



BMS

INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Yelahanka, Bengaluru - 560064.



October 2020







Dharmaprakasha Rajakarya Prasakta
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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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COLLEGE NEWS LETTER

Memorandum of Understanding

MoU was signed between Indian TechKeys and BMSIT&M. As an initiative to this MOU an industry associated Lab was setup by Indian TechKeys at BMSIT&M campus for the benefits of students. The inauguration of this laboratory was done on 23.10.2020. Dr. Usha B A, Associate Professor, Dept. of CSE coordinated this initiative.



Faculty Awards

Dr. Bharathi Malakreddy and Dr. Santhi Natarajan of Al&ML department has received Best Paper Award for the paper titled Al_NAAV: An Al enabled Neurocognition Aware Autonomous Vehicles.

Faculty Recognitions

Dr. Sangamesh. B, Assistant professor, Department of Mechanical engineering was recognised for the valuable contribution towards promoting National Education Policy 2020 and creating awareness in building nation's knowledge and understanding about NEP that has been issued by Vidya Bharati, A non-profit NGO working in the education sector.

Board Of Examination

Dr. Ambika R, Professor and HoD, ECE is a BOE member for VTU, EC/TC board for the academic year 2020-21.

Faculty as Resource Person

Dr. Mala C S, Professor, Department of Electronics and Communication Engineering has extended her support as resource person on the occasion of Gandhi Jayanti on 02.10.2020 organized by City International School, Lucknow and gave a talk on "Awaken the Mahatma in us".

Reviewer for Journals / Conferences

Dr. K. M. Sathish Kumar, Professor and HoD, Department of Mechanical Engineering was a reviewer for International Journal of Automotive and Mechanical Engineering (IJAME).

Memorable Moments / Best practices

On the eve of completing first year of starting Department of Al&ML, our Honourable Chairman Mr. M. Madan Gopal, IAS (Retd.) and our Beloved Principal Dr. Mohan Babu G. N. dedicated the Department of Al&ML First Anniversary Video on 24.10.2020.



Student Achievements

Ms. Samruddi V Shetty, 7th Semester, Department of ISE, BMSIT won 1st RunnerUp in Beauty pageant **"VK NAVATHARE 2020",** Organised by Vijaya Karnataka (Times group) on 19.10.2020 in Bangalore.





Parents Teachers Meeting (PTM)

1. Parents-Teachers Meeting (PTM) for 3rd semester was conducted on 17.9.2020 at 11:30 AM through Google Meet (Online) by dept of Al&ML. Around 30 parents participated in the PTM. Parents were very happy about the class conduction, but they were worried about the labs conducting online. Lab Co-Ordinators made clear to parents that, they are taking videos personally in lab and showing to students live video and uploading it in the GCR. They are also told to use the laptop when showing the lab steps so that they can execute the experiments along with the faculty as well.



2. PTM Odd Semester 2020-21 (3rd, 5th and 7th Semester 'A', 'B' & 'C' Sections) was held by Dept of CSE. The meeting was scheduled on 17.10.2020 at 10:30 AM online via goggle meet, around 150 parents were present for the meeting along with the teachers.



 Department of ECE conducted PTM through online platform using goggle meet framework on 20.10.2020 and 21.10.2020 for 3rd, 5th and 7th semester student parents. HoD asked parents



about the students' health and also asked the suggestions for further improvement for the betterment of students and department. The parents were happy about the effective conduction of the online classes and appreciated the efforts of BMSITM and reported about the occasional connectivity issues.

 The Parents-Teachers Meeting for both III sem and V sem MCA was held on 17.10.2020 (Saturday) through Google Meet (Online mode).



5. Department of Mechanical Engineering conducted Parent- Teachers meeting online to the parents of 3rd, 5th and 7th semester students on 17.10.2020. HOD deliberated the conduction of online classes, assignment, quizzes conducted, proctor meeting etc. Parents were glad and appreciated the steps taken by the college for the wellbeing of the students during the lockdown period.



