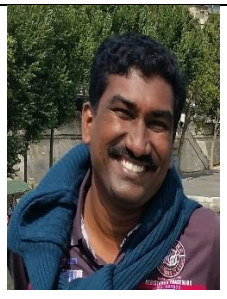
BMS
INSTITUTE OF TECHNOLOGY AND MANAGEMENT

AVALAHALLI, DODDABALLAPUR MAIN ROAD, BENGALURU – 560064

DEPARTMENT OF