

# BMS

## INSTITUTE OF TECHNOLOGY AND MANAGEMENT

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**BMS****INSTITUTE OF TECHNOLOGY AND MANAGEMENT****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.

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**Presented by :**  
**Dr. Mohan Babu G N**  
Principal, BMSIT&M



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## Faculty Achievements

### Memorandum of Understanding

- An Memorandum of Understanding (MOU) was signed between Rayvector Technologies and BMS Institute of Technology and Management. Dr. Thippeswamy G., HOD, Department of CSE, Dr. Srivani P., Prof. Bharathi R., Prof. Mari kirthima A., and Prof Durga Bhavani, Assistant Professors, Department of CSE, coordinated the event.



### Session Chair

- Dr. Bharathi M. A., Professor, Department of AI&ML was session chair for IEEE INDISCON-2023, was organized by IEEE Mysuru Subsection at GSSS IETW, association with IEEE India Council and IEEE Bengaluru Section on 05.08.2023 to 07.08.2023.
- Dr. Rajesh I. S., Assistant Professor, Department of AI&ML, Session Chair for IEEE INDISCON-2023 was organized by IEEE Mysuru Subsection at GSSS IETW, association with IEEE India Council and IEEE Bengaluru Section on 05.08.2023 to 07.08.2023.

### BOE

- Dr. Rajesh I. S., Assistant Professor, Department of AI&ML, was BoE Member for the School of Computing and Information Technology, at REVA University, Bengaluru on 23.08.2023.

### Faculty as Resource Person

- Dr. Anil Kumar D., Associate professor, Department of ECE, has extended their support as Resource person on "ARM microcontroller and applications", on 30.8.2023 at Reva University, Bengaluru.

### Faculty Awards

- Dr. Vidya R Pai, Assistant Professor, received Ph.D. award during convocation from VTU Belgavi, on 01.08.2023.



- Dr. Saritha I. G., Assistant Professor, Department of ETE awarded PhD degree, her thesis titled "Development of Resource Allocation and Security Algorithm for Cyber Physical Systems" in 23<sup>rd</sup> Annual Convocation held on 1.08.2023 at Visvesvaraya Technological University "Jnana Sangama" Belagavi.



### Students Achievements

- Ms. Keerthana.R (1BY19ET027), Department of ETE, receiving Gold medal from VTU, Vice Chancellor on 1.08.2023 at VTU Belagavi, 23<sup>rd</sup> Annual Convocation.





- Mr. Akash Niraj (1BY19IS016), Department of ISE, receiving Gold medal from VTU, Vice Chancellor on 1.08.2023 at VTU Belagavi, 23<sup>rd</sup> Annual Convocation.
- A Student Project Titled, "DOSTBIN-home based compost machine", was guided by Dr. Seema Singh. Students involved in this project are R. Venkatesh (1BY21ET033) Shumail Ali Khan (1BY21ET043) Narasimhamurthy D.S-(1BY21ET021) won Rs.25,000/- prize amount event conducted by Indian Startup Festival TAL Transformers 2023 Social Innovation Challenge on 12th August 2023.



- A Student Project Titled, "DOSTBIN-home based compost machine" Guided by Dr. Seema Singh. Students involved in this project are R. Venkatesh (1BY21ET033) Shumail Ali Khan (1BY21ET043) Narasimhamurthy D.S-(1BY21ET021) selected as one of the top 10 finalists in the prestigious "Pitch for the Planet" Contest conducted during the Grand Expo of the Carbon Zero Challenge from 26th to 28th July 2023 at IIT Madras.
- KSCST sponsored final year project titled "DEVELOPMENT OF COMPACT PATCH ANTENNA FOR MIMO APPLICATIONS" under the guidance of Dr. Banuprakash R., was selected for 46th series Student Project programme state-level Seminar and



Exhibition. The students Ashish Prasad and Nikitha M., have given seminar in the exhibition held on 11th and 12th August 2023 at Alva's Institute of Engineering and Technology Moodubidri.

#### Student Research Papers

- Spurthy S. N., and Prof. Venkatesh A., "InteliCrop: A Machine Learning-based Group System for Crop Prediction" International Journal of Scientific Research in Engineering and Management (IJSREM) - Volume 07, Issue 08 August 2023.
- Sagar C Golasangi, and Asst Prof. Venkatesh A., "Missing Person Finder" International Journal of Scientific Research in Engineering and Management (IJSREM) - Volume 07, Issue 08 August 2023.
- Punya P Gowda, and Prof. Venkatesh A., "Campus Recruitment System" International Journal of Scientific Research in Engineering and Management (IJSREM) - Volume 07, Issue 08 August 2023
- Basavaraj, and Prof. Venkatesh A., "News Alert App" International Journal of Scientific Research in Engineering and Management (IJSREM) - Volume 07, Issue 08 August 2023
- Madhusudan Nagori, and Prof. Venkatesh A., "Online Examination System" International Journal of Advanced Research in Technology and Management Sciences(IJARTMS) - Volume 07, Issue 08 August 2023.
- Nikitha A., Dr. Aparna K., "Natural Language Processing (NLP) – Driven Subjective Answer Ranking", International Journal of Scientific Research in Engineering and Management (IJSREM), ISSN: 2582-3930, Vol. 7, Issue 8, August 2023, pp: 1-7, DOI: 10.55041/IJSREM25075.
- Tejas S. Chawda, Dr. Aparna K, "Automatic Question Paper Generator", International Journal of Scientific Research in Engineering and Management (IJSREM), ISSN: 2582-3930, Vol. 7, Issue 8, August 2023, pp: 1-7, DOI: 10.55041/IJSREM25199.
- Dr. Aparna K., Manvith M Banger, "Biometric Enabled Remote Voting System for Senior Citizens", International Journal of Scientific Research in Engineering and Management (IJSREM), ISSN: 2582-3930, Vol. 7, Issue 8, August 2023, pp: 1-6, DOI: 10.55041/IJSREM24998.



