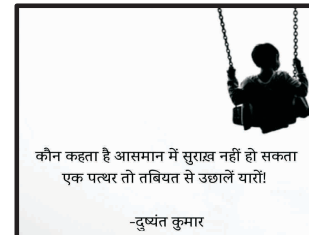
MEANING:

"Who says the sky is impenetrable,

Try throwing a stone at it with conviction."

- **Dushyant Kumar**
(Indian Poet)

#Nothingisimpossible

-by **Tejaswini**
1BY19IS169
ISE – 4th sem
C Section

Kindle's Urge

Gokul Saraswat

At times I may fall,
And at others I may rise.
All I ask of you, is to give me.
In life sometimes I turn black,
At times I'd be blue.
But at times I'kk shimmer in white.
And for the first time I ask for a chance to shine bright.
Within this own chaos,
I shall find my own reasons to fight.

All I ask from you, to grant me.
Another chance to shine bright!
There's a fire within me.
With an urge to live, to burn bright.
Again I ask, just another chance to shine bright
I'll walk through the days
And burn during the nights
All I need, just a chance to shine bright!
Don't discard me or treat me as trash,
You do know the fire in me, and that I can fight.
Someday I'll make it alright again,
For that all I seek is another chance to shine bright!

- by **Gokul Saraswat**
1BY19IS062
ISE 4th sem A Section

Chaitanya M

ಹೆಣ್ಣು ಎಂಬ ಅದ್ಭುತದ ಪಾತ್ರ
ತಾಯಿಯಾಗಿ ನವಮಾಸ ಗರ್ಭದಲ್ಲಿ ಹೊತ್ತು ಜನ್ಮ ನೀಡಿ ಜೀವನ ಎಂಬ ಕೊಡುಗೆ ನೀಡುವಳು
ಸಹೋದರಿಯಾಗಿ ನಿನ್ನ ಬೆಂಬಲವಾಗಿ ಸದಾಕಾಲ ನಿಲ್ಲುವಳು
ಸ್ನೇಹಿತೆಯಾಗಿ ನಿನ್ನ ಸೋಲು-ಗೆಲುವು ಎರಡರಲ್ಲು ಚಿನ್ನೆಲುಬು ಆಗಿ ಇರುವಳು
ಅರ್ಧಾಂಗಿಯಾಗಿ ಕಷ್ಟವಾಗಲಿ ಸುಖವಾಗಲಿ ಜೀವನ ಪೂರ್ತಿ ನಿನ್ನ ನಂಬಿ ನಿನ್ನೊಂದಿಗೆ ಜೀವಿಸುವಳು
ಮಗಳಾಗಿ ನಿನ್ನ ಜೀವನಕ್ಕೆ ಒಂದು ಅರ್ಥ ತುಂಬುವಳು.
ನಿನ್ನ ಜನ್ಮಕೆ ಸಂಪೂರ್ಣತೆ ಸಿಗುವಂತೆ ಮಾಡುವಳು.
ಇಂತಹ ಅಪರೂಪದ ಸೃಷ್ಟಿ ಹೆಣ್ಣು
ಆವಳನು ಗೌರವದಿಂದ ಕಾಣಿರಿ

Chaitanya M
1BY18IS037
ISE 6TH SEM

The Bubble

Sri Sowmya Vishnubhotla

Well, this might really be a good time to sip on some mocktail, lying alive on a sun lounger, stretching your body like all the agony that's adhered to your joints is dissolved into blood, causing a very inconspicuous change in the hormonal levels, and more importantly that time, where you forget all your fears or should I say, yourself? Wait! Now that I tell you or more like juxtapose the said things, are you convinced that forgetting your fears is as good as forgetting yourself?. You might not be g lad at the beginning or the moment you learn this or even if you've known this before. But as much as you and I hate to admit it, this has always been the way of humans and all life forms, and by extension, of nature.

We have contemplated that happiness is the ultimate goal of every living creature on this planet, be it achievement through any means or anything for accomplishment. But if happiness is the key of life, then what is the rough friction in our lives, that either stops us from slipping or makes it ridiculously hard and painful for us to even step out and get there? Reckon, the answer is quite notorious. The way I see it, everyone of us is living inside this very bubble called fear. This bubble, though, is quite a farrago, which begs the question," Is this a medicine that is keeping us alive or a monster that is escorting us to the gates of hell?". The fear of yesterday, the fear of living today, the fear of tomorrow, the question of life and death and the others, will and have never stopped us haunting, but have never stopped us from running either. Rationally, these are the ones that kept humans alive.

Man learnt to light up, though was an accidental coincidence, he saw it as a defence to protect himself from deadly animals.' Fear and the necessity to vanquish it', the world has been surviving and flourishing this way, yes. But incontrovertible to the fact that the world is now in a quasi-stable state, thanks to what's called the technology and the governing bodies, we now feel that we're leading awesome lives. But the truth is that the bubble has grown bigger and stronger, making it nearly impossible to pierce through, only as an aftermath of our deeds and thoughts. We're living an illusion, for real. Admit it o r not, fear is a constant companion and it is never going to leave you until….

- by **Sri Sowmya Vishnubhotla**
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ISE D section [1st semester]

ಆರೋಗ್ಯ ಮತ್ತು ಯೋಗ ಮುದ್ರಾ – ಕರೋನಾ ವಿಶೇಷ

ನಮ್ಮ ದೇಹ ಪ್ರಕೃತಿಯ ಪಂಚ ಭೂತಗಳ ಅಂಶಗಳಿಂದಾಗಿರುವುದು. ಅವುಗಳು ಯಾವುವೆಂದರೆ ೧. ಅಗ್ನಿ ತತ್ವ, ೨. ವಾಯು ತತ್ವ, ೩. ಆಕಾಶತತ್ವ, ೪. ಪೃಥ್ವಿ ತತ್ವ, ಹಾಗೂ ೫. ಜಲ ತತ್ವದಿಂದ ಕೂಡಿದ್ದಾಗಿದೆ. ಪಂಚಭೂತಗಳ ಚಿಹ್ನೆಗಳಾದ ನಮ್ಮ ಎರಡೂ ಕೈಗಳಲ್ಲಿರುವ ಬೆರಳುಗಳಾಗಿವೆ. ಹೆಬ್ಬೆರಳು (Thumb Finger) ಅಗ್ನಿ ಸೂಚಕ (Fire), ತೋರುಬೆರಳು (Index Finger) ವಾಯು ಸೂಚಕ (Air), ಮಧ್ಯದ ಬೆರಳು (Middle Finger) ಆಕಾಶ ಸೂಚಕ (Space or Sky), ಉಂಗುರ ಬೆರಳು (Ring Finger) ಭೂ / ಪೃಥ್ವಿ ಸೂಚಕ (Earth), ಹಾಗೂ ಚಿಕ್ಕ ಬೆರಳು (Little Finger) ಜಲ ಸೂಚಕವಾಗಿದೆ (Water). ಪ್ರಕೃತಿಯೇ ನಮಗೆಲ್ಲಾ ಶಕ್ತಿಗಳನ್ನು ನೀಡಿದೆ, ಆದರೆ ನಾವುಗಳು ನಮ್ಮ ಶಕ್ತಿಗಳನ್ನು ತಿಳಿಯದೇ, ಅತೀ ಹೆಚ್ಚಾಗಿ ಪರರ ಚಿಕಿತ್ಸಾ ಪದ್ಧತಿಗಳನ್ನು ಅನುಸರಿಸುವ ತವಕದಲ್ಲಿದ್ದೇವೆ. ಕೆಲ ಮಟ್ಟಿಗೆ ಕರೋನಾ ದಿಂದಾಗುವ ಕೆಡುಕುಗಳನ್ನು ನಮ್ಮ ಕೈಗಳಲ್ಲೇ ಇರುವ ಪಂಚ ತತ್ವಗಳಿಂದ ಸುಧಾರಿಸಿಕೊಳ್ಳಬಹುದಾಗಿದೆ. ಈ ಚಿಕಿತ್ಸಾ ಪದ್ಧತಿಯು "ನಿಮ್ಮಗಳ ಮೇಲೇ ನಿಮಗೆ ನಂಬಿಕೆ ಇದ್ದರೆ ಮಾತ್ರ ಮುದ್ರೆಗಳು ಕೆಲಸ ಮಾಡುತ್ತವೆ". ನನ್ನ ಕೆಲವು ಅನುಭವಗಳಿಂದ ವಿವಿಧ ಬಂಗಿಗಳನ್ನು ಹಾಕುವುದರ ಮುಖಾಂತರ ದೇಹಕ್ಕೆ ಚೈತನ್ಯ, ಪ್ರಾಣವಾಯುವಿನ ಸುಗಮ ಸಂಚಾರ, ಪಚನ ಕ್ರಿಯೆಗೆ ಸಂಬಂಧಿಸಿದ, ರಕ್ತದ ಒತ್ತಡ, ಮಲಬದ್ಧತೆ, ಮಂಡಿ–ಕೀಲು ನೋವುಗಳು, ದೇಹದ ಸಮತೋಲನ ಉಷ್ಣತೆ ಕಾಪಾಡುವುದು, ತಲೆ ನೋವಿನಿಂದ ಮುಕ್ತಿ, ಮುಂತಾದ ವಿಧ–ವಿಧವಾದ ದೇಹದ ಅಡ–ತಡೆಗಳನ್ನು ವಾಸಿ ಮಾಡುವ ಶಕ್ತಿಯನ್ನು ಆ ಭಗವಂತ ನಿಮ್ಮ ಕೈಗಳಲ್ಲೇ ಕೊಟ್ಟಿರುವನು. ಕರೋನಾ ಹಿಮ್ಮೆಟ್ಟುವ / ತಡೆಯುವ ಕೆಲವು ವಿಶೇಷ ಮುದ್ರಾ ಯೋಗ ಅಭ್ಯಾಸಿಸಲು ಮನಸ್ಸು ಬೇಕು ಅಷ್ಟೇ. ಮನಸ್ಸಿದ್ದಲ್ಲಿ ಮಾರ್ಗವಿದೆ.

ಉಚಿತ ಕಾರ್ಯಗಾರಕ್ಕಾಗಿ ಸಂಪರ್ಕಿಸಿ:
ಶಿವಕುಮಾರ ತುಪ್ಪದ,
ಸಹಾಯಕ ಅಧ್ಯಾಪಕರು (ಎಂಸಿಎ) ಹಾಗೂ ರಾಷ್ಟ್ರೀಯ
ಸೇವಾ ಯೋಜನಾ ಕಾರ್ಯಕ್ರಮ ಅಧಿಕಾರಿ
(ಎನ್.ಎಸ್.ಎಸ್), ಬಿಎಂಎಸ್ಐಟಿ

ಪ್ರಕೃತಿ ಮನುಷ್ಯನಿಗೆ ಹೇಳಿದ ಪಾಠ.
(The Lesson Taught by Nature)

