BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT

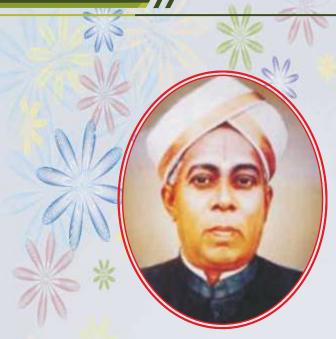


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MANTHANA 2022

ಮಂಥನ 2022



Late Sri B. M. Srinivasaiah Founder, BMSET



Late Sri B. S. Narayan Donor Trustee, BMSET



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

POSTGRADUATE PROGRAMMES

- 1. Masters of Computer Applications (MCA)
- 2. 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



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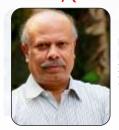
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Member



Regional Officer AICTE South Western Regional Office, Bengaluru

Member Secretary, BOG



Dr. Mohan Babu G N Principal, BMSIT&M

Message from Trustee



The college magazine MANTHANA channelizes talented writers and helps nurture their skills, inspiring and influencing everyone. The magazine exposures and experiences students' abilities and benefits in personality development. It also encourages them to think, organize information into knowledge, and make them active in every aspect of their lives. This magazine showcases a widespread of hidden talents. Every student exhibits different talents but requires a platform to prove themselves, and Manthana justifies the doors open for everyone to participate and enhance their skills.

I congratulate the editorial board and the students for the efforts to bring up Manthana'22.

Dr B S Ragini Narayan

Message from Trustee



It brings me great joy to learn that BMSIT&M will be releasing a new edition of their annual college magazine "MANTHANA'22". Our young talents have expressed their views, ideas, dreams, feelings, aspirations, and convictions creatively. In addition to developing excellent scientific and engineering skills, the students are encouraged to dream big and think exceptionally to face imminent challenges and provide an opportunity for entrepreneurship. I believe an institution's academic expertise must be systematically established and maintained with all-out effort. I thank everyone who contributed intelligent and intriguing pieces, and I commend the Editorial Team for their tireless efforts in creating this magazine.

I wish you the best of luck.

Dr. Dayanand Pai

Message from the Chairman



I applaud the editorial team for bringing out another edition of the annual college magazine of BMSIT&M, Manthana 2022. As a chaiman of this esteemed institution, I am indeed honored by the commitment of the faculty and staff to the holistic progress of young minds, unbiased even at the challenging times of the Covid pandemic. I hope and wish that BMSIT&M will continue to create a friendly academic environment and countless prospects to make promising professionals experienced enough to face the future.

My best wishes are to the principal, faculty, staff, and students of BMSIT&M

Avinam sharma

Sri. Aviram Sharma,

Trustee, B.M.S. Educational Trust

Chairman, BOG, BMSIT& M

Message from the Principal



It is a great pleasure to note that our college magazine MANTHANA is getting enriched year after year. The newer edition being brought out in 2022 presents a lot of interesting and enlightening articles and pieces of literary works done by our student, staff and alumni. 'Manthana', true to its name, has always been serving as a great platform for them to churn out latent talents.

A student would get the best of his/her life if he explores and experiences all the dimensions of it, be it intellectual, curricular, co-curricular and extra-curricular. Over-emphasis on academics supresses the innate talents in students which otherwise would have helped him/her develop a holistic personality. Active participation in all these activities with an appropriate blend makes him/her more valuable to not only himself/herself but also to the society. BMSIT&M has always been at the forefront to recognize this fact and encourage and support students' participation in all these spheres of life.

Given that there were a large number of articles presented for publication in Manthana-2022, the editorial committee must have had a tough time to select from them. My congratulations to all the contributors regardless of whether or not their contribution has found a place in this edition of Manthana. The Magazine committee has done a great job in publishing this piece of value and sharing a copy with us to enjoy. My hearty congratulations to the entire Manthana team, for its untiring effort in this feat.

Dr. Mohan Babu. G.N.

Principal, BMSIT&M

Icharlesto

Editorial Board of Manthana 2022

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BMSIT&M

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From Editorial Desk

We are delighted to bring out the 19th Edition of the techno-cultural annual institutional magazine **Manthana 2022**. 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 SDean Student-welfare

Dr. Annapoorna M SCo-Editor- Manthana 2022

Dr. Anjan Krishnamurthy Editor- Manthana 2022

Prof. Shimna Manoharan Co-Editor, Manthana 2022



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Department Profiles

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 placebased education and collaborations with established research labs and industries.
- Encourage entrepreneurship efforts among students and develop them into great leaders.

PEOs:

PEO1: Possess essential professional engineering skills that make them confident to develop high-quality AI solutions for various application domains under realistic constraints.

PEO2: Demonstrate the importance of lifelong learning through professional development, computing practices, and specialized certifications.

PEO3: Engage and succeed in their professional careers through team work, ethical behaviour, proactive involvement, and effective communication.

PSOs:

PSO1: Ability to apply acquired skills to build optimized solutions adhering to principles and practices of Computational Intelligence.

PSO2: Employ ethical strategies and policies in project and product development.

From HoD's desk



Dr. Bharathi Malakreddy AProfessor and Head

Department of Artificial Intelligence & Machine Learning is committed to encourage students to carry out innovative research in the field of AI applications, keeping excellence in focus and deliver quality services to match the needs of the technical education system, industry and society as per its Programme Educational Objectives. We work on projects challenges associated with socioeconomic, technological, and environmental change. We provide our students with an enriching array of educational experiences, including hands-on participation in faculty- led research. Interdisciplinary research takes students beyond the classroom that bridges disciplines and helps students find their future path, whether it's diving deeper into academics or taking their passion and applying it to other careers.

Faculty of AI&ML are always dedicated and devoted towards the comprehensive development of our students by encouraging them physically through enough sports, psychologically through co and extracurricular activities globally. The Department has well qualified faculty and supporting staff for the smooth interface among students and Parents. The faculty members also deliver Executive Development Program for the corporate sector to name a few such as Volvo, L&T, Sandisk.

The Department in particular has uncompromising discipline and flawless execution of academic policies, which makes the Teaching-Learning environment conducive for all types of students to fulfil their dreams. Department has good interactions and MOUs with leading technology domain Training & Development Industries.

Our goal is to incentivize cross-disciplinary teams working on important flagship projects, teaching learning processes in line with National Education Policy(NEP) and to keep them alive and evolving.

The Department is currently working on 02 funded projects one by Vision group of Science and Technology, Government of Karnataka, and the other funded by Visveswaraya Technological University. Each project represents a big idea that could have a large impact on how we understand the brain, is driven by a highly interdisciplinary team, and has demonstrated success and progress in phase 1. Our undergraduates work shoulder to shoulder with faculty, tackle global challenges, pursue fundamental questions, and translate ideas into action.

Dept. Name: Artificial Intelligence and Machine

Learning

Dept. Established year: 2019

No. of students: (UG)184

No. of Doctorates: 7

Faculty and Staff Count: 11

No. Of Research Scholars: 7

No. of FDP/Workshop/ Seminar/ Expert talk / STTP/ conducted in the year 2021

FDP - 02 Workshop - 01 Espert Talk - 02

No. of publications: 12

No. of OBE activities: 2

Faculty Achievement List: Dr. Bharathi M A (Prof & HOD)

- (Principal Investigator) Funded Project- 10lakhs -VGST, Govt. of Karnataka
- (Principal Investigator) Funded Project of 15.00 Lakhs by VTU Belgaum to work on Neurocognitive Disorders,
- SparseMAX: Accelerating Quantum Neural Networks on GPU Clusters using Sparse-Matrix Kernels - SAMOS. Greece 2021.
- Evolutionary Quantum Transition (EQUATe): A Novel Solution to Optimization Problems IEEE International COnference on EPCET 2021.
- Published paper on "ECC based multi factor authentication and key generation systems for IoT Healthcare", in Turkish Journal of Computer and Mathematics Education.
- "Sylvian-Silva (SFORCE): An Ensembled Boost Approach Towards Machine Learning", presented paper for the conference IEEE CONECCT 2020,
- Delivered a talk on "Recent trends of Artificial Intelligence for 6G Communication", AICTE SPONSORED INDUCTION/REFRESHER, ISTE Belgaum

Dr. Anupama H S (Associate Professor)

- Published a paper on "Smart Attendance using RFID: A Pandemic solution" in High Technology Letters,
- Published a paper on " A Survey on Artificial Intelligence Techniques in Cyber Security", High Technology Letters,
- Published a paper on "Creation of Open Educational Resource (OER) Activity: Flipping the Classroom with Moodle", Journal of Seybold Report
- Presented and published a paper at the IEEE sponsored International Conference on (ICAIS 2021) organised by JCT college of Engineering and Technology, Coimbatore, India on 26.3.2021.

Dr. Vishwa Kiran (Associate Professor)

- PI, Funded by Govt.of India ATAL FDP Rs.93,000 "Bare Metal Programming and RTOS Programming".
- Delivered a talk on "Database design and PL SQL", at NITTTR, Bengaluru on 5.1.2022 and 6.1.2022.

Dr Rakesh N (Associate Professor)

Presented and published paper on "Performance analysis of water quality monitoring system in iot using machine learning techniques", at

- International Conference (FABS-2021).
- Presented paper on "Text Detection and Language Identification on Natural Scene Images using Faster R-CNN", International Conference FABS-
- Presented paper on "NOVEL APPROACH IN paper on "Credit card fraud detection system using machine learning techniques", International Conference on (FABS-2021).

Dr. Pradeep K R Assistant Professor

Dr. Pradeep K R "An Overview of Teaching Techniques in Innovation & Design Thinking" 6th to 10th December 2021.

Student Achievements

A ARUN JOSEPHRAJ (1BY19AI001)

- Sponsored by Meltonfoundation, New York, to attend Melton Foundation (SIETAR conference in Malta) for training and workshops.
- Interned with stipend EvueMe Selection Robot for Research project.
- Conducted and Web development workshop (EDC, BMSIT&M) Hosted 2 days' workshop for students -22-05-2021.
- Best performance in Coding Assessment

SHASHANK R (1BY20AI051)

• 1. Selected, Melton Foundation (SIETAR conference in Malta) for trainings and workshops

NAGAABHISHEKHAR (1BY19AI035)

1. Best performance in Coding Assessment

SUDHANVA SATISH (1BY19AI055)

Best performance in Coding Assessment

M S KAUSHIK (1BY20AI024)

- Participated in National Pulse polio immunization program
- Sadanand Venkataraman (1BY19AI044)
- Delivered invited talk at SNU Chennai September
- Delivered Invited talk for Centre for Learning, Engagement and Action Research (Virtual Talk Series) - February 2022.
- Certified All India Football Federation (D License) Coach - September 2021

MANASA M (1BY20AI026)

- VTU North zone tournament Winner (Table tennis).
- VTU inter-zonal tournament third place (Table tennis)
- Kreedotsav Runners (Table tennis)

NAKSHABP (1BY20AI031)

- Third place in Essay writing competition: "Freedom of speech in cyberspace" Issued by BMS Institute of Technology and Management on Aug 2021.
- Third place in Essay writing competition: "75th Independence Day in the eye of GenZ" Issued by BMS Institute of Technology and Management Mar 2021.

NIDHI (1BY20AI032)

- First prize in national level aviation quiz conducted by iit-b, 2021.
- First prize in aircrash investigation conducted by Manipal Institute of technology, 2022.

Club Activities/ Professional Society activity



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



Dr. Ramakrishnappa T.Associate Professor and Head

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.

Dept. Name: Department of Chemistry

Dept. Established year: 2002

No. of Doctoral Degree Holders: 7

Faculty Count: 7

No. Of Research Scholars: 4

No. of FDP conducted during 2021-22:1

No. of publications: 20

Faculty Achievement List:

- Dr. Sureshkumar K received a project grant of Rs 18.3 lakhs from SERB titled as "Edge functionalized graphene nanoplatelets with quinones as cathode materials for Li-ion battery applications."
- Dr. Jyoti Roy Choudhuri published one book chapter in Springer publications titled as "Metal oxide-Carbon Nanocomposite for Electrochemical storage."
- Dr. Jyothi C Abbar got selected in the Editorial board of Frontiers in Analytical Science journal (Phermaceutical section).
- Dr. Sureshkumar K and
 Dr. Ramakrishnappa T jointly published one
 book chapter in Springer publications titled
 as "Functional polymer materials for
 environmental monitoring and safety
 applications."



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:

- Impart technical proficiency through quality education
- Motivate entrepreneurship through enhanced industry - interaction and skillbased training
- Inculcate human values through outreach activities

PEOs:

PEO1: Lead a successful career by analyzing, designing, and solving various problems in the

field of Civil Engineering.

PEO2: Execute projects through team building, communication, and professionalism.

PEO3: Excel through higher education and research for endured learning.

PEO4: Provide effective solution for sustainable environmental development

PSOs:

PSO1: Identify & address the challenges in transportation, sanitation, waste management, and urban flooding in metropolitan cities.

PSO2: Provide solutions related to civil engineering-built environment through a multidisciplinary approach.

From HoD's desk



Dr. Rajakumar H NProfessor and Head

The department of Civil Engineering @ BMSIT&M is committed to providing quality education to all our students through dedicated faculty members and good infrastructure. Every year, the department conducts many co-curricular and extracurricular activities for both students and faculty to enrich their knowledge and meet the expectations of industry skills and knowledge. I am happy to note that our institute is bringing an annual college magazine for the academic 2021-2022, which can showcase the various activities and achievements of our students and faculty members. The magazine will also cover the activities of the department and institute as a whole to enrich the knowledge, skills and attitude of our students and faculty to benefit the industry and society from a larger perspective. I congratulate the editorial team members for bringing out this magazine. I wish you all the best in your future endeavours.

Dept. Name: Civil Engineering

Dept. Established year: 2013

No. of students (UG+PG): 215

No. of Doctorates: 11

Faculty Count: 15

No. Of Research Scholars: Nil

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

No. of publications: 11
No. of OBE activities: 7

Student Achievements

Dr S. K. Shivakumar award, with a cash prize of Rs.10,000/- KSTA Bangalore for the Innovative Project titled "Regulating Water supply to reduce water Wastage and ensure equal distribution of water in rural areas " and "Plastic tiles with Fireproofing Technology" under the guidance of Mr Vinod B R

Ten students visited the prestigious ATAL-TUNNEL Mega Structural Project for Our India under the scheme granted by AICTE for the study tour under YUVAK.



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:

PEO1: Lead a successful career by designing, analyzing and solving various problems in the field of Computer Science & Engineering.

PEO2: Pursue higher studies for enduring edification.

PEO3: Exhibit professional and team building attitude along with effective communication.

PEO4: Identify and provide solutions for sustainable environmental development.

PSOs:

PSO1: Analyze the problem and identify computing requirements appropriate to its solution.

PSO2: Apply design and development principles in the construction of software systems of varying complexity.

From HoD's desk



Dr. Bhuvaneshwari C MProfessor and Head

I am extremely happy to share with you the progress of Department of Computer Science & Engineering has made during 2021. 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 16 scholars are enrolled for PhD. The department is supported by 35 qualified and experienced faculty members with 19 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: 920 + PG: 13

No. of Doctoral Degree Holders: 19

Faculty Count: 35

No. of Research Scholars: 16

No. of FDP/Workshop/Webinars / Expert talk / STTP/ conducted during 2021-22

FDP: 01, Workshop: 2, Expert Talk: 12, webinar: 2

No. of publications: 39 Indexed in Scopus

No. of OBE activities: 38

Faculty Achievement List

 Dr. Bhuvaneshwari C.M, Professor, Dept. of CSE has been invited as a president of,17th Kannada sahitya sammelana great, memorable moment on 26.03.2022 at Vijayapura

 Dr. Hemamilini have received teaching excellence award from Foundation Innovative Research in ICRIR-2021 held at Malaysia. Also she has been conferred the prestigious "Adarsh Vidya Saraswati Rashtriya Puraskar" award, by the Global Management Council 2021.

 Dr. Arunakumari B. N. has been selected as program coordinator for Leadership in Teaching and Excellence (LITE) by AICTE as one of its 50 Brand Ambassadors of LITE Program 2021.

Dr. Srivani P. and Dr. Ashwini was awarded Ph. D. degree during 2021-22 from VTU.

Student Achievements

- The 6th Sem CSE student Rishab A Rokhade, Cadet Senior Under officer(CSUO) have been awarded The Dy.Director General Commendation Card by Air Commodore Bhupender Singh Kanwar, VSM, DDG-Karnataka & Directorate.
- The 8th Sem CSE students Asif Ali Ahmed R, Vishnu Sastry, Roobini G, Sheetal Neeraj, has been selected for 1st Prize to Dr S K Shivakumar State Award from Govt of Karnataka under the guidance of Dr. Arunakumari B. N. First prize Includes citation with cash amount of 10000/-.
- The 8th Sem student Nitya Dyuthi, Vishnu Sastry, Likith S, Sheetal Neeraj, Tushar Pandey, Rakhi Purwar have been qualified for internship from Old Domino University.
- The 6th sem student Shravani have been invited to participate in campus visit to Dillard University, USA. Her TA and DA are covered by the by the Melton Foundation.
- The 6th Sem Students Anu Nitya P, Likith V, Roshini S have selected for top performer in Code-Kaze 2021, India's biggest online coding event.
- The 6th Sem Students Tejaswini S Rao has published a poem in Poetry Anthology Perfect Flaws by the Write Order in 2021.



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:

- Impart sound theoretical concepts and practical skills through innovative pedagogy.
- Promote interdisciplinary research.
- · Inculcate professional ethics.

PEOs:

PEO1: Work as professionals in the area of Electronics, Communication, and allied Engineering fields.

PEO2: Pursue higher studies and involve in interdisciplinary research work.

PEO3: Exhibit ethics, professional skills and leadership qualities in their profession.

PSOs:

PSO1: Demonstrate the knowledge of electronic devices, circuits, micro-nano electronics, and other fundamental courses to exhibit competency in the domain of VLSI design.

PSO2: Comprehend the gathered knowledge and technological advancements in the field of communication and signal processing.

PSO3: Exhibit the skills gathered to analyse, design, develop software applications and hardware products in the field of embedded systems and allied areas.

From HoD's desk



Dr. Jayadeva G SProfessor 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+PG): 832

No. of Doctorates: 14

Faculty Count: 26

No. of Research Scholars: 15

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

Seminar: 06 Expert talk: 07

No. of publications: 30

No. of OBE activities: 60

Faculty Achievement List

- Dr. Anitha V.R, Associate Professor, Electronics and Communication Engineering received a best reviewer award for the contribution to ICCCEG 2021 as technical reviewer from ASDF, UK
- Dr. Saneesh C T, Associate Professor, ECE Department awarded with Ph.D degree for the thesis titled "Modeling and Analysis of EEG Signals and its application to characterize transient effects" during VTU 21st annual convocation held on 10.03.2022.



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:

PEO1: Have successful professional careers in Electrical Sciences, and IT enabled areas and

be able to pursue higher education.

PEO2: Demonstrate ability to work in multidisciplinary teams and engage in lifelong learning.

PEO3: Exhibit concern for environment and sustainable development.

PSOs:

PSO1: Analyze and design electrical power systems.

PSO2: Analyze and design electrical machines. PSO3: Analyze and design power electronic controllers for industrial drives.

