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## INSTITUTE OF TECHNOLOGY AND MANAGEMENT

Avalahalli, Doddaballapur Main Road, Bengaluru - 560064

### MONTHLY NEWSLETTER

MARCH - 2020

Date: 10/04/2020

#### Recognitions

BMS Institute of Technology and Management has established a State-of-the-art Centre of Excellence in collaboration with M/s. Toyota Kirloskar Motor Pvt. Ltd., Bengaluru. This spacious Centre consists of automobile chassis, engine and transmission systems capable of demonstrating the functioning of the various parts. The Centre has several other equipments totalling a value of over Rs.50 lakhs. The specially prepared cut section of the engine and other parts facilitates the students to view and learn the functioning of the various components housed inside. Besides, a separate automobile engine has been provided for a hands-on experience of dismantling and assembling the entire engine.

The Centre of Excellence was inaugurated by Dr. B S Ragini Narayan, Chairperson, BMS Educational Trust and Sri M. Madan Gopal, IAS (Retd), Chairman, BOG, BMSIT&M and Sri. Aviram Sharma, Trustee, BMS Educational Trust on 03.03.2020. An advanced CNC Machine Lab aimed at empowering the students to be industry ready with desired skill sets was also inaugurated on the same day.



Fig 1: Inauguration by the chief Guest Dr. B S Ragini Narayan



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### Session Chair

- Dr. Sunanda Dixit, Associate Professor, CSE Department was session chair for Second International Conference on Innovative Mechanisms for Industry Applications (ICIMIA 2020) at Dayananda Sagar College of Engineering, Bangalore on 5<sup>th</sup> March 2020.
- Dr. Mala. C. S, Professor, ECE Department was key note speaker for Two days' workshop on "8051 Microcontroller & its applications" at M S Engineering College on 11<sup>th</sup> March 2020.
- Dr. Mala. C. S, Professor, ECE Department delivered an expert talk on "Gender equality and critical role of women in society" at Happy Childhood Preschool, Sahakaranagar, Bangalore on 10<sup>th</sup> March 2020.
- Dr. C. Kavitha invited as organizing committee member and editorial member for the journal of international conference on material science exhibition and engineering will be conducted at Seoul, South Korea. June 2020.

### Faculty as Resource Person

- Dr. Vishwa Kiran, Assistant Professor, Department of AIML, was a resource person for L&T Mysore on OS & RTOS from 6<sup>th</sup> March to 14<sup>th</sup> March 2020 (7 Days).
- Dr. Vishwa Kiran, Assistant Professor, Department of AIML, was a resource person for Volvo Bangalore on the topic: C++ on 16<sup>th</sup> March 2020.

### Out Reach Activity

- Prof. Chethana C, Asst. Prof, CSE has extended their support for watering to the plants on 15<sup>th</sup> March 2020 at Meleketignur, Nelamangala.



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Fig 2: Prof. Chethana C, Asst. Prof, CSE for watering plants

### **Reviewer for Journal / Conference**

- Dr. Sunanda Dixit, Associate Professor, CSE Department was a reviewer for IEEE Access Journal during March 2020.
- Dr. Vijayalakshmi G V, Associate Professor, ECE Department was a reviewer for Journal of Experimental & Theoretical Artificial Intelligence (SCI indexed)- Taylor & Francis and reviewed the manuscript, entitled "Real-Time Bird's Eye Surround View System: An Embedded Perspective".
- Dr. C. Kavitha continuously Reviewing American Chemical Society (ACS) and Royal Society Chemistry (RSC) Publications in the Month of March 2020.
- Dr. Daruka Prasad B reviewed the paper entitled – “A reversibly vapor-responsive fluorochromic molecular platform based on the coupling of AIE and ESIPT mechanisms and its applications in anti-counterfeiting” (DYPI\_2019\_2927) on 9<sup>th</sup> March 2020. Journal: Dyes and Pigments,(I.F. 4.02).
- Dr. Daruka Prasad B reviewed the paper entitled “Evaluation of structural, spectral characterization and in vitro cytotoxic activity studies of some polycyclic aromatic compounds” (ARABJC-D-20-00033R1) on 22<sup>nd</sup> March 2020 Journal:- Arabian Journal of Chemistry.