## Reviewer for Journal / Conference

- Dr. Anna Merine George, Assistant Professor, Department of ECE, was a reviewer for manuscript submitted to scopus indexed journal "Cognitive Computation and systems", published by Institution of Engineering and Technology.
- Prof. Mamatha K. R., Assistant Professor, Department of ECE, was a reviewer for manuscript submitted to AICTE Sponsored IEEE International Conference on "Networks, Multimedia and Information Technology (NMITCON)" organized at Nitte Meenakshi Institute of Technology, Bengaluru INDIA during 01.09.2023 to 02.09.2023 in association with IEEE Bangalore Section.
- Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering has received appreciation Certificate in recognition of his work as a reviewer for the Hindawi portfolio of journals.
- Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering has received Certificate of Excellence in recognition of an outstanding contribution to the quality of the International Research Journal of Pure and Applied Chemistry.
- Dr. Madhu Palati, Assistant Professor, Department of Electrical and Electronics Engineering has received Certificate of Reviewer Recognition for AICTE Sponsored IEEE International Conference on Networks, Multimedia and Information Technology (NMITCON) is organized at Nitte Meenakshi Institute of Technology, Bengaluru INDIA during 1st and 2nd September 2023 in association with IEEE Bangalore Section.
- Dr. Nagamadhu M, Assistant Professor, Department of Mechanical Engineering, was a reviewer for Textile Research Journal, SAGE Publications, WOS, H Index 93, Q2, SCIE, Scopus, Impact factor 2.45.
- Dr. Nagamadhu M, Assistant Professor, Department of Mechanical Engineering, was a reviewer for Materials Today: Proceedings, Elsevier Publications, WOS, H Index 69, Q2, Scopus, Impact factor 1.09.
- Dr. Nagamadhu M., Assistant Professor, Department of Mechanical Engineering, was a reviewer for 15th ICMPC 05th - 08th September 2023.

## Best practices

- **The Parent teachers meeting (PTM)** was conducted by the department of CSE in seminar hall, 4th floor, BSN block on 12.8. 2023. Around 110 parents were present for the meeting along with teachers.
- A PTM was arranged on 12.08.2023 for the students of II semester MCA. Parents actively interacted with all the subject Teachers and Proctors and gained information about the student performance and attendance.



- A PTM was scheduled by Department of ETE, on 12.08.2023 in which parents of current 4th semester students and 2nd semester students came to discuss a student's academic progress, behaviour, and overall development.



- The Quiz Event was held by department of MBA on 22.08.2023, at Ratan Tata lab. This activity witnessed the participation of 17 teams, each comprising 3 members, in a dynamic and intellectually charged competition. The event was organized into three captivating phases, with Phase-1 encompassing logo, current affairs, and business-

related questions; Phase-2 delving into finance, HR, and marketing topics; and Phase 3 engaging participants in guessing famous personalities through pictorial cues. The event not only showcased the diverse expertise of participants but also provided a platform for strategic participation and camaraderie among teams.



- A Poster presentation Event was held by department of MBA on 24.08.2023. The event began with a brief introduction by Mangala, emphasizing the need for environmental awareness and the role that students can play in protecting the environment. The Environmental Poster Making Event proved to be a successful platform for students to engage with environmental issues creatively. It not only helped in enhancing their awareness of various environmental concerns but also encouraged them to think critically about their role in environmental protection. The event concluded with a sense of accomplishment and motivation among the participants to continue their efforts toward a greener and more sustainable future.



### Anti-Ragging Awareness Programme

- Anti-Ragging week was celebrated in the institution from 12th August to 18th August 2023. Three events were planned 1. Orientation 2. Logo Designing and 3. Poster Presentation. Orientation to inform about menace of Ragging, its causes, seriousness, and punishments were discussed with students of both boys' and girls' hostel on 14th, 16th, and 17th August 2023.
- Poster Presentation and Logo designing Competitions for educating the students about the menace of ragging and its causes. The event was held on 18th August 2023. Students from all disciplines participated and presented their innovative ideas. Institution supported the students for such activities and encouraged them by distributing the prizes for best posters and logos. Our Principal Dr. Mohan Babu G. N., addressed the students and motivated them to participate in the large numbers. The principal also mentioned the menace of ragging and informed the students to be friendly with the juniors. Vice Principal Dr. Anil G. N., Dean Student Welfare, Dean Planning and Development, Hostel Wardens and Coordinators were present at the venue.



### Industrial Visit

- An industrial visit was arranged by the Departments of ECE and Physics for the 2nd semester Electronics and Communication Engineering (ECE) students of BMSIT&M to Hindustan Aeronautics Limited (HAL)



Museum on 18.08.2023 as a part of Industry interaction to students along with two faculty members Dr. Asha K., Assistant Professor, Departments of ECE and Dr. Kavitha C, Associate Professor, Department of Physics.