PSO4: Analyze and design analog and digital electronic systems.

From HoD's desk



Dr. Narappa Reddy RamaraoAssociate Professor and Head

The Department of Electrical & Electronics Engineering was started in the year 2003-04 with an approved intake of 60 students. The department has a team of well qualified, experienced and dedicated faculty who also have undergone professional training from leading organizations in "Teaching-Learning Methodologies". The IEEE Student Chapter was started with overwhelming response from the student community and faculty. All the laboratories that were set up initially are constantly upgraded keeping in view both University requirements and Research activity in the department.

The students are encouraged to work on both in-house projects and also with leading Research Organizations in Electrical Sciences. Many students and also faculty members have published papers in National & International Journals. The placement through the campus placement is excellent and many students have secured

admission in prestigious Universities abroad. In the recent past, the students graduating from the department are placed in reputed Information Technology consulting companies and core Electrical Engineering companies. The Department is a VTU approved research centre. The Programme is reaccredited by NBA for three years 2019-2022.

The pedagogy of the department is shifting towards Outcome Based Education. As part of this a Academic Council has been set up to take valuable suggestions and views on the activities happening in the department.

Dept. Name: Electrical and Electronics Engineering

Dept. Established year: 2003 **No. of students (UG+PG)**: 237

No. of Doctorates : 5

Faculty Count : 15

No. of Research Scholars: 10

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

Workshop: 01 Expert Talk: 08

No. of publications: 27

No. of OBE activities: 04

Faculty Achievement List

- Dr. Prashant A Athavale, Assistant Professor, received a Best Paper Award for the research paper titled "Gabor Filter Based Ribs Detection on the Chest X-Rays" at 5th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICEECCOT-2021), 10.12.2021 organized by GSSSIETW, Mysuru.
- Prof. Kattimani H.D, Associate Professor, was a BOE member for VTU EEE composite Board for AY 2021-22.

Student Achievements

 Aishwarya Manjunath secured 3rd position in Game of Stocks a Trading Simulation Competition in association with StockGro organized by Avenues – IIT Bombay from 11th October to 22nd Oct 2021.

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:

- Conducive learning environment and research activities
- Good communication skills, leadership qualities and ethics
- Strong Industry-Institute interaction

PEOs:

PEO1: Excel as Professionals in Electronic and Telecommunication and IT related fields.

PEO2: Engage in life-long learning.

PEO3: Maintain ethical norms, exhibit good communication skills and leadership qualities.

PSOs:

PSO1: Analyze and design communication systems

PSO2: Analyze and implement signal processing applications.

PSO3: Design and implement embedded systems

From HoD's desk



Dr. Raju HajareAssociate Professor and Head

I take pleasure in sharing some of important information about my ETE dept. which is NBA accredited. Dept. is proud that it has 24 students' ranks in the university with two Gold Medals to its credit. Dept. of ETE practices OBE and brings innovation in Teaching Learning Process (TLP), through a team of competent and committed faculty members and technical staff. At present, we have more than 70% of our faculties with Ph.Ds. Dept. has funded project from VTU by Dr. Seema Singh as a PI and one AICTE sponsored ATAL FDP by Dr.Mallikarjuna Gowda.C.P for the academic year 2021-22.

Dept. Name: Electronics and Telecommunication Engineering

3 - - 3

Dept. Established year: 2003

No. of students (UG+PG): 218

No. of Doctorates: 07

Faculty Count: 11

No. Of Research Scholars: 04

No. of FDP/Workshop/ Seminar/ Expert talk / STTP/ conducted in the year 2021 Detail the

count separately

FDP:1

Expert talk:3,

Alumni talk:1, Workshop:1

No. of publications: 23

No. of OBE activities: OBE:25, Open Course:02

Faculty Achievement List: PhD:3

Best professor:01

Student Achievements: 09

IETE Club Activities/ Professional Society

activity: 01



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.

PEO

PEO1: Successful professional career in Information Science and Technology.

PEO2: Pursue higher studies & research for advancement of knowledge in IT industry. PEO3: Exhibit professionalism and team work with social concern

PSO

PSO1: Apply the knowledge of information technology to develop software solutions. PSO1: Design and develop hardware systems, manage and monitor resources in the product life cycle.

From HoD's desk



Dr. Pushpa S KProfessor 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 NBA. The department has been imparting quality education through Outcome based education to the students by providing excellent learning environment, best teaching methods, innovation mentoring and industry institute interaction. These parameters help to mold out students to be technically competent to serve the society. The department has 17 qualified and dedicated faculty members. The department has 09 Ph.D holders and 08 are pursuing. The faculty members are actively involved in Teaching, Research and Outreach activities and published good number research articles in various National, International Conferences and Journals

Dept. Name: INFORMATION SCIENCE AND

ENĠINEERING

Dept. Established Year: 2010

No. Of Students (UG +PG): UG: 566

No. of Doctoral Degree Holders: 13

Faculty Count: 20

No. Of Research Scholars: 09

No. of FDP/ Workshop/ Seminar/Expert 01 /

02/00/02/00

No. of publications: 09

No. Of OBE activities: 01

Faculty Achievement List: 02

Student Achievement: 00

Club Activities/ Professional Society activity

: 03

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:

PEO1: Develop innovative IT applications to meet industrial and societal needs.

PEO2: Adapt themselves to the changing IT requirements through lifelong learning.

PEO3: Exhibit leadership skills and advance in their chosen career.

From HoD's desk



Dr. P. GaneshProfessor 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: 167 (As per sanctioned intake

60)

No. of Doctorates: 4
Faculty Count: 10

No. of Research Scholars: 6

No. of FDP/ Expert talk / STTP/ conducted: 3

No. of publications/presentations: 14

No. of OBE activities: 25

Club Activities/ Professional Society activity:

Invited Talks by Faculty Members: 12

Alumni Interaction: 10 **Patents Published**: 4

Faculty Achievement List

- Dr. Aparna K, Associate Professor, Department of MCA is appointed as member of BoE (MCA Composite Board – Ph.D.) – VTU for the academic year 2021-22.
- Dr. P Sudarsanam, Asst. Professor, Department of MCA has been appointed as Member of BoE, VTU-MCA for the academic year 2021-22.
- Dr. P Sudarsanam, Asst. Professor, Department of MCA was session chair for the INNOCENTRIC – 2021, Virtual Inter-Collegiate Project Competition held at Global Academy of Technology, Bengaluru on 23.07.2021.
- Dr. Aparna K, Associate Professor, Department of MCA was a reviewer for the IEEE Region 10 Humanitarian Technology Conference 2021 hosted by Microsoft, in July 2021.
- Dr.P.Ganesh has been promoted to the designation of Professor with effect from 01.01.2022.
- Dr. Drakshaveni G, Asst. Professor, Department of MCA was awarded the Ph.D. Degree in the 21st VTU Convocation held on 10.03.2022 at VTU, Belagavi.



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. Karabi Sikdar 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. The Department of Mathematics received one funded project worth Rs. 6.4 Lakhs from the DST, New Delhi.

Dept. Name: MATHEMATICS

Dept. Established year: 2002

No. of students (UG+PG): NA

No. of Doctorates: 09

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: 05 Expert talk by Faculty: 08

Expert talk by Faculty: 08 International webinar: 01

No. of publications: 09

No. of OBE activities

The department of Mathematics conducted the OBE "Learning MATLAB concepts though coding/programming" to all I semester students.

Faculty Achievement List

 Dr. Karabi Sikdar -- Received Topper and Elite certificate for NPTEL online certification course on Mathematical Methods in Physics 1, Feb- April, 2022 organized by Indian Institute of Science Education and Research (IISER), Bhopal.

- Dr. Karabi Sikdar -- Selected as a Scientific Committee member ICFEMS-22, APS College of Engineering, Karnataka and Institute for Engineering Research and Publication (IFERP), Virtual Conference, 27th - 28th April, 2022.
 - Dr. Karabi Sikdar -- Selected as a member of the Editorial Board of the GRD Journal since 21st July, 2021.
- Dr. Karabi Sikdar -- Selected as a National Advisory Committee member for International Conference on Innovative Challenges and Advances in Engineering & Technology: A Road to self-reliant India (ICAET - 2021) - Virtual Conference, 05th -06th September 2021, Organized by Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology (VIMEET) in Association with Institute for Engineering Research and Publication (IFERP).
- Dr. Karabi Sikdar -- Selected as a National Advisory Committee member for 2nd International Conference on Emerging



- Dr. Karabi Sikdar --Reviewed a research article for the journal "Journal of Mathematical Modelling", 17th January, 2022.
- Dr. Karabi Sikdar Reviewed a research article for ICMC 2022, 16th December, 2021.
- Dr. Karabi Sikdar -- Reviewed a research article for the journal "Global Research and Development Journals (GRD Journals)", 9th July, 2021.
- Dr. Annamma Abraham is a reviewer of a paper for Waves in Random and Complex Media, Taylor & Francis in April 2022 and September 2021.
- Dr. Annamma Abraham was a reviewer of a paper for International Journal of Applied and Computational Mathematics (IACM), Springer Journals during March 2022.
- Dr. Annamma Abraham was an External Examiner for the Ph. D viva voce examination at Hindustan Institute of Technology and Science, Chennai on 24th February, 2022.
- Dr. Annamma Abraham conducted the PhD open viva-voce examination as an external examiner, of a research scholar, Christ University on 4th August, 2021.
- Dr. Annamma Abraham is an examiner to

- adjudicate a doctoral thesis in Mathematics, Christ (Deemed to be University), Bengaluru in June 2021.
- Dr. Chethan A S -- Selected as an external subject expert of the faculty selection committee at Sai Vidya Institute of Technology on 22-05-2021.
- Dr. Chethan A S- Reviewer of a paper for Waves in Random and Complex Media, Scopus indexed Journal during September 2021.
- Sreelakshmi T K -- Patent published in Indian Patent journal on "A compact IOT based Indoor air monitoring system", Application Number- 202141025148, Journal Number- 24/2021, Indian Patent Office, Journal Date: 11/06/2021.
- Sreelakshmi T K successfully completed final Ph. D, viva voce on 22.04.2022, committee recommended for the award of doctoral degree.
- Dr. Jojy Joseph Idicula was recognized as NPTEL Discipline Star, January-April, 2021 in the month of October, 2021.
- Dr. Annapoorna M S -- Reviewed a research article for Materials Today: Proceedings. (ELSEVIER) on 02.03.2022.



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.

PEOs

Graduates of the program will:

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.

PSOs

Graduates of the program will:

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 delighted to share the progress of the Department of Mechanical Engineering during the year 2021-22. This programme is affiliated to Visvesvaraya Technological University (VTU), Belagavi and approved by All India Council for Technical Education (AICTE). The UG programme is accredited by the National Board of Accreditation (NBA), New Delhi and also Permanently Affiliated to Visvesvaraya Technological University (VTU), Belagavi. I am happy to share that during this period four faculty have been awarded with PhD degrees. The department has always been on a progressive path because of the experienced and dedicated faculty members who have a strong commitment towards providing quality engineering education. Along with the strong academic activities, the students will be involved in the various activities like Project Based Learning (PBL), open course, interdisciplinary projects, societal relevance projects, skill based workshops, student internships, industrial visits, partial delivery of the curriculum by industry experts, poster presentations to name a few. All these activities will significantly enhance the learning ability of the students and help to build their holistic development.

Name of the Department: Mechanical Engineering

Year of Establishment: 2002 - 03 No. of students (UG+PG): 246 No. of Doctoral Degree Holders: 12

Faculty Count: 19

No. of Research Scholars: 21

No. of FDP/Workshop/ Seminar/ Expert talk / STTP/ conducted in the year 2020 Detail the count separately

Number of FDPs: 1 Number of STTPs: 1 Number of Expert Talk:4 International Webinar:2

No. of publications: 20 No. of OBE activities: 4

Faculty Achievement List

 Prof. Praveen Kumar T N and Team of students Vignesh N ,Samarth Sagar K, Rushil Praveen, Shivam Sundriyal Kartikay Awasthi filed a patent. Tittled "A System for a Helmet with an Inflatable Air Bag" whose Application Number is 202141046205 and the date of Filing is 11th October 2021.

- Dr. Keerthi Kumar N, Received financial assistance of Rs. 5,000/- from VTU, Belagavi, for the final year project Tittled "Design and fabrication of shredding cum composting machine" on 25th November 2021.
- Dr. Keerthi Kumar N, has been honoured on occasion of 11th Prathibothasava for the successful completion of Ph.D from "Karnataka Arya Vysya Mahasahha" Bangalore on 26th December 2021
- Mahasabha", Bangalore on 26th December 2021
 Dr. Shripad Diwakar was awarded Doctorate Degree during VTU 21st Annual Convocation held at VTU Belagavi on 10th March 2022.
- Dr.O. Gurumurthy was awarded Doctorate Degree during VTU 21st Annual Convocation held at VTU Belagavi on 10th March 2022.Student AchievementsThree teams from Aeroclub BMSIT&M participated in Trivia Jet 2.0, a National level Aviation Quiz competition conducted by IIT-Bombay on 14th July 2021. Siddharth (1BY18ME056) secured the fourth position, which saw over 100 teams participating in it.

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. R. LOKESH Associate Professor and Head

- Department of Physics was established in the year 2002. The Department has well experienced and qualified teaching and The department has seven teaching faculty technical staffs. members with six doctorate holders and one registered for Ph. D.
- The department caters to the needs of all the engineering branches as it is a basic science department at first year. Autonomous syllabus is framed as per the NEP-2020 by incorporating hands-on training and applications oriented contents in the syllabus.
- The Engineering Physics Lab is well furnished with latest equipments and all necessary amenities. The Results of the department in VTU examinations has been consistently excellent.
- Faculty members of the Department are actively involved in various research activities such as guiding research scholars, publishing research papers, executing funded projects, arranging FDPs, workshops, webinars and giving invited talks.
- Our faculty members have received research grants from various agencies like DST-SERB, VGST and successfully completed number of projects
- The Department has been recognized by VTU as a Research Centre since 2014-15. The Centre for Advanced Materials Research lab (CAMR) 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. Two Research scholars are completed their doctoral degree from our research center and at present six scholars are registered for their Ph. D. programme.

Dept. Name: PHYSICS

Dept. Established year: 2002

No. of students (UG+PG): NA

No. of Doctorates: 06

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: 4 Expert talk by Faculty: 02

No. of publications: 22

No. of OBE activities: 01

Faculty Achievement List

- Conducted Physics department BOS meeting on 12th October 2021 member to design curriculum for autonomous syllabus for AY: 2021-22.
- Dr. R. Lokesh, Associate Prof. is nominated as BOE member for Physics Board by VTU.
- Dr. N. Dhananjaya, Associate Prof. has successfully supervised two Ph.D. students.
- Mrs. Yashaswini, Assistant Prof. has successfully completed her Ph.D. from VTU in the month of August 2021.
- Mrs. Ashwini KR, Assistant Prof. has submitted her Ph.D. thesis to VTU.
- Dr. Daruka Prasad B, Assistant Prof. is nominated as BoE member at Manipal University and JNTUA, Ananthapur.
- Dr. C. Kavitha, Assistant Prof. received VGST-K-FIST-L2 Project worth Rs. 20, 00,000/
- Dr. C. Kavitha, Assistant Prof. received outstanding women scientist award in Materials Science at VIWA-2022, International Women Conference at Green Park, Chennai on 5th March 2022.
- Dr. Basavaraj R.B., Assistant Prof. has been listed in among the Top 2% most influential Scientist list for the Year 2020 by the survey carried out by Stanford University USA.

SECTIONS AND INSTITUTIONAL CLUBS / CELLS / UNITS PROFILE

Training and Placement 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. Manjunath T NPlacement Officer

Training & 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 connect, we could achieve considerable breakthrough in providing ample opportunities to our students over the years. Today, our alumni are present in about 400+ organizations across the globe. We at placement cell are regularly discovering ways to make our students more and more employable by internships, inviting startups for recruitment, alumni providing interactions on industry standards/expectations etc. The Training & Placement cell is headed by Dr. Manjunath T N, Professor, and supported by Prof. Ambika R. Subhash, Dr. Raghunandan G H, Dr. Ravichandra K R, Ms. Ashwini S and Mr. Narasimha Murthy M, in addition to the core

Highlights 2022 Batch

300+ companies visited for recruitment as on date (2022 batch placements still in progress)

1006+ Pre-placement offers so far

Highest CTC offers by: RZRG Technology - 30.00 LPA, INDmoney - 25.30 LPA, SAP LABS - 20.60 LPA, WALMART GLOBAL - 20.00 LPA, WELLSFARGO - 20.00 LPA,AMAZON - 19.00 LPA, CLOUDERA - 22.0 LPA, MONEY VIEW - 16.00 LPA, NEWFOLD DIGITAL - 15.00 LPA, PHARMEASY - 14.00 LPA, GAIN SIGHT - 14.00 LPA, PHONEPE - 14.00 LPA, GAMES 24X7 - 13.00 LPA, ANZ- 12.00 LPA.

Highest number of offers made by COGNIZANT, CAPGEMINI, WIPRO, ACCENTURE, SKILL VERTEX, ORACLE,, MPHASIS, ANZ, ADANI GROUP, MONEY VIEW etc.

Top recruiters like SAP LABS, INFORMATICA, AMAZON, ENDURANCE, SIEMENS, COGNIZANT, CAPGEMINI, ROBERT BOSCH, WIPRO, ATKINS regularly visit campus.

New recruiters like ACCOLITE, DELTAX, HAPPIEST MINDS, LEEWAY HERTZ, PROLIFICS,

KRYPT, IAST SOFTWARE SOLUTIONS, JSW, TATA TECHNOLOGIES, etc. visited BMSIT&M for 2022 batch.

2018 Batch		2019 Batch		2020 Batch		2021 Batch		2022 Batch *	
								(As on 10.5.2022)	
No. of Offers	No. of Companie s Visited	No. of Offers	No. of Companie s Visited						
483	126	515	113	573	119	724	132	1006	300

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 and July 2022, to enhance their learning and prepare them better for their upcoming placement season from August 2022. Employability assessment tests was conducted for these students by Hackerrank, hackerearth, 10seconds and Seventh-sense platforms to assess the readiness of the students and make them more industry ready.

INTERNSHIPS

The B.E, M.Tech and MCA students of the 2022 batch, were offered Internships by top companies such as, Amazon, Endurance, Epicor, Cognizant, Wipro, Siemens, Informatica, etc. around 850 students have pursued their internships from 550 distinct companies and 768 students are being given stipends ranging between Rs. 5,000 p.m. to Rs. 80,000 p.m.

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.