Workshop/Webinars/Expert Talks

 Department of AI&ML has organised International Webinar Series on Global Career Prospects Awareness Program for Artificial Intelligence and Machine Learning Aspects on 2nd October 2020. Participants from 2nd PU students, AI & ML students and several BMSIT&M faculties were present along with the guest speakers and faculties of AI & ML. Speakers



throw a light on AI and ML, why it must be studied and what all the upcoming of this area was also told to the participants. The speaker exposed and thrown a light on the importance, recent advancements R&D, core concepts, latest technologies, and its wider range of applications in different domains of Engineering.

Department of Chemistry of BMSIT&M organized the international webinar on "RASPD+: Machine Learning for Fast Protein-Ligand Binding Free Energy Prediction and its Applications to SARS-CoV-2 Targets". Around 200 participants from all over the country &



world attended the on-line event on 03.10.2020. Under the theme, current advancement in Machine Learning Techniques are discussed related to free energy prediction. It provided an on-line vibrant global platform to the research community for learning, exchanging ideas, sharing knowledge, networking with fellow colleagues and scientists from various premier institutes like IISc, IITs & IISERs. The resource person was Dr. Goutam Mukherjee, from Heidelberg Institute of Theoretical Studies (HITS), Heidelberg University, Germany.

 Department of CSE has conducted a hands-on workshop on "Playing with Python codes" on 27.10.2020 from 5 PM to 6 PM in association with CSI Speaker Sandeep Kumar. There were around 35 participants from BMSIT&M.



Department of CSE organized an expert talk/Online Webinar on the topic "Preparedness"



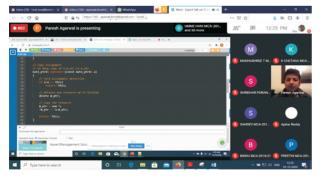
for Campus Placements" for the CSE students on 24.10.2020 from 10.a.m - 12.30 p.m by Mr. Sahil Verma, Software Development Engineer at TALLY SOLUTIONS., Alumni 2019 Batch. Coordinated by Prof. Shruthi J& Prof. Muneshwara MS.



5. Department of CSE organized an expert talk/Online Webinar on the topic "Aerial Humanoid Robotics" by Professor Daniele Pucci, head of the Dynamic Interaction Control (DIC) lab at the Istituto Italiano di Tecnologia (IIT). DIC Lab is pioneering Aerial Humanoid Robotics, a new branch of Robotics envisioning jet-powered flying humanoid robots during October 2020.

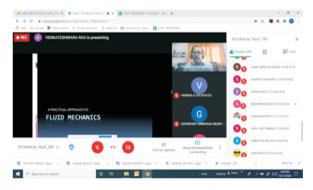


- 6. Department of CSE organized an expert talk/Online Webinar on the "Profile Building" for 3rd year students on 21.10.2020 by BIJU's Career Labs, Bengaluru. Coordinated by Dr. Usha B A, Associate Professor, Dept of CSE.
- 7. An expert talk was organized by the Department of MCA on 10.10.2020. Mr. Paresh Agarwal, Senior Manager Samsung Electronics Pvt. Ltd, interacted with the 3rd and 5th semester MCA students on the overview of C++ concepts.

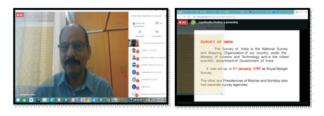


8. Department of civil engineering organized an expert talk on the topic "Real Time Case Studies on Pipe Hydraulics" "for 3rd Semester students on 15.10.2020. As civil engineers it becomes very necessary for the students to deal with fluids like water, waste water, gas, oil etc to design piping systems and even storage facilities. The talk

focussed on all the basis where a civil engineer could contribute using the knowledge of fluid mechanics and how understanding the mechanics of fluids will help in various designs and other requirements like selecting a pipe material, designing the network and piping system. An intro to EPA Net was also given to the students. The students were also made aware of the various opportunities in the field connected to water, waste water and the various software available in designing facilities for plumbing.