ಮನುಷ್ಯನ ಅತೀ ಆಸೆ, ಬೇಕುಗಳು, ಸ್ವಾರ್ಥ ಸಾಧನೆ, ಇತ್ಯಾಧಿಯಾಗಿ ಮಾನವನ ಅನುಕೂಲಕ್ಕಾಗಿ ಪ್ರಕೃತಿಯ ಮೇಲೆ ಅತ್ಯಾಚಾರ ಹೆಚ್ಚಾಗಿ, ಕಾಡುಗಳ ನಾಶದಿಂದ ಪ್ರಾಣವಾಯುವಿನ ಕೊರತೆ ಕಾಡುತ್ತಿದೆ, ಅದೇ ರೀತಿಯಾಗಿ ಅತಿಯಾಗಿ ಬಾಯಿ ಚಪಲದಿಂದ ಪಚನ ವಾಯು ಏರಿಳಿತವಾಗಿಯೂ ಅನಾರೋಗ್ಯ ಪೀಡಿತರಾಗುತ್ತಿರುವುದು ಅಲ್ಲದೇ ಅವ್ಯವಸ್ಥೆ ಯಾದ ಜೀವನ ಶೈಲಿಯಿಂದ ದೇಹ ಪ್ರಕೃತಿಯು ಹಾಳಾಗುತ್ತಿರುವುದು ಕಂಡುಬಂದಿರುವುದು. ಇತ್ತೀಚಿಗೆ ಪ್ರಕೃತಿಯೂ ಕೂಡ ಮನುಷ್ಯನ ಮೇಲೆ ಆಕ್ರಮಣ ಮಾಡುತ್ತಿದೆ, ಹೋದ ವರ್ಷ ಭೂ–ಕುಸಿತ (ಲ್ಯಾಂಡ್ ಸ್ಲೈಡಿಂಗ್) ನಂತಹ ಅನಾಹುತಗಳು, ಅತೀ ಜಲ–ಪ್ರವಾಹಗಳು, ಚಂಡಮಾರುತಗಳು, ಅಗ್ನಿ ದುರಂತಗಳು, ಈಗ ಕರೋನಾ ದಿಂದ ಪ್ರಾಣ ವಾಯು ಕೊರತೆಯುಂಟಾಗಿ ಮನುಷ್ಯ ತನ್ನ ಪತನದತ್ತಾ ಸಾಗುತ್ತಿರುವುದು ನಮಗೆಲ್ಲಾ ತಿಳಿದಿರುವ ವಿಷಯವಾಗಿದೆ. ಇದು ಸರಿಯಾದ ಸಮಯವಾಗಿದೆ, ಪ್ರಕೃತಿಯ ಬಗ್ಗೆ ತಿಳಿದುಕೊಳ್ಳುವುದು. ಪ್ರಕೃತಿ ಅಂದರೆ ಕೇವಲ ಮರ, ಗಿಡ, ಸೂರ್ಯ, ಚಂದ್ರ, ನಕ್ಷತ್ರ ಹಾಗೂ ಮಳೆ, ಕಾಂಕ್ರೀಟ್ ಅಲ್ಲ ಪ್ರಕೃತಿ ಯಂದರೆ ಪಂಚ ಭೂತಗಳಿಂದ ಮಾಡಲ್ಬಟ್ಟ ಯಾವುದೇ ವಸ್ತುವಾಗಲಿ, ದೇಹಗಳು ಕೂಡ. ನಮ್ಮ ದೇಹ ಪ್ರಕೃತಿಯ ಅಂಶಗಳಾದ ಅಗ್ನಿ ತತ್ವ, ವಾಯು ತತ್ವ, ಆಕಾಶತತ್ವ, ಜಲ ತತ್ವ, ಹಾಗೂ ಪೃಧ್ವಿ ತತ್ವದಿಂದ ಕೂಡಿದ್ದಾಗಿದೆ. ಇಂದು ನಾವೆಲ್ಲರೂ ಅತ್ಯಂತ ಘೋರ ಪರಿಸ್ಥಿತಿ ಅನುಭವಿಸುತ್ತಿರುವ ಕರೋನಾ ಅನ್ನುವ ಮಾರಿ ಕೂಡ ನೇರವಾಗಿ ನಮ್ಮ ಪ್ರಕೃತಿಯ ಮೇಲೆ ಆಕ್ರಮಣ ಮಾಡುತ್ತಿದೆ, ಇದರಿಂದ ಪ್ರಾಣವಾಯು ಕುಂಟಿತಗೊಂಡು ದೇಹಗಳಿಗೆ ಸಾವು ಬರುತ್ತಿರುವುದು ಶೋಚನೀಯ. ಆದ್ದರಿಂದ ಪ್ರತಿಯೊಬ್ಬ ಮನುಷ್ಯನೂ, ಪ್ರಕೃತಿಯ ಬಗ್ಗೆ ಮತ್ತು ಅದರ ತತ್ವಗಳ ಬಗ್ಗೆ ಸಂಕ್ಷಿಪ್ತವಾಗಿ ತಿಳಿದುಕೊಂಡು, ಅವರವರ ಆರೋಗ್ಯವನ್ನು ಯಾವುದೇ ಮಹಾ ಮಾರಿಯಿಂದ ರಕ್ಷಿಸಿಕೊಳ್ಳಬಹುದಾಗಿದೆ. "ಪ್ರಕೃತಿ ಮನುಷ್ಯನಿಗೆ ಹೇಳಿದ ಪಾಠ" ಏನೆಂದರೆ "ತನ್ನಂತೆ ಪರರು" ಎನ್ನುವ ಗಾಧೆಯಿದೆ ಅದೇನೆಂದರೆ ತಾನೂ ಬದುಕಿ, ಇತರರನ್ನೂ ಬದುಕಲು ಬಿಡುವುದು ಎಂದರ್ಥ, ಅಂದರೆ, ಈ ಪ್ರಕೃತಿಯಲ್ಲಿ ಮನುಷ್ಯ ಮಾತ್ರ ಜೀವಿಸಲು ಯೋಗ್ಯ ಅಂತ ತಿಳಿದಿದ್ದರೆ ನಿಮ್ಮ ಅಭಿಪ್ರಾಯ ತಪ್ಪು, ಮನುಷ್ಯ ನ ಜೊತೆಗೆ ಸಸ್ಯ ರಾಶಿಗಳೂ, ಜಲ ಚರಗಳೂ, ಆಕಾಶ ಕಾಯಗಳು, ಸರಿಸೃಪಗಳೂ ಹಾಗೂ ಪ್ರಾಣಿ–ಪಕ್ಷಿಗಳಿಗೂ ಈ ಭೂಮಿಯಲ್ಲಿ ವಾಸಿಸಲು ಹಕ್ಕಿದೆ, ಆದರೆ, ನಾವು ಅಂದರೆ ತಿಳಿದಿರುವ ಜ್ಞಾನಿಗಳು ಅವುಗಳನ್ಯಾವುದೂ ಲೆಕ್ಕಿಸದೇ, ಕೇವಲ ಸುಖ ಭೋಗಕ್ಕಾಗಿ, ಅನುಕೂಲಗಳಿಗಾಗಿ ತಂತ್ರಜ್ಞಾನದ ಸಹಾಯದಿಂದ ನೇರ–ಮತ್ತು–ಪರೋಕ್ಷವಾಗಿ ಪ್ರಕೃತಿಯನ್ನು ಹಾಳು ಮಾಡುತ್ತಾ ಬಂದಿದ್ದೇವೆ. ನಮ್ಮ ಹಿರಿಯರು ಸುಮಾರು ಬಾರಿ ಎಚ್ಚರಿಸುತ್ತಾ ಬಂದಿದ್ದರು, ಪ್ರಕೃತಿಯೇ ಮನುಷ್ಯನಿಗೆ ಪಾಠ ಕಲಿಸುತ್ತದೆ ಎಂದು, ಆ ಸಮಯ ಈಗ ಬಂದಾಗಿದೆ, ಮನುಷ್ಯ ತನ್ನ ಅಂತ್ಯ ತಾನೇ ಕಾಣುವ ಸಮಯ ಬಂದಾಗಿದೆ. ಈಗಲಾದರೂ ಎಚ್ಚೆತ್ತು, ಈ ಸುಂದರ ವಾದ ಪ್ರಕೃತಿಯನ್ನು ರಕ್ಷಿಸುವುದು ಮತ್ತು ನಮ್ಮ ಮುಂದಿನ ಪೀಳಿಗೆಗೂ ಬಿಟ್ಟು ಕೊಡುವುದು ನಮ್ಮೆಲ್ಲರ ಕರ್ತವ್ಯವಾಗಿದೆ.

– ಶಿವಕುಮಾರ ತುಪ್ಪದ
ಸಹಾಯಕ ಅಧ್ಯಾಪಕರು,
ಎಂಸಿಎ ವಿಭಾಗ, ಬಿಎಂಎಸ್ಐಟಿ

HEARTS OF A KID

Suru Shashank

This is for you, my imaginary loving
friend, every day and night.
You're often in my mind,
though you're not in sight.

Let us together, build a tree
house, our free house from
scratch.
Warm friendship we share,
together we match.

Mature with time as we go
ahead, hearts like kids forever.
I might be dumb at times,
hehe...even you're not always
clever.

Same pinch, both dog lovers,
each have a pet.
You're the brightest star on
earth that I've ever met.

Remember, I want you to
be the special friend,
I cannot replace.
Even if you try to run away,
you'll be the only one I
want to chase.

We share this beautiful
bond, stand beside
eachother.
Out of a million stars,
you're the only twinkling star
I want, not another.

~ Suru

SPECIAL FRIEND

~ *Suru*

I portray this person when I close my eyes, she is one of a kind. She's funny, loving, awesome, who's more crazy among us? Ah, nevermind!

We'll face the world together, go up and down on the same swing. Laugh, enjoy, eat etc...
the list goes on, with the sweet melody we sing.

Let's go to the beach, wait for the sunset, in intimate silence we talk.
Those calm breezy nights, we pull each others hair, on the silent streets as we walk.

I'll give myself to the fullest to keep you happy with a beautiful smile.
And if you are ever hurt by me, I cannot forgive myself even for a while.

Sailing on our own special ship, we both being the only crew.
We bumped into each other, my wish came true.

LOVING SOUL

It'll be time I might not be seen,
this soul called a ghost.
Ghost was once this human,
he used to love the most.

Along the path, I wish sweet
fruits and happiness to all.
Gather yourself the courage, to
rise up from a skyfall.

Definitely, I'm not perfect and
nobody is too.
Learning from those
mistakes, both me and you.

A rectangle has four sides, so
does a square.
There's beauty in people,
so different, but rare.

With kindness,
our surroundings can be a
better place to live.
Love, from my own beautiful
reservoir, I tend to give.

One of the reasons I'll tell you,
the secret for my good health.
Is my cute small circle of loved
ones, my only valuable wealth.

~ S u r u

- by **Suru Shashank**
USN: 1BY18MCA31
MCA (6TH Sem)

The Curve of time.

Adarsh Gautam

Some time back, I was watching a documentary on the universe's creation and supernovae. The speaker explained, how when we look into the universe, through a telescope or simply with our naked eyes, we're essentially looking at the past. Since stars are at such a vast distance from earth, as shown below, "O_0" the underscore representing the distance between the sun and the earth. The distance between us and the next star closest to us. "Proxima Centauri", will be represented as "01 [229275(_)] 0". Since this distance is quite large, (229275 times the distance between the earth and our sun), that the light that we can see flickering, was produced 4.25 years ago, essentially we're seeing what "Proxima Centauri" from 4.25 years ago looked like. The events in the universe are the views of the past, but it gets much more interesting than that. "Visible light" displays both particle and wave nature, and is the fastest propagation of energy. But there exists one phenomenon which travels at a speed that is faster than light, and this phenomena is the expansion of the universe. According to the theory of the expansion of the universe, it is understood that our Universe is not finite but is ever expanding, that too at a rate greater than the speed of light, by which we can deduce, that we on earth, are hurtling in space along with all the stars we can see, in a direction unknown, but with a speed that is far greater than that of light's, and the only reason why we can't notice this phenomena, is due to the relative velocity between us and all the light reflecting and producing bodies around us (the observable universe) is constant also known as the Hubble constant. An example of this dynamic phenomenon can be relatably noticed in the sudden expansion which is triggered in the form of Supernovae and is the biggest observable event in the cosmos, like a Big Bang, this instantaneous creation of galaxies and astronomical bodies out of a star is faster than the speed of light, in a nanosecond a whole system of stars are being created in which every shining dot is at a distance of more than a hundred million miles away. This theory also helps us in explaining to an extent as how our solar system and milky way galaxy is suspended in the middle of nowhere, we can explain this phenomena by theoretically hypothesizing that if we consider whether how a ball could be suspended in air, there are a very limited ways of accomplishing this task, Either to create in the ball an equal and same charge which will be repulsive to the force applied due to gravity, or else by making the effect of gravity beneath the ball equal to Zero, or else by supplying that ball with an escape velocity, or by simply hurling it in a given direction by applying force, for a small amount of time the ball will be suspended in the air. In the same way according to the theory our universe is hurtling across the space-time web in a speed that is greater than light, this blistering speed results to form materials out of particles which we cannot observe because its being created before the light reaches it and gets reflected back, but there are still are other forms of energy of waves and radiations which travel in the range between C and speed of expansion. These waves are knowns as tachyons and the result of this speed is such that it would be possible to experience something manifest before it has been caused.

Therefore the curve of time is a circle. [this is not a fact]. But imagining on the basis of given facts all we know that we still don't have any visual explanation of the time in which we exist, as what is the cause of its creation, what's the largest frame which we can consider to relate "our" perception of time with, is it repetitive or continuous or infinite?, or is there an end to it?

We shall know or should we have to advance even further in our understanding of this ultimate existence ?

- by **Adarsh Gautam**
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COVID-19's stunning impact on global education and strategy for improving the effectiveness of online learning

Dr. Arun Kumar B.R.

Some of the parents in the recent Parents-Teacher interaction raised a billion-dollar question. The mother asked how do you make your online class effective in this pandemic. Since we the faculty members at BMSITM follow the optimal available strategies we could convince them. However, this made me think about the global impact and think of the solution for this problem. Let us look at the global impact and try to explore the effective strategy.

As the schools and colleges are shut for an indefinite period, both educational institutions and students are experimenting with ways to complete their prescribed syllabi in the stipulated time frame in line with the academic calendar. These measures have certainly caused a degree of inconvenience, but they have also prompted new examples of educational innovation using digital interventions. This is a silver lining on a dark cloud considering the sluggish pace of reforms in academic institutions, which continues with millennia-old lecture-based approaches in teaching, ingrained institutional biases, and obsolete classrooms. Nonetheless, COVID-19 has been a trigger for educational institutions worldwide to pursue creative approaches on relatively short notice. During this time, most of the universities have shifted to online mode using Google Meet, Microsoft Teams, Zoom, or other online platforms.