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	57532				
E-books	15081				
Print Journals	97				
e-Journals	7544				

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

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

- Library Organized User Awareness Program on 10th July 2021 conducted by the Librarian (Club Secretary). 55 members attended the program that covered Features of NDLI objectives, activities and events.
- On the occasion of 75th Independence Day, Essay writing Competition on the theme "Freedom of Expression in Cyberspace" was organized on 10th August 2021. 24 students participated in the event. Three students got Cash Prizes by the Principal, evaluation done by Prof. Tejaswini B.J.
- Webinar on Paper Publishing was organized on 17th September 2021. The Resource Person was Dr. Dhanukumar Pattanashetti, Sr. IEEE Client Service/University Partnership Program Manager. 112 participants attended the webinar.
- Library organized a book talk event on 8th October 2021 on the book titled "Analog and Digital Electronics by the author Dr. Raghunandan G.H, Department of Electronics & Telecommunication Engineering, BMSIT&M. 35 participants attended the webinar.
- Pearsons e-Library 2.0 a Walkthrough was presented by Sri. Suryakumar Kunishetty on 12th November 2021. 35 participants attended the webinar.
- Webinar on Intellectual Property Rights a multi club even in protecting Inventions and Innovation by Dr. Piyush Kumar Pareek from NMIT held on 13th February 2022 through Webex Platform. 237 participants attended the event.
- Webinar on National Education Policy a multi club event and Engineering Education was organized on 8th April 2022 by Dr. Thippeswamy. G, Prof. in CSE, BMSIT&M, Bangalore spoke on vision of NEP 2020, Preamble, Policy, Process and Journey, Higher Education in India: Challenges, Curriculum vis-à-vis NEP 2020 etc. 30 persons attended the program.



e-log Register at Reference



Library Entrance



Circulation Section



OPAC



Reference Stack Area



Personal Reading Room



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

T o 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 HoDs Desk



Mr. Mallikarjun B PatilDirector 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.







INDOOR FACILITIES: Carom, Chess, Table Tennis, Shuttle badminton, Boxing, Yoga & Weightlifting Etc.









Gym At College Premises:









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

Gym at Hostel Premises:









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

SPORTS ACHIEVEMENTS FROM JUNE 2021 TO APRIL 2022

S1.	Event/Team	Tournament/	Date		Result / Remarks		
No.		Competition	From	to			
1	Badminton (M&W) A & B teams in Mixed doubles open category	BSN Memorial BMSSA for staff	08/10/21	09/10/21	Secured 1 st place & 2 nd place respectively		
3	Badminton (M) blw 40 yrs.	th Zana Inten Callagiata	Do duninton	(M 0-W)	Secured 3 rd place		
3	Organised VTU Bengaluru North Zone Inter Collegiate Badminton (M&W) Tournament for the year 2021-22 on 15 th & 16 th Nov. 2021						
4	Badminton (M&W)	VTU B'luru N Zone	15/11/21	16/11/21	Men - Secured 2 nd place		
5	Table Tennis (W)	BMSCE Kreedotsav	22/11/21	25/11/21	Secured 2 nd place		
6	Table Tennis (M&W)	VTU B'luru N Zone	24/11/21	25/11/21	Both teams Secured 1 st place		
7	Table Tennis (M&W)	VTU Inter Zone	27/11/21	28/11/21	Women Secured 3 rd place		
8	TT player Ms Shweta J of III ISE represented VTU team to participate in South Zone Inter University Table Tennis (W) Championship at Amet University Chennai (TN) in Jan 2022						
9	Basketball (M)	VTU B'luru N Zone	17/12/21	18/12/21	Secured 2 nd place		
10	Mr Dheeraj Reddy Y A of VII EEE represented VTU team to participate in South Zone Inter University Basketball (M) Championship at Christ University Bengaluru in Jan 2022.						
11	Volleyball (M) Staff	PES Staff Tournament	26/02/22	27/02/22	Secured 2 nd place		
12	Staff teams participated in BMS MILANOTSAVA 22 on 17 th -18 th March 22 & secured Winners: Volleyball (M), Chess (M&W) Table Tennis (M) & Badminton Mixed Doubles. Runners: Tug-of-War (M), Table Tennis (M&W)						
13	Mr Daivik P Shetty of V ME represented VTU team to participate in South Zone Inter University Netball (M) Championship at Bharathi Dasan University (TN) from 29 th to 21 st March 2022.						
14	Mr Abhinav Bhatt of I ISE represented VTU team to participate in South Zone Inter University Chess (M) Championship at SRM University (TN) from 1 st to 3 rd April 2022.						
15	Mr Dheeraj Reddy Y A of VII EEE represented Karnataka team & played 71st senior Nationals - Secured Bronze Madal.						



Team Achievements:

BMSIT&M Badminton (M&W) Staff Teams participated in B S Narayan Memorial Tournament Organized by BMSSA:

Secured 1st and 2nd Place in Open Mixed Doubles and 3rd Place in Below 40 Years Men's Category



Badminton (Men) Team Secured 2nd Place in VTU Bengaluru North-Zone Inter-Collegiate Tournament 2021-22 was organized by BMSIT&M, Bengaluru



Table Tennis (W) Team Secured 3rd Place in BMS Kreedotsav Inter-Collegiate Tournament 2021-22 Organised by BMSCE, Basavanagudi, Bengaluru.



Table Tennis (Men & Women) TeamS Secured 1st Place in VTU Bengaluru North-Zone Inter-Collegiate Tournament 2021-22 was organized by SVIT, Bengaluru.







Table Tennis (W) Team Secured 3rd Place in VTU Inter-Zone Inter-Collegiate Tournament 2021-22 was organized by RVCE, Bengaluru.



BMSIT&M Volleyball (M) Team Secured 2nd Place in PES Annual Inter Collegiate Staff Tournament – 2022 Organized by PES University



Basketball (Men) Team Secured 2nd Place in VTU Bengaluru North-Zone Inter-Collegiate Tournament 2021-22 was held at our campus organized by BMSSA, Bengaluru.



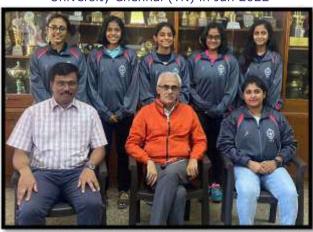
Our college staff teams participated in BMS MILANOTSAVA 2022 was held in BMSCE campus on 17th & 18th March 2022. our college staff secured several awards in this, among them: Winners in Volleyball (M), Chess (M&W) Table Tennis (M) & Badminton Mixed Doubles.

Runners in Tug-of-War (M), Table Tennis (M&W)



INDIVIDUAL ACHIEVEMENTS:

Ms. Shweta J of III ISE, (TOP RIGHT) was selected for VTU team to participate in South Zone Inter University Table tennis (W) Championship was held at Amet University Chennai (TN) in Jan 2022



Mr. Dheeraj Reddy Y A of VII EEE, (4TH FROM THE LEFT TOP ROW) was selected for VTU team to participate in South Zone Inter University Basketball (M) Championship was held at Christ University Bengaluru, Karnataka in Jan 2022





Mr. Daivik Shetty of V ME, represented VTU team to participate in South Zone Inter University Netball (M) Championship was held at Bharathidasan University (TN) on 19th to 21st March 2022



Mr. Abhinav Bhatt of I ISE, Represented VTU team to participate in South Zone Inter University Chess (M&W) Championship at SRM University Chennai (TN) from 1st to 3rd April 2022



Mr. Dheeraj Reddy Y A of VII EEE, (3RD FROM LEFT IN SITTING ROW) represented Karnataka state men team in the 71st Senior National Basketball Championship at Chennai, Tamil Nādu in April 2022. In this Karnataka State (M) Team Secured Bronze Medal. This result has been repeated after 25 years.





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, Institutional 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 Institutional 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 and 10 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, Cofounder, Sterling Media Labs. About 40 students were part of this interactive session. https://youtu.be/5fMLeq7dnd0

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, <u>challenge assumptions</u>, <u>and redefine problems</u>.

<u>Panel discussion on "Atmanirbhar Bharat</u> - 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. The YouTube link for thehttps://www.youtube.com/watch?v=hEOiSrx





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.

YouTube links of the session are mentioned below.

D a y 1 - https://www.youtube.com/watch?v=quR65m W6UoM&list=PL1d6F3LzBGKkaxyTA-

hC3W518PZ0f-DAi&index=7

D a y 2 -

https://www.youtube.com/watch?v=SQH4cB EmVuY

D a y 3 -

 $\frac{\text{https://www.youtube.com/watch?v=cB tsl1i}}{\text{DJM\&list} = \text{PL1d6F3LzBGKkaxyTA-}} \\ \text{hC3W518PZ0f-DAi}$





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).

Events Conducted during the period August 2021 to May 2022

Event Number: 01

Event Title: Online Quiz – "India our Nation"
In view of Azadi Ka Amrit Mahotsav –
75th Independence Day Celebration
– online Quiz event

Place: Online - BMSITM

Date of Event: 14th to 15th August 2021

Volunteers Participation: 03

Brief Description: To create awareness on

our country

Beneficiaries: 232







Event Number: 02
Event Title: Online Quiz – Awareness
campaign

on "Safe Blood Donation"
Place: BMSITM

N 2004

Date of Event: 12th November 2021 Volunteers Participation: 10

Brief Description: Awareness on Safe Blood Donation created by NSS Volunteers

& Lion Blood Bank Doctors

Beneficiaries: 1000+ donors and students

Event Number: 03

Event Title: Online Quiz - Voluntary Blood Donation Camp

Place: BMSITM

Date of Event: 13th November 2021

Volunteers Participation: 50

Brief Description: The volunteer blood donation happened in BMSITM Campus at

Amphitheatre. There are total 352 units of blood collected from this camp. Beneficiaries: It helps to save around 1000 of patients who needs the blood.









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Event Number: 04

Event Title: Online Quiz - Children Day Celebration with Vidyagokula & Antaraganga Orphanage

Place: Singanayakanahalli and Antaragange, Kolar

Date of Event: 14th November 2021

Volunteers Participation: 20

Brief Description:

This program was organized by NSS & YRC Cell of BMSITM. The orphanage Vidya Gokula Charitable Trust, Singhanayakanahalli consists of the children from 5th Year to 16 Years and old age mothers. By visiting this place, our students understood that, how much they are blessed with their parents, in terms of food, shelter and regular needs. We were given inputs to the children about how to properly utilize their timing for their continuing education and also advised to be first amongst in their classes, both in education and as well as sports. The other team visited On account of children's day 10 volunteers from NSS UNIT, BMSIT visited ANTHARAGANGA MENTALLY CHALLEGEND RESIDENTIAL SCHOOL AND ORPHANGE, Kolar and donated all the donations we had collected from the college. (books, clothes, toys, stationary).

Beneficiaries: 80+ children and oldage people were benefitted.





Vidyagokula Orphanage, Singanayakanahalli





Antaraganga, Kolar Orphanage Visit



Programme Participated by NSS Volunteer / Programme Officer

 Attended Life Skills Workshop held from 14th to 19th February 2022 at NIMHANS – Department of Epidemiology, Center for public health, Bengaluru under the banner of Yuva Spandana, supported by Government of Karnataka.

The following topics were covered during the workshop through the activity based learning Life Skills are...

- 1. Self-Awareness
- 2. Managing emotions
- 3. Effective Communication
- 4. Empathy
- 5. Interpersonal Skills
- 6. Critical Thinking
- 7. Creating Thinking
- 8. Decision Making
- 9. Problem Solving
- 10. Coping with Stress













Gender Champion Cell

Events Organized Under Gender Champion Cell

Extempore Competition

The Gender Champion Cell of BMS Institute of Technology and Management conducted an Extempore Competition on December 3rd, 2021 - 2:00 - 3:00 pm. The purpose of the extempore competition was to highlight the importance of Gender Equality and how it is a human rights issue. The event was open to all students of BMS Institute of Technology and Management.

The event was a success with 28 registrations and saw participation from students of various branches and all years of study. The final event turnout was 9 Participants that delivered their views highlighting various issues and problems faced by all three genders Male, Female and Transgenders. The Moderators for the event were, Aditi S of 7th Semester, Department of ETE. and Charitra of 5th Semester, Department of ECE. The Judges for the event were,

Mrs. Shimna Manoharan, Assistant Professor Department of CE, and Mrs. Chandra Prabha R, Assistant professor Department of ECE.

The winners of the extempore competition were,

1st Place: Rohit Joshi - 7th Semester, Department of ETE 2nd Place: Namana S - 3rd Semester, Department of ISE

3rd Place: - Poorna N S - 5th Semester, Department of ISE and Chaitanya M

7th Semester, Department of ISE.











Department of Electronics & Telecommunication Engineering

IETE Student Forum



An Expert talk on "Design Thinking and Innovations In Electronics and Telecommunication Engineering"

An expert talk on "Design Thinking and Innovations in Electronics and Telecommunication Engineering", was conducted by IETE in association with TELECOMMUNICATION ENGINEERING ASSOCIATION, Dept. of ETE, BMSIT&M on 16th December, 2021 during 1:30p.m. – 3.00p.m. The talk was delivered by Mr. Bhaskar Venugopalan Technologist, Industry Consultant. An insight on Keys of Innovation and Design Thinking was

delivered. A brief talk about the four C's and the four pillars of Design Thinking was discussed. The four C's of Innovation are: Curiosity, Courage, Collaboration, Creativity. The four pillars of Design Thinking are: Empathy, Collaboration, Inclusivity, Iteration. Innovation is the practical implementation of ideas that result in the introduction of new goods/services or improvement in offering goods/services. Around 99 students participated in the event. The program was coordinated by Prof. Sowmyashree M S, Dr. Sumathi M S and Prof. Thejaswini S (IETE Coordinator), Assistant Professor, Dept. of ETE.





Mr. Bhaskar Venugopalan Technologist, Industry Consultant discussing innovations with students



OIKOS

Eco-Club



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.

On the occasion of World Environment Day (5th June 2021); OIKOS had floated an Online Environmental Awareness Quiz upon the Theme "How much do you know about World Environment Day", to enhance Environmental Sensitization across all types of Stakeholders in India. The quiz was attempted by more than 2500 participant from across India.

On the Eve of World Environment Day, Dr Rajesh Gopinath had also presided as the Chief Guest in World Environment Day Celebrations; organised by the Federation of International Students Associations Bangalore (FISA-B) and Indian Council for Cultural relations (ICCR) viz. the Online Platform. He spoke about Relevance of World Environment Day; via Google Meet



Nadu, Telangana, Bihar, West Bengal, Madhya Pradesh, Punjab, Maharashtra, Uttar Pradesh, and the Union Territory of Jammu and Kashmir. Some of the Saplings planted also included Jackfruit, Mango, Guava, Neem etc.As part CSER activity of **OIKOS** (BMSIT&M), and for the Compliance with Smart & Green Campus requisites as per AICTE;

The Theme for World Environment Day 2021 was Ecosystem Restoration. In this direction, OIKOS (Eco-Club, BMS Institute of Technology and Management, Bengaluru) had encouraged every individual to plant and nurture a sapling belonging to a native species. This Noble act would be benevolent to several species of Birds, Mammals and Insects. As part of World Environment Day Celebrations; OIKOS had organized "Native Species Sapling Drive", with an effort to enhance Greenery all around. More than 133 saplings were planted and nurtured across India, spanning over 12 states; including Gujarat, Kerala, Rajasthan, Tamil



E-waste Awareness and Collection drive was carried out during November-December 2021. As part of this exercise, about 1000+ students (including Faculty) had submitted e-wastes. Overall, about 1000+ kg of E-waste was collected from the entire exercise; which had been handed over on 29th December 2021 in presence of office-bearers to New Delhi based Govt. Recognized Authorized Recyclers "Namo eWaste Management Ltd".

1st Prize: Mr JP Jai Puneeth - Dept. of EEE 2nd Prize: Ms Rajeshwari - Dept. of CV

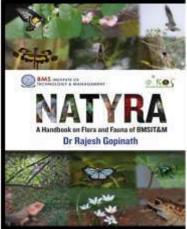
3rd Prize: Mr Mayank Malhotra - Dept. of CSE



As part of its Outreach, OIKOS has Bestowed upon the Its Inaugural "Green Stewardship Award" to renowned Environmentalist and Film Actor Shri Suresh Heblikar; on 22nd April 2022, as part of the 52nd Anniversary of World Earth Day celebrations. A memento and citation was presented to the Dignitary. The honour was in due recognition of his valuable efforts in Environmental Outreach, Activism and Services". As part of its Outreach, on 22nd April 2022 (52nd Anniversary of World Earth Day celebrations) OIKOS has honoured Shri Sanjai Mohan

(Retd. PCCF & HoFF, Karnataka Forest Department) with a Token of Green Gratitude in the form of a portrait to celebrate his illustrious Green service for the Karnataka Govt. The uniqueness of the portrait (painted by OIKOS student member Ms Madhumita - Dept. of AIML) was the fact that it presented in it the face of the dignitary alongside the Karnataka Map, featuring within it the Places wherein he was posted during his long tenure. Also, the depiction of species for which Shri Sanjai Mohan had worked for, wrt their conservation was showcased.







Dr Rajesh Gopinath (Key Liaison-OIKOS & Associate Professor, Department of Civil Engineering) has authored the Handbook on Flora and Fauna of the Green Campus of BMSIT&M. The repository is titled Natyra with ISBN-978-93-5593-203-7, and its 1st and 2nd Volume; detailing records of Lepidoptera and Odonata, was released on 22nd April

2022 by the Office Bearers of OIKOS and eminent Personalities namely Shri Suresh Heblikar and Shri Sanjai Mohan, with appreciation messages by various Naturalists, Experts, Scientists and Shri Basavaraj Bommai (Hon. Chief Minister for State of Karnataka).

As part of its outreach, OIKOS (Eco Club, BMS Institute of Technology and Management, Bengaluru) has honoured Shri Rahul Bavaji (Founder-Green Umbrella, NGO, Dandeli) with Green Crusader's Award on 30th October 2021 at Panchavati, Kumbaravada, Uttara Kannada District, Dandeli, Karnataka. The award was bestowed to reciprocate his valuable efforts towards Wildlife Conservation and Environmental Protection. The felicitation was done in presence of Shri Shantaram Siddhi, MLC, Dandeli.

OIKOS (Eco Club, BMS Institute of Technology and Management, Bengaluru) has organized a Nature Trek for the BMSIT&M faculty at Makalidurga on 7th November 2021. The objective was to introduce the participants about surrounding natural landscapes around BMSIT&M; and as well to sensitize them w.r.t. the identification and importance of resident peri-urban Flora and Fauna.

OIKOS was instrumental in recommending MOOC on "Introduction to Environmental Law and Policy", an online non-credit course authorized by The University of North Carolina at Chapel Hill and offered through Coursera. The course was mandated as addendum, for all 3rd year students engaged in studying the course 18CIV59 (Environmental Studies). More than 1060 students have successfully completed the course, wherein almost all these students are also members of OIKOS. Also, in this direction, another MOOC on "Global Environmental Management", an online non-credit course authorized by Technical University of Denmark (DTU) and offered through Coursera was mandated as addendum, for final year students engaged in studying the course 18CV753 (Environmental Protection and Management). About 150 students have successfully completed the course, wherein almost all these students are also members of OIKOS.

As part of its outreach, Dr Rajesh Gopinath, Key Liaison, OIKOS (Eco Club, BMS Institute of Technology and Management, Bengaluru) has provided his servicers as an expert in the Bird and Butterfly Survey, jointly organized by Salem Nature Club and Tamil Nadu Forest Department on 18th and 19th December 2021.

Dr Rajesh Gopinath (Key Liaison-OIKOS & Associate Professor, Department of Civil Engineering) has published a Book Chapter titled "Environmental Stewardship by OIKOS (Eco-Club) in Biodiversity Management", in the Book titled "Current Trends in Agriculture", published by Discovery Publishing House Pvt. Ltd., New Delhi (India), during Jan 2022. The citation is as follows: Rajesh Gopinath, Environmental Stewardship by OIKOS (Eco-Club) in Biodiversity Management, Current Trends in Agriculture, pp. 156-166, 1st Edition, Discovery Publishing House Pvt. Ltd., New Delhi (India), 2022, ISBN: 978-93-88854-82-5.