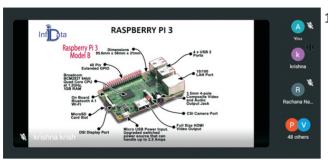
9. Department of Civil engineering organized an expert talk on the topic "Potential of conventional survey in map making" through Google meet for 3rd Semester students on 21.10.2020. There were about 38 students actively participated and learnt the concepts Basic survey tools, Data collection from Satellites and area coverage and overlapping etc. Further, overall, the training went well and received very good and positive response from the students.



10. The Department of ISE organized an expert talk on the topic "IOT Applications using Raspberry Pi " for 5th semester students on 22.10.2020 .The resource Person for the session was Mr. Krishna V, Design Engineer, Infidata

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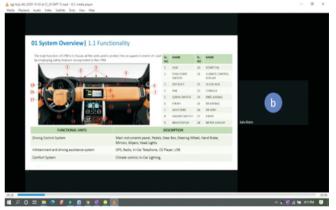
Technologies. Around 60 students participated in the talk. The session enlightened students about Raspberry Pi, its Applications, various Operating Systems on which Raspberry Pi runs. The demonstration of how to use ThingSpeak and Blynk with a case study to read temperature and humidity.

11. The Department of ISE organized an expert talk on the topic "Profile Building" for 5th semester students on 21.10.2020, 12.00 to 1.30 pm .The resource Person for the session was Mr. Abhishek Gupta and Mr. Hemanth from Byjus. Around 106 students participated in the talk. The session enlightened students about higher studies and how to build their profile.



12. The Department of ISE organized an expert talk on the topic "Patent Search" for 7th semester students on 20.10.2020, 11.00 to 12.30 pm .The resource Person for the session is Prof. Praveen Kumar T.N from Mechanical department , BMSIT&M. Around 30 students participated in the talk. The session enlightened students about importance of patent search and how to do patent search.

- 13. Prof. Keerthi Kumar. N Assistant professor, Department of Mechanical engineering organized webinar, the resource person was Mr. Nithin Ravi, Career Coach from Career Labs Bangalore, Powered by BYJU'S. The topic of the webinar was "Carrier Guidance and Profile Building" for V semester ME students on 19.10.2020 from 11:15am to 12:50 pm. 48 students from V Sem Mechanical Engineering Department have been attended the program.
- 14. Mr Bhala chandraKhare, alumnus of Mechanical Engineering Department of 2007 batch, has given a Technical talk on "Design Considerations for Dashboard/Cockpit module" for 7th, Semester ME on 3.10.2020.



Conference Conducted

National Conference on "Transforming Libraries: Smart Users, Smart Services and Smart Resources" was organised by the Library and Information Centre, BMSIT&M., between 10:00 am and 5:00 pm. on Saturday, the 10th Oct. 2020.

Keynote speech was delivered by Dr. Anand T Byrappa, Head, office of Data and JRD Tata Memorial Library, IISc., Bengaluru. There were totally 64 participants including paper presenters. 30 articles have been selected for publication in the conference proceedings.



Departmental Co-curricular Activities

OBE activity

Prof. M. Sridevi, Assistant Professor, Dept. of MCA conducted online quiz on 01.10.2020 for the students of 5th semester MCA on Machine Learning by using the Quizizz platform to make the activity more interesting by leader board scores and individual performance analysis after the event.

Club activity

SAE India BMSIT Collegiate club organized an online club activity on 29.10.2020 with Prof. Rajesh P, Department of Mechanical Engineering, BMS College of Engineering, Bengaluru delivering a talk on "Awareness about SAE India". There were 17 students and got the awareness about SAE India, its activities, SAE India student member benefits, scheduling an event and participation in the competition. The program was coordinated by Prof. Shripad Diwakar, Assistant professor, Department of Mechanical engineering on Google Meet platform. Dr. K M Sathish Kumar, HoD and Vice Principal, Dr. H K Govindaraju were present during the online activity.