- The department of MBA, organised an industrial visit on 04.08.2023 to K-Tech Innovation Hub, to its students. The visit provided the students with the practical knowledge about start-ups and the technologies, it led us to networking opportunities with many new things, we were explored to the working conditions of machinery with new innovation and technology, it enabled us to think advance and how to find a better solution to the different problem with innovative ideas and how to recruit the required capital through different government and non-government schemes.
- An Industrial visit to Bureau of Indian Standards, Bengaluru was organised on 18.8.2023 for students of 4th semester Mechanical Engineering. The Deputy Director –BIS, Mr Pradeep Kumar addressed the students on BIS & ISO standards and gave a holistic approach to them. The students were exposed to all the labs in BIS, Bengaluru branch



office and got an insight into the technical aspects of Mechanical, Electrical and Chemical labs. Around 21 students attended the Industrial visit. Prof. Madhu MC, (Course coordinator -4th semester –Fluid Mechanics and Machinery) and Dr O. Gurumurthy (Mentor, BIS ) coordinated the event.a



## Students Workshop conducted/organised

- The department of Humanities and Social Sciences in collaboration with Disha Bharat conducted a students workshop on Universal Human Values to all the fourth semester students on 18th August 2023. The workshop was conducted for 2 hours 30 minutes in five different sessions parallelly in Seminar Hall-1, 2 and CSE Seminar Hall. Disha Bharat is a non-profit social initiative started in the year 2005 with an objective to impart values in the higher education domain with the motto – “शस्त्रायाश्च शय्या शय्याश्च” (Sheelameva Parama Dhanam). Smt Rekha Ramachandran, founder, Smt. Smruthi Khare, Sri Pramod Nataraj, Smt. Sneha Damle, Ms. Lavanya Radhakrishna and Sri. Pradeep Nataraj, volunteers of Disha Bharat were the resource persons. The workshop was coordinated by the various course coordinators of UHV-2 which is a common course for all fourth semester students.

The workshop provided participants with a dynamic and interactive experience that combined quiz, yoga and mini-games to explore human values, enhance self-awareness, and deepen knowledge of their country's culture and heritage. The workshop focussed on holistic character development of the youth enabling them to engage ethically in the personal and professional domains. Around 800



students attended this workshop and expressed that the knowledge and insights gained from this workshop will continue to influence participants' lives positively and contribute to a more compassionate and harmonious society.



#### Expert talk organized

- Department of Electrical and Electronics Engineering organized an expert talk on the topic "Opportunities and Solution for Employability in Core Engineering" for 4th semester students on 11.08.2023. The expert talk was delivered by Mr. Anand, President of ASSET Society, Visionary Founder and CEO of Swifterz Creative Services, Bangalore.



- Department of Electrical and Electronics Engineering organized an expert talk on the topic "Electrical safety and Protection" for 2nd semester students on 12.08.2023. The expert talk was delivered by Mr. Lokesh S, Senior Manager, Home & Distribution BU, Schneider Electric Pvt. Ltd. Bangalore.



- Department of Mathematics organized an expert talk on the topic "social Innovation and Entrepreneurship" by Mr Harsha S, Secretary and Chief Instructor, LGS Trust on 21.08.2023 for second semester ETE and CSE B students. The event was coordinated by Dr. Chethan A S and Dr. Kallur V Vijayakumar.
- Department of Mathematics organized an expert talk on the topic "Application of Mathematics in Engineering" by Dr. V. Nagendramma, Presidency University on 16.08.2023 for second semester AIML, Civil and Mechanical students. The event was coordinated by Dr. Anitha Kiran and Dr. Aruna kumara H.

#### OBE Activity

- As part of partial delivery for software engineering course an OBE activity was planned. On August 22, 2023. The Department of Information Science and Engineering conducted a Seminar on "Agile Development Process and Software Testing.", as part of Software Engineering course. The event was coordinated by the faculty of ISE department, the seminar aimed at enhancing the understanding of agile methodologies and software testing practices among second year students. The seminar was delivered by an eminent guest speaker, Mr. Sudhir Manjunath, who shared insights and real-world experiences of software Engineering, enriching the students'. Perspectives on modern software development practices were discussed. This initiative reflected the Department's commitment in providing practical and up-to-date knowledge to our students, and also preparing them for successful careers in the dynamic field of software engineering.



#### Consultancy Work

Dr. Banuprakash R, has completed the consultancy project work on "Design of compact 2 port MIMO antenna for sub-5G applications and Compact antenna for C band applications", during 13.07.23-29.07.23 of worth Rs. 22000/- for client Technilab Instrument



## Research Publication

### International Journal

- Gowda, N.C., Bharathi Malakreddy, A. BPCPR-FC: blockchain-based privacy preservation with confidentiality using proxy reencryption and ring signature in fog computing environments. *Int. j. inf. tecnol.* 15, 3343–3357 (2023). <https://doi.org/10.1007/s41870-023-01373-w>
- Nagamadhu M., Jyothi C. A., Murthy BRN, Ravichandra K R and Srinivas RP "Influence of Textile Properties on Mechanical Characterization of `Woven Sisal Fabrics and sawdust polymer composites bricks analysis using ANOVA and Multi Objective Decision-Making Techniques" *European Chemical Bulletin* 12 (10), 10344-10370 (2023).
- Ekbote, Anupkumar G., and Lohitkumar Nainegali. "Behaviour of Interfering Embedded Footings Laid in Unreinforced and Reinforced Sand Medium." *CURRENT SCIENCE* 125, no. 4 (2023): 392.
- Ekbote, Anupkumar G, and Lohitkumar Nainegali, "Study on Closely Spaced Asymmetric Footings Embedded in a Reinforced Soil Medium." *Ingeniería e Investigación* 43, no. 3 (2023): e101082-e101082.
- H. S. Madhusudhan, T. Satish Kumar, Gupta P, McArdle G (2023) A Harris Hawk Optimisation system for energy and resource efficient virtual machine placement in cloud data centers. *PLoS ONE* 18(8): e0289156. <https://doi.org/10.1371/journal.pone.0289156>
- Prathiba.N, Mala C. S., "QLAR- Q LEARNING BASED ACOUSTIC ROUTING FOR UNDERWATER SENSOR NETWORKS", *Journal of Theoretical and Applied Information Technology (JATIT)*, Vol.101. No 15, ISSN: 1992-8645, pp-5989-5998, 15th August 2023.
- Nagamadhu, M, Sachinkumar Patil, S. B. Kivade, Amaresh Gunge, and Kadhil Fadhim Kadhil, "Effect of Ghatti gum content on mechanical properties of epoxy composite using multicriteria optimization techniques." *Materials Today: Proceedings* (2023).
- Krishna G L Anantha, "Experimental investigations with Neodymium–Iron–Boron magnets with

aluminum circular plates to find deceleration, time taken and stopping distance." *Materials Today: Proceedings* (2023).