As an outreach activity of OIKOS, Dr Rajesh Gopinath (Key Liaison-OIKOS & Assoc. Professor, Dept. of Civil Engineering) has delivered an Invited Talk on "Circular Economy: Paradigm Shift in Waste Management", on 17th January 2021; in the capacity of a Resource Person as a part of the FDP "Waste to Wealth", organised by the Department of Civil Engineeirng, KSSEM, Bengaluru.

Dr Rajesh Gopinath (Key Liaison-OIKOS & Associate Professor, Department of Civil Engineering) has provided his expert services during the 3-day Annual Faunal Survey at Shendurney Wildlife Sanctuary from 25th to 27th February 2022.

Dr Rajesh Gopinath (Key Liaison-OIKOS & Associate Professor, Department of Civil Engineering) and Miss Varsha G (Student Member) has published a Research Media Article "Bangaloru Nagarada Pakshigalamele Nagarikaranada Prabhava" in the Kannada Magazine "Kaadu Naadu", Vol. 10, March 2022.

As a joint initiative with an objective to sensitise students towards Nature and its Lifeforms, OIKOS (Eco Club) and Photography Club of BMSIT&M haS organised a Nature Videography Competition on 21st March 2022 to commemorate the International Day of Forests. The output was a 5 minutes' video, which showcases the splendour of our college's green campus. The competition was restricted to inputs from BMSIT campus only. The prizes winners are as follows:

On 22nd April 2022 (52nd Anniversary of World Earth Day celebrations) OIKOS has conducted the Farewell Function for its Final year active student oordinators/members, as part of its tradition.





A research article titled "Land of the Dying Lakes" of Dr Rajesh Gopinath (Key Liaison-OIKOS & Associate Professor, Department of Civil Engineering) has been published in the Cover Page of the News Media "Bangalore Mirror", on 4th May 2022.



Women Empowerment Cell



"International Women's Day celebration – March 2022"



Women Empowerment Cell, BMSIT&M celebrated International Women's Day on 9th March 2022. On this eve of women's day celebration, the Women Empowerment Cell invited Mrs. Uma Reddy MD, M/S Hitech Magnetics & Electronics Pvt Ltd Promoter Director, WeConnect International India as the chief guest to BMSIT&M. Her company won the Performance Award as best supplier from GE Medical Systems in 2001, Kirloskar Best Supplier award in 2005, ABB Safety award in 2007 and 2011. She has also won a National award for Women Entrepreneurs, 2001 & has received the Rajyotsava award in 2005 for her contribution to society.

The chief guest Mrs. Uma Reddy, Principal Dr. Mohan Babu G N , Dean student welfare Dr.C S Mala and Chief Coordinator of Women Empowerment Cell Dr. Usha B A were welcomed by Lieutenant Rani. The event started with lighting of lamp by the dignitaries followed by an invocation song by Miss Irene Maria Daniel 3rd sem ECE student.

The chief guest Mrs. Uma Reddy enlightened the staff and students about the importance of Entrepreneurship. She motivated the students to come up with start-up ideas. Our Principal gave the progressive talk on Gender equality.

Games were organised by the students for the Staff and housekeeping followed by lunch in the amphitheatre to all the Lady Staff, Housekeeping, Gardeners, and Gents staff of housekeeping. Prizes and gifts were distributed to all the staff and housekeeping staff.









Public Relations & Media Cell



Prof. Venkatesh APublic Relations Officer

Cell Members:

- 1) Prof. Venkatesh A, Public Relations Officer
- 2) Prof. Reshma CR, Faculty Member
- 3) Mr. Jai Puneeth, Student Member, Civil Dept.
- 4) Mr. Pramod Gowda, Student Member, ISE Dept.
- 5) Mr. Nandeesh V, Student Member, MCA 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.



Aero Club

Aero Club BMSIT&M is a platform for students interested in aviation, aircrafts, spacecrafts and UAVs (Unmanned Aerial Vehicle) where we discuss and learn about these stuffs, develop UAVs which includes drones and fixed-wing aircrafts for various applications and promote hobby flying. The Aero Club is propelled by a mission to motivate students to participate in national level aircraft and drone developing competitions.

Activities conducted:

- The Aero Club conducted a webinar on the topic 'Introduction to Drone Technology' on the 17th of June 2021. Over 75 students from various semesters and departments participated in the webinar.
- The Aero Club hosted an Aviation Quiz on the 11th of July 2021 for the students of BMSIT&M. The event saw an active participation of over 50 students. There were two rounds, round 1 was an elimination round and top 6 teams from round 1 advanced to round 2. Ashneel (1BY20CS066) bagged the 1st prize and won a cash prize of ₹1000/- and Praveen(1BY20ME410) was the runner up and won a prize of ₹500/-
- The Aero Club conducted a workshop on Drone Building for the members of the club on the 3rd of September 2021. The workshop covered the science behind UAVs and it was then followed by building a quadcopter. The workshop saw an active participation of 30 members.
- The Aero Club on the 24th and 25th of September conducted a Fixed Wing fabrication Workshop for the members of the club. The attendees along with the core team members made two fixed wing drones. The members did understand how aircrafts fly and the flight dynamics. The build was followed by a flying session, where we flew the newly made aircrafts.
- The club also conducted many meet-ups and had many brain-storming sessions, in which the club members came up with ideas that can be worked on to solve few problems of the society.

Competitions Participated:

 Three teams from the club participated the TriviaJet 2.0 conducted by the IIT Bombay on the 12th of July 2021. The event was national level aviation quiz which saw a participation of over 100 teams from all over India. We are proud to announce that all the teams from our club made it to the 2nd Round. The three teams bagged the 1st, 3rd and the 5th place.

1st Place: Nidhi (1BY20AI032) and Mridul Sadashiv (1BY20IS090)

3RD Place: Adityan A (1BY19EC008) and Akin Anto (1BY19EC010)

5TH Place: Siddharth Ashok Kumar (1BY18ME056) and Jayant Bhansali (1BY18ME022)

 Two teams from the club participated in the Air Crash Investigation hosted by Manipal Institute of Technology and bagged the 1st and 3rd positions.

1st Place: Siddharth Ashok Kumar (1BY18ME056), Adityan A (1BY19EC008), Akin Anto (1BY19EC010) and Nidhi (1BY20AI032).

3rd Place: Srikshitij R (1BY21ET044), Janhavi V (1BY21ET018), Suhas Kini (1BY21ET045) and Bellishree B M (1BY21ET009).

 Aero Club's core team members Adityan A (1BY19EC008), Akin Anto (1BY19EC010) and Nidhi (1BY20AI032) took part in India's biggest Drone Festival- Bharat Drone Mahotsav 2022 – a three-day event held on 27th, 28th and 29th of May 2022 at Pragati Maidan, New Delhi. They were selected as pilots by Fly Camp, a Bangalore based drone start up to train the attendees and VIPs at the Drone Festival. The Drone Mahotsav 2022 was inaugurated by Honourable Prime Minister, Shri Narendra Modi. The event witnessed the presence of cabinet ministers, chiefs of Indian Armed Forces, chiefs of paramilitary forces, more than 1600 delegates.













National Cadet Corps Unit

39/17 BMSIT&M Coy, 39 Kar Inf Bn NCC, NCC Gp HQ 'B' Bangalore, NCC Dte (Kar & Goa)

The National Cadet Corps is a **Tri-Service Voluntary Organization**, engaged in grooming the Youth of the Country into Disciplined & Patriotic citizens.

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. 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.



Lt. Rani MS

Achievements of NCC Cadets in 2021 - 2022

1) C.SUO. Rishab S Rokhade

- Director General (DG) NCC's Appreciation Medallion.
- Deputy Director General (DDG Kar and Goa)'s Commendation Card.
- Member, NCC Digital Forum Review Team at NCC Group Headquarters 'B' Bangalore.

2) B.SUO. Pranav Shakthi

- Promoted to Battalion Adjutant,
- Ek Bharat Shreshtha Bharat Camp-VI (EBSB).

3) B.Sqt. Shriharsha Prasad

- Promoted to Battalion Provost Seargent,
- Selected at Group level Pre-RD Camp.

4) CSM. Adityan A

• Ek Bharat Shreshtha Bharat Camp-VIII (EBSB).

5) Cpl. Sujatha

• Ek Bharat Shreshtha Bharat Camp-IX (EBSB).

6) Cpl. Savarnik Tiwari

• Ek Bharat Shreshtha Bharat Camp-X (EBSB).

7) L.Cpl. Akin Anto

• Selected at Group level YEP (Youth Exchange Programme) Selections.

8) Cdt. Rahul Kumar

Army Attachment Camp – PCTC.

9) Cdt. Mayur P

• Nominated to attend SNIC (Special National Integration Camp).

ACTIVITIES FOR THE YEAR 2021-2022

<u>INFORMATIVE WEBINARS WITH MEDICAL PROFESSIONALS – JUL 2021</u>

Organized webinars with medical professional to enlighten us on various techniques and immediate response to handle uncertain situations during COVID-19 pandemic.





SSLC Exam Student Screening - 19 to 22 JUL 2021

NCC Cadets of BMSIT&M were deployed to screen the students before entering the exam hall, at four different **SSLC Examination Centre** under the guidelines of *VTU- Youth for Seva* (Social Concern Initiative) on **19/07/2021 & 22/07/2021.**



FREE COVID-19 VACCINATION CAMP - 2021

Organised COVID-19 Vaccination Camp in amphitheatre of the campus. Over 1000 people including students, faculty, staff, their families and localites were benefitted because of this camp. All COVID-19 safety protocols were strictly enforced by the cadets.



75TH INDEPENDENCE DAY CELEBRATION - 15 AUG 2021

NCC BMSIT&M celebrated the Independence Day with the Magnificent March-Past of Cadets, Guard of Honour and Drone Show in the presence of Dr. Mohan Babu, Principal.





TREE PLANTATION DRIVE (ONE STUDENT ONE TREE) - 15 AUG 2021

On the occasion of Indian Independence Day, 'Tree Plantation Drive' was organized with the motive of One Student-One Tree.









'SAY NO TO PLASTIC' AWARENESS RALLY - 08 OCT 2021

On 8th Oct 2021, NCC BMSIT&M organized an awareness rally in and around Avalahalli, Yelahanka spreading awareness on the hazards of using single-use plastic and pledging with local vendors to stop the use of plastics.





ATC-II/ PRE RD CAMP 2021 - 19 to 28 OCT 2021

Eight of our third-year cadets represented 39 Kar Bn NCC at Inter-battalion Pre-Republic Day Camp/ Annual Training Camp-II organized by 9 Kar Bn for NCC Gp HQ 'B' Bangalore at Brindavan Group of Institutions from 19th Oct to 28th Oct 2021.





BLOOD DONATION CAMP AT BMSIT&M - 13 NOV 2021

NCC Unit of BMSIT&M collaborated with NSS and Lions Club Bangalore to organize a successful Blood Donation Camp inside the campus on 13th November, 2021. The camp managed to collect over 400 units of blood from students, faculty and staff of BMSIT&M. The collected blood was donated to a Cancer Hospital for Children.





HOMAGE TO MARTYRS OF CHOPPER CRASH - 11 DEC 2021

The National Cadet Corps Unit, 39 Kar Bn NCC along with all faculty, staff and students of BMSIT&M paid homage to the Chief of Defence Staff Gen. Bipin Rawat, his wife Mrs. Madhulika Rawat and 11 brave defence personnel who lost their lives in the unfortunate chopper crash in Nilgiris dist. of Tamil Nadu.







SWARNIM VIJAY DIWAS - 16 DEC 2021

NCC BMSIT&M celebrated the 'Swarnim Vijay Diwas' observing the Golden Jubilee of India's victory in Indo-Pak War, 1971 and liberation of Bangladesh. The event was graced by Commanding Officer Col. S K Singh, 39 Kar bn NCC.







COMBINED ANNUAL TRAINING CADRE (B CERT) - 27 to 31 DEC 2021

Eleven Second year NCC cadets of our college successfully completed the Combined Annual Training Cadre held at St. Vincent Pallotti High School from 27th Jan to 31st Dec 2021. The camp curriculum included foot drill, rifle drill, map reading, weapon training and basics of field & battle crafts.





COMBINED ANNUAL TRAINING CADRE (C CERT) - 24 to 31 DEC 2021

Eighteen Third year NCC cadets of our college successfully completed the Combined Annual Training Cadre held at St. Vincent Pallotti Degree College from 24th Jan to 31st Dec 2021. The camp curriculum included foot drill, rifle drill, map reading, weapon training and basics of field & battle crafts.





NCC BATTALION RANKS APPOINTMENTS - 30 DEC 2021

Two of our cadets for their outstanding performance were promoted to battalion level ranks. B.SUO Pranav Shakti B.Sgt Shriharsha Prasad



73rd REPUBLIC DAY CELEBRATION - 26 JAN 2022

The NCC Unit of BMSIT&M celebrated the 73rd Republic Dayon 26th January 2022 amidst the rising COVID-19 cases across the state with all precautions taken.

Ours cadets gave a Guard of honour to the guest and the National Flag. The event was graced by Principal BMSIT&M, Dr. Mohan Babu G N.





PULSE POLIO IMMUNIZATION PROGRAMME - 2022

The National Cadet Corps and Civil Defence Corps of BMSIT&M in association with Public Health Centre along with student volunteers successfully organized 4-day Pulse Polio Vaccination Drive from 17th Feb to 2nd Mar 2022 with immunization of children below age of 5 years across the zone.





<u>DEPUTY DIRECTOR GENERAL FOR KARNATAKA AND GOA NCC DIRECTORATE ANNUAL FELICITATION PROGRAMME - 2022</u>







We are proud to announce that CSUO. Rishab Rokhade and Lt. Rani M S have been awarded the prestigious **Dy DG Commendation Card** by Air Commodore Bhupender Singh Kanwar, VSM, DDG - Kar & Goa. CSUO. Rishab Rokhade was recently awarded the **Director General's Appreciation Medallion** for rendering service of high order and for his participation in nation building. This annual ceremony was held on 13th March 2022 at Christ University.







ARMY ATTACHMENT CAMP AT PCTC - 2022

Cdt. Rahul Kumar successfully completed the Army Attachment Camp [AAC] with the regular Army troops of Pioneer Corps Training Centre, Bangalore from $21^{\rm st}$ March to $31^{\rm st}$ March 2022.







Intellectual Property (IP)Cell

IP APPLICATION FILED DETAILS

Total No. of Patent Filed : 44
No. of Patent Granted : 06
Copy Right registered : 01
Industrial Design Registered : 01
Industrial Design Application filed : 03

PATENT GRANTED DETAILS

- Title: An Investigation of Abrasive Water Jet Machining On Glass Fiber Reinforced PolymersApplication No: 2021101722, Date of filing: 04-04-2021 Date of Grant: 26-05-2021, Inventor: Dr. Vinod B R Assistant Professor, Dept. of Civil Engg. and Team, Jurisdiction: Australia
- **Title:** A Novel method for detecting public not wearing masks using AI and method thereof Inventors: Dr Sathish Kumar T & Dr Mahesh G, Associate Professor, Dept. of CSE, Dr. Viswa Kiran, Associate Professor, Dept. of AI&ML, Patent Number: 2021106400 Date of Filing: 27-04-2021, Date of Grant: 10-11-2021, Jurisdiction: Australia
- **Title:** Automated location identification system using text and image data Inventors: Dr. Sunanda Dixith, Associate Professor, Dept. of CSE and Team Patent Number: 2021100154, Date of Filing: 31-03-2021 Date of Grant: 31-03-2021, Jurisdiction: Australia
- **Title:** Requirement based community formation and evolution system in social networking during emergency using Big Data Inventors: Prof. Shanthi DL, Assistant Professor, Dept. of ISE and Team Patent Number: 2021101041, Date of Filing: 25-02-2021 Date of Grant: 14-04-2022, Jurisdiction: Australia
- **Title of the invention:** Smart Artificial Intelligence Based Fleet Analytic System Patent No.: 2021106612, Date of Grant: 24-11-2021 Inventor: Prof. Mahalakshmi S, Assistant Professor, Dept. of ISE and Team Jurisdiction: Australia
- **Title of the invention:** Security Technique in Energy Harvesting IOT Devices Using Slotted Aloha with NOMA Inventor: Dr. Veena N, Prof. S. Mahalakshmi, Assistant Professor, Dept. of ISE Application Number: 2021100913, Date of Filing: 18-02-2021, Date of Grant: 14-04-2021, Jurisdiction: Australia

PATENT FILED DETAILS

- Title: Cluster based Traffic Control System, Patent Application Number: 202141039859
 Date of filing: 02-09-2021, Inventors: Prof. Laxmisagar HS, Assistant Professor & Prof. Ambika R, Professor, Dept. of ECE, Prof. Vinutha, Assistant Professor, Dept. of ECE
- 2. **Title of the Invention:** Fruit Classification and Identification Using Advanced Machine Learning Techniques, Application Number: 202141036457, Date of Filing: 12-08-2021 Inventors: Dr. Arunakumari B N, Assistant Professor & Dr. Bhuvaneshwari C M, Professor, Dept. of CSE and team
- Title of the Invention: An Automated System and Method for Repelling Animals Application Number: 202141045165, Date of Filing: 05-10-2021 Inventors: Prof. Raghunandan G H, Assistant Professor, Dept. of ETE Keerthana R [1BY19ET027], Ninaada M S [1BY19ET034]
- 4. **Title of the Invention:** A System for a Helmet with an Inflatable Air Bag Application Number: 202141046205, Date of Filing: 11-10-2021 Inventor: Prof. Praveen Kumar T N, Associate Professor, Dept. of ME,

Vignesh N(USN: 1BY15ME062), Samarth Sagar K(USN: 1BY14ME018), Rushil Praveen (1BY16ME047), Shivam Sundriyal (1BY18ME053), Kartikay Awasthi (1BY18ME026)

5. **Title:** IOT enabled real-time aquarium monitoring system

Application Number: 202141039674 Date of Filing: 02-09-2021 Inventors: Ms. Varshini, USN:1BY19SCS07, M. Tech/CSE student,

Dr. Radhika K R, Prof. Vidya R Pai, Dr. Arunakumari B N, Assistant Professor, Dept. of CSE

6. Title: Machine Learning Algorithm-Based Automatic Sign Language

Recognition System for Digital Hardware Implementation

Application Number: 202141047829, Date of Filing: 21-10-2021

Date of Publication: 29-10-2021

Inventor: Prof. Gireesh Babu C N, Assistant Professor, Dept. of ISE and Team

7. **Title of the invention:** A Wearing article for navigating Visually Impaired using Machine

Learning, Application Number: 202241022469A

Date of Filing: :15-04-2022, Date of Publication: 06-05-2022

Inventor: Prof. Vidy R Pai, Assistant Professor, Dept. of CSE and Team

8. **Title of the invention:** Power Quality Enhancement of Grid Integrated PV System by

Artificial Intelligence controller

Application Number: 202241021212, Date of Filing: 08-04-2022 Inventor: Dr Madhu Palati, Assistant Professor, Dept. of EEE

9. **Title:** IOT Enabled Smart Health Care Automation System

Inventors: Dr. Dankan Gowda V, Assistant Professor, Dept. of ECE and Team

Application Number: 202041040896, Date of Filing: 21-09-2020,

Date of Publication: 02-10-2020

10. Title: Customized Placement Training assistance for students using Artificial

Intelligence, Inventor: Shobha R, Assistant Professor, Dept. of Civil Engq. and Team

Application Number: 202041042414, Date of Filing: 29-09-2020,

Publication Date: 09-10-2020

11. Title: Occupational stress model and coping strategies thereof

Inventor: Dr. Sunanda Dixit, Associate Professor & Dr. Manoj H M, Assistant Professor, Dept. of CSE, Prof. Vinod B R & Prof. Shobha R and, Assistant Professor, Dept. Civil Engg., Application No: 202041041755, Date of filing: 25-09-2020, Publication

Date: 09-10-2020

12. **Title:** Novel Hybrid Lightweight Framework Logical Security Devices for Internet of Things

Inventor: Prof. Girish Babu C N and Prof. Chandrashekhara K T, Dept. of ISE

Application Number: 202141027418, Date of Filing: 18-06-2021,

Date of Publication: 02-07-2021

13. **Title**: Intelligent Mechanical Robotic Weed Controller for Sugar Beet Production.