Department Project presentations

SI no.	Department	No. of Batches	Date	No. of Students Participated	Description
1	CSE	68	27 & 28	234	Project Phase -I
			Oct. 2020		Presentation
2	ECE	55	27 & 28	205	Project Phase-I
			Oct. 2020		Presentation
3	ECE	86	16 & 17 Oct. 2020	324	PBL presentation
4	ISE	115	22, 23 & 27 Oct. 2020	416	PBL presentation

Classes handled by the department (from 01.10.2020 to 31.10.2020)

SI no.	Department	Semester	No. of Theory classes	No. of Practical classes
1	AI&ML	3	80	8
2	CSE	3,5,7	555	37
3	ECE	3,5,7	488	86
4	ISE	3,5,7	311	27
5	MCA	3 & 5	116	19

Publication of Research work

International Journal

- Dr. Santhi Natarajan, Dr. Bharathi M A presented paper titled "AI_NAAV: An AI enabled Neurocognition Aware Autonomous Vehicle "at the B-HTC IEEE International Conference held on 8-9 Oct 2020.
- Hamsavahini R, Assistant Professor, Department of Electronics and Communication Engineering published a paper titled "A review of resistor switching devices for memory and neuromorphic computing applications" in Journal of Seybold Report, ISSN: 1533 - 9211 ,Volume 15 , Issue 9 ,October 2020.
- Hamsavahini R, Rashmi N, Adhya Rao, Harshita V M, Department of Electronics and Communication Engineering published a paper entitled "Remote Sensing and Associated Payloads in Moon and Mars Space Missions: A Review" in Journal of Seybold Report, ISSN: 1533 - 9211 ,Volume 15, Issue 9, October 2020.
- K. Sikdar- Modelling and analysis of a discrete-time GIX/Geom/1/K queue with N threshold policy, International Journal of Mathematics in Operational Research, 2020, Vol 17 (3), pg. no. 301-317, ISSN-1757-5869 (Online), 1757-5850 (Print). DOI: 10.1504/IJMOR.2020.10024979
- Pushpa B V- Optimization of thermosolutal convection in vertical porous annulus with a circular baffle, journal Thermal Science and Engineering Progress, Vol20, 1st Dec 2020. ISSN 2451-9049. DOI: 10.1016/j.tsep.2020.100735-Elsevier.

International Conference

- Ambika R and Seema S, "Void Handling Routing Protocols in Underwater Wireless Sensor Networks: A Survey", International Conference on Multidisciplinary Technologies and Challenges in Industry 4.0, October 2020.
- 2. Dr. Rudresh D. Shirwaikar, Dinesh Acharya, Tanvi Parate, and Leslie Edward S Lewis, "Risk Stratification of Neonates using Machine Learning Techniques". 2020, IEEE International Conference on Distributed VLSI, Electrical Circuits, & robotics (Discover 2020), Oct 30-31,2020 (Scopus indexed / Web of Science).

- 3. Prof Swetha M S, "ExypnoSteganos A Smarter Approach to Stenography" in Sixth International Symposium on Intelligent Systems Technologies and Applications (ISTA'20), Oct 15-16, 2020 (Scopus indexed / Web of Science).
- 4. Dr. Karabi Sikdar presented a paper entitled "A Review on Analysis of Fuzzy Queueing System using DSW Algorithm" in the first International Conference on Renewable Energy and Green Technology (ICREGT-2020), organized by Department of EEE, SRM Institute of Science and Technology, Ghaziabad, Uttar Pradesh from 09.10.2020 to 10.10.2020.
- Mrs. Anitha Kiran and Dr. Karabi Sikdar presented a paper entitled "Drip irrigation modeling to fruit and vegetable crops using queueing theory" in the first International Conference on Renewable Energy and Green Technology (ICREGT-2020), organized by Department of EEE, SRM Institute of Science and Technology, Ghaziabad, Uttar Pradesh from 09.10.2020 to 10.10.2020.