### International Conference

- B. N. Chandrasekhar, Assistant Professor, Department of AI & ML, presented a paper titled "Forecast Model for Scheduling an HPC Application on CPU and GPU Architecture," 2023 3rd International Conference on Intelligent Technologies (CONIT-2023), pp. 1-5, DOI: 10.1109/CONIT59222.2023.10205724. [SCOPUS].
- Thejaswini S; Ramesh Babu N; Mamatha K R."Machine Learning Algorithm to Detect EEG based Emotion states using Virtual-Video stimuli" 2023 International Conference on "Advances in Electronics, Communication, Computing and Intelligent Information Systems (ICAECIS)" Published by IEEE on 07.07.2023
- Prof. S. Nithya Poornima, Assistant Professor, Department of Mechanical Engineering presented a paper titled "Influence of the Bio-lubricant along with nano compounds as additives on the properties of the lubricant", at 2nd International Conference on Smart Sustainable Materials and Technologies (ICSSMT 2023) on 30-31 august 2023 organised by care college of engineering Tiruchirappalli, Tamil Nadu, Springer Publications.

### Book Chapters

- B. R. Vinod, R. Anthony, J. Akshit Jain, Department of Civil Engineering, BMS Institute of Technology and Management, "Comparative Study to Investigate the Suitability of Sustainable Alternatives in Enhancing Strength Characteristics of Black Cotton Soil", *Lecture Notes in Civil Engineering (LNCE)*, Springer Nature Singapore Pte Ltd. 2023, ISBN 978-981-99-2551-3 ISBN 978-981-99-2552-0 (eBook), DOI: [https://doi.org/10.1007/978-981-99-2552-0\\_1](https://doi.org/10.1007/978-981-99-2552-0_1), Page Number : 201-215 , 4th August 2023.



- B. R. Vinod, Anthony Raj, and S. T. Shashank Department of Civil Engineering, BMS Institute of Technology and Management, "Shear Strength and Settlement Analysis of Stabilized Soil with GGBS and Cement", Lecture Notes in Civil Engineering (LNCE), Springer Nature Singapore Pte Ltd. 2023, ISBN 978-981-99-2551-3 ISBN 978-981-99-2552-0 (eBook), DOI: [https://doi.org/10.1007/978-981-99-2552-0\\_1](https://doi.org/10.1007/978-981-99-2552-0_1), Page Number : 229-238, 4th August 2023.
- B. R. Vinod, Akshit Jain ,Department of Civil Engineering, BMS Institute of Technology and Management, "A Study on the Effect of Alccofine on the Stability of Soil Slopes " Lecture Notes in Civil Engineering (LNCE), Springer Nature Singapore Pte Ltd. 2023, ISBN 978-981-99-2551-3 ISBN 978-981-99-2552-0 ( e B o o k ) , D O I : [https://doi.org/10.1007/978-981-99-2552-0\\_1](https://doi.org/10.1007/978-981-99-2552-0_1), Page Number : 239-245, 4th August 2023.

#### FDP /Workshops/STTP

Departments	No. of faculty attended the FDP/Workshop/STTP
CIVIL	3
EEE	2
ETE	5
HSS	1
MBA	1
MCA	1

#### Online Course

Departments	No. of faculty completed online course
CIVIL	1
CSE	1
HSS	1
MCA	1

### Music Club Activities

- The first in the series of performances by students of BMSIT&M titled "NOTEworthy" was held on Friday 18.08.2023 3:00 p.m. in the ISE department seminar hall. Mr Simhadri M H, (1BY22ET049), 2nd Semester, ETE Department, a student of Vidushi Mangala Bhaskar, presented a Carnatic vocal recital. He presented variety of compositions in classical Carnatic style. He began with Sri. Mahaganapathim in Athana Ragam, a composition of Mysore Jayachamarajendra Wadiyar. Later he presented a Navaraga Malika Varna composed by Patnam Subramania Iyer. He then presented a kriti in Kalyani Ragam composed by Sri Thyagaraja. It was followed by Bhavayami Raghuram in the Raagamalika of Sri Swathi Tirunal Maharaja. Madhuvanthi Thillana of Lalgudi G. Jayaraman was the next presentation. He concluded the presentation with a Devara Nama in Vrindavan Saranga Raga. The attendance of the event included students and few faculty members.