Over a billion students worldwide are unable to go to school or university, due to measures to stop the spread of COVID-19. The pandemic is expected to have a huge impact on global education. Close to a billion people are still locked down after the coronavirus outbreak brought the life around the world to a virtual standstill. The pandemic is expected to have enormous economic consequences and it is also having a devastating impact on global education. According to the latest figures released by UNESCO, some 1.3 billion learners around the world were not able to attend school or university as of March 23, 2020.
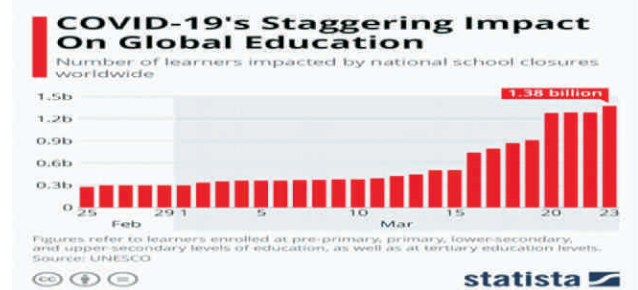
UNESCO's figures refer to learners enrolled at pre-primary, primary, lower-secondary, and upper-secondary levels of education as well as at the tertiary level. 1,379,344,914 students or 80 % of the world's learners are now being kept out of educational institutions by country-wide closures. Another 284 million learners are being affected in some way by closures at a localized level, such as those seen in U.S. states like California and Virginia. 138 governments have now ordered country-wide closures of their schools and universities. As per the resource, the availability of ICT makes it possible to continue instruction and learning. However, both teachers and students need to be very familiar with these technologies and their use for them to be effective. It is found that not more than 50% of the global average students were able to support online teaching using ICT. It is found that ICT resource issues are hindering the capacity to deliver quality instruction can shed light on possible impediments to the wider use of ICT for teaching.

What do we know about students' conditions and environments for home schooling before the crisis?
 Although the absence of in-person lessons can be somewhat compensated by the use of online platforms and other technology-rich activities, access to the necessary digital devices is not equally distributed across the population. In particular, students from socio-economically disadvantaged backgrounds who lack the means to access these devices may be severely affected by the COVID-19 crisis, increasing learning inequalities as a result. A pre-requisite for any type of online learning activity is that students have access to a computer/mobile phone. In India, as per the NCERT survey, at least 27% of students do not have access to smartphones/laptops for online classes.

Policy/Strategy:
Since lockdowns – either massive or localized - may be needed again in the future to respond to new waves of the infection until a vaccine becomes available to all the citizens of all ages for the population like India (> 130 crores). it is of utmost importance to identify which policies can maximize the effectiveness of online learning. The policy brief is to examine the role of student's attitudes towards learning in maximizing the potential of online schooling when regular face-to-face instruction cannot take place. Since parents and teachers play a fundamental role in supporting students to develop these crucial attitudes, particularly in the current situation, targeted policy interventions should be designed to reduce the burden on parents and help teachers and schools make the most of digital learning.

Although students frequently use information technologies in their daily life, online learning requires considerably more competencies than basic computer skills. Many students are unsuccessful in their learning without face-to-face contact and collaboration with lecturers and peers. They can feel isolated and doubt their ability to succeed in the online course. To increase online leamer success, support is needed. especially to improve learner self-efficacy. Very few studies have focused on student self-efficacy in an online learning environment and especially those conducted in an authentic setting. Learner control is thought to facilitate students in online learning, but the relationship between learner control and learner self-efficacy is still unclear. Therefore, there is a scope for the systematic investigation to examine the relationship between learner control and self-efficacy along with related variables such as age, gender. prior online experience to improve online learning effectively. Data analyses revealed that the relationship between learner control and online learning self-efficacy was confirmed. The multiple linear regression showed that learner control and computer skills for academic purposes are good predictors of online learning self-efficacy.

Conclusion:
The analysis indicates that the pandemic affected worldwide. Both proactive and reactive solution is expected. As a result of further research, the framework for successful online learners is expected to evolve and recommendation of more inclined guidelines to keep the good phase of learning despite this type of pandemic situation is also essential. However at present parents monitored, the teacher involved, students engaged with self-efficacy and state of the art ICT infrastructure from the management/Govt. support can boost online learning.

- by **Dr. Arun Kumar B. R.**
Professor, CSE

Softoonics

Dr. Arun Kumar B.R.

Softoonics is a new branch of Scientoonics that deals with effective communication innovatively. To focus on the legal domain requirement engineering issues in the software development process, Legal/Cyber-Softoons are introduced and used. The supremacy of information technology, Cyber Law, the negative impact of Cyber threats has changed the software engineering discipline into inter, multi, and transdisciplinary. The concept of Softoonics/Softoons is introduced by the Author (with acknowledgment to the use of available drawings in web sources). **Softoon-1 shows the legal and security issues as domain requirements during the Software engineering development cycle (SDLC).**

Computing in general and software engineering, in particular, should focus on the professional practice of engineering ethics, law, and more so security for the greater good of society. Softoons are effective tools to model the concepts of interdisciplinary and transdisciplinary in the early stages of the software engineering development cycle.

- by **Dr. Arun Kumar B. R.**
Professor, CSE

Ancient Roots of Indian Civil Engineering

Aishwarya B.

Science has achieved cosmic progresses, allowing aspirations to become reality, some of which are beyond our imaginations. It has uncovered secrets and gateways, but is all revealed. A famous perception 'Old is Gold' is seen to prevail and many ancient tactics has eluded modern science. Today even after building sturdy concepts and machines, we could not completely uncover our ancient secrets. Despite of reaching to the highest point in the field, we find ourselves speechless while contemplating ancient structures. When structure established on modern science is seen to gradually degrade with time, one wonders how fortresses, palaces and temples built in ancient India stood the test of time.

India represents an important civilization that is almost as ancient as China's. This land of wonders has seen the evolvement of modern science and has stood witness to ancient wonders. It is well acknowledged that we are familiar to science. A simple example is our elders' advice of avoiding resting under trees during night time, scientifically these trees produces Co_2 at night which is harmful for health. Unfortunately, the ancient science is frowned upon by many considering it as a limitation and bogus without realising the in-depth knowledge hidden inside.

It is both true and surprising that many ancient Indian wisdom are being forgotten and the upcoming generation seem to have disinterest and contempt for these ancient knowledge, which in fact, forms the basis of many present-day scientific achievements, a fact acknowledge by Albert Einstein and many others. Amongst the various contribution of the ancient India to the development of world some include: the introduction of the concept of decimal system and zero that formed the bases of modern mathematics, origination of Ayurveda and the cure of leprosy as described in the Indian medical treatise _Sushruta Samhita_ (6th century) and in _Atharva-veda_ (1500 - 1 200 BCE), written before the _Sushruta Samhita,_ **Takshashila University, the world's first university** as early as 700 B.C., located in the north-western region of India and **Bhaskaracharya's contribution to the world of astrophysics.** Ancient India not only practised scientific methods of fabrication design and construction, but also documented them for future generations. An example of this is the book 'Vimanashastram', detailing the procedures of building an aeroplane.

Comparably, their contribution to the fields of construction, architecture and urban development, are conspicuous proof of Indian wisdom. Our ancient scriptures provides a marvellous insight into the knowledge and techniques of designs and construction that India possessed. Some include:

- **Vastu Shastra:** It _gives an insight on the_ building architecture and materials, such as building houses, forts, temples, apartments, village and town layout, etc_. It emphases that one must test the land prior to construction and that construction should be avoided on mountainous or terrain with faults._
- **Kashyap Shilpa shastra:** This scripture gives an insight on foundation, contains manuals for sculpture prescribing the proportions of a sculptured figure, composition, principles, meaning, as well as rules of architecture.
- **Bhrigu Samhita:** In this scripture, Saint Bhrigu emphases the need for soil testing. It conveys that before buying land, one should test its form, colour, juice, smell and touch. It also explains the methods involved for the same.
- **Manasara Shilpa Shastra:** an ancient Sanskrit text on Indian architecture and design. It provides detailed guidelines on the building of Hindu temples, sculptures, houses, gardens, water tanks, laying out of towns and other structures.
- **Manushyalaya Chandrika:** The sixteenth century text in Sanskrit is a summarization of the basic principles dealing with domestic architecture.

These scriptures throw a light on the ancient construction wisdom that has stood the test of time and is marvelled at even today. The wisdom

seen in Harappa and Mohenjo-Daro highlights the maturity of town-planning and sanitation that has not been seen even today. The archaeological remains at Harappa, Mohenjo-Daro, Kalibhangan, Dwarka, Lothal, Taj Mahal, Jagannath Temple at Puri, Meenakshi Temple, Golden Temple, Golconda Fort, Virupaksha Temple in Hampi, etc. are the glaring examples that prove our ancestors were builders, architects and planners of highest order.

The planning and technics they utilized leave many questioning their understanding of ancient structure. The musical pillar at Virupaksha Temple in Hampi, hanging pillar of Lepakshi, Kailash temple of Elora caves that was carved from a monolitic rock, Konark Sun temple's twelve pairs of wheels that creates a sundial, corrosion resistant iron pillar at New Delhi, Gol Gumbaz with a central chamber that

is second largest dome in the world unsupported by pillars, where every sound is echoed seven times and whispering gallery, where even minute sounds can be heard. These are some among the many architectural wonders of ancient world that prove our ancestors knowledge.

Understanding the ancient techniques involved in architecture and civil structure along with the comprehension of modern realizations will lead to evolution in the field of Civil Engineering. Thus, it is important that we don't negate our roots but build on it bearing in mind that whatever good thing we build, end up building us.

- by **Aishwarya B.**
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Batch: 2017-2021

Next AI in Healthcare
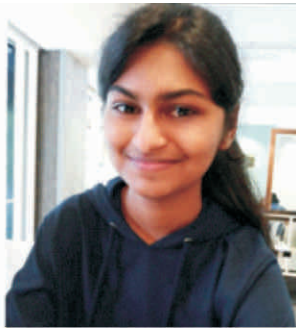
Naksha Prakash

When you come across the word AI, what strikes your mind? Robotics, machine learning, natural language processing, data science, Siri, Alexa. Then yes, you are right. The applications of Artificial intelligence have reached far beyond than we could have ever imagined, AI has paved its path to the healthcare sector as well and is creating wonders by helping detect diseases well in advance. According to me, AI in healthcare is a perfect integration of biology based knowledge and technology. I would like to go in breadth and cover a wider perspective rather than going in depth. AI in healthcare, so far, has been quite a less explored area because of the sensitivity that lies within and the abundance of precise knowledge required.

Considering the advancements made in healthcare, the most explored subjects are radiology, oncology and cardiology. AI in

healthcare could be used in fraud detection, taylormade inventions and in enhancing the current health system. Technological advancements have led to AI based cure checkers that use algorithms to diagnose illness, a chatbot listens to patients' health concerns and then guides the patient to the correct care based on the pre-installed algorithms. Deep learning platform analyses unstructured medical data to give radiologists better insight to patients real-time needs. AI enhanced microscopes are better used to scan for harmful bacterias. In animal healthcare AI is used to monitor animals' behaviour closely and collect data of each animal that is used to diagnose the sickness and administer remedies or cures to affected animals without human involvement.

If used in the right manner AI is a blessing like none other, it could make the lives of not only humans but also animals more pleasant. It is upon us to make use of technological advancements for the betterment of the environment and man-kind.

- by **Naksha Prakash**
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AIML, 1st year

CS 552 - Computer Animation - XL Museum

Manjunath V K

1. Motivation

The project is a closed museum named "xLMusuem" (Literal translation: Extra-Large-Museum). It's a multi-immersive environment. The project is made through many 3D models which are co- relative and collaborative towards it design and creativity as-per the museum. I chose this theme as it suits to experience a large life-like modern museum with an audio representing towards the meaning of the models and paintings rather than a good old-fashioned museum.

Furthermore, the idea behind the museum is release a euphoric feeling and aids the senses a cooling sensation through vibrant colors and audio catered towards the message from the models to the user. With the use of lighting, a multicolored environment allows a distinguishable theme of models for each floor. Ground floor and first floor consists of models whereas second and third floor are of 3D figures with a futuristic and medieval age models. There is a lobby where you could relax to the futuristic EDM music by artist Grammy award winner, Mat Zo (Song name - see it when you believe it)
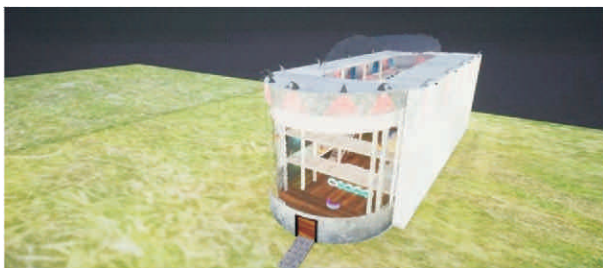
Figure 1: Main Building Overhead view

2. References or Previous Work

In this section, I discuss the main ideas and motives gained from other artist's and engineer's perspective through which they create a live-like and interactive museum where the persons get to interact with the models.