Inventors: Dr. N Keerthi Kumar, Assistant Professor, Dept. of ME & Team

Application Number: 202141026549, Date of Filing: 15-06-2021

Date of Publication: 02-07-2021

14. **Title:** Indian crop and fertilizer recommendations system using AI and Machine Learning Inventors: Prof. Swetha, Assistant Professor, Rakshith Danti(1BY19IS130)

Praveen N M (1BY19IS121), K Bhuvan Sai (1BY19IS083), Mayur G N(1BY19IS093),

Application Number: 202141032290, Date of Filing: 18-07-2021

Date of Publication: 23-07-2021

15. Title: Animal treatment kit using artificial Intelligence & Method thereof

Inventor: Dr Sathish Kumar T, Associate Professor, Dept. of CSE, Application Number: 202041048621, Date of Filing: 06-11-2020

Date of Publication: 13-11-2020

16. Title: Design and Fabrication of Low Cost Breath Monitoring System Using Arduino Uno in IOT Platform Inventors: Mrs. R Bharathi, Associate Professor, Dept. of CSE and Team Application Number: 202141008418, Date of Filing: 01-03-2021, Publication date: 12-03-2021

17. Title: Method for Plant Disease Detection using Machine Learning and Methods Thereof Inventors: Dr Narasimha Murthy M S, Assistant Professor, Dept. of ISE and Team Application Number: 202141010619, Date of Filing: 12-03-2021 Date of Publication: 19-03-2021

 Title: A Novel System for Controlling Employees Attrition Rate Inventors Inventors: Dr. Manoj H M, Assistant Professor, Dept. of CSE and Team Application Number: 202141023567, Date of Filing: 27-05-2021, Publication Date: 11-06-2021

 Title: Machine Learning Based Data Mining for Analysis of Students Profile in Universities. Inventors/Applicant: Dr. Surekha, Associate Professor, Dept. of ISE Application Number: 202141021252, Date of Filing: 11-05-2021, Publication Date: 11-06-2021

20. Title: Customized Placement Training assistance for students using Artificial Intelligence Application No: 202041042414, Date of filing: 29-09-2020, Inventor: Prof. Shobha R, Assistant Professor, Dept. of Civil Engg. and Team. Australia

21. **Title:** An Investigation of Abrasive Water Jet Machining On Glass Fiber Reinforced Polymers Application No: 2021101722, Date of filing: 04-04-2021 Date of Grant: 26-05-2021, Inventor: Dr. Vinod B R Assistant Professor, Dept. of Civil Engg. and Team, Jurisdiction: Australia

22. **Title:** A Novel method for detecting public not wearing masks using AI and method thereof Inventors: Dr Sathish Kumar T & Dr Mahesh G, Associate Professor, Dept. of CSE, Dr Viswa Kiran, Associate Professor, Dept. of AI&ML, Patent Number: 2021106400 Date of Filing: 27-04-2021, Date of Grant: 10-11-2021, Jurisdiction: Australia

23. **Title:** Automated location identification system using text and image data Inventors: Dr. Sunanda Dixith, Associate Professor, Dept. of CSE and Team Patent Number: 2021100154, Date of Filing: 31-03-2021 Date of Grant: 31-03-2021, Jurisdiction: Australia

24. **Title of the invention:** Smart Artificial Intelligence Based Fleet Analytic System Patent No.: 2021106612, Date of Grant: 24-11-2021 Inventor/Applicant: Prof. Mahalakshmi S, Assistant Professor, Dept. of ISE and Team Jurisdiction: Australia

25. **Title:** Requirement based community formation and evolution system in social networking during emergency using Big Data

Inventors/Applicant: Prof. Shanthi DL, Assistant Professor, Dept. of ISE and Team Patent Number: 2021101041, Date of Filing: 25-02-2021, Date of Grant: 14-04-2022,

Jurisdiction: Australia

26. **Title:** Security Technique in Energy Harvesting IOT Devices Using Slotted Aloha with NOMA

Inventor: Dr. Veena N, Prof. S. Mahalakshmi, Assistant Professor, Dept. of ISE

Application Number: 2021100913, Date of Filing: 18-02-2021, Date of Grant: 14-04-2021,

Jurisdiction: Australia

INDUSTRIAL DESIGN APPLICATION FILED DETAILS

Title: A Small scale dynamic triaxial testing device for concrete or soil
 Application No: 354099-001, Date of filing: 01-12-2021
 Published Date: 07-01-2022, Applicant: Prof. Shobha R & Prof. Vinod B R, Assistant
 Professor, Dept. of Civil Engg., Prof. Sreelakshmi T K, Dept. of Mathematics

2. **Title:** An Architectural Engineering construction device on 3D Printing

Technology for Designing concrete structure

Application no :349270-001, Date of filing: 09-09-2021

Published Date: 08-10-2021, Applicant: Prof. Vinod B R Assistant Professor, Dept. of Civil Engg.

and Team



IEEE STUDENT BRANCH

IEEE SB BMSIT&M: We have had tremendous growth in the year 2021, with a spike in the membership and the events taking place. Amidst covid 19 as well we have managed to conduct a good number of online events including a few societal-based workshops.

- **1. Online technical posts on social media:** This included a variety of different information from all the chapters of the student branch. Titled "Did you Know? ", "Something to think about", and many online quizzes were posted.
- **2. Girl Geeks:** This event was organized in a series of 4 sessions which were held on Saturdays in the month of May. We had 4 different guest lecturers giving their insights on the various newly evolving technologies and enlightening us on the future of computing, machine learning, artificial intelligence, and much more. We had a good number of participants from the IEEE members as well as the non-IEEE members.
- **3. Solar Vehicle and Its future webinar:** This included a session on the changing vehicle technologies into solar sophisticated equipped devices which is to be seen shortly in the near future. It included participants from various departments and went on to be an interactive and informative session.
- **4. Hand Sanitizer Workshop:** This was an offline event that focused on making automatic hand sanitizers to distribute amongst the government schools and villages, to create awareness and safeguard them from the growing pandemic. It included the final year electronics students and IEEE members participating to achieve this.
- **5. IEEE DAY 2021:** Maintaining the covid -19 protocols and social distancing norms we managed to have an offline IEEE day in the second week of October with all the professional members and the student members to grace the occasion and to mark this day we had conducted a series of events which included both technical and nontechnical fun brain-twisters on an online platform.
- **6. Open courses in Association with IEEE:** There were several open courses offered by the CS Chapter of the IEEE Student Branch. It included courses on machine learning, coding languages, cloud computing, artificial intelligence, and many other computer science specializations.
- **7. FABS Conference:** This was an international conference that took place online mode. This conference had papers submitted from all over the globe on forensic analysis and big data and security. With esteemed guests lecturers and professionals to evaluate and certify these papers, this conference was carried out. Over 150+ papers were presented in a span of 2 days.
- **8. Higher Education Webinar:** This was an online event conducted to enlighten the students about the various option for higher education both in abroad and India. There was a discussion on the various courses that can be taken up after graduation and how to get scholarships in various countries.
- **9. Newsletter Publishing:** IEEE Student Branch BMSIT&M has also started publishing newsletters this year elaborating on our successes and the initiatives we have been taking to enroll more participants to become part of the IEEE family. Along with newsletters we have also increased our social media appearance and have been working towards having more workshops and collaborating with the different clubs at BMSIT.
- **10. Memberships Drive:** Lastly we have emphasized our strategies and tactics to increase the membership by providing various benefits and opening the members to an unlimited source of opportunities and benefits. We have been conducting small interactive and ice-breaking events to

attract the audience and make them aware of the surplus amount of knowledge and learning experiences along with the opportunity of connecting with people all over the world that IEEE has to offer us.













CIVIL DEFENCE INSTITUTIONAL DIVISION KARNATAKA CIVIL DEFENCE CORPS, Ministry of Home Affairs, Government of India & State Government.



THE CIVIL DEFENCE CORPS

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. Essential to augment the regular forces in war & peace. Headed by Divisional Civil Defence Warden Lt. Rani MS, Dept. of Sports, BMSIT&M.

ACTIVITIES FOR THE YEAR 2021-2022

COVID TESTING CAMP -2021

NCC and Civil Defence unit have jointly organised COVID RT-PCR Test and Vaccination drive to college staff and students in association with BBMP.





COVID-19 WARRIORS & BUDDY VOLUNTEER PROGRAM - 2020-21

With BBMP Covid War Room, Home Isolation Squad- Bengaluru East Zone.

Our cadets provided 24/7 Telephonic assistance and guidelines on home isolation to COVID-19 positive patients and efficient coordination with the civil authorities.



LOCKDOWN AND CURFEW SENTARY DUTY –2021

Our Civil Defence Wardens served as Special Police Officers on New Year eve's Bundobust Patrolling duty with Hoysala and Cheetah.



SSLC Exam Student Screening - 2021

Wardens of BMSIT&M were deployed to screen the students before entering the exam hall, at four different **SSLC Examination Centre** under the guidelines of *VTU- Youth for Seva* (Social Concern Initiative) on **19/07/2021 & 22/07/2021.**





PULSE POLIO IMMUNIZATION PROGRAMME - 2022

The Civil Defence Corps of BMSIT&M in association with Public Health Centre along with student volunteers successfully organized 4-day Pulse Polio Vaccination Drive from 27th Feb to 2nd Mar 2022 with immunization of children below age of 5 years across the zone.









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.







