## Research Activities

### Ph.D. Research Scholars at BMSIT&M

Sl. No.	Research Centres	Total	External	Internal	Full-Time	Part-Time
1	Chemistry	7	7	-	2	5
2	Civil Engineering	3	3	-	1	2
3	Computer Science and Engineering	32	30	2*	2	30frg*
4	Electronics and Communication Engineering	14	9	5	1	13
5	Electrical and Electronics Engineering	9	3	6	-	9
6	Electronics and Telecommunication Engineering	2	1	1	-	2
7	Information Science and Engineering	12	8	4	-	12
8	Mathematics	3	3	-	-	3
9	Master of Computer Applications	9	7	2	-	9
10	Mechanical Engineering	12	7	5	-	12
11	Physics	8	8	-	-	8
*M.Sc. (Engg.) Total		111	86	25	6	105

### Ph.D. Research Scholars Activities

Sl. No.	Research Scholar Name	USN	Research Centre	Guide Name	Activity done
1	Vani G	1BY16PEJ07	CSE	Dr. Bharathi Malakreddy A	Colloquium on 4.8.2023
2	Sunita T N	1BY16PEJ04	CSE	Dr. Bharathi Malakreddy A	Colloquium on 4.8.2023
3	Smriti Rai	1BY20PMC01	MCA	Dr. Aparna K	RAC-1 meeting on 9.8.2023
4	Sushitha S	1BY20PMC02	MCA	Dr. Aparna K	RAC-1 meeting on 9.8.2023
5	Thanuja K	1BY17PIS01	ISE	Dr. Shoba M	Open Seminar 2 on 3.8.2023 & Colloquium on 16.8.2023
6	K V Jyothi Prakash	1BY11PEN01	ECE	Dr. G S Jayadeva	Open Seminar-1 on 23.8.2023 & Open Seminar-2 on 30.8.2023

### Research Activities Statistics

Publications during August-2023: 38
Ongoing Funded Projects as on 31.8.2023: 13
Consultancy Projects in August-2023: 01(ETE)
AICTE ATAL FDP 2023 - 24: Five applications are submitted from AI&ML, ECE, ETE, CSE and ME.
Full-Time Ph.D. Scholars Assistantship 2023- 24: Four candidates are short listed for Interview and one candidate selected for the assistantship.



## R&C activities

### Head, R&C visit

- BMSCE visit on August 16, 2023: To understand the research policies, research activities.
- LTI Mindtree visit on August 9, 2023: Understand AR/VR real time use cases and IT infrastructure setup for AR/VR.



- Research scholar K. V. Jyothi Prakash, bearing USN:1BY11PEN01 presented the Open Seminar–II, on “Analytical Model for obtaining Surface Potential for p-Channel MOSFET Considering QM Effects” under the guidance of Dr. G. S. Jayadeva on 30.08.2023 in R&D Lab, Department of ECE Engineering, II floor, Academic block.

### R&C Cell Student Internship with Zeta Coding

Our R&C Cell, in Collaboration with Zetacoding Innovative Solutions conducted a project internship interview on 12.08.2023 and offered a 45-day (11th Aug-2023 to 10th September-2023) internship programme for eight teams from different branches for the position of “Research Intern”, at Zetacoding Innovative Solutions, Bengaluru in Collaboration with R&C Cell, BMSIT and M, Bengaluru. At present all teams are working on different domains successfully.



### R&C important activities

- Discussion with Carl Zeiss team about ophthalmology and optometry research problems on 23.08.2023.
- Interaction with GNUMS team to Validate Ph.D. module options/fields and the anomalies/access privileges to be addressed with addition of some new fields requirement on 11.08.2023.
- Research scholar K. V. Jyothi Prakash, bearing USN:1BY11PEN01 presented the Open Seminar–I, on “Surface potential based analytical model for nMOSFET with QM effect” under the guidance of Dr. G. S. Jayadeva on 23.08.2023 in R&D Lab, Department of ECE, II floor, Academic block.

## Top 15 new technology trends in 2023



- ▶ Artificial Intelligence (AI) and Automation
- ▶ Augmented Reality (AR) and Virtual Reality (VR)
- ▶ Internet of Things (IoT)
- ▶ Blockchain Technology
- ▶ 5G Technology
- ▶ Cloud Computing
- ▶ Cybersecurity
- ▶ Quantum Computing
- ▶ Zero Trust Security
- ▶ Biometrics
- ▶ Robotics
- ▶ Space Technology
- ▶ Edge Computing
- ▶ Digital Twin
- ▶ Natural Language Processing (NLP)



## BICEP Activities

- DostBin Team applied for India Startup Festival 2023 and participated in TAL Transformers They attended the Final Pitch on 30th July 2023. Dostbin was selected for the semifinals and the idea was presented in front of the jury members on 6th Aug 2023. The DostBin team was shortlisted by the Jury. Received prize money of Rs.25,000, on 12th Aug 2023. DOSTBIN - Winner at TAL Transformers, in the Social Innovation Challenge category at Indian start-up festival, receiving prize money from ISF founder, Mr. J. A. Chowdhary.



- Pre-Incubate Presentation:** Students with innovative ideas for Start-up are supported by BICEP by pre-incubating them before Incubation. Students present their proposal to get selected for the same. Four teams presented on day 1 on 31st July. The day 2 presentation was held on 1st August, 2023 with 3 teams. The panel includes the Principal and BICEP core team. Dr. Ravichandra K R, BICEP - Incubation Coordinator is the incharge of Pre-Incubatee enrolment at BICEP.

Name	Departments	Mentor	Project
Mr. Venkatesh & Team	ETE	Dr. Seema Singh	DOSTBIN – Home based compost
Mr. Prajwal & Team	CV	Prof. Anup Ekbote	BAGUSK - Novel Composite Materials
Mr. Satyanarayana Prashar	ECE	Mr. Jagannath K. B.	Edloops - Learn to code 20x faster

### BICEP Logo competition

- The BICEP team initiated the Logo competition to get the new logo for BICEP which gives the essence of the Innovation & Entrepreneurship ecosystem. Students participated enthusiastically and a massive response was received. Phase-1 of the competition was held on 9th Aug 2023 to shortlist 10 logos. This event was coordinated by Mr. Chennabasava C., BICEP Manager and supported by Ms. Shama. BICEP – Innovation Coordinator. The final logo was launched on 21st August on World Entrepreneurs Day.