2.1 Life Beyond Museum
2.1.1 https://www.youtube.com/watch?v=ThDYazipjSI

A live museum where alien artifacts and possible life forms aliens might take are saved and brought to live through animations displayed over the suggested alien forms. A stuttering and exotic visual of the earth are covered to capture the vision of alien invasion on earth as well.

The museum also extends the idea of aliens hiding in different planets and also capture the idea of visuals that aliens mimic the earth and its life cycles. This concept is visualized and animated by "Protocol Labs". This vision was possible to certain extent where the main character is a meta-human (part human and part alien) could walk around a museum to explore the models and bring the models to life while being near to it.

2.2 The Mori Building Digital Art Museum: Epson team Lab Border less in Tokyo is the world's first digital art museum.
2.2.1 https://www.youtube.com/watch?v=qTW6VVzHsyo

The visitors can feel immersive experience where they can interact with art and digital stimuli response can be seen in the exhibits. The museum spans out to 10000 square feet of models that contain 50+ digital art models.
The digital art museum had the main goal to arouse interest in art and inspire them to

explore more in the field of arts and cultivate cultural thinking. The whole museum is border less and each digital modern art is in flow with the next model to show a flow in the interaction and immersive experience. The idea seems possible to reproduce digitally in the blender software but to bring out a flow from one model to another is a challenge that requires time.

2.3 Underwater Art Museum by Jason deCaires Taylor
2.3.1 https://www.youtube.com/watch?v=RWiI7AkDX-o

The sculptor, Jason deCaires Taylor had envisioned an underwater art work where a live-less stone models turn into beautiful enigmatic, haunting and colorful life like views with the aid of the underwater sea and floor bed. The models also serve the purpose of home to corals, crustaceans and other sea creatures. The process of stone models right from being sculpted and submerged under water and to

turn into home brings out an amazing and beautiful transient flow and experience. Further, the life span of stone models naturally is regenerated accordingly to the sea microbes and other organisms.

This idea is beautiful and successfully implemented in real-life but, to regenerate the effects

over time in a software will take time as the visuals are detail oriented over time and need more vibrant outflow.

3. Methods used to recreate the experience

Few models and animation clips were grabbed from Turbo Squid and Mixamo. These websites had pre-made models used along with animation along with key-frames and animated length. Unreal engine, Maya and Blender were used as a software to communicate along to create model(s) and import in the models, to bring out uniform scale of all the models as 1 cm = 1 meter in real life conditions and ultimately, add in the animations.

3.1 Base Model of the building
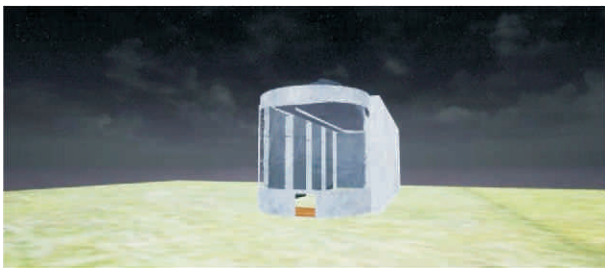
Figure 2: A base model of a mall served the foundation for the xLMuseum

The building is further created in the virtual environment by considering the structural integrity as a realistic building with slabs, columns and commonly found objects would have.

Figure 3: The columns were made from rectangular and cylindrical shapes
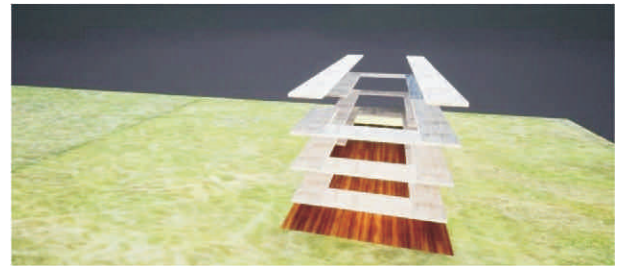
Figure 4: Slabs were created along with the base floor with rectangle shape; Wooden textures added to the floor to bring out the floor finish

Slabs are displayed along with ground floor-wooden made of "plane" with a finished flooring material.
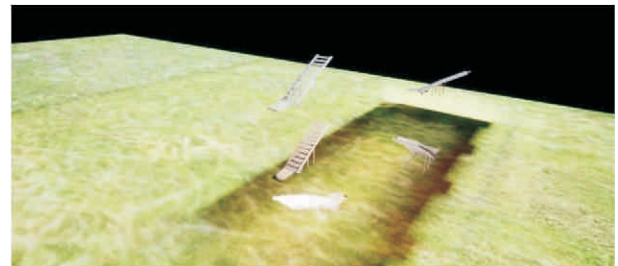
Figure 5: The stairs were downloaded and s caled as per the Museum floor-to-floor height
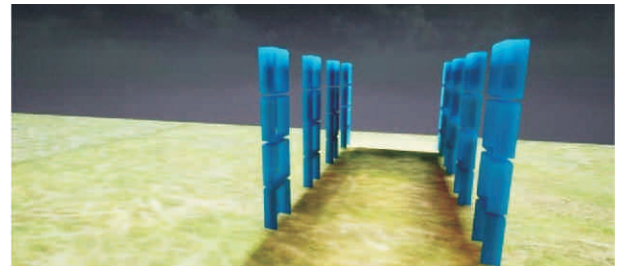
Figure 6: The 3D model chamber was created with rectangles and colored blue
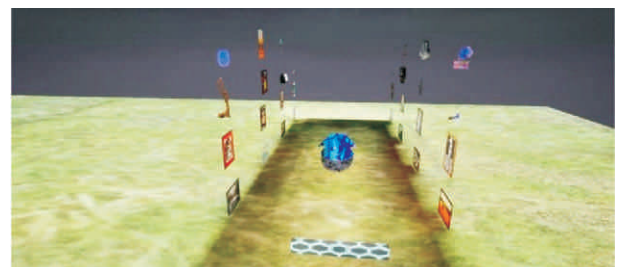
Figure 7: The 3D models were imported and new animations were added in

4   Animation with Cinematic Editor
4.1 Results

Here the cinematic guide rails, Canon boom and the cinematic camera were used to show the introduction to the project.

Figure 8: The guide rail and the cameras focused on the meta-human, our in-environment character The main character is placed on the virtual ground floor. A cinematic camera was attached to the guide rails to capture the overall view of the scene while the focus of the subject was the main character, the meta human. The camera was a child of the parent guide rail.
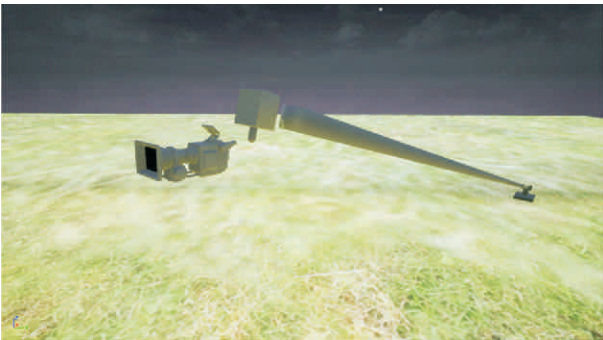
Figure 9: The cinematic camera and the canon boom

The "child" cameras were attached to "parent" cannon boom cinematic where the effects of the flying camera were captured in the scene editor. The camera flies in from the base of the canon and rises up vertical while being focused on the front of the building.

Figure 10: The cinematic camera and the guide rail focused towards the top view of the building

Here the camera was attached to the guide rail. While the scene was played, the camera follows along the guide rail from one end to another whilst the camera is focused on the front of the building.
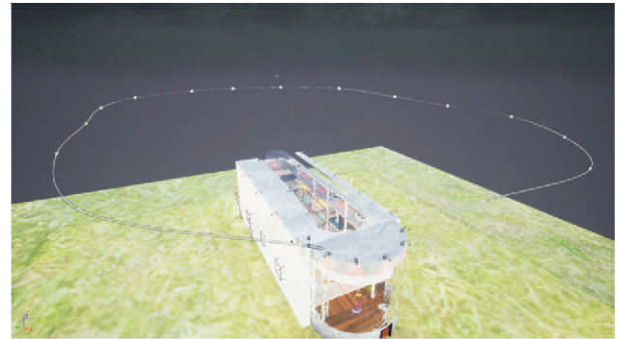
Figure 11: The cinematic camera and the guide rail covering the top view of the building

The above scene is discussed, here the camera follows along the guide rail starting from left end to the right end.

Figure 12: The trigger boxes of the 3D models

Here, the trigger boxes were created along with the additions to the animations to capture the cinematic experience. When the main character steps in the trigger boxes, the animations attached to the 3D models are played, hence, displaying the effect of the animation.

- by **Manjunath V K**
CV
Batch: 2014-18

Points to Ponder for Effective Online Teaching-Learning

M. Sridevi

The devastating effects of the COVID-19 have shaken every possible sector associated with human life. Educational institutions are going through a gloomy episode past one year. Lack of quality in education and skills in the graduates passing out of the colleges would adversely impact the quality of work they deliver to the society. The aggregate level of employability of Indian engineers, as per fifth edition of National Employability Report (NER) by SHL, a global company, has stagnated since 2010 which they call "Stubborn Unemployability." The pandemic fans the flames making the teaching-learning process, the most affected part in the education domain which requires immense attention of the academicians as the present circumstances may continue for an indefinite period of time. When some scenario causes discomfort, it is always better to efficiently confront it.

We can't deny the fact that exams act as a feedback mechanism for the students to let them know what they learnt and what they think they learnt. Irrespective of the exams being conducted or not, it is the responsibility of every teacher to make the students 'learn' the concepts by maximizing the effectiveness in delivery methods. Sustaining the students' interest throughout a 45-60 minutes class duration is a challenge as there are lots of stuff around them like social media that could distract their attention. Student engagement, up to the mark, can be achieved by some very simple but often neglected approaches that definitely has a role to play in online teaching and learning.

Point 1: Dress Up
The teacher needs to dress up for online classes in formals which would maintain the same decorum as with physical classes. The video should be streamed rather than a static profile photo talking to students. This brings back the seriousness in teaching and attentiveness in learning.

Point 2: Light Up
The room from which the lecture is being streamed should be well lit so that the expression and enthusiasm of the teacher should hit the targeted audience with the same strength, to convey the point under discussion.

Point 3: Hold the right posture
The teacher should place themselves in front of the camera in a right posture sitting straight so that the Field of View (FoV) of the camera is covered proportionately without leaving much empty space. Maintaining 'eye contact' with the camera is as important as maintaining it with every student in a classroom to draw the attention of them. The camera should be placed at a distance that can effectively communicate the hand gestures and body language of the teacher to students.

Point 4: Call students randomly
It is the tendency of students, when having an option to attend the class with their video switched off, to easily get diverted with superfluous thoughts. In a physical classroom, it is easy to locate a student's interest waning out and immediately address it. To overcome this trouble online, the teacher can randomly call a student's name at times during the class to draw back their attention. Though it is a shot in the dark, it would make the students stay tuned.

Point 5: Avoid monotonic delivery
Lectures with unchanging pitch makes a class boring. The intonation and expressiveness in delivering the content will capture the students' interest and allow the teacher to take them along on a roller-coaster ride that can provide an enthralling learning experience. Believe me, this will make the circadian rhythms of the students tick for your class.

Point 6: Use digital apps and tools
Rather than using a dry PowerPoint presentation, the online classes can be made interactive by using engrossing apps like ClassDojo, Quizizz, Whiteboard.fi, etc. that would enhance active participation of students in learning and assessment as well. Using digital tools like stylus pens for touch screens and digital writing pads for other kinds of computers will help to make the students not miss the blackboard experience and enables better explanation of mathematical concepts that need more workouts.

Adversities can be turned into opportunities to set up a new beginning and we as teachers should facilitate it to happen hassle-free. Wishing you Quintessential Teaching and Happy Learning…I bid you all adieu!

-by **M. Sridevi**
Assistant Professor & Research Scholar,
Department of MCA, BMSI&M
Consultant – Data Science,
Larsen & Toubro, India.