Book Chapter

Dr. Pushpa B V published a book chapter entitled "Influence of thin baffle and magnetic field on buoyant convection in a vertical annulus" in the book Advances in Fluid Dynamics, Lecture Notes in Mechanical Engineering, Springer, Singapore, pp 105-119, 2020. ISBN 978-981-15-4308-1. DOI:10.1007/978-981-15-4308-1.

Consultancy Work

- Prof. Keerthi Kumar, Assistant professor, Department of Mechanical engineering Carried out consultancy work for M.Tech project on combustion, performance and emissions test using Computerized CI engine for the candidates: Guruprasad. S, M.Tech student from SSIT, Tumkur and Akshay Kumar Shetty, M.Tech Student from SSIT, Tumkur.
- Dr. Nandini R, Assistant professor, Department of mechanical engineering conducted executive development program for L&T Mumbai officials on Overview of ANSI / ASTM standards and Ingress Protection rating on 27 October 2020 from 9:30 AM -5:30 PM successfully.



Placement Activity

The placement season for the 2021 Batch commenced on 4th August 2020. As on 31.10.2020, totally 181 UG Students and 3 PG Students are placed with 200 pre-placement offers as detailed in the table below:

Slno.	COMPANY	CTC-LPA (Rs.)	TOTAL NO. OF OFFERS	NOTE		
1	ALTRAN	3,80,000	12	PLACEMENT		
2	CAPGEMINI	380000	104	PLACEMENT		
_	Grii Gziviirti	6,80,000	20.			
3	CLOUDERA	26,50,000	3	PLACEMENT/INTERNSHIP		
4	DELL	6,87,103	2	PLACEMENT		
5	ENDURANCE	15,00,000	3	PLACEMENT/INTERNSHIP		
6	EPSILON	5,00,000	10	PLACEMENT		
7	HEXAWARE	5,00,000	5	PLACEMENT		
8	INFOSYS	8,00,000	1	PLACEMENT		
9	KHOROS	10,53,000	4	PLACEMENT		
10	OFSS	6,55,781	8	PLACEMENT		
11	ONE ADVANCED	6,00,000	4	PLACEMENT		
12	PHARMEASY	11,00,000	1	PLACEMENT/INTERNSHIP		
13	PWC	7,00,000	16	PLACEMENT/INTERNSHIP		
14	SAP LABS	11,00,000	10	PLACEMENT/INTERNSHIP		
15	SIEMENS	5,00,000	5	PLACEMENT/INTERNSHIP		
16	SPIRENT	25,000 p.m	1	INTERNSHIP		
17	TCS NINJA	3,36,600	3	PLACEMENT		
18	THE MATH COMPANY	4,00,000	8	PLACEMENT		

Jnanavardhana

Teachers to be taught and trained'—is a relatively growing concept found in Societies all over the world, in the nineteenth and twentieth century. Also, Quality education is considered as backbone of the nation for countries whether they are under developed, developed or developing country at present. As part of share 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 a 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 are given in the table below:

SI. No	Name of the Presenter	Date	Time	Topic of Presentation
1	Dr. Arun Kumar B.R	7.10.2020	M	Block ChainSmart Contract
2	Dr. Bharathi M.A	14.10.2020	- 1:00PM	Artificial Intelligence & IoT: A COVID 19 Perspective
3	Dr. Chethan A.S	21.10.2020	Σ̈́	Science and Tradition
4	Dr. Dhananjaya N	28.10.2020	12:00PM	Fabrication of room temperature nano-perovskite induced highly sensitive, stable humidity sensors and its applications

Counselling Report

Two staff were counselled for interpersonal issues. Emotional support was offered to staff experiencing mild emotional disturbances due to 'Workrelated' stress. One staff had personal issues. For which guidance was provided.

One student of final semester received follow-up. Previously he had mild anxiety due to non-placement. He was offered educational guidance, advised to hone technical skills and his confidence boosted by understanding his assets. BMSIT&M boy's hostel staff around 30 were offered counselling. Safety measures were advised for staff performing and garden work. To conclude, 3 staff and 1 student were counselled and hostel visit was conducted.