### **Memorable Moments / Best practices**

- India Bangalore Nano 2020 is for students aimed at solving social causes; cash prize, mentorship and funding opportunities for top two ideas. The conference, which was attended by 750 delegates, had 40 speakers deliberated across 15 sessions witnessed thought provoking



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talks by eminent scientists and professors on various aspects of nanotechnology and nano sciences including agriculture, medicine, manufacturing, pollution and food processing.



Fig 3: Students and staff attending Bangalore India Nano conference

- Dr. Kavitha and Dr. Daruka Prasad B attended 11<sup>th</sup> Bangalore India Nano conference, held at Lalith Ashoka hotel, 2-3 March 2020, nearly 68 BMSIT&M students have attended NANO FOR THE YOUNG Program.



Fig 4: India Bangalore Nano 2020 in Bangalore on 2<sup>nd</sup> to 4<sup>th</sup> March, 2020



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- NMR Centre conducted a one day workshop on December 2, 2019. This was an academia-industry interaction, jointly with JEOL India, which was to motivate and promote research among young research scholars, practicing young NMR spectroscopists, both from academia and industry. Dr. Kavitha participated in this workshop.



Fig 5: Dr. Kavitha participating in this workshop

### **Industry – Institute Interaction**

1. As a part of innovative teaching methodology , students of 6th semester (2017 Batch) were exposed to site conditions With respect Course Title “HIGHWAY ENGINEERING and CONSTRUCTION MANAGEMENT AND ENTREPRENEURSHIP”, Course Code 17CV63, 17CV61 on 11-3-2020 under the guidance of Prof. Vinod B R and Prof. Shobha R Assistant Professor, Department of Civil Engineering, BMSIT&M. Learnt concepts about New road alignment in mountain terrain and Material management at Kailasagiri cave temple Kaivara, Chickballapur district of Karnataka state .



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Fig 6: Industrial visit organised by Dept of Civil Engineering

2. An industrial visit was arranged by the Department of ECE for 6th semester at Mahatma Gandhi Institute of Rural Energy & Development (MGIRED), Bangalore on 9th March 2020. Dr. Dankan Gowda V and Prof. Asha G Hagargund accompanied 58 students.



Fig 7: Industrial visit to Gandhi Institute of Rural Energy & Development



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2. An industrial visit was arranged by the Department of ECE for 4th semester at ALS Electronics Ltd, Bangalore on 7th March 2020. Dr. Ambika R and Prof. Ravindra V Asundi accompanied 35 students.



Fig 8: Industrial visit to ALS Electronics Ltd..e

### Expert talk organized

1. An expert talk was organised for the 4<sup>th</sup> Semester CSE students on 7<sup>th</sup> March, 2020. The invited speaker was **Mr. Ullas V.B**, Applied R&D Engineer, Nokia Pvt. Ltd. Bengaluru, India. **Mr. Ullas V.B**, with his benign presence made students aware of various aspects of Machine Learning, its real world applications, and how, Machine Learning has made our lives simpler, in different ways.



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Fig 9: Expert talk by Mr. Ullas at department of CSE

2. An expert talk was organised for the 8<sup>th</sup> Semester EEE students on 07<sup>th</sup> March, 2020. The invited speaker was Mr. Lokesh T S, Deputy Manager, Schneider Electric, Bengaluru. The speaker gave a very useful practical insight in to the Home Automation and Protection. About 40 students from 8<sup>th</sup> semester attended this session.



Fig 10: Expert talk by Mr. Lokesh T S, Deputy Manager, Schneider Electric





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- The department of ETE organized the expert talk on Role of a project manager on 2<sup>nd</sup> March 2020, the session started at 09:30 AM in ETE CR 405, 4<sup>th</sup> Floor, Mr. Kevin Mathews was welcomed by faculty in-charge of the department of ETE. He began his teachings with a close insight on the role of a project manager, and went on to give more explanation with good examples.