Interleaving Research and Academic Autonomy in Higher education

Academic autonomy in higher education is wish of every engineering institution in India today, which gives opportunity to unleash the best when used in true spirit. Autonomy gives flexibility over academics, curriculum content, assessment aspiring to this needs of the learner in today's scenario. Curriculum can be defined based on inputs from all the stakeholders including experts from industry and academia. This shall bridge the gap between industry and academia involving more innovative teaching learning process. The academic autonomy must leverage the true potential of teacher and enable higher learning, skill oriented and meaningful education for the cause of the society. At the same time, this will increase the responsibility and integrity of the teacher. This is the accountability with flexibility of autonomy.

From as learner perspective, the autonomy shall enhance the learnability and create platform for innovation and thought-provoking engineering models through innovative courses. The learner expect ease of learning will moderate load on assessment and evaluation. Innovative learning models may give newer dimension of learning, creativity, associativity, teamwork and understand societal needs.

An aspiration of institution is to enhance research activities, Intellectual Property (IP), funded projects and Industrial consultancy work which can be through integrated research environment with academics. The facilitation shall enable teaching with research which is complementary in modern age educational system. Integration of research into curriculum is key in enabling transformation to the next level. A sample ideas of research integration in the course syllabi could be for program specific electives where research transactional papers may be introduced in the Module 5 of the syllabus. This would enhance higher cognitive abilities in Bloom's taxonomy and also change the perspective of traditional curriculum setting.

- by **Dr. Anjan Krishnamurthy**
Associate Professor and PG Coordinator,
Dept. of Computer Science and Engineering

NCC -An Indelible Expedition

Cadet. Rahul Kumar

I'm **Cadet. Rahul Kumar** from **BMS Institute of Technology and Management** of **39 KAR BN NCC Unit** under guidance of our ANO Lt Rani M S, I would like to share the delighted experience of my NCC journey so far. I strongly believe and agree to a quote which says -

"Khaki is not just a uniform it's a way of life".

My personal motivation to join NCC was overwhelming sight of the parade and pride in the uniform which brings out the josh of being an NCC cadet. And moreover, I want to join the civil services and NCC would play a vital role in enhancing my personality. The qualities I have developed through NCC includes leadership, team spirit, never miss the chance when given, time management, stress management, communication skills and lot more. This makes us stand unique and highlighted in the crowd.

For me NCC has been an indelible expedition till now. The Real Beginning, after my dual round selections, I was introduced to the NCC BMSIT Family- We had supporting ANO ma'am, seniors who helped and were focused on our personality development, extracurricular and social activities too. We were trained meticulously to quickly grasp the drill, coordination, also developed a bond with the co-cadets and our seniors. The lifetime connections with them sprouted and bonded thoroughly when we organised innumerable events like the Statue cleaning, Swacch Bharat, Polio Immunization, One Student One Tree Campus and conducted awareness drives on major topics COVID-19, Vaccination, Spit Free India for betterment of society.

One of my best experiences includes the Polio Immunization Drive, which was a four-day programme; where we learnt the importance of immunization, did the field work of delivering Polio Drops to kids under the age of 5 and explaining its importance to the parents, during this small task we learnt various aspects of communication, how to be confident enough to convince the parent and immunize the kid to make the world Polio-Free. Also got a chance to lead a team of four at the Camp. Even in this ongoing pandemic, we managed to immunize hundreds of children with all safety precautions.

NCC creates an environment of multi-tasking and highly organized roles for all dedicated cadets for betterment preparedness for future. Being a cadet; NCC is like an inner defending shield which made me strong and build the inner warrior in me to handle the worst!! I learnt how we can take our country forward to a better future by contributing to motherland, and development of soft skills. Take a stand wherever necessary; believe to be better than what you where yesterday, at the end of the day you are you and that's the power!!

Jai Hind!

-by **CDT. Rahul Kumar**
KA/20/SDA/255744
39 KAR BN NCC
GP HQ BANGALORE 'B'
BMS Institute of Technology & Management.

My NCC Experience

Cdt. Sujatha

Jai Hind! I am **CDT. SUJATHA** from **BMS Institute of Technology and Management** of **39 KAR BN NCC.** National cadet corps is one of the premier youth organizations in our country, contributed in propagating national unity and integrity amongst youth. Its role in instilling in them the values of character, discipline and hard work and shaping them into dynamic and responsible citizens of the country. The life as a cadet is one of the best experiences one can ever have as it teaches them life as it is and shows how it is to live a military like lifestyle without being a part of the premier Indian military training institutes like the National Defence Academy and Indian Military Academy.

My first day in NCC was so excited, the seniors were looking like army officers and that khaki uniform made us so proud. Being an NCC cadet, it was always motivating and enthusiastic feeling for me. I have loads of good memories with the training parades in NCC and the CATC Camp.

The most essential part is that we will learn to develop team spirit and comradeship with each other, from eating to sleeping, to marching and from doing duties to physical training, my co-cadets are probably the best mates of my life. The three-day camp was enough to display our unity at every stage. We also learnt many special things which I couldn't have learnt if I wasn't an NCC Cadet such as Weapon training, Battle crafts, Field crafts, Map reading and lot more. Also, able to participate in events like International Yoga Day celebrations, Fit India Campaign, Spit-Free India movement, Polio Immunization and COVID Awareness Drives.

I have been part of the College Republic Day celebrations for last two years and those moments are the most special experience of marching to salute the national flag and display our training outcomes to the entire audience of lecturers and the principal. Our seniors have been our elder siblings in this family who guide and teach us to give our best in everything. Running, warm up, parade with ragda, loud command, Heavy rifle, Uniform, Superb instructors are memorable. In NCC we learnt discipline, basic arms training, team ethics, follow orders, various kinds of physical activities, etc. are some of the things you experience in NCC. NCC is a highly reputed body which is also a second line of defence, we will gain leadership quality, selflessness, discipline, hard work and ways to build confidence. NCC is very good platform to motivate the youth to take up a career in the Armed Forces.

- by **Cdt. Sujatha,**
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Success Always Starts With a Failure

"You never know how strong you are, until being strong is your only choice."

These quotes said by famous personality holds good for all the experiences you get through your NCC camps. One of the most honourable camps to attend is the Republic Day Camp. I was a very curious kid and joined the most exciting self-development organisation, National Cadet Corps in my junior division. My passion for NCC increased each and every parade and my aim was to represent Karnataka and Goa at the Republic Day Camp as the Best Cadet.

Soon after my JD, I joined the Senior Division of the Army Wing and kept polishing my skills, drill and knowledge about the army and its weaponry. The first camp of selection was the Pre-Inter Group Competition-1. It was my 3rd camp and I was totally excited about the camp. I was confident on my drill and knowledge but in the first day of the camp, I was surprised seeing the cadets from all other colleges being on par or a little better than me. Looking at it, I was all fired up, made up my mind and was ready to take up the challenge. The training in this first camp was rigorous and sleepless nights with studying, gaining knowledge from different seniors in the camp let me achieve my first hurdle of being one of the best cadets of Pre IGC-1. This was possible with the exposure of me with various seniors, PI staff and the trainers and it wouldn't be possible to develop myself to that level without the camp. Firing experience, competing with your co-cadets and to achieve your goal, it was a real challenge of self-development to overcome your weaknesses and be "THE BEST".

The second selection camp, Pre-Inter Group Competition -2 was another challenge. Now I had to compete with the hundreds of people who were already the chosen ones from the first camp and I had no intention of backing off. As the best cadet, I had to be the best in every aspect: drill, firing, personal interview, theory-based exam, group discussion and cultural activities. In this camp, I learned and experienced mutual development which acts as an important part in a student's life. I could share my knowledge with my co-best cadets and likewise they helped me overcome my weakness. These were the times when you could improve yourself as well as become better than the others to secure your position as the best cadet and finally represent Karnataka and Goa directorate with pride and respect. All the aim was to grab the All India Best Cadet Medal and march on the Rajpath on Jan 26.

That said, the real fight and challenge was yet to be started. I again qualified as one of the best cadets to the next selection camp, Pre-Inter Group Competition -3. This camp was the preparation camp to face off against different groups like Bangalore- 'B', Mysore, Mangalore, Belgaum and Bellari. We polished our skills every day and night to be the unrivalled ones. Intense training from our PI staffs, our drill instructor and the CO helped us reach higher levels of the sky. We held each other's backs and kept moving forward in the training. We had many practices for firing and other events so we get more and more better. I set ablaze my heart and soul into the preparation for the group competition and moved on to the next camp, The Inter Group Competition.

I entered the camp with a huge smile and confidence but deep inside my heart, was worried on how things would work out. We had tough competitions on drill, cultural with other groups who looked pretty tough too. We had to survive in tense grounds and experienced things which couldn't possibly seen by me if not for me joining NCC and making my way

this far into it. I could interact with the cadets from different groups, know about how they had their way till here and shared each other's experiences which let me explore to everything I wished for. Though we were from different groups, we still were united by heart and helped each other out to get better. As they say, 2 rough diamonds polish each other in order to outshine the rest, we kept clashing with each other to get better over time. All things considered; we were at a camp where everyone was a rough diamond trying to shine better. I couldn't possibly go any further. Everything doesn't go as planned on the whiteboard but everything I learnt from the camp was something priceless. I wasn't the same person as I was before and after going through all the camps. I was physically fit, mentally strong and was a better version of myself. Experiencing all the hardships and overcoming all the obstacles are one of the vital roles in our lives. This opportunity isn't given to everyone and I grabbed it when I could. All the camps I have gone through helped me improve my decision making and critical thinking. Meeting various COs, having an interview with them and gaining enormous knowledge from them in all the camps is immeasurable which will stay with you forever in all walks of life.

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IT'S NEVER TOO LATE TO DO THE RIGHT THING

I am CDT Spandana, I joined NCC when I was studying 2nd year of engineering, I think it was the best decision I ever made. In my first year of engineering, I didn't know much about NCC, but when I got to know about it and how it helps to build our future by my friend I was the one who regretted why didn't I join? From then I waited for 1 year then in the second year there comes the announcement that NCC selection will be held. The wait is over, I went for the selection with a finger cross, there were around 100 -150 students who wished to join NCC but the vacancies were just 20/21. By my tough luck or my determination to join NCC made me get through the selection. I couldn't express my happiness in my words that day.

It was my first day at NCC, I was overwhelmed to get to know more about NCC and I was excited to learn drill and a lot more. Yes, our seniors were the best. They were strict when it comes to training but they were friendly too in the breaks, we used to have a lot of fun with them and also we can't forget the ragada they used to give us when we were 5 minutes late for the parade. And co-cadets were so supportive and I got very good friends through NCC. On the first day, our seniors asked every first-year cadet why did they join NCC, I was very much happy to answer it. Most of the answer was we want to join the Indian Army and serve the nation. After many days we received our khaki uniforms and nameplate with our names on them. Wow!!, that was a proud moment for each one of us. Being a cadet improved me in a lot of things, it helped me to build my leadership skill and also communication skills.

Now, let me tell you about my experience in the CATC camp which was conducted at St. Vincent Palloti college in February -2021. Due to the corona pandemic going around we had a camp only for 3 days instead of 15 days by following all Corona protocols. But in these 3 days, I learnt a lot of things and it helped me to a great understanding of being a cadet and also helped me to improve my interpersonal skills. In the camp, we used to wake up early in the morning and we use to practise parade and we had weapon training where we got exposure to riffles such as SLR and 0.22. It was my dream to hold a rifle in my hand. We learnt about firing as well, and also we used to have theory classes in the afternoon where map reading and FCBC (Filed craft and Battle craft) were taught us. Overall it was great learning. Through this camp, my self-confidence, my leadership, and communication skills were unfolded. Besides learning, I had a great time with my co-cadets. I got an opportunity to meet different cadets around the city and also got many new friends. Soon after camp, we had a B certificate exam, But my semester exam and my B certificate practical exams coincided so our ANO supported me a lot and also encouraged me to give both practical and theory exams on the same day so that I could not miss my semester exams as well as the B certificate exams. And I did well in both exams without her support, I guess I couldn't have done it.

By joining NCC, my life changed a lot I got a lot of confidence in myself to achieve my dreams and goals and got to know that nothing is impossible because the word itself says "I'm possible". NCC is not just about drill but also it teaches you a lot about how you lead your life. I think I made the best decision of joining NCC even though I was in my 2nd year of engineering.

So, it's never late to do the right thing.

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Future E-Mobility in Industry 4.0

Article By:
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About:
Currently working as Technical Lead in
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architecture for futuristic Auto-Industry

The fourth industrial revolution revolves around the digitization of manufacturing, and is called Industry 4.0. It is defined by the enhancement of smart systems fueled by data and machine learning considering climatic effect.

The coming decade is expected to be the decade of the fully electric car. The electric cars are expected to be as cheap as fuel-powered cars in the foreseeable future. India has a lot to gain from the widespread adoption of e-mobility.