Workshops / Seminars / FDPs attended

FDP /Workshops/STTP attended (faculty)

Department	FDP Attended
CHEM	2
CIV	1
CSE	1
ECE	1
ISE	1
MAT	9
MCA	3
PHY	4

Online Course completed (faculty)

Department	Online Course Completed
CHEM	4
CSE	1
ECE	1
MAT	3

Webinars Attended (faculty)

Department	Webinars Attended
CHEM	11
MAT	3
MECH	2

Online Course completed (Students)

- Sayan Chakraborty, Student, 5th semester, Department of ECE completed course on "Web Development" offered through IT-inCLoud on 15.10.2020.
- 2. Rahul M, Student, 5th semester Department of ECE completed course on "Data Science and Machine Learning" offered through The Sparks Foundation on 21.10.2020.
- 3. Sanket kundu, Student, 5th semester Department of ECE completed course on "Robotics" offered through Ekzen Robotics on 20.10.2020.

Webinars Attended (nonteaching staff)

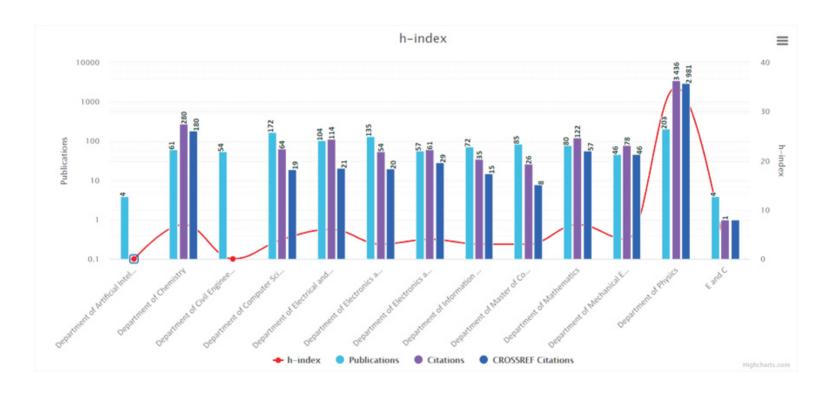
- Mr. L S Reddy, Lab Assistant, Department of Chemistry, has received certificate of achievement after successfully completing the assessment after participating in the webinar on the topic "RASPD+: Machine Learning for Fast Protein-Ligand Binding Free Energy Prediction and its Applications to SARS - CoV-2 Targets", organized by Department of Chemistry, BMS Institute of Technology & Management, Bengaluru, India on 03/10/2020.
- Mr. L S Reddy, Lab Assistant, Department of Chemistry, has received certificate of achievement after successfully completing the assessment after participating in the webinar on the topic "Experimental Data Analysis and Interpretations (Part-1): PXRD and SEM" conducted by Department of Physics, Sai Vidya Institute of Technology, Bengaluru held on 19/10/ 2020.
- Mr. L S Reddy, Lab Assistant, Department of Chemistry, has received certificate of achievement after successfully completing the assessment after participating in the webinar on the topic "Importance and need of Universal Human values in education system" conducted by Department of Chemistry, Sai Vidya Institute of Technology, Bengaluru held on 21/10/2020.
- 4. Mrs. Tejaswini S, Lab Assistant, Department of Chemistry, has received certificate of achievement after successfully completing the assessment after participating in the webinar on the topic "RASPD+: Machine Learning for Fast Protein-Ligand Binding Free Energy Prediction and its Applications to SARS - CoV-2 Targets", organized by Department of Chemistry, BMS Institute of Technology & Management, Bengaluru, India on 03/10/2020.





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 organisations and faculty members, scientists to collect, curate and showcase the scholarly communication activities and provide an opportunity to create the scholarly network. BMSIT&M through IRINS brings the details of its faculty research and publications details for the month of October-2020.





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