- World Entrepreneurs Day was celebrated with a Panel discussion on “Sustaining startups” by the Alumni Entrepreneurs Event held on 21st Aug 2023 at BSN block 1st floor E-Studio. Participated guests were Mr. Mohammed Fahim, Founder of Fervent Houses, Mr. Chethan G. S., Managing director of CS Group of Companies, Mr. Kaushik S. A., CEO & Founder Crew of Cyber Consulting, Mr. Adarsh Babu, CEO & Founder of Ember Quest. This event was coordinated by Prof. Bharathi R, BICEP - EDC Coordinator, Mr. Chennabsava C., BICEP Manager & Prof. Archana K., BICEP – EDC Coordinator.





### Expert Talk

Session on "HOW TO START A START-UP, LEGAL & ETHICS" This session was organised by Entrepreneurship Development Cell, BICEP. With Mr. Akhil, a Chartered Accountant on 18th Aug 2023 at E-studio BSN block. This dynamic session was dedicated to shedding light on the intricacies of starting and scaling a successful start-up, while also sharing knowledge about the tools to initiate their ventures while upholding strong legal and ethical standards in today's complex, business environment. This event was coordinated by Prof. Bharathi R, BICEP - EDC Coordinator, Mr. Chennabasava C, BICEP Manager & Prof. Archana K BICEP – EDC Coordinator.



### Beyond Campus

Airport Drone aviation event on 4th Aug 2023. An awareness event for airport security measures using drones and other equipment was conducted at Bangalore International Airport Ltd by the Department of Civil Aviation. In this regard, BMSIT&M had put up a stall at the departure terminal of the Bangalore airport showcasing the drones and their importance in improving airport security. The event was conducted from 31.07.2023 to 05.08.2023. The students of Aeroclub, Mr. Kshiti, Mr. Vaibhav, Mr. Shishir, and Mr. Harsh Yadav were at the display stall showcasing the drones. This event was coordinated by Prof. Madhu M. C., BICEP - Innovation Coordinator.

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### Industry Visit

- A Visit to COMED KARES on Aug 2nd, 2023 was arranged with different department faculty members, instructors and a few students. COMED KARES is a model for the Consortium of Medical, Engineering and Dental in Karnataka colleges. Around 155 institutions affiliated to VTU colleges are attached to Comed Kares. Around 25 members got exposed to the facilities and support available there. Rapid prototyping (including 3D printing, laser cutting, and laser welding), innovative products and projects were demonstrated. This event was coordinated by Prof. Madhu M. C., BICEP - Innovation Coordinator.





- Visited K-tech Innovation Hub on August 4th, 2023. The Hubs, titled Common Instrumentation Facilities, is a chain of hardware product start-up incubators across the state of Karnataka, spanning around 40,000 sq. ft. These have been set up by Karnataka Innovation and Technology Society (KITS), under the Department of IT, BT and S&T, Govt. The visit provided the students with the practical knowledge about start-ups and the technologies, it led us to networking opportunities with many new things, we were explored to the working conditions of machinery with innovation and technology, it enabled us to think advance and how to find a better solution to the different problem with innovative ideas and how to recruit the required capital through different government and non-government schemes. This event was coordinated by Dr. Vinay, BICEP - Innovation Coordinator & Dr. Nethravathi N., BICEP - Coordinator.



## Bangalore Startup Event

- Mr. Chennabasava C, BICEP Manager participated in Start-up Global Club (SGC) at WeWork Koramangala on July 29th, 2023. SGC is one of the leading Start-up event's organizers in the Market. Monthly one Power networking events organized in all the major cities like Bangalore, Hyderabad, Mumbai, and Delhi followed by one funded start-up meeting every month in each city. Mr. Mohith is

the Director for the whole event. A collaboration to organise such events on the college campus in the upcoming days. There were more than 150 participants in this event.



- Mr. Chennabasava C, BICEP Manager participated in an industrial connect meeting with E-chai- venture Start-ups on 12th Aug 2023. More than 30 people participated, and they shared their struggling points with respect to their start-ups. BICEP offered strategic pre-incubation model solutions to more than 3 companies shown interested in our solution. Mr. Prem, one of the leading software developers, visited BICEP after the meeting and we introduced one of our pre-incubate DELOAI team. Visitor showed more response towards our offerings, and he showed interest in incubating his company in our facility and further plans are in progress to incubate.





### Guest visited to BICEP

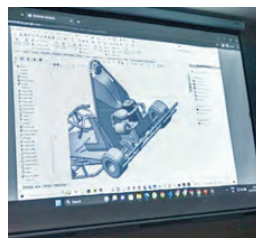
- Mr. Mohith Director of Startup Global Club (SGC) visited to BICEP, BMSIT on 25th August 2023, He verified the possibilities to conduct the industrial connect programs in our college venue. The plan is to conduct a program for the corporate employees on a weekend which helps to motivate students to have their own startups. On the other hand, this will be an opportunity for BICEP to attract more applications for pre-incubation.



### Digital Launch of Kart

- Indian Karting Race (IKR) is a contest formulated to enhance the approach of students practicing

Engineering and Diploma courses. It's a Student Go-Kart design and manufacturing competition. Engineering and Diploma student from all over India register their team and compete with other teams in



the different round of the event. INDIA'S BIGGEST GO-KART EVENT final Event for 8th Season is planned on 26th - 30th October 2023 at Buddh International Circuit, Greater Noida. BMSIT&M has been participating since 2 years. Continuing the participation for this year, a Launch event held on August 25, 2023, at seminar hall 2nd floor, academic block. This special occasion brought together team members, the Dean of Academics, and many teachers from various departments IKR 2023 Digital Launch and the Indian Kart Racing National level competition. Their presence demonstrated the university's commitment to promoting diverse interests among students and fostering a well-rounded educational experience.