Under the Make in India programme, the manufacturing of e-vehicles and their associated components is expected to increase the share of manufacturing in India's GDP to 25% by 2022.

Why EV Is The Future For Fleets?

A holistic e-mobility ecosystem comprises electric vehicles, charging infrastructure, e-mobility service providers (car sharing, rentals etc.) and regulations. Ride-sharing company Ola recently announced 'Mission: Electric', under which it aims to put one million electric vehicles on the road by 2021.

The demand for electric vehicles is driven by hopes of fast-charging batteries with extended driving range. For automotive players today, the core challenge is developing quality batteries that are long-lasting, safe and can store a lot of energy. In the current ecosystem, lead-acid batteries and lithium ion batteries have emerged as the most suitable options.

Annual vehicle emissions by fuel type (12,000 miles)
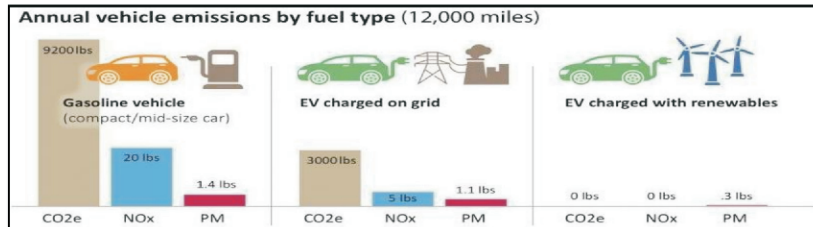
What is the cost of running an electric vehicle in India?

As per the study considering cost and efficiency below is the general comparison taking few years ago (2018-2019) data, thus we can see EVs have greater picture. Today the price of fuel has touched the sky so imagine.....?!

Full charge (120Km): 15 units
(Varies for each Vehicle)
Per Km: 0.125 units
Cost per Km: Rs 0.75
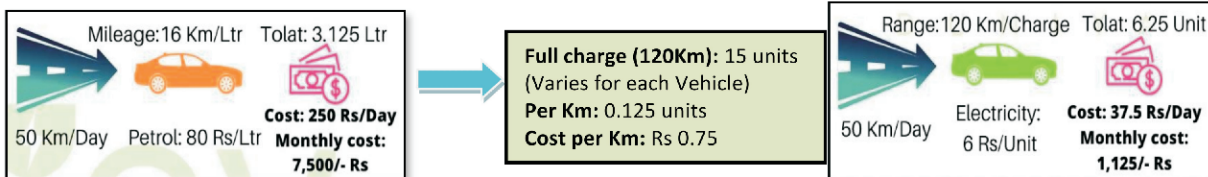
What are the Points of concern for Electric Vehicle owners today in India?

- **Time taken for a Single Charge:** Normally a regular Electric Vehicles takes around 5-8 Hrs to get fully charged. On the other side, traditional vehicles can be refueled within 2-3 minutes. Addressing to this, Rapid chargers are the fastest way to charge your electric vehicle, providing between 60-200 miles of range in 20-30 mins.
- **Availability of Charging Stations:** In India, there are almost negligible charging stations available on highways and in cities, which makes it difficult to sustain an EV in long-distance runs. As of now, according to Society of Manufacturers of Electric Vehicles - there are 1,800 charging stations in India as of March 2021 and this number will increase sooner.

Conclusion & Future

We have seen from the above content that Electric Vehicles are way cheaper than the traditional vehicles and not only do they SAVE MONEY; they are saving our PLANET EARTH as well. EVs are contributing towards a cleaner and greener environment by helping reduce AIR pollution as well as NOISE pollution. Let's join together for bringing up E-Mobility.

Vasudev S

Zindagi na Jana kis mood pe aake ruki Hai.!
Na aage badne ka mauka Hai, nahi piche mudne ka hausla.!
Har roz iisi umeed me guzarta Hu ki Kal ka suraj zindagi me roshni layega.!
Par Har dhalte suraj ke saath zindagi ki umeed bhi dhalti ja Rahi Hai.!
Bas ussi padaw pe aaj bhi khada Hu jaha kahi Saal pehle khada tha.!
Kal jo tha wahi aaj Hu., Daar Hai kahi Kal bhi na Mai kal ki thara reh jauo.,
Na koyi sunne walla Hai., nahi koyi samhaj ne wala.! Akela Hu akela hi laada ja raha Hu.!

Bura waqt bhi dekha hai maine,
Bure loog bhi jhele hai maine .,
Apno se Dhoka bhi khaya,
paraye loogo Ko hasaya bhi maine.,
Thoda sa khush bhi Raha,
Thoda sa Roya bhi hai maine.,
Haar waqt kuch pane ki koshish me bohot kuch khoya bhi hai maine.,
Bekhof kaato pe chalna seekha hai.,
Apne khwahishon Ko zimedari ke dibbe me kaid rakh ke, khusi ki chabi majburiyo me Khoo diya maine.,
Aaye Raab.!
Lagta hai Maan nahi bhara mujhse.,
Le Mai ab bhee khada hu, Azma le mujhe.,
Mai thaka jarur hu haar nahi zindagi se.!

- by **Vasudev S.**
USN: 1BY15CV411
Batch: 2014-2018

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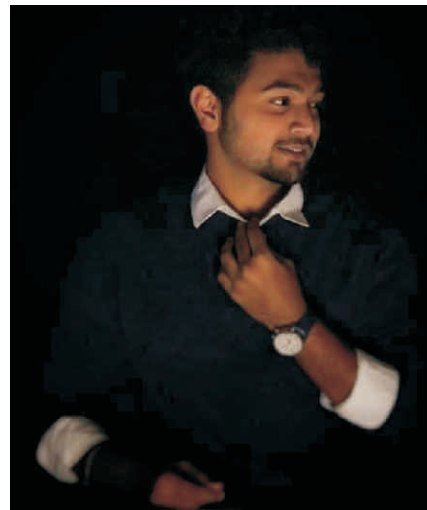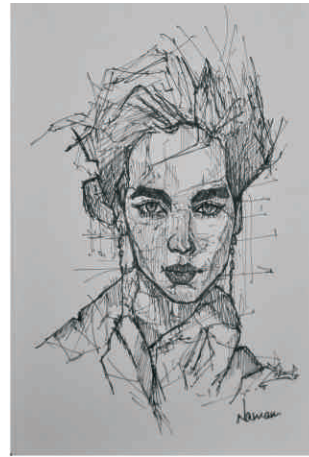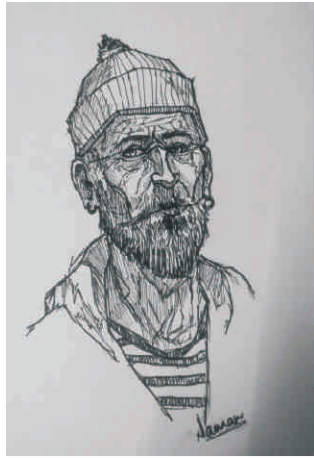
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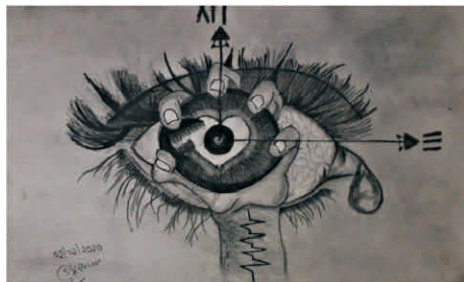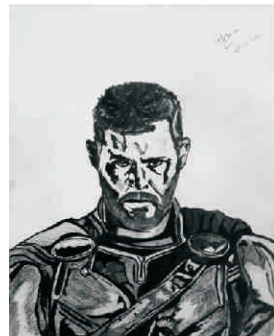
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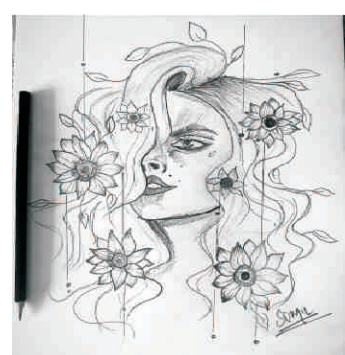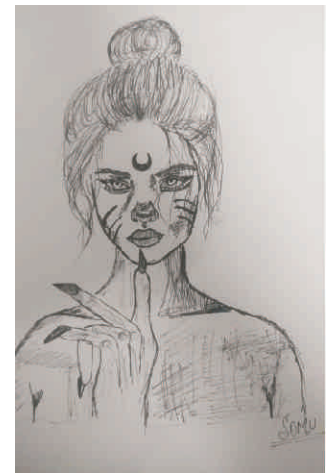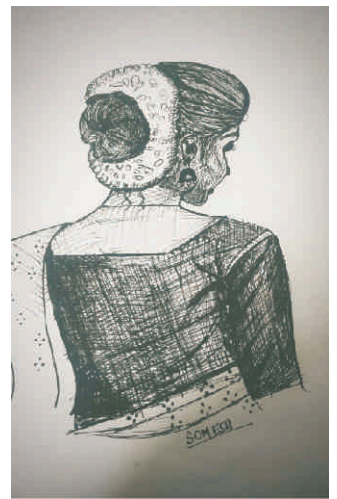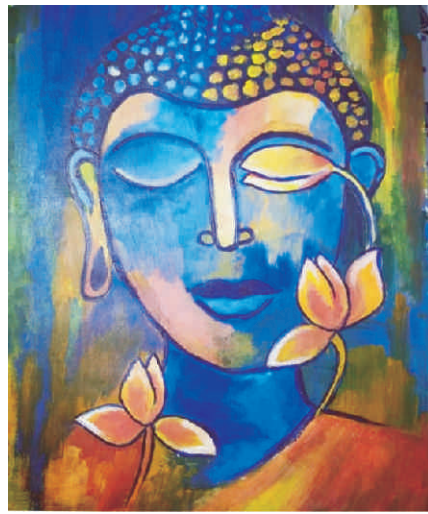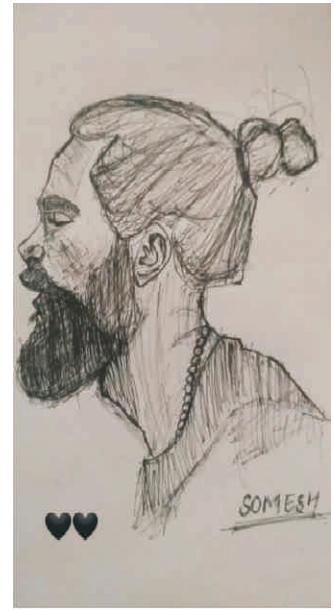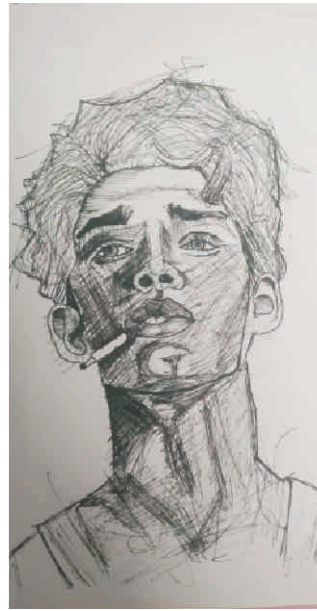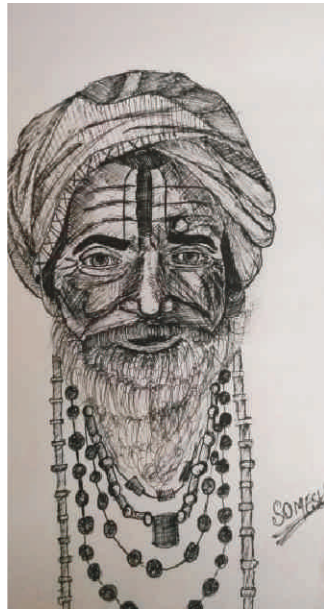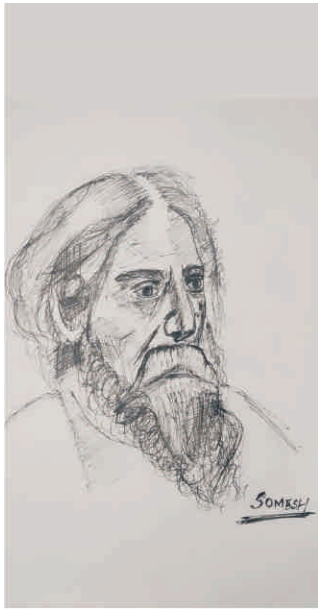
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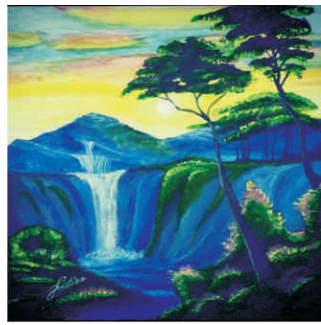
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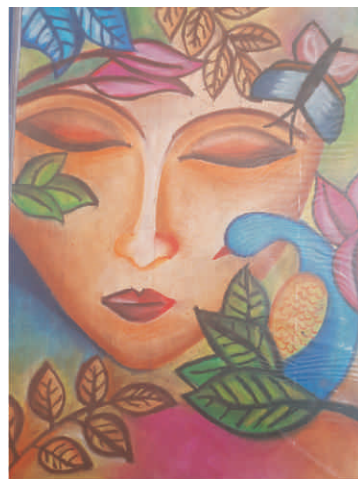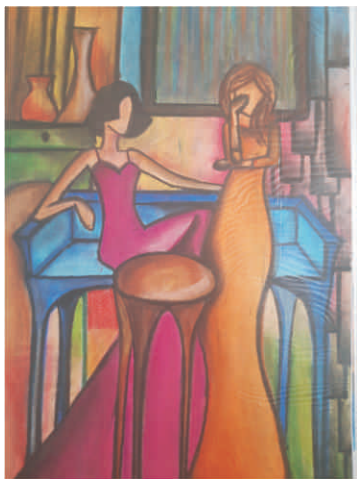
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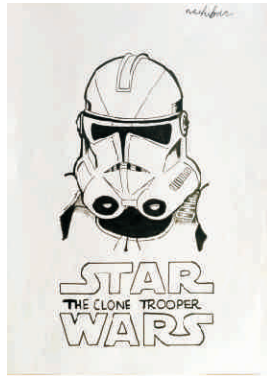
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Poorna R.