The session headed by Mr Kevin, the alumni of BMSITM was a fun filled pack of knowledge and information. Students rose up with number of questions of their interest which was followed by reasonable answers Students asked several questions related to placement opportunities and augmented reality (the field of his project), which were answered patiently and much wisely by him. Finally the session ended by appreciating the alumna and felicitated by presenting a token of appreciation by HOD, ETE.



Fig 11: Mr Kevin delivering expert talk on Role of a project manager

- Dr. Annamma Abraham and Dr. Annapoorna M S organized an expert talk on “Experiential learning using free software and open hardware for smart applications” by Dr. Renuka Prasad B, Associate Professor, Department of Master of Computer applications, RVCE, Bengaluru for the students of II semester CSE A and C section on 5<sup>th</sup> March, 2020.

### Departmental Co-curricular Activities

#### **OBE activity**

- Prof. Shivarudraiah .B conducted an on line quiz activity in the course VLSI Design on 23/03/2020 for 6<sup>th</sup> semester C section students.



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2. Prof. Chethana .C of CSE department Conducted Group Discussion activity for the sixth semester b and c section. The students were given with the following data. Input string or binary data of 32 bits. Two permutation table of 40 bits and 32 bits as input. The students were allowed to discuss among their friends to find the solution. Then they were asked to generate the output bit String of 40 bits and 30 bits respectively. The activity was done to make students to understand in depth of working model of DES permutation box concept. Randomly the students were called to write the calculations on the board during March 2020.



Fig 12: Mrs Chethana C of CSE department Conducted Group Discussion activity for 6<sup>th</sup> sem

### **Collaborative Learning:**

Dr. Pushpa S. K, Professor, Dept. Of ISE conducted collaborative learning for II Sem E Section students on 2-3-2020, for the subject Problem Solving Using C.



Fig 13: Dr. Pushpa S K conducted a collaborative learning



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- Prof Swetha M S, Assistant Professor, Dept. of ISE conducted collaborative learning for II Sem ‘F’ Section students on 2-3-2020, for the subject Problem Solving Using C.



Fig 14: Prof. Swetha M S conducted a Collaborative Learning

**Blended Learning Class:**

- Prof. Gireesh Babu C N, Dept of ISE, conducted Blended Learning for the subject “Data Communication” with subject code 18CS46” on 07th March 2020, 40 students attended the class.



Fig 15: Prof. Gireesh Babu C N conducted blended learning

- Prof S Mahalakshmi, Dept. Of ISE conducted collaborative learning for 4<sup>th</sup> semester ‘B’ Section students on 12<sup>th</sup> March 2020, for the subject Operating System.



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Fig 16: Prof. S. Mahalakshmi conducting a collaborative learning

**Coding Club Activity:**

Prof. Bhavya G , Dep. Of ISE conducted Codethon a coding event conducted under Coding Club on 6<sup>th</sup> March 2020 from 2.00pm to 4.00pm.



Fig 17: Codethon event conducted on 6<sup>th</sup> march 2020.

**Publication of Research Papers by the Faculty Members, BMSIT&M**



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### International Journal:

- Prof. Muneshwara M S, “ Hybrid Techniques for Object Detection using Deep Learning “, International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-6, March 2020. Page No.: 1959-1963., a Scopus indexed journal, The Value of Citation (VoC) IJRTE is 6.04 for the year 2019. Retrieval Number: F8165038620/2020©BEIESP, DOI:10.35940/ijrte.F8165.038620.
- Prof. Muneshwara M S, Automation of Trainee Life Cycle in the Corporate World “ , International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-6, March 2020. Page No.: 3864-3869., a Scopus indexed journal, The Value of Citation (VoC) IJRTE is 6.04 for the year 2019. Retrieval Number: F9439038620/2020©BEIESP, DOI:10.35940/ijrte.F9439.038620.
- Prof Shruthi.J, A Prior Case Study of Natural Language Processing on Different Domain , International Journal of Electrical and Computer Engineering (IJECE), a Scopus indexed journal, SNIP: 1.144; SJR: 0.368; CiteScore: 1.63; SJR & CiteScore Q2 on both of the (Electrical & Electronics Engineering) and (Computer Science).
- C P Mallikarjuna Gowda, Raju Hajare, Shubha V Jois, Pavana, Srinivas M "Design and Development of Internet of Things Based Smart Ration Dispensing System", International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Volume-9 Issue-3, February 2020.
- Seema Singh et al, "Performance Comparison of Conventional Neural Networks and Deep Learning Network For Cervical Cancer Diagnosis", TEST Engineering & Management, Vol 82 (1), 2020, pp 5469 – 5477.
- Banuprakash R , Hariprasad S A have published a research paper titled “Dual Band Compact Hexagonal Microstrip Antenna with Quadrangular Slot and I Shaped DGS” in International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8, Issue-6, March 2020, pp 4937-4941 : DOI:10.35940/ijrte.F1107.038620, *Scopus Indexed*.
- Prof Swetha M S, Published paper “Hybrid Techniques for Object Detection using Deep Learning”, in International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878 (Online),