## Intellectual Property(IP) Cell Activities

On 23.08.2023 Intellectual Property Cell conducted a day's Workshop on "Intellectual Property Rights". This workshop was organized by IP Cell BMSIT&M in collaboration with KSCST, Bengaluru. This one-day workshop was by KSCST seed money. The total number of registrations received across the country 118. There were five versatile resource persons contributing to this workshop.

Dr. U. T. Vijay, spoke about the functionalities of KSCST and the current projects under the sponsorship of Government of Karnataka. He briefed on the contributions of science and technology in the fields of Water, Energy, Environment, Education, Health, Geo-ICT, Housing, IPR and S&T Popularization. Further he emphasized the importance of women scientists in the field of science and technology and introduces the audience to KIRAN (Knowledge Involvement in Research Advancement through Nurturing), a new scheme. He gave the statistics of the number of patents filed by Indian authors. Dr. Brinda Varma,

Advocate & IP Agent, discussed about the introductory topics of Intellectual Property Rights, types of IPRs, and Case studies of how to file copyrights and patents.

Mr. Nagarjun M G, Project Associate discussed mainly about design patent with examples and case studies. Prof. Praveen Kumar T N, IP Cell Coordinator, covered the topic of practical aspect of IPR with case studies and examples. Mr. Kodandara, IRS Assistant Director (Retd.) Advocate & Consultant, covered the topic of Industrial applications of trade marks in business.





## NCC & Sports Activities

An Inter Group Competition camp was organized on 01.08.2023. Cpl. Pooja P attended the IGC camp at Mysore organised by 3 Kar Girls Battalion, Mysore group which took place from 01.08.2023 to 10.08.2023. She won the second place for map reading in the intergroup competition under the SW category.



### Independence Day Celebrations

NCC BMSIT&M celebrated the 77th Independence Day in the presence of the Principal, Dr. Mohan Babu G. N. The cadets hoisted the national flag and displayed a special drill which included various formations.

Cpl. Pooja P attended the TSC camp-1 held at Mysore organised by 13 Kar Battalion, Mysore Police Training group from 18.08.2023 to 27.08.2023.



### NSS Activities

Drug Awareness and Police Marshals launch event was conducted by Aarohan Foundation along with Bengaluru City police. The event was supported by 42 various educational institutions and hospitals.

Among which our college student volunteers from NSS-YRC-NCC participated in the event. The program was organized in Ambedkar Bhavan, Yelahank New Town, Bengaluru. Several police officer were part of this event and their motive was to create awareness and prevention of drug abuse. Aarohana is a Foundation that works on connecting public to police through this program, in this connection "POLICE MARSHAL'S - Through College Students" event was inaugurated. Chief Guests of the function were Mr. Laxmi Prasad IPS - Bangalore City Police - Deputy Commissioner of Police Bangalore North East, Mr. Raman Gupta IPS - Additional Commissioner of Police East, Dr. Pratima Murthy - Director NIMHANS, Mr. Dayanand IPS, BCP Commissioner. Motivated by this program, our student volunteers will take it forward to their juniors in our cmpus, "SAY NO TO DRUGS"





### Placement Information

**2024 BATCH FINAL PLACEMENTS:** The placement season for the 2024 Batch commenced on 01.07.2023. As on 31.08.2023, total 56 placement offers have been placed and given internship offers as detailed below.

Sl. No.	COMPANY NAME	TOTAL NO. OF JOB OFFERS	CTC-LPA (Rs.)	Placement/Internship
1	ALSTOM	5	6,80,000	Placement & Internship
2	BURNS & MCDONNELL	2	5,60,000	Placement & Internship
3	CARL ZEISS	10	11,00,000	Placement & Internship
4	GALAXE SOLUTIONS	18	5,00,000	Placement & Internship
5	NEW FOLD DIGITAL	1	15,00,000	Placement & Internship
6	PHONEPE	6	26,00,000	Placement & Internship
7	SIEMENS HEALTHINEERS	10	8,50,000	Placement & Internship
8	SIRIUS	3	7,00,000	Placement & Internship
9	UI PATH	1	10,00,000	Placement & Internship

#### Placement and Training Department Events

- M/s Accenture: 2024 Batch Accenture Mock Test on 3rd August 2023.
- 2025 Batch IAS Aspiration Session: IAS Aspiration Session on 3rd August 2023 for 2025 Batch.
- M/s LTImindtree: The Principal and Professors are visited on 09th Aug 2023 LTImindtree AR-VR Facility.
- 2025 Batch IAS Aspiration Session: IAS Aspiration Session on 3rd August 2023 for 2025 Batch.
- M/s LTImindtree: The Principal and Professors are visited on 09th Aug 2023 LTImindtree AR-VR Facility.
- M/s EPSILON: 2024 Batch Epsilon Campus Drive Process on 16.08.2023.
- M/s Burns & McDonnell: 2024 Batch Burns & McDonnell Campus Drive on 18.08.2023.
- M/s DXC Technology: 2024 Batch DXC Technology Campus Drive Process on 18.08.2023.
- M/s Alstom: 2024 Batch Alstom Campus Drive Process on 21.08.2023.
- M/s Carl Zeiss: 2024 Batch Carl Zeiss Campus Drive Process on 23.08.2023.