Mallela Sai Praneeth Reddy
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Batch - 2020-2024

Akanksha P.
USN - 1BY16CV077
Batch - 2017 - 2021

Monisha K Y
USN - 1BY14CV030
Batch - 2014-2018

Boomika K V
USN - 1BY20CV005
Batch - 2020 - 2024

Chetana Jainapur
USN - 1BY20CV402
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Dheeraj D.
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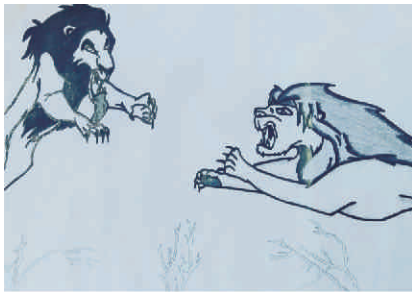
Gagan N.
USN - 1BY20CV012
Batch - 2020-2024

Life Seems to be in Duality :-
Love And Hate, Good And Bad,
Life And Death and so on.
But it is just a matter of Perspective
and Ones Experience!

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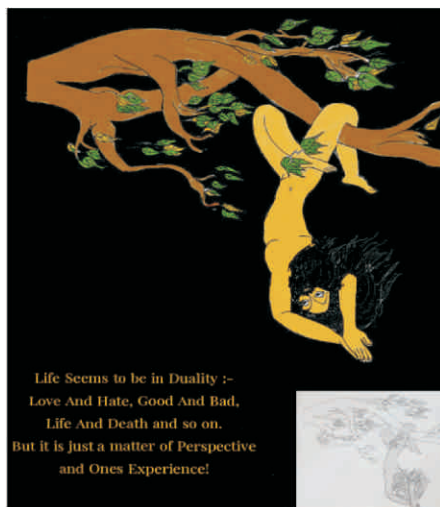
Meghana Arora
4th Sem A Sec

Narmada D
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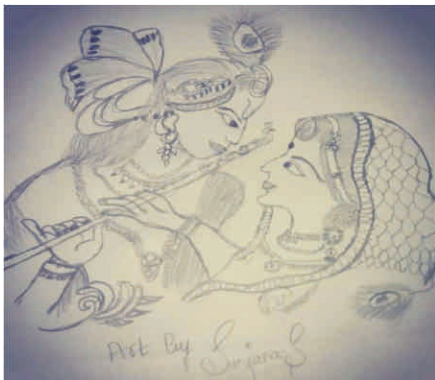
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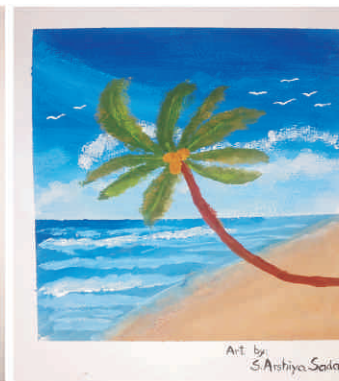
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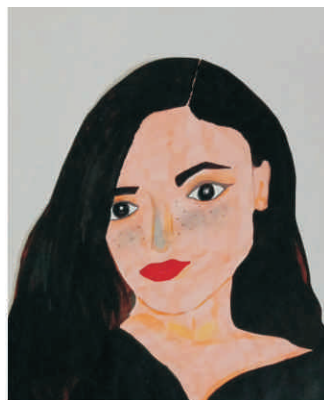
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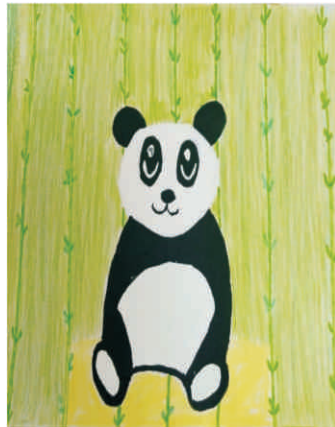
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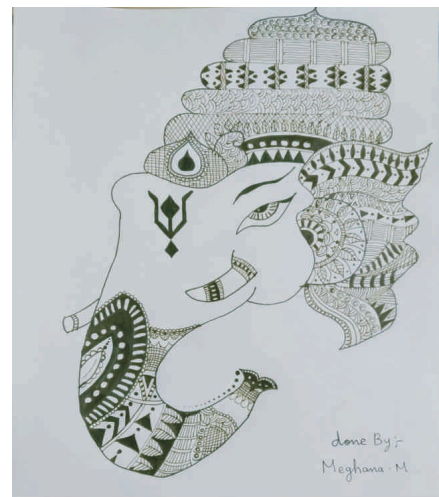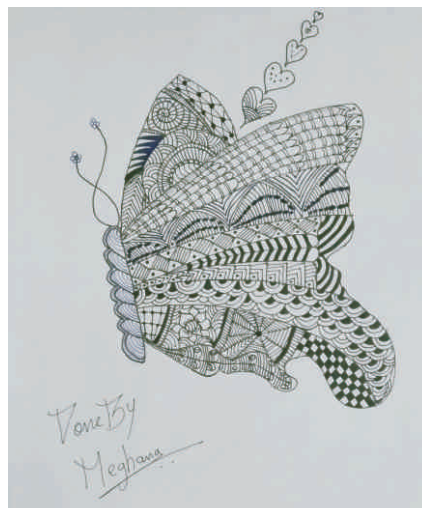
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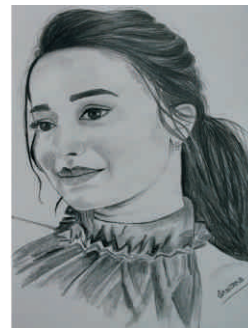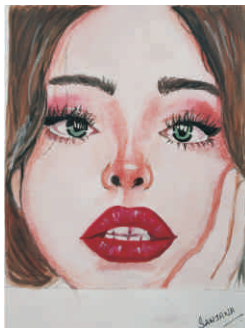
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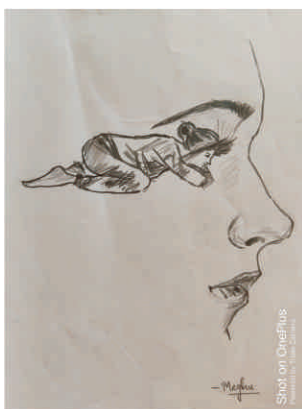
Meghana L
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Sakshi Taple
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Nagashree D S
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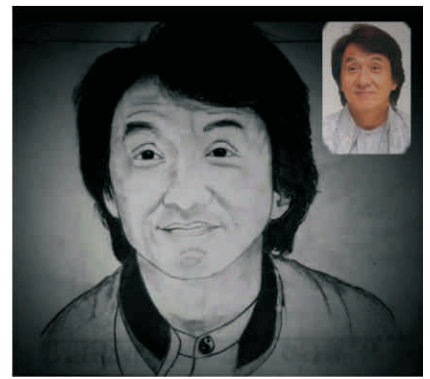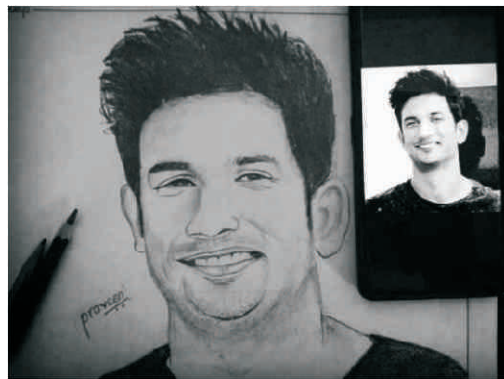
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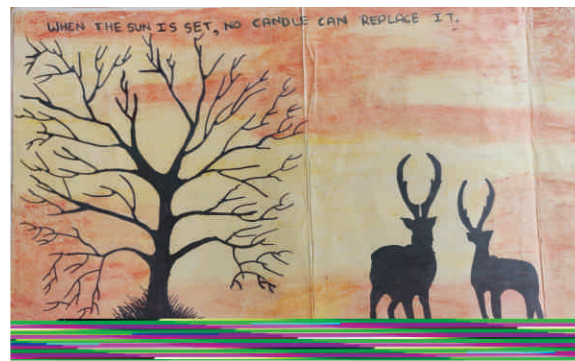
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Priyamvada P
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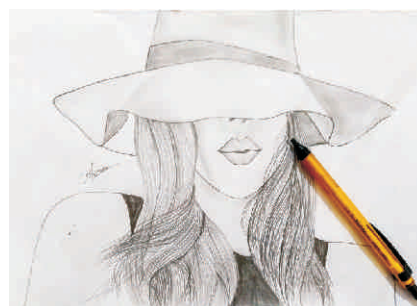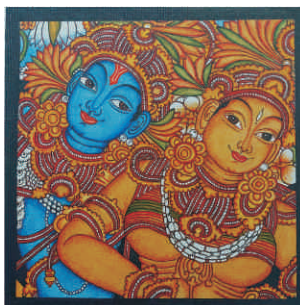
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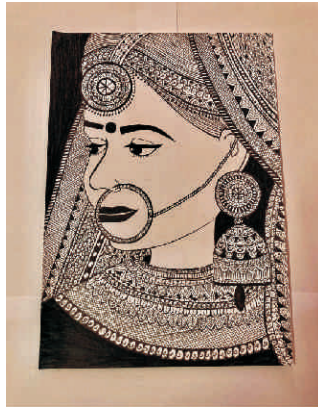
Amrutha R
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6th Sem
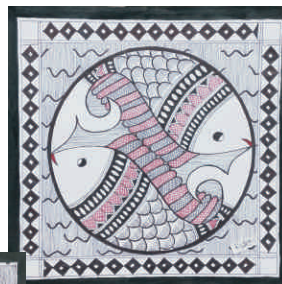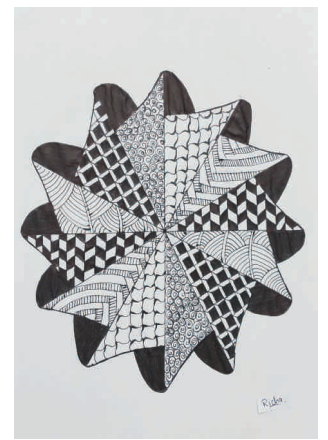
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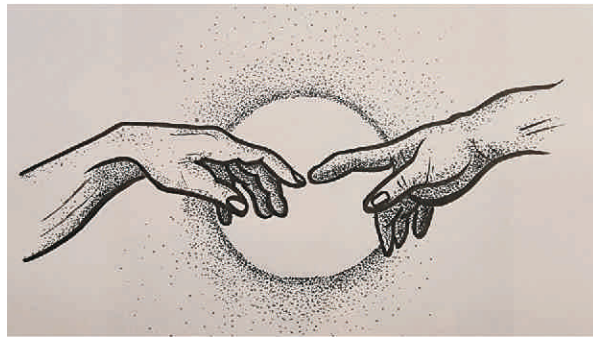
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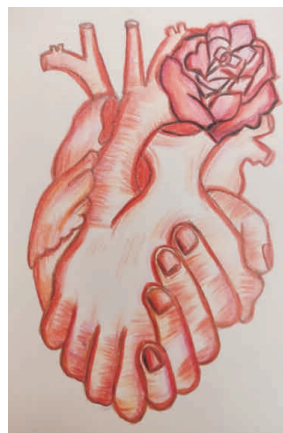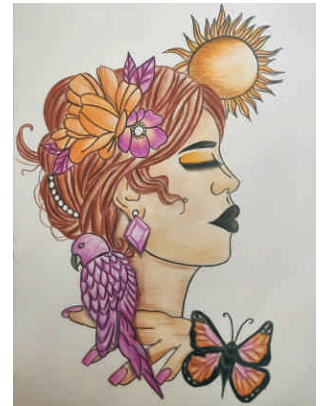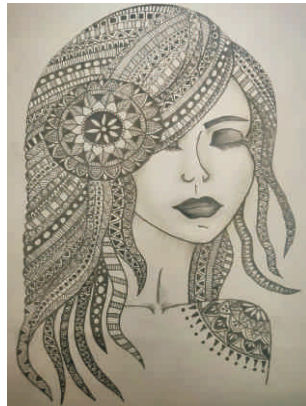
Akshatha
ECE