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Volume-8 Issue-6, March 2020. Page No.: 1959-1963. DOI:10.35940/ijrte.F8165.038620 (Scopus Indexed Journal).

- Prof. Manjunath T N, Published paper titled “Variants of term frequency and inverse document frequency of vector space model for effective document ranking in information retrieval”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278–3075 (Online), Volume-8 Issue-7, May 2019, Page No.:414-421 and included in Scopus database on March 16th 2020 ( Scopus Indexed).
- Prof. Gireesh Babu C N et.al, Published a paper titled “Autobot: Leveraging Cloud Service to enable IOT Connected Robotic Automaton”, in IEEE digital library with DOI:10.1109/iCATccT44854.2018.9001909 (Scopus Indexed).
- Shivakumara T, Muneshwara M S, Rajshekhar M Patil, Nirupama B K , Chethan A S, “Automation of Trainee Life Cycle in the Corporate World” , International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume-8, Issue-6, March 2020.

### International Conference:

- Dr. Sureshkumar K and Dr. Ramakrishnappa T attended an International conference “India Bangalore Nano 2020” in Bangalore on 2<sup>nd</sup> to 4<sup>th</sup> March, 2020.
- Department of Chemistry and Physics together arranged permission for the participation of 60 students from first year. All 60 students participated in that Nano conference.
- Dr. Suresh Kumar K presented a poster on the topic “Ag doped TiO<sub>2</sub> nanocomposite modified glassy carbon electrode as electrochemical interface for catechol sensing”.
- Dr. Ramakrishnappa presented a poster on the topic “Ag doped TiO<sub>2</sub> nanocomposite modified glassy carbon electrode as electrochemical interface for catechol sensing”.
- Prof. Manjunath T N, published paper titled “STAVI : Smart Travelling Application for the Visually Impaired”, Proceedings of the 4th International Conference on Communication and Electronics Systems (ICES), 17-19 July 2019, DOI: 10.1109/ICES45898.2019.9002238 and Included in scopus database on 20th March 2020 ( Scopus Indexed).



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- Prof. Swetha M S published paper “Spam Email and Malware Elimination employing various Classification Techniques” in IEEE Xplore and Scopus database on 02 March 2020, pp 140- 145 with Electronic ISBN: 978-1-7281-0630-4 and Print on Demand(PoD) ISBN: 978-1-7281-0631-1, DOI: 10.1109/RTEICT46194.2019.9016964.

### **Book Chapter:**

1. Prof. Ravindra V Asundi and Prof. Suryakanth B authored a book chapter titled “Effect of Mobile app on e-commerce” and accepted by Utkal publishers for publication.
2. Singh, Seema, et al. "Neural network based automated system for diagnosis of cervical cancer." Chapter 80, Deep Learning and Neural Networks: Concepts, Methodologies, Tools, and Applications, IGI Global, 2020. 1422-1436.

### **Placement Activities at BMSIT&M**

- Department of ETE organized Placement activity as Placement talk from 8<sup>th</sup> sem students to 6<sup>th</sup> sem and 4<sup>th</sup> sem students on 6<sup>th</sup> March 2020 at 2:30 pm . Mrs. Sumathi started with the introduction of the students and gave a brief on the how the talk will proceed. Raghav, Placement coordinator of 8<sup>th</sup> sem Mr Raghav, Ms Neha, Gagana and Ms. Kritika started the talk by sharing the experience of his journey as the placement coordinator. Then they gave a glimpse of his placement hiring process and necessities of placement.