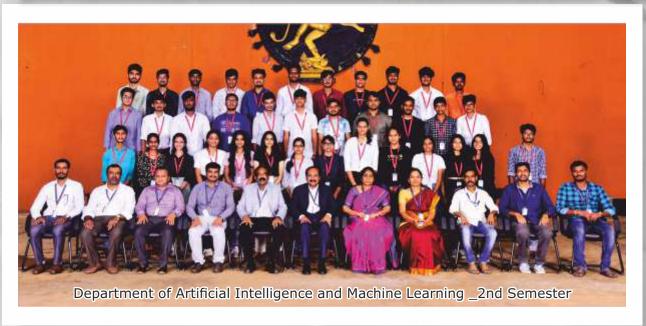


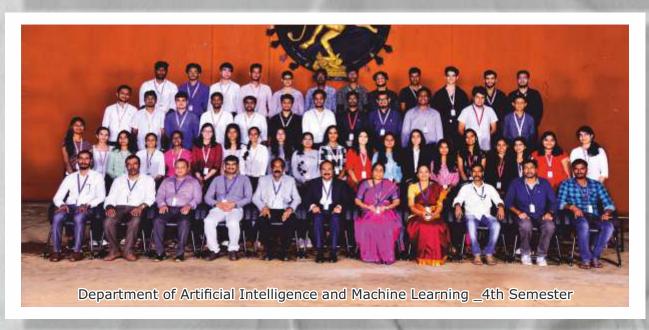






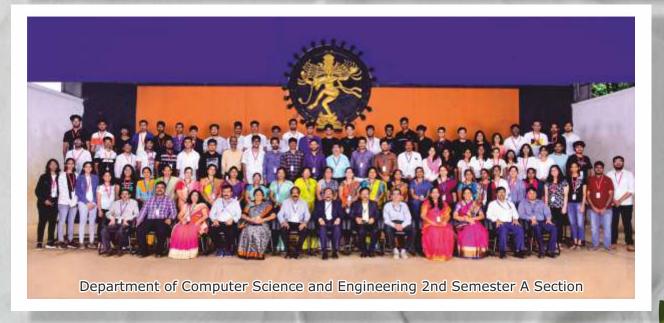


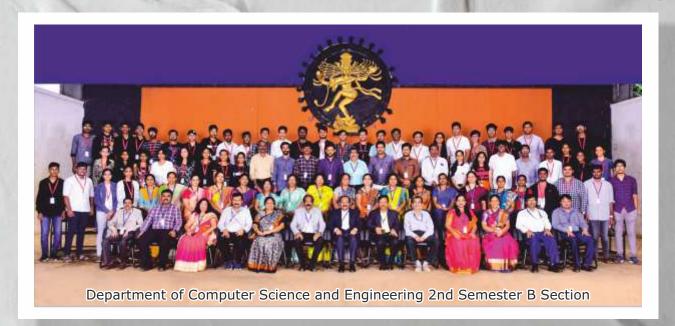


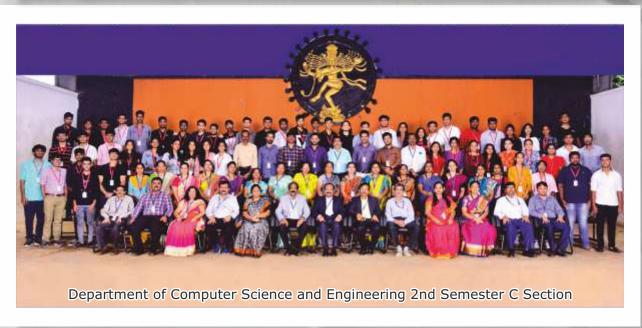


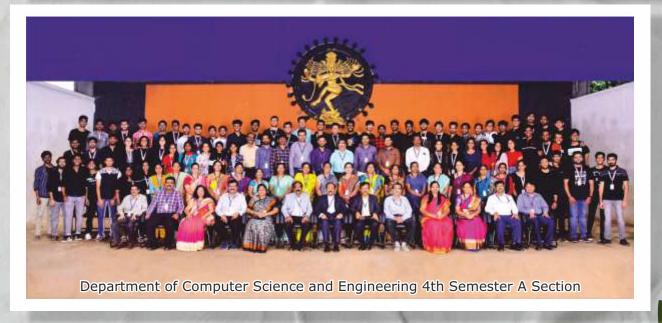




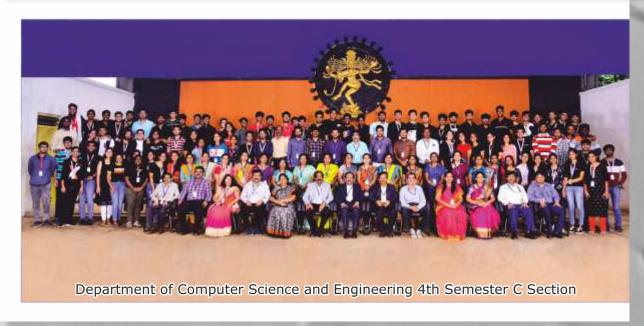






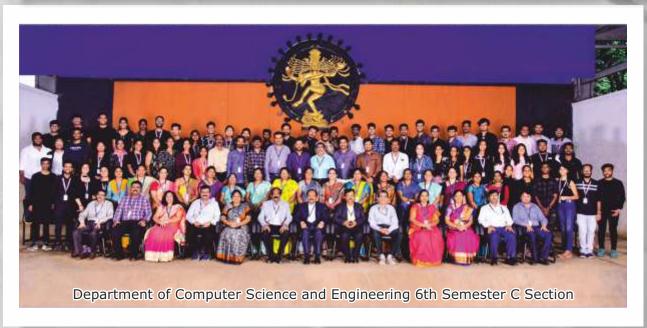


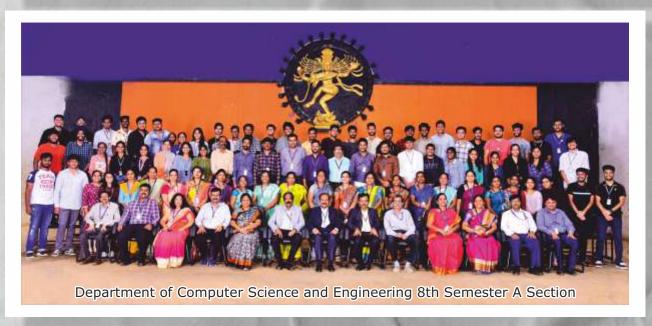


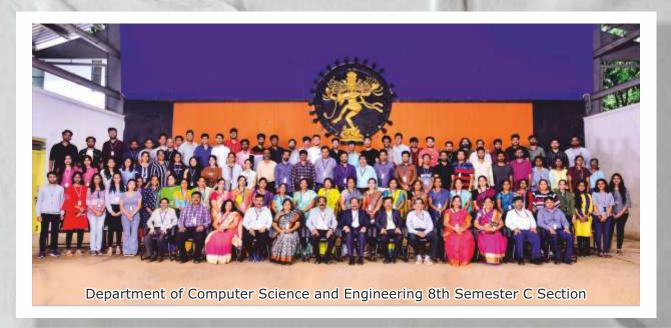








































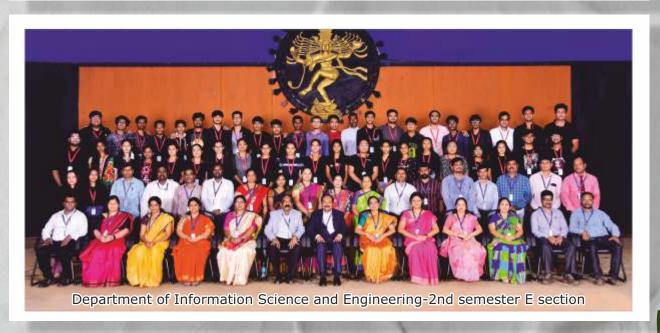


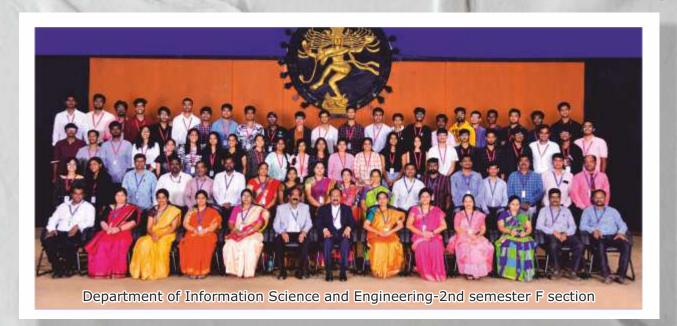


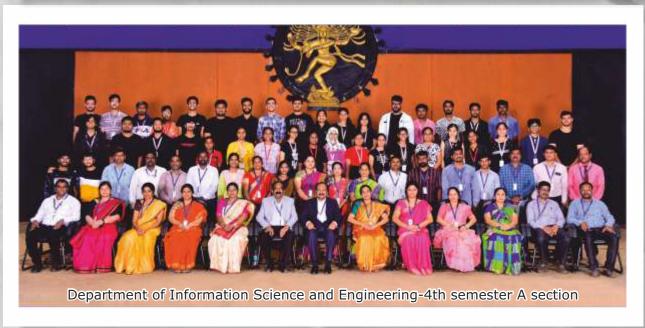


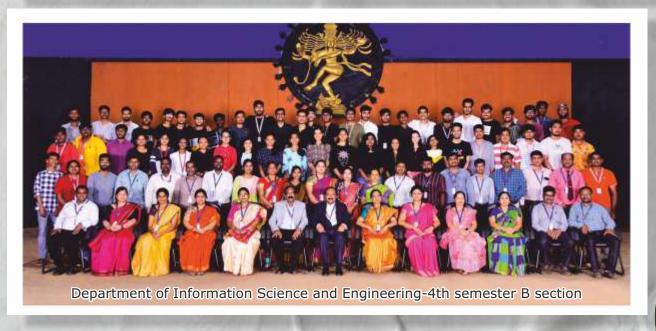


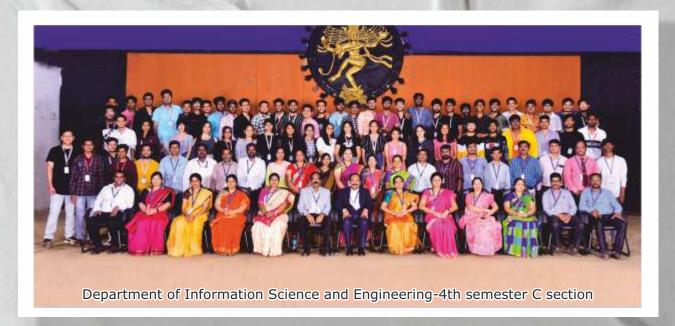




























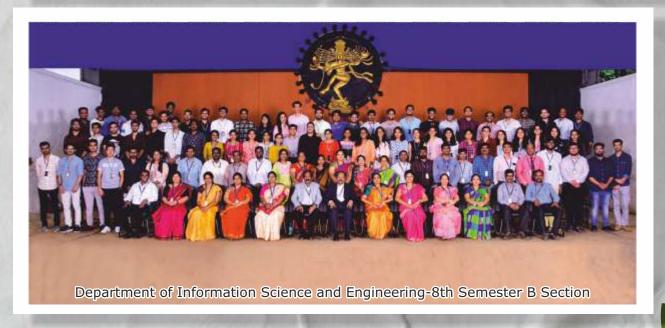






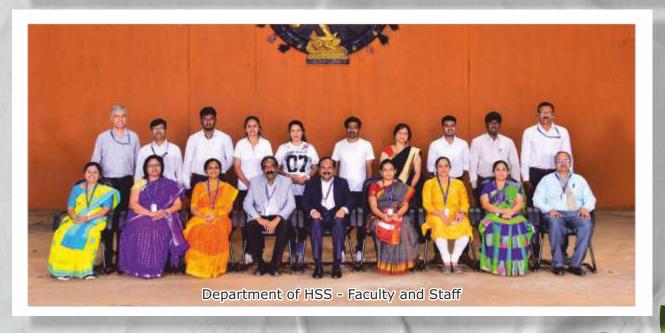


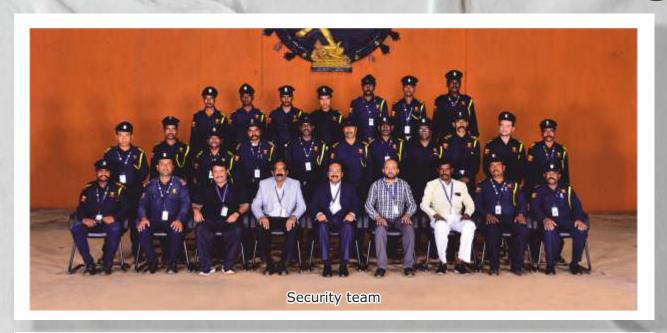






















Articles



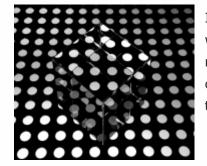
Designing freely and thinking freely

Demystifying How Designers Think

To regard thinking as a skill rather than a gift is the first step towards doing something to improve that skill - Edward de Bono, Practical Thinking Designers begin with the challenges or desires of their clients and consider them through the eyes of their target consumers. Designers use this information to create the first user-centered ideas, picture their creative solutions early on, and then create prototypes. They immediately solicit client feedback and adapt their concept as a result. The designers approach the ideal solution for their target users one step at a time.



Didn't get a word I said? I know happens!



In simpler terms, understand this, a designer's mindset is molded by what type of or what way of feedback he/she gets! A designer's mindset works on the life cycle of iterations all based on what users or clients have to offer to retrospect on! It may be a way of design thinking or not, but a common way is to follow up on the whole work.

Seeing What Design Thinking Can Do

New ideas are required to address social concerns such as global warming, population expansion, food security, health, mobility, and energy supply. These concepts constitute the bedrock of economic development. Some concepts become global standards, while others fill voids in local and regional marketplaces. Regardless of whether your inquiry is about a major or little topic, design thinking can help you with your creative work by suggesting viable answers. The method can be applied to a wide range of questions. New models, commodities, business methods, and social and organizational concepts are all possibilities.



What does design involve?

Many of the types of design we're examining necessitate technical proficiency and possibly the best creativity. Space, shape, line, and texture are essential tools for an ecological, product, or graphic artist. The eventual result of such a work will always be accessible to the users, who have the option of moving inside or picking up the designer's product. Designers and artists share terrain in that they must grasp our sensory experiences, particularly of the visual environment.

The vast majority of the products we design are tailored to certain user groups. Designers must have a basic understanding of the nature of these needs and requirements, whether it's in terms of mechanics or design dialectics. Design education has recently included information from the behavioral sciences, in addition to an understanding that the creative process itself should be examined. Designers, like artists and engineers, are neither social scientists nor artists.



Developing new products



VR technology and artificial intelligence are two examples of innovative technologies that have the potential to create new products. However, when it comes to product creation in these sectors, the challenges aren't always due to the constraints of the new technologies. Difficulties emerge when it comes to identifying the best innovative technology areas to provide the most value to a big number of individuals. You must determine the product's target users and which of your potential customers' needs you can meet. Design thinking can assist you in identifying applications that are likely to succeed.

Designing freely

Sounds a bit ridiculous at first! How to design freely when your entire work is going to be based on how a user or customer thinks?

Designing freely is very tough! You just have to think about how you like your eggs. Poached, omelet, etc. anyway it's you who has got to eat! So you just put your design out there freely without a care in the world and then let the people add the spices for you! Sometimes it might taste bad, but it might be so tasty that you would love to have it only that way! Design is the egg, how you like it is the way the design thinking process works out for you! It will be unique to you in every way possible.



Design as a skill

Design is a very advanced and intricate skill. It is not a mysterious ability reserved for individuals with enigmatic abilities, but rather a skill that must be trained, much like playing a game or a piece of music. While we are accustomed to believing that physical abilities such as driving a motorbike, rowing, and playing instruments must be acquired via practice, we are less likely to accept that mindset once it has been acquired and reinforced may necessitate equal treatment.



Yes, it may be conflictory to make a statement that only a few can do the way of design thinking process but I believe that it is true. You can't expect anyone and everyone to design systems that are revolutionary and make a bold statement.

Anyone can design but it need not be the best they have to offer and there is always room for even more growth. And then it's not upon me to judge but it's on the user to make the best come out of a person because after all design process always works on constructive feedback!

Thanks for reading



Rishav Visen IBY19CS118

Blue Skies and Yellow Fields

Blue skies and Yellow fields Which is quite ironic Peace is what we all aspire

Children playing on verdant valleys

But can't attain because we're moronic

Their vibrant voices echo

Fathers graze cattle on the meadow Their hearts are pierced by a sword of their

worst fears

And all the children drown They are resilient in the face of adversities

In a river of their mother's tears Life can't seem to bring them down

They fare on to the extent of their capabilities

Innocent children seem to be the victims

Their daily toil doesn't make them frown

In a war of people with authority

Are we all exonerated from the blame? The beauty of nature, the radiant colours

Or do we share some responsibility? The majesty of animals, the freedom of a bird

The smell of the dirt, nectar of the flowers

Negligence and neutrality aren't the same

undeterred Raise your voice against the misguided

Put those at the helm to shame

These moments of solitude are the memories

The bliss of solitude barely began

For all they see now is the wrath of man Their actions mustn't make us divided.

Infinite waves of unmitigated destruction

Everything's in a state of desolation

Humanity is what humans require

ARJUN P ANIL

IBY21EC020

How to Communicate with God - An Easy Way through Bhakti

Who exactly is God? Where is He? Is He totally separate from us, or is He connected with us in some way? How can you communicate with Him? What does this "communication" actually mean? How can you solve your problems in life by communicating with God? This article answers these questions in simple terms and suggests an easy and basic way for communication with God - the way of Bhakti (faith/ devotion).

To be able to communicate with God, you need a humble (yet confident), calm, patient, free and broad mind. If you have a clogged, arrogant, restless, egotistical and narrow mind, you won't be able to communicate with Him even if He tries to do so. God is always available for communication. We just have to realise that. It's not necessary that we must be able to see Him with our eyes or hear Him with our ears. God can communicate with us in numerous ways, both directly and indirectly. For this communication to be successful, you need to believe in God. Believing in God doesn't mean believing in an external supernatural force which is separate from you, because God is not separate from you. You're an extension of God and God is an extension of you. Believing in God means believing in your righteous and intelligent self which is present within you (Jivatma), as well as believing in the Supreme Force which is present all around you but not separate from you (Paramatma). God is present everywhere. He's present both within and outside you, both within and outside the universe, and He's both formless and with various infinite forms. Thus, when you realise that the Jivatma is not separate from the Paramatma, you'll also realise that you (your Jivatma) are not separate from any other creature (their Jivatma). When you have this realisation, you'll have faith in yourself but at the same time you'll also be able to love and respect all other creatures. Thus you'll have a confident yet humble mind. Therefore, believing in God actually means believing in your pure self and in your supernatural powers with a humble and selfless attitude.

Belief in God gives you more self-confidence, more courage, more self-love, more wisdom, and more love and respect for others. It will help you in finding the right solutions to all your problems. When you think with a calm, patient, broad, humble and confident mind, you're more likely to find out the right solution to your problem, isn't it? This is how you communicate with your righteous and intelligent self (Jivatma/ the God within you) for solving your problems. So there's nothing unrealistic or superstitious about believing in God. Rather, having this belief is a more logical, scientific and practical approach to any problem. And when you're still unable to solve your problem, God will create such a situation which will help you solve the problem. This is how the Supreme Force (Paramatma/ the Supreme God) indirectly communicates with you. Such situations aren't created by luck, except for a few times. It's God who's helping you. He'll definitely help you when you're worthy of His help. Of course you'll realise this fact only if you believe in God. However, God is always available for help whether you believe or don't believe in Him. But you'll be able to receive His help faster if you believe in Him, because if you don't believe in Him, you won't even realise that He's trying to help you and so it will be difficult for Him to help you. Receiving

God's help faster requires better communication with God, which in turn requires a firm belief in God. Having this firm belief in God is Bhakti. When you have Bhakti, you'll be able to feel God's presence and communicate with Him all the time. If you can do that, you're already a Bhakti Yogi. And when your Bhakti rises to a sufficiently high level, you'll also be able to communicate directly with the Paramatma.

Here I associated God with the pronoun "He". You can also associate God with "She", "It", or whatever you feel is appropriate for you. Each of us has our own unique path to the Truth, so it's upto you whom you consider as your God. Whether it's Radha or Krishna, Lakshmi or Vishnu, Saraswati or Brahma, Shakti or Shiva, the formless neuter Brahman, or something/someone else, it doesn't really matter whom you worship as long as you're on the right path, because all paths ultimately lead to the same destination.

Anyway, I'm just an amateur and this is just a basic way to communicate with God. There are other ways too. However, Bhakti (faith/ devotion) is the easiest and best way for communication with God. Because interaction with anything becomes difficult and less effective when you don't believe in it. With Bhakti, both basic and advanced ways of communication with God become easier and more effective. Bhakti is the foundation for communication with God. Therefore, always have Bhakti in your heart, no matter what you do in your life. It will make you a better person and lead you to glory.



AMLAN SHEKHAR BARUAH 1BY18CS016

Krishna can become kamsa?

Once there was a king who want to draw Krishna killing kamsa. So he approach the greatest painter in a kingdom the painter agreed but he had condition that he can't imagine and right he needs a perfect model of Krishna and kamsa . They look around the painters of a kid was playing he said this kit is perfect this is innocent means if the kit open his mouth we can see the universe inside his mouth so the painter finish the portion of Krishna know this started searching of kamsa King told that if they go to jail they can find model of kamsa they went but the painter in get the 100% comes are in them into the other Kingdom also but the painted then get 100% kamsa are in them also. They kept on searching but they didn't get till 25 years. Once the painter was going on a road on one culprit game and ask money by showing knife then the painter get real 100% kamsa he beg him he took him to the court and started drawing kamsa then this culprit started crying because when they wrote Krishna by taking the model of child now he became culprit and standing in front of the painted Krishna can become comes are in 25 years in the same way can become Krishna this is also possible everyday should be always efficient version of you that's what life is







DHANANJAYA S IBY21EC039

KHAKI: NOT JUST A SHADE OF BROWN



The National Cadet Corps, being the World's Largest Uniformed Youth Organization is the flag-bearer in producing disciplined, motivated and well-trained youth leaders. I am proud and delighted to carry 'Cadet' as the prefix to my name forever.

My motivation to join this prestigious organization was the sight of my seniors marching with rifles in the school ground with perfect uniform and roaring 'Ek Do Ekk' on a loud voice of drill commander reaching every classroom, grabbing the attention of every student. That was the moment I wished to be a part of them.

I still remember the day back in 2014 when I first enrolled into NCC as a cadet of Junior Division, a 13-year-old boy was introduced to the heroic Khaki uniform, it was a dream come true. Since then, it has been years and I still don the uniform with same enthusiasm and pride. Every time I wear it, my confidence rises. I'm extremely grateful to this uniform for building me brick by brick to what I am today. Throughout my journey in NCC from Junior to Senior Division has been a privilege and a wonderful learning experience.





we become the easier life gets. Not just parades, being an NCC Cadet has As Cadets, we have got a lot more opportunities and distinct competence compared to any regular student. Be it the weekly parades or the ragada sessions has significantly helped us in holistic growth and become stronger physically as well as mentally. It has structured the way we carry ourselves in our personal life. NCC has taught me that, more disciplined been a privilege to attend various camps living the military lifestyle, training with various firearms and weaponry, learning the exclusive skills of Map reading, technics of Field and Battle crafts or other technical subjects.

Camps are golden memories to every cadet. Starting from packing the bags, travelling all the way with co-cadets to the camp site, those early morning cup of tea to the nail-biting stories of the highly experienced instructors from the Army. What a spectacle! hundreds of cadets in their decorated uniforms standing stiff in the twilight waiting for the sunrise, to begin their day of adventure and unforgettable lively moments.

ದೀಪ ಮತ್ತು ದೀಪವನ್ನಾವರಿಸಿದ ತಮ

ಆರಲಿರುವ ದೀಪದ ಬತ್ತಿಯನ್ನು ಸರಿಪಡಿಸು,

ತೈಲಧಾರೆಯ ಹರಿಸಿ.

ಬೆಳಕ ಪಸರಿಸುವ ದೀಪಕ್ಕೊಂದು ಮರುಹುಟ್ಟನ್ನು ನೀಡು,

ಮಾರುತದ ಮುಷ್ಟಿಯಿಂದ ಪಾರುಮಾಡಲು.

ಬೆಳಕೆಂಬ ಬೇಹುಗಾರನಾದ ದೀಪಕ್ಕೆ ನಿನ್ನ ಸಹಾಯಹಸ್ತ ನೀಡು.

ನಿನ್ನ ಬಾಳನ್ನು ದೀಪವು ಬೇಳಗಬೇಕೆಂದೆನಲ್ಲ

ಅಥವಾ, ನಿನ್ನವರ ಕಾಣಲು ಆ ದೀಪವು ದಾರಿ ತೋರುವುದೆಂದೂ ಅಲ್ಲ,

ನಿನ್ನ ಬದುಕಿನ ಆದರ್ಶವನ್ನು ಜಗವು ಕೊಂಡಾಡಲಿದೆಯೆಂಬ ಹುಸಿ ನಿರೀಕ್ಷೆಯಂತೂ ಅಲ್ಲವೇ ಅಲ್ಲ!

ಆದರೆ ಇದು ನಿನಗೆ ರುಚಿಸದಾದಲ್ಲಿ,

ನೀನೇ ದೀಪವನ್ನು ನಂದಿಸಿ,

ನಿನ್ನ ನಿಶ್ಚೇತ ಆತ್ಮವನ್ನು ತಮವೆಂಬ ಕೂಪಕ್ಕೆ ಮಾತ್ರ ತಳ್ಳಬೇಡ...



NAMANA SHANTARAM 1BY20IS093





NCC Cadets are at spotlight in the college campus during the celebrations of Republic Day, Independence Day and various other special occasions for the magnificent display of marchpast, infantry section formations, piloting the guests to the venue and guard of honour. We cadets find eternal glory when we wear the complete ceremonial uniform and salute the tricolour. Apart from these, NCC has made me a better human being by introducing me to social service and volunteering. I was delighted to be a part of innumerable events and social activities the NCC has organised.

If allowed, I would want to experience each and every moment all over again.

Looking back, I can say filling the enrolment form was one of my best decisions. No Regrets. No Guilt. Just Golden Memories. Indeed, Khaki isn't just a shade of brown. It has been an absolute honour and privilege to don this uniform for these many years.

Forever a cadet I shall remain. Jai Hind!









CSUO. RISHAB S ROKHADE, KA/19/SDA/251553 DEPT OF CSE – 1BY19CS117 39/17 BMSIT&M 'F' COY, 39 (KAR) BN NCC, NCC GP HQ 'B' BANGALORE, NCC DIRECTORATE (KAR & GOA).



My Brave Son

Not even headlines for 24 hours
He lost his life just in an hour
He was counting days to come back
But like fate has to play its part
He was wrapped in tricolor on his way back

Oh! What a brave soul....

Mother still waiting for him

Although she knows she can never meet

All were busy....
Buying diyas to decorate the house
But light of her house was twinkling far somewhere in the sky
No more to light up the house
No more to fight and shout

Just remember,
Just because we can stay safe
Someone scarified his life
Festivals are now of no important to her
As love light of her will be now absent
She is waiting for her son
Today and shall tomorrow
But that sense of satisfaction
Hidden behind those tears
That she is proud of her son
Who gave his life for Motherland
In the age where he can enjoy the beautiful ride of his life
My Brave Son, My Brave Hero words she now only spell......