Aditi P
1BY20AI004
AIML 1st Sem
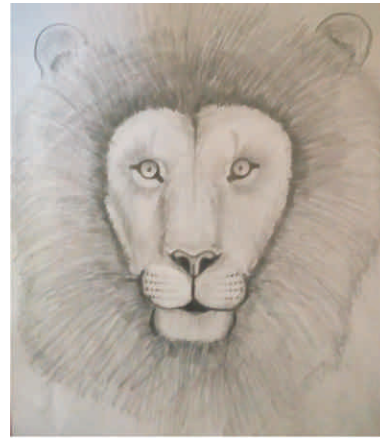
Suchetha P. B.
1BY20EC168
ECE 2nd semester
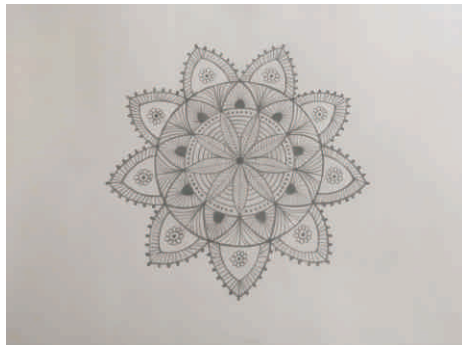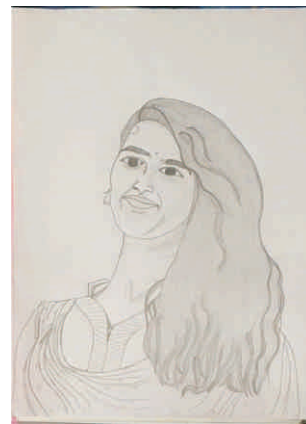
Rekha U.
ECE, 8th semester,
C section

Srinidhi Gudi
ECE
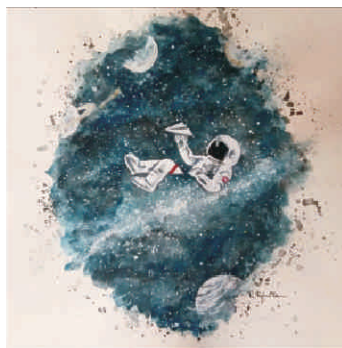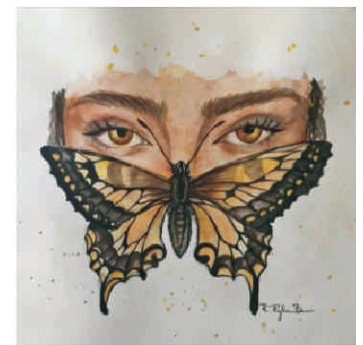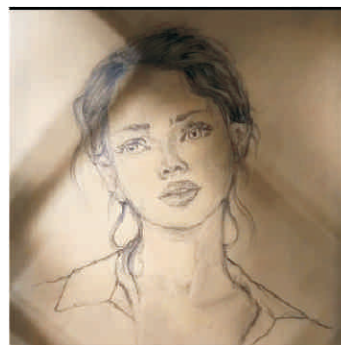
Ryhan Banu
ECE
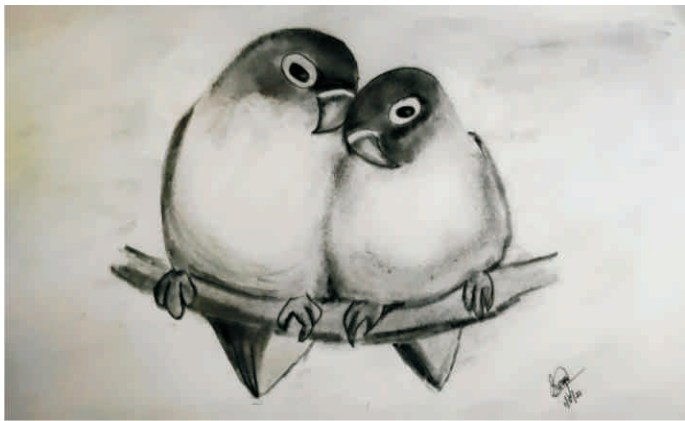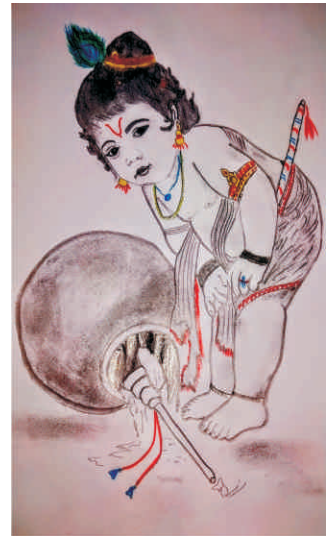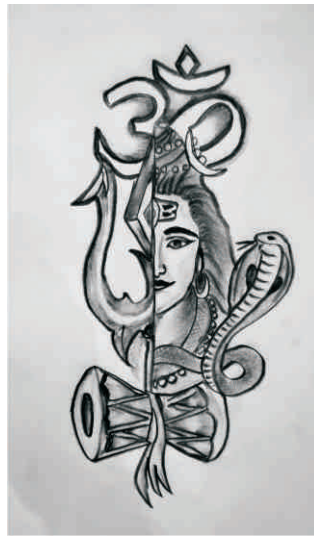
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ECE
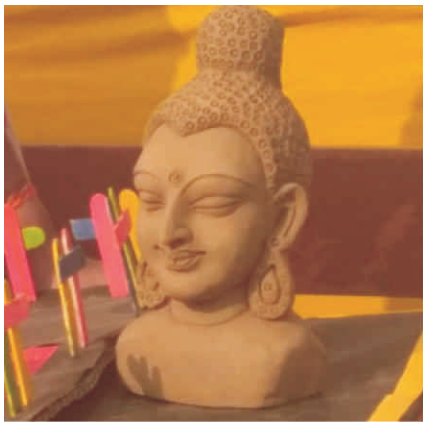
Somesh Kumar
1BY19ME045
IV Sem ME Dept.

Monisha K Y
USN - 1BY14CV030
Batch - 2014-2018
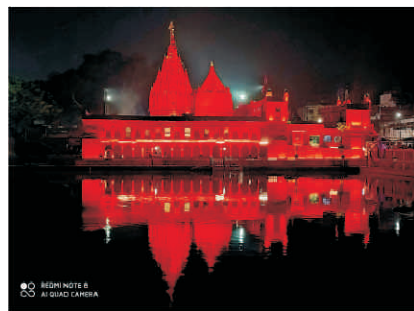
Arman Anasari
2nd Sem, ETE
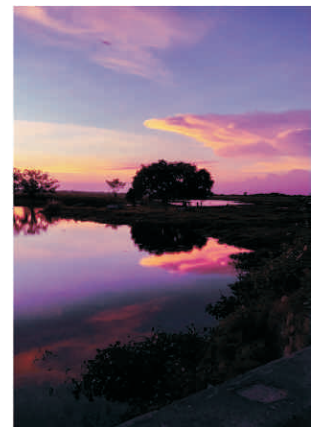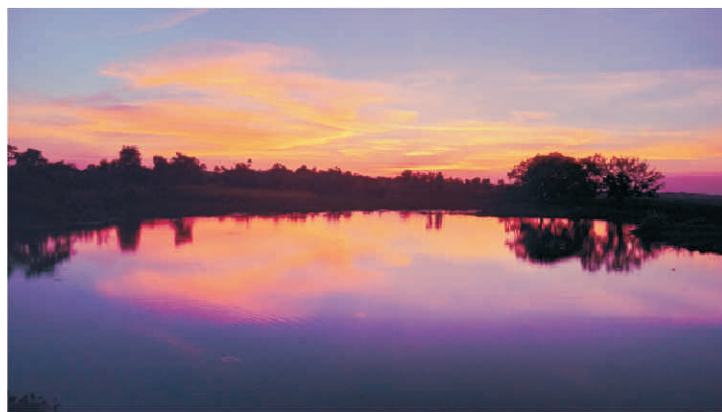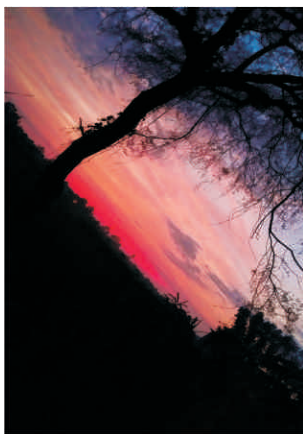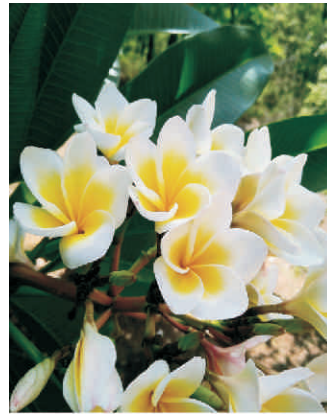
Sanjay M
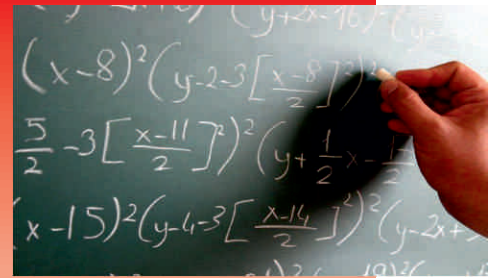USN - 1BY18CV408
Batch - 2017-2021

Manoj
1BY18TE030
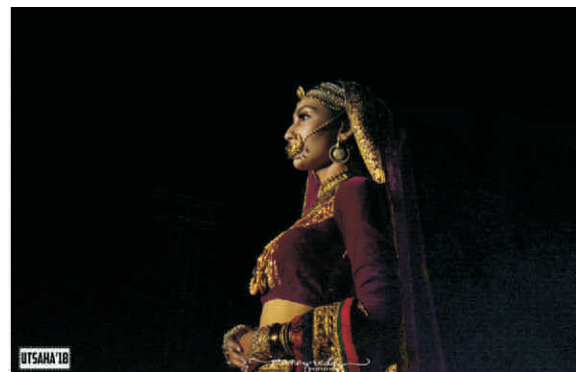
D. Pranay Reddy
USN - 1BY17CV018
Batch - 2017-2021

"into each life some rain must fail"

Aravind Suresh
2nd Sem (AI ML)
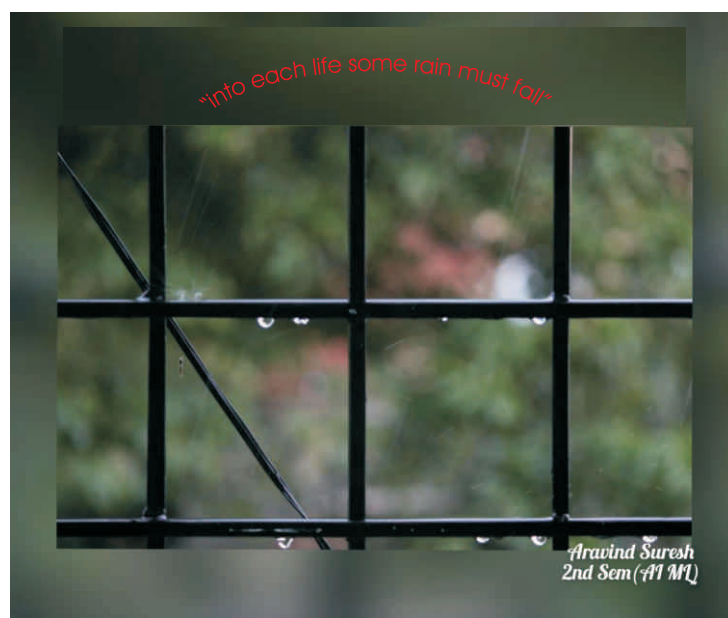
Aravind Suresh
2nd Sem - AIML

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