Fig 18: Mr Raghav, Ms Neha and Ms Krithika delivering talk on Placement and its necessities

- From the department of ISE, two student were placed in Pyrox-i-city, the details are given in the Table-1.



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Table 1: Placement statistics of ISE department

SI No.	USN	NAME	OFFER 1	Package
1	1BY17IS403	KEERTHYRAJU C	Pyrox-i-city	3,50,000 LPA
2	1BY17IS405	PRADEEP S	Pyrox-i-city	3,50,000 LPA

- A 10-day Placement Training was conducted exclusively for the students of Department of MCA by M/s. Dlithe, Bengaluru, from 24th Feb to 7<sup>th</sup> March, 2020.



Fig 19: Participants of the placement training

### Online Course completed:

- Dr. Annamma Abraham has completed the online course “Complete Python Bootcamp: Go from zero to hero in Python 3” on March 22, 2020.
- **Dr. Aparna K**, Associate Professor & Head of the Department, Department of MCA, has completed and qualified in the online course “**Data Analytics using R Programming**” of 69 hours duration conducted by Udemy in March 2020.

### Articles Published:

- **Dr. P Ganesh**, Associate Professor, and **Dr. Aparna K**, Associate Professor & HoD, Department of MCA, have jointly published an article titled “**Big Data Analytics for Agriculture – Scope and**





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Future” in the **CSI Communications Magazine issue of March 2020**. The article can be viewed at <http://www.csi-india.org/Communications/March%202020%20for%20Web.pdf>

### Alumni Interaction:

Alumni interaction with students was held on 7<sup>th</sup> March 2020 by the department of MCA. Amidst were alumni, Ms. Deepa, Mr. Vinayaka Murthy and Mr. Natesh Rao, of 2016-19 batch. They interacted with 2<sup>nd</sup> Sem MCA students and shared their experiences in the industry and gave valuable inputs to face interviews. Mr. Vinayaka Murthy is working in M/s. Philips, Bengaluru. Ms. Deepa is working as Applied R&D Engineer at Nokia, Bengaluru. All the three shared their experiences in their current domain and motivated students to concentrate on academics and placements.



Fig 20: Alumni interacting with students

### Jnanavardhana

- Dr Rajesh Gopinath has presented on "**BIOMIMICRY TO BIOREMEDIATION - PHASE I**" on 16<sup>th</sup> March 2020, wrt the Dept. Gyanvardhana presentation. During his talk, he has briefed upon basics and relevance of Biomimicry, its connection to Bioremediation and Avenues for Research with respect to real time sustainability problems in society.



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Fig 21: Dr Rajesh Gopinath presenting Gyanvardhana talk.



Fig 22: Dr Chandrashekarappa Agsnalli presenting Gyanvardhana talk.

- Dr Chandrashekarappa Agsnalli has presented on “**Gold Mineralisation - PHASE I**”, on 16th March 2020, wrt the Dept. Gyanvardhana presentation.

#### **Student Achievements:**

- Rohit Kumar Ojha of 2<sup>nd</sup> sem ISE along with Adarsh Vatsa of 6<sup>th</sup> Sem, students of BMSIT QUIZ CLUB won 1<sup>st</sup> place in TCS Tech Bytes-Regional round held at Siddaganga Institute of Technology, Tumkur on 5<sup>th</sup> March 2020.



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Fig 23: Students Won 1<sup>st</sup> place in TCS Tech Bytes-Regional Quiz

- Rohit Kumar Ojha of 2<sup>nd</sup> sem ISE along with Adarsh Vatsa of 6<sup>th</sup> Sem CSE, students of BMSIT QUIZ CLUB won 2<sup>nd</sup> place in TCS Tech Bytes-State level held at SJBIT, Bengaluru on 11<sup>th</sup> March 2020.



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Fig 24: Students Won 2<sup>nd</sup> place in TCS Tech Bytes-State level Quiz