PRAJWAL V DEV IBY21CV015

<u>ಅಸಲಿಗೆ ಅಪ್ಪನಷ್ಕಾಪ್ತರಾರು?</u>

ಅದೊಂದು ದಿನ, ನನಗಿರುವ ನೋವನ್ನೆಲ್ಲಾ ಹೇಳಿಬಿಡುತ್ತೇನೆ ಎಂಬ ಕಿಚ್ಚೊಂದು ಮನಸ್ಸಿನ ಆಳದಲ್ಲೆಲ್ಲೋ ಹೊತ್ತಿ ಉರಿಯುತ್ತಿತ್ತು. ಪ್ರತಿಬಾರಿಯೂ ನಡೆಯುವಂತೆ ತಮಾಷೆಯಾಗಿ ಶುರುವಾಗಿದ್ದ ವಾಕ್ಸಮರದ ನಡುವೆ, ಅಪ್ಪನೆದುರು ಧ್ವನಿಯೆತ್ತಿ ನುಡಿದೇಬಿಟ್ಟೆ, " ಅಲ್ಲಾ ಅದೆಷ್ಟು ಸುಲಭ ನಿನಗೆ, ಬೇರೆಯವರೆಲ್ಲರ ಸಾಧನೆಯನ್ನು ಹೊಗಳುವುದು? ತಪ್ಪೆಂದೇನೂ ಅಲ್ಲ. ಆದರೆ, ನಿಮ್ಮ ಸ್ವಂತ ಮಗಳಾದ ನಾನು, ಚರ್ಚಾ ಸ್ಪರ್ಧೆಯಲ್ಲಿ ಇಡೀ ರಾಜ್ಯಕ್ಕೆ ಮೊದಲಿಗಳಾದಾಗಾಗಲಿ, ಹಲವಾರು ವರ್ಷಗಳ ಪರಿಶ್ರಮದ ಫಲವಾಗಿ ಎಂಬಂತೆ ಭರತನಾಟ್ಯ ಜ್ಯೂನಿಯರ್ ಪರೀಕ್ಷೆಯಲ್ಲಿ ರ್ಯಾಂಕ್ ಗಳಿಸಿದಾಗಾಗಲಿ, ಹೋಗಲಿ ಜೀವನದ ಪ್ರಮುಖ ಮೈಲಿಗಲ್ಲು ಎಂದೇ ಬಿಂಬಿಸಲ್ಪಡುವ ಎಸೆಸೆಲ್ಸಿ – ಪಿಯುಸಿ ಪರೀಕ್ಷೆಗಳಲ್ಲಿ ಶ್ಲಾಘನೀಯ ಅಂಕಗಳನ್ನು ಪಡೆದಾಗಲಾಗಲಿ ನಿಮ್ಮಿಂದ ಒಂದು ಭೇಷ್ ಎಂಬ ಮಾತೂ ಬಂದಿಲ್ಲವೇಕೆ?". ಕಡೆಗೂ ನನ್ನ ದುಗುಡವನ್ನೆಲ್ಲಾ ಹೇಳಿಯೇಬಿಟ್ಟೆ ಎಂದು ತುಂಬಿ ಬಂದ ಕಣ್ಣಾಲಿಗಳ ನಡುವೆಯೇ ನಿಟ್ಟಾಸಿರು ಬಿಟ್ಟೆ. ಒಂದು ನೀರವ ಮೌನ. ಊಹಿಸಿದಂತಹ ಪ್ರತಿಕ್ರಿಯೆಯೇ ಎಂದಂದು ಭಾವಿಸಿದೆ. ಅಮ್ಮ ಮಾತ್ರ ಎಲ್ಲವನ್ನೂ ಆಲೈಸಿ ನುಡಿದಳು, " ನಿನ್ನೆದುರಿಗೆ ನಿನ್ನನ್ನು ಹೊಗಳದಿದ್ದರೇನಂತೆ, ಯಾವಾಗಲೂ ನೀನೆದುರಿಗೆ ಇಲ್ಲದಿದ್ದಾಗ ಬರೀ ಒಳ್ಳೆಯ ಮಾತುಗಳನ್ನೇ ನಿನ್ನ ಬಗ್ಗೆ ಹೇಳುತ್ತಾರೆ..." ಅಪ್ಪನದು ಮಾತ್ರ ಅದೇ 'silent treatment'. ನಾನು ಅಂದು, ತಪ್ಪನ್ನೇನೋ ನುಡಿದಿರಬಹುದೇ ಎಂಬ ಯೋಚನೆಯೇ ಇಲ್ಲದೇ ನಮ್ಮದಿಯ ನಿದ್ದೆ ಮಾಡಿದೆ.

ಮರುದಿನ ನಮ್ಮ ಊರಿನಿಂದ ಹಿಂತಿರುಗಿ, ನಮ್ಮದೇ ಎಂಬತಾಗಿರುವ ಬೆಂಗಳೂರಿಗೆ ಬರಲು ಬಸ್ ಹತ್ತುವ ತವಕದಲ್ಲಿದ್ದೆ. ಅದೆಷ್ಟೋ ಸಲ ಹಾಸ್ಟೆಲ್ನಿಂದ ಮನೆಗೆ ಒಬ್ಬಳೇ ಬಸ್ ಪ್ರಯಾಣ ಮಾಡಿದ್ದರೂ, ಹಿಂತಿರುಗಿ ಬೆಂಗಳೂರಿಗೆ ಬರುವಾಗ ಅಪ್ಪನೊಂದಿಗೇ ಬರುವ ವಾಡಿಕೆ. ಆದರೆ ಈ ಬಾರಿ ಅಪ್ಪ ತಮ್ಮ ಕೆಲಸದಲ್ಲಿ ತುಸು ಹೆಚ್ಚೇ ಕಾರ್ಯನಿರತರಾಗಿದ್ದರಿಂದ, ಒಬ್ಬಳೇ ಹಿಂತಿರುಗಿ ಬರುವುದೆಂದೂ, ಅಪ್ಪ ಬಸ್ – ಸ್ಟ್ಯಾಂಡ್ ತನಕ ನನ್ನ ಬಿಡುವುದೆಂದೂ ನಿರ್ಧಾರವಾಯಿತು. ಸರಿಯೆಂದು ಮನೆಯಲ್ಲಿದ್ದ ಅಮ್ಮ ಮತ್ತು ಅಜ್ಜನನ್ನು ಬೀಳ್ಕೊಟ್ಟು, ಅಪ್ಪನೊಂದಿಗೆ ಬಸ್ – ಸ್ಟ್ಯಾಂಡ್ ಗೆ ಬಂದೆ. ಬಸ್ಸಿನವರ ಬಳಿ ಒಂದಷ್ಟು ವಿವರಣೆ ಪಡೆದು ನನ್ನ ಸೀಟು ಯಾವುದೆಂದು ಕೇಳಿದರು. ನಾನು 'seat-number' ತಿಳಿಸಿ ರೂಢಿಯೊಂದರ ರೂಪದಲ್ಲಿ, 'Bye' ಎನ್ನಲು ಹಿಂದೆ ತಿರುಗಿದೆ. ಅಲ್ಲಿ ನನ್ನ ಅಪ್ಪನ ಮುಖದಲ್ಲಿ ಚಿಕ್ಕ ನಗುವೊಂದಿತ್ತು! ಅದರಲ್ಲಿ ಹೆಮ್ಮೆ ತುಂಬಿಕೊಂಡಿತ್ತು. ಹಿಂದೆಂದೂ ಗಮನ ಕೊಡದಿದ್ದ ವಿಚಾರವೊಂದರ ಕಾರಣ, ಮರ್ಕಟ ಮನದಲ್ಲಿ ಮತ್ತೆ ಯೋಚನಾಲಹರಿ. ಆ ನಗುವಿನ ಹಿಂದೆ ಅವಿತಿದ್ದ ಭಾವನೆ ಎಷ್ಟು ನಿಗೂಢವೆನಿಸಿತು. ಆದರೂ ಹಲವಾರು ಪ್ರಶ್ನೆಗಳಿಗೆ ನನಗೇ ಉತ್ತರವೂ ಸಿಕ್ಕಿತ್ತು.

ಭಾವನೆಗಳನ್ನು ಮನದಲ್ಲೇ ಉಳಿಸಿಕೊಂಡ ಮಾತ್ರಕ್ಕೆ , ಭಾವನೆಗಳು ಇಲ್ಲವೆಂದೇನೂ ಅಲ್ಲ. ಕೇವಲ ಹಂಚಿಕೊಳ್ಳಬಾರದೆಂಬ ಬಿಗುಮಾನವೂ ನಿಮಿತ್ತವಲ್ಲ. ನನ್ನ ಧೃಡ ನಿಶ್ಚಯದ ಬಗ್ಗೆಯೂ, ನನ್ನ ಪ್ರತಿಭೆಯ ಬಗ್ಗೆಯೂ ನನಗಿಂತಲೂ ಹೆಚ್ಚೇ ನಂಬಿಕೆ ಇಟ್ಟಿರುವ ಅಪ್ಪನ ನೆನೆದು ಭಾವುಕಳಾದೆ. ಹಾಗೇ ಅರೆಕ್ಷಣ ಅವರ ನೆಮ್ಮದಿಗಾಗಿ ಪ್ರಾರ್ಥಿಸಿದೆ.



NAMANA SHANTARAM IBY20IS093

Passion v/s Obsession

The only difference between passion and obsession is perspective.

How can we know whether what we love is a passion or an obsession? Why is music regarded as a passion, yet motorcycling is considered to be an obsession? Both are simply different ways of bringing joy to others. Why do we have so many different names for them, each with an entirely different connotation? In the eyes of his peers, the motorcyclist is a dedicated and accomplished person. However, he is obsessed with motorcycles in the eyes of his parents and relatives. Should we congratulate this person for pursuing his aspirations and following his passion, or should we judge him for devoting way too much of his time to motorcycles?

I believe that we should embrace everyone's passions, no matter how obscure they may be. When a child who enjoys coloring beyond the lines is informed that he should modify his ways, the change occurs. What you do as a child determines the talents you develop and the activities you will pursue for the rest of your life. Consider this: doing homework as a child only leads to more homework as you grow older. I'm advocating for a paradigm change in which the word obsession is replaced with the word passion. Obsession is a misunderstood word for passion, however it has a very negative connotation. Encourage someone who is doing something they enjoy the next time you see them doing it. The only catch is that they must continue in a fashion that benefits society while not interfering with others' right to pursue their own interests. It's difficult enough to figure out what you want to achieve with your life, but when people try to crush your aspirations once you do, true success becomes unattainable.

So keep dreaming and doing what you love because success in what you love brings happiness...



Abhinav Sharma IBY18IS001

Perfection

Is perfection a race without a finish line

Or a finish line we may never reach?

Is it a mask,

That hides even the biggest scars

Or a mirror,

That reflects everything it sees?

Is it about having the brightest smile

Or having a reason to be cheerful?

Is it a rose in a bush

Or a rose on the feet of god?

Is it about enjoying the chocolate bar before it melts

Or preserving it to share with a friend?

Is it make-up that boosts confidence

Or ideas that can change the world around you?

Is it the dawn that's filled with possibilities

Or the dusk that gives rise to new perspectives?

Satisfaction may never let us grow.

Hunger may never let us stop,

Until it devours everything from bottom to top.

Maybe perfection is a complete myth.

Perfection could just be

to embrace yourself the way you are.

Standing tall doesn't have to make you noticeable.

Being small doesn't hide you in the midst of the crowd.

As long as your voice is clear and loud.

It isn't jewels that weigh us down,

But our thoughts.

A straight path makes us happier.

A crooked one makes us stronger.

The perfect time may never come,

If you search for it in the wrong way.

The clocks are ticking,

Sand is falling,

It's all happening now.

Take a step forward,

Even if it's shaky.

Because when the heart leads,

The mind follows.....



Samhitha Hebbale IBY21EC131

A plain of white words.

A day I write down my reflection

Of the scared Emotions at the nib.

A holding comfort of the precious

Memories I expect to find someday

And write each of them down day by day.

The ink that leaks ,prints a word

Stating the perceivable story I stand upon

Ending the silence I was a part off.

A sailing sentence on its path of

Reciting some sense into the lands of empty cans.

I did fill the pages with some color,

The Mohawk the pages I wrote wore

Took out some intensity it paved .

The loss of my own words I expected

I blamed it upon the paper.

The page I filled now stay incomplete,

My ideas I pride upon now are unfulfilling,

The stale position of my unconvincing thought.

The unsatisfying laugh can't be written,

Yet a try to do so is done.

A biblical sound of the words show of,

"No written makes no sense,

None thought writes some story within."

A word stays like a candle,

A word that did bring some warmth to my

hart.

So I did fill up some,

I dressed up those words.

Those ideas I fished for didn't get caught,

Yet did find some I didn't wish for .

Yet a tale to behold I wrote on the sheet of

mine.

Ill live to write some of them

It II train some lines,

It ll quench some pain of mine.

-Anonyms



VIKAS REDDY H V IBY21EC184

∞ MAA

Bhagwan bhi yeh rishta nibhane dharti pe aaya hai,
Kadmon maa tere, Maine jannat ko paaya hai...
Duniya ko naa jaane kitne lamho me udaas dekha hai.
Lekin jab-jab lagi mujhe thokar,
Mainne maa tujhko apne saath dekha hai...
Khushnaseeb hai voh log jinpar maa-baap ka saaya hai,
Maa kadmon me tere Maine jannat ko paaya hai...



That Burn...!

[This is a poem written on the basic on the words said by the victim in a interview taken by one of the leading news channel. This incident happened to be taken in Sringeri in the year 2015]

I remember it to be my last pleasant evening, The beautiful sunset and the breeze so pleasing. My skin looked so magnificent under those rays, Perhaps, those were the few last cheerful days..!

I had never believed in fate before,
But had to battle with the tears that were now hard to store.
I had never expected life to make me play on its cruel side,
My body was somehow alive, but its cover had died..!

He had not just ruined my graceful physique,
But also renamed me as ugly unique.
I was scared to see my own self in the mirror,
My own shouts had become my nightmares of horror..!

Now, no evening rays could give my skin that beauty,

This was probably the time to handle my courage or may be that was my duty.

There were many who showered all the synonyms of sympathy,

But only few held my hands through my apathy..!

At this point,

I have learnt so much and fought for all the burns I've worn.

Nothing could make me stronger, but "THAT BURN",

The acid on my face burnt like the sun...!



PRAJWAL V DEV
IBY21CV015

When Krishna is with You

When Krishna agrees with you, you do not have to worry about anyone else's opinion.

When Krishna stands by you, you can stand and fight alone.

When Krishna protects you, you do not have to fear anything.

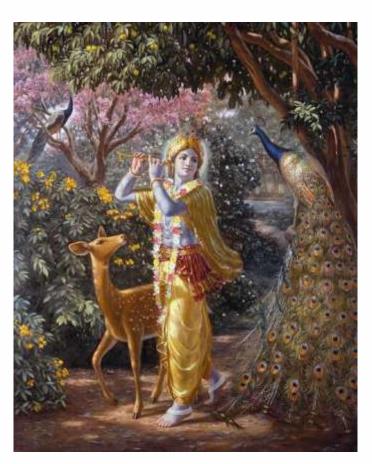
When Krishna teaches you, it is your greatest learning.

When Krishna trusts you, you are His greatest friend.

When Krishna blesses you, your happiness will have no end.

When Krishna loves you, you will never be lonely or loveless.

When Krishna is with you, you can achieve ultimate success.





AMLAN SHEKHAR BARUAH
IBY18CS016

How to prioritize your mental health

We all have our daily routines, tight schedules and a to-do list we tend to keep a track of almost everyday. Despite that, there are some days where we don't feel like doing anything at all. We lose track of time, feel burnt out to carry on or find it hard just to get out of bed. Though people assure you that it's okay and that it's probably nothing, remember to cut some slack for yourself every now and then. Take those days off when you don't feel like it. On days you don't know what to choose, choose your mental health. Here's how:

1. Taking care of your body

Taking care of your body doesn't mean sprinting to the salon to get a pedicure or your hair done. It's also about prioritizing your eating and drinking habits. You don't necessarily need to track all the calories on your plate. Just fuel yourself on a healthy diet of nutrients and proteins. It makes sense because your brain works faster that way. The better you eat, the better you work. To the caffein addicts and alcoholic junkies, here's a piece of advice- You might want to watch out on how much you consume. Though these can help in calming your mood and relieving your stress levels occasionally, they can also take a toll on you by triggering anxiety and irritability. But don't worry, there are alternatives to keep you hydrated. 7 glasses of water should do just the trick! On the contrary, it's a much cheaper and healthier choice, don't you agree?

2. Physical care

Getting physical isn't all about being a gym freak. Even the simplest of things like doing a little bit of yoga, light channeling, cycling or going for a walk contributes in ways you don't think make a difference. To keep up the consistency, you could work out with a partner. Not only do you get your boost of endorphins, but you also get an opportunity to connect better by planning with someone else. Forget about tracking your calories, burn them!

3. Getting enough sleep

Though staying up till 2 A.M watching a show or a movie seems really exciting, it isn't exactly the best idea in the world. Depending on sleeping pills can be worser and you might as well call it quits if you're consuming caffein late in the day. Learn to sleep and wake yourself up at consistent times. Optimize your bedroom environment by minimizing noise and light. Set the temperature according to your preference. Try not drinking right before bed as it can have a negative impact on your daytime energy. Reduce afternoon napping. Lack of proper sleep can lead to type 2 diabetes, heart diseases, obesity and other types of unpleasant health complications. Don't compromise. Get the beauty sleep that you need!

4. Connecting with people

The worst piece of advice someone could possibly say to you is to "calm down" while you're anxious or to "be positive" when you're feeling depressed. Though it sounds like they're

trying to help, if you know someone who's struggling, find support. Don't be afraid to reach out to a psychologist or a therapist if you really need professional help. They're there to take care of you when in need. Rather than bottling it all up and calling it "staying strong", letting it out and being free seems like a wiser choice. Stick with the people who bring out the wellness in you. If you find comfort in the warmth and positivity that they radiate, then keep the connection going.

5. One step at a time

Though being able to multitask makes one feel proud enough in terms of being "efficient", productivity is measured in terms of how well you do the job compared to how many you do. If you try everything at once, you will probably end up getting nothing done. Stop setting resolutions. Focus on improving your habits. Try writing down a couple of ways that can help you de-stress. Remember to breathe deep. Small steps between lily pads are better than a giant leap into the pond. Give yourself credit. Take it easy. Take it one step at a time. You'll get there.

6. Dealing with fear the right way

Although fear is an inevitable emotion we human beings are prone to experience in our lives, dealing with it in the right way is important. Try to embrace fear. It sounds ridiculous when you first think of it, but dodging them will only make them worser. Anxiety isn't necessarily designed to make you feel inactive. Instead it helps us act in ways to generate the outcome we want. Understand what you're afraid of. Don't ignore it, it will only grow more on you. Let it inform your actions, but not control them. Fear is real, the danger is not.

Mental health is more than just looking for ways to cure anxiety and depression. It's more about renewing your hope, strength, healing, progress and energy. It's about advocating within circles of our influence. It's about validating multiple social, psychological and biological factors to recognize the level of mental well being a person has at any point of view. You don't have to control you thoughts but you can stop letting them control you. Let your story go. Allow yourself to be present with who you are right now.

"Being realistic and accepting your reality is what contributes if you want to prioritize your mental health, because if you won't work, not much in your life will."







Shrividya Shashidhara 1BY20CS181

About My HERO

You are a visionary, you are a man with sheer commitment, you are a man who shoulders responsibilities,

When you determine to accomplish something, you work for it relentlessly until you achieve the same.

You are a persevering person, who is rather thoughtful instead of fearing for imminent difficulties and hard challenges, that are quite common in life.

You look after people with utmost care and affection,
You have a good heart to think about everyone's wellbeing,
You love your family, you love small children,

You know how to show your love with warm gifts, care, affection and a beaming smile.

You treat everyone equally and you show your humanity to all those people who belong to you. You are a person who strives for identity, you are person who deserves respect.

You are the best in commending people's achievements and encouraging on our bright future. You are our leader and you are an elder person of our family,

You are my pride, you are my inspiration,
I am one of your followers, I am one of the several
people who admires your glory, your legacy.
You are not a remembrance, you are a reality.
You are alive in my thoughts, you are alive in my
dreams.

I still remember the way you used to pinch me hard, when I used to run around the house, while I was being a notorious kid.

I still remember all my outings with you on an auto, which are literally unforgettable.

I would never fail to recall my last outing with you when I had got the golden opportunity to witness your shave at a barber's shop from a short distance.

I really don't mind being the same naughty, immature

kid back again, because you have always been there in all of those sweet childhood memories of mine.

I would heartily look forward to listen to all those memories as narrations with rapt attention from all those people who have always loved you and who

My mom has always been the best person among those narrators who talks about you, your memories and all her experiences with you.

would keep loving you.

You are my philanthropist, you are my philosopher, You are my inspirational idol and an incentive for all those people who know what you are.

You are indeed a successful person, you have succeeded in fulfilling your obligations and duties.
You are an eminent being who has left us with our devoir and an imminent duty of following your footprints, that you have left behind for us in the sands of life,

In order to live our lives to the fullest in a rightful and just manner.

You have not gone anywhere, you are there with us, You would always be there with us, right in our hearts, right in our thoughts,

According to me, you would always be an eternal, immaculate and an impeccable being and I am always one of those people, heartily looking forward to have at least a small glimpse of your smile,

I am proud to give an aloud, obvious revelation that I am your grandson and you are my grandfather, who is none other than my HERO:-

Mitnala Veera Raghava Sharma

You are my favourite person and I love you so much!!



Subrahmanya Lakshmi Keshav Bhumaraju 1BY20CS192











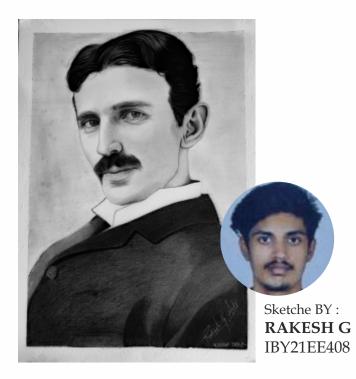


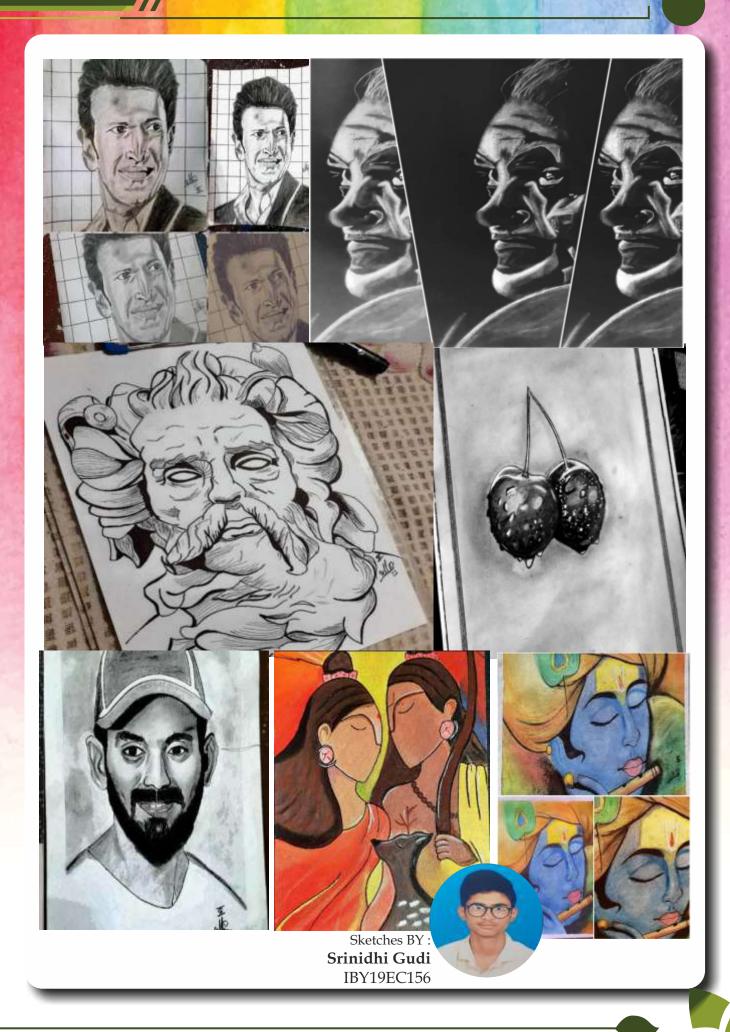


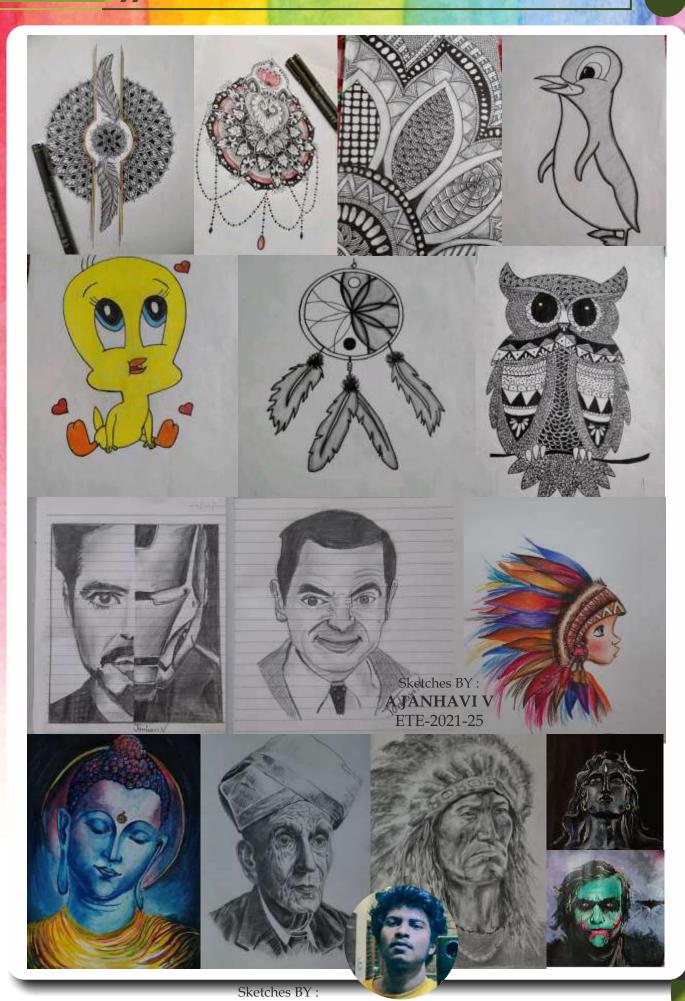
Sketches BY: **APEKSHA**IBY20CS029



Sketche BY : SHREYAS A YADAV IBY21IS155



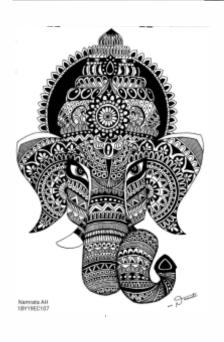








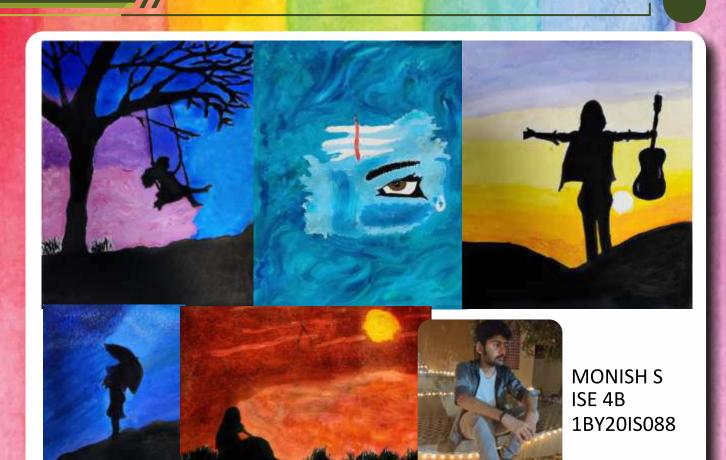
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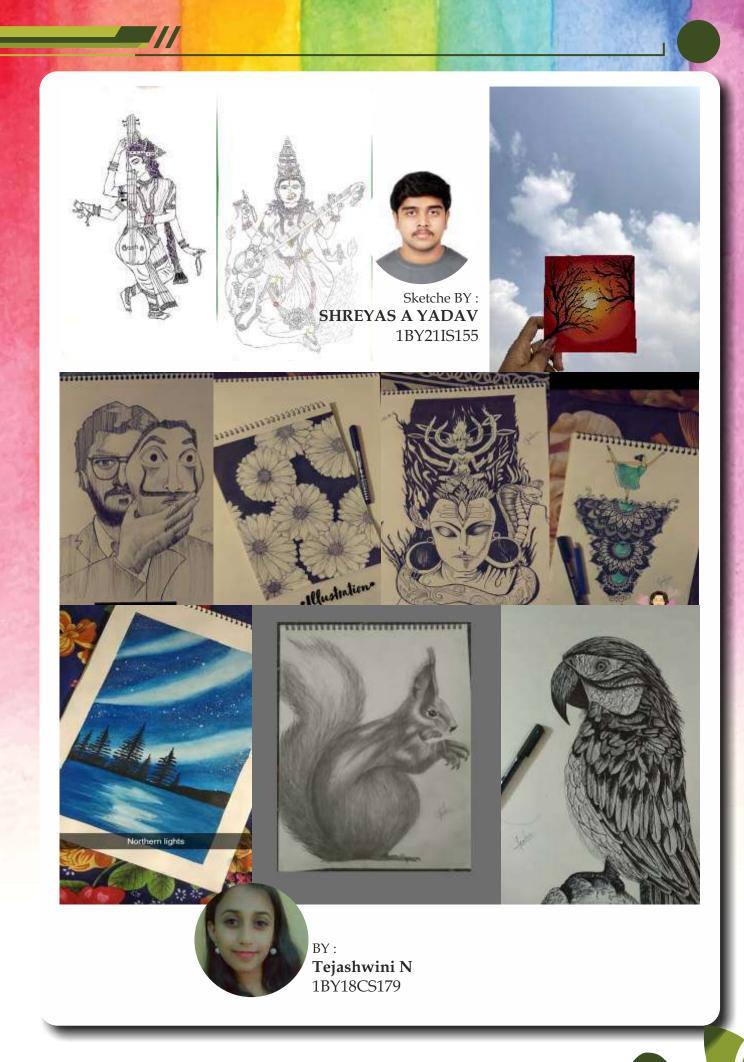
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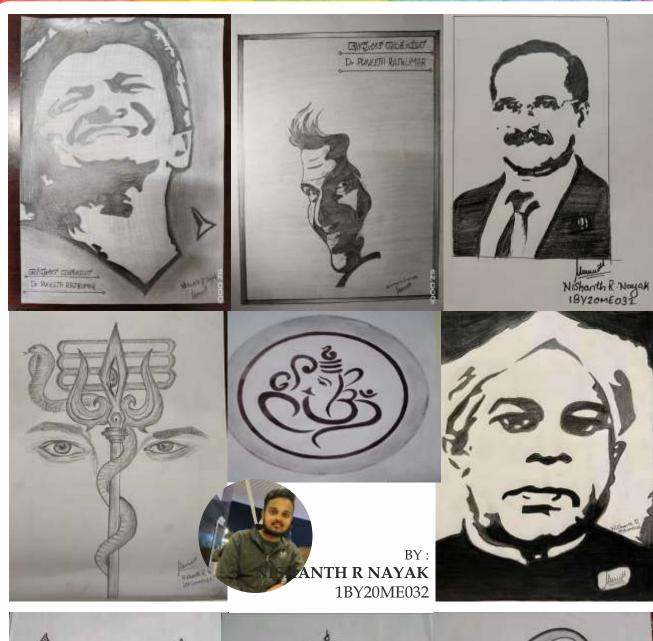


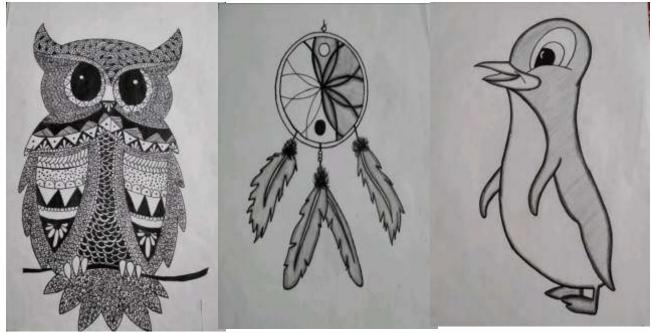


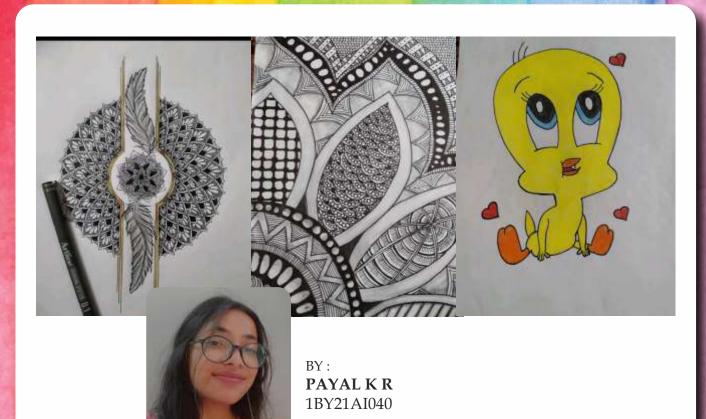


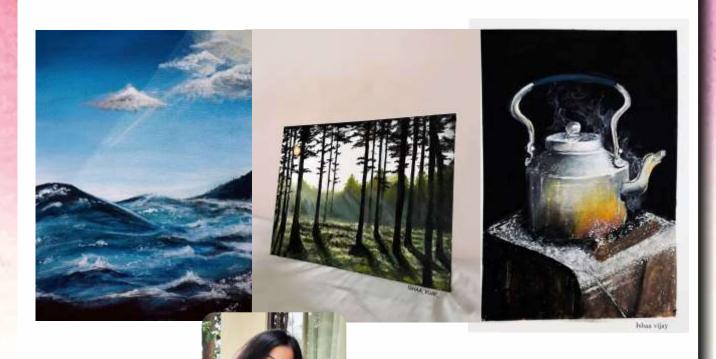








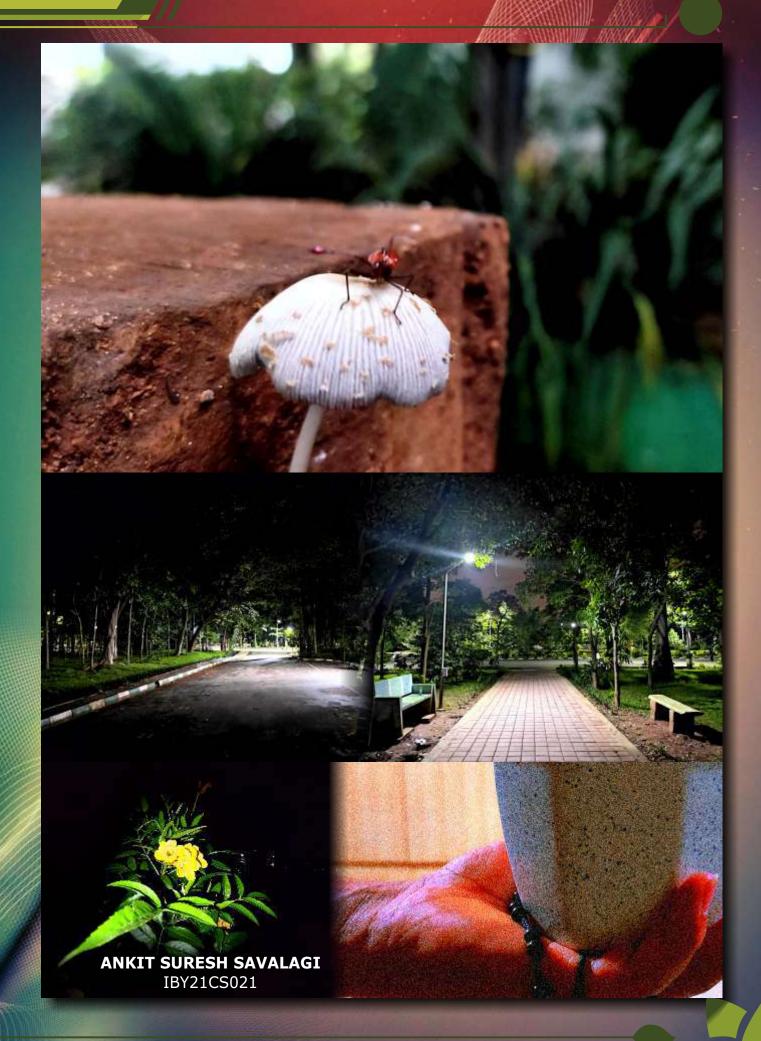




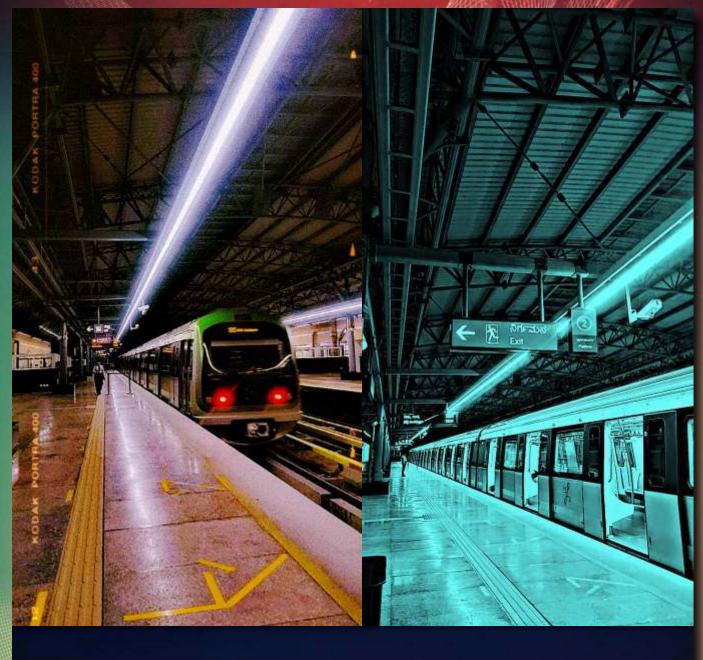
BY:

Ishaa Vijay 1BY19IS069 Collect moments not things.

Photography















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