## JNANAVARDHANA

'Teachers to be taught and trained'—is a relatively growing concept found in Societies all over the world, in the nineteenth and twentieth centuries. Also, Quality education is considered as the backbone of the nation countries whether they are underdeveloped, developed, or developing countries at present. As part of sharing higher-level knowledge, BMSIT&M gives opportunities to Professors of various departments to deliver talks on recent trends and topics in their domain. This initiative has taken firm footage as Jnanavardhana, a series of talks given by Professors to share their knowledge in topics on cutting-edge technology and trending subjects. The list of topics delivered by the Professors during August-2023 is given in the table below.

Sl. No.	Presenters	Date	Time	Topic Title
1	Dr. Ramakrishnappa T.	2.08.2023	12.00 to 1.00 pm	Inexpensive sensing device for water quality monitoring: Heavy metal ion detection
2	Dr. Sathish Kumar K.M.	9.08.2023		AS.RS in an Automated System
3	Dr. Sudhamani M.V.	16.08.2023		Edge Computing- An overview
4	Dr. Thippeswamy G.	23.08.2023		Several landmark initiatives taken up under NEP-2020 for the transformation of higher education sector

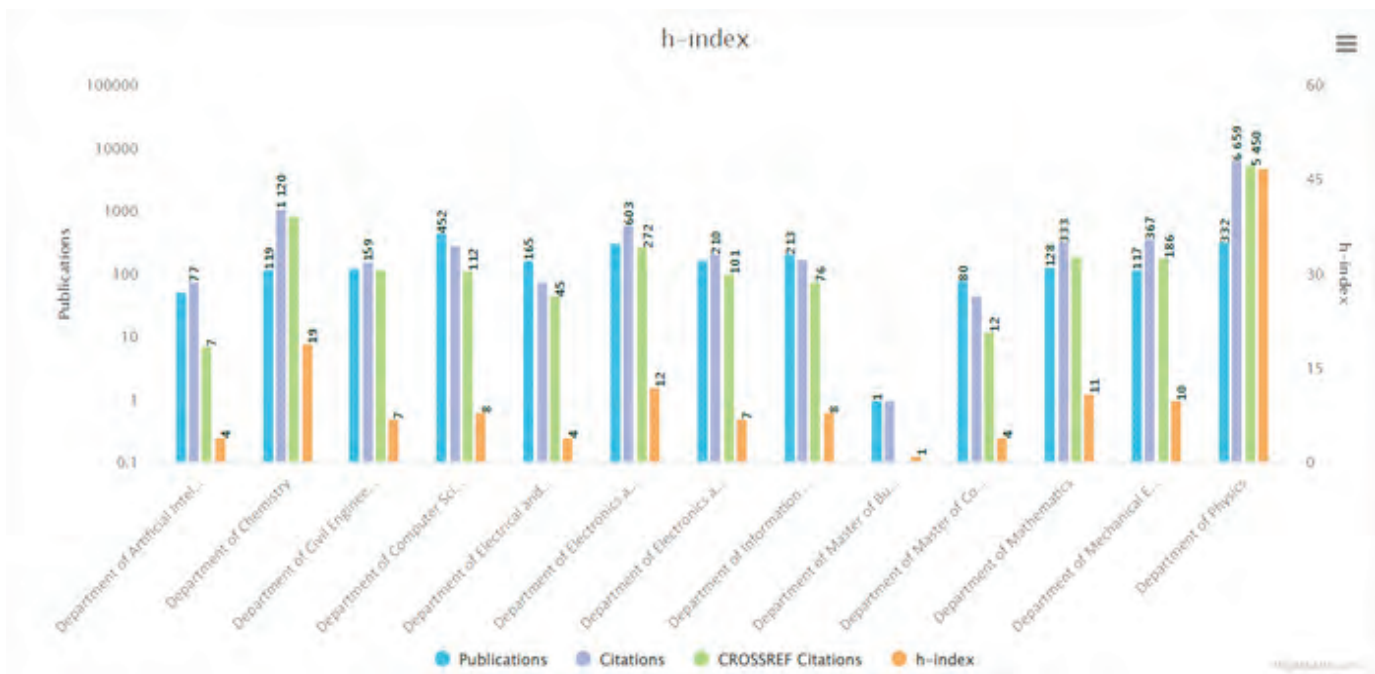
## Proctoring system and Counselling Report

**U**nder each proctor (assigned faculty) a maximum of 25 students are allocated. Proctoring of each Department is monitored by a team of deputy chief proctors and a chief proctor at the institutional level. Students who have behavioural issues, or personal issues can avail the guidance of professional counsellor Mrs. Chetana Srinivas. She visits campus on Tuesday and Friday from 1.30 pm to 4.30 pm. She provides counselling for 'Behavioural', 'Personal', and 'Academic' issues. Students having academic

deficits were guided by 'Study skills' and 'Time-Table management'. Six students received academic guidance. Two students of CSE and ISE and non-teaching staff who had emotional disturbance due to family issues reported improvement after 'Hypnotherapy'. One parent sought guidance for her son of seventh semester ECE. To conclude, eight students, one non-teaching staff and one parent were counseled during the month of August-2023.

## Faculty publication information from IRINS site

IRINS is web-based Research Information Management (RIM) service developed by the Information and Library Network (INFLIBNET) Centre in collaboration with the Central University of Punjab. The portal facilitates the academic, R&D organizations and faculty members, and scientists to collect, curate, and showcase scholarly communication activities and provides an opportunity to create a scholarly network. BMSIT&M through IRINS brings the details of its faculty research and publications details for the month of August-2023.



**BMS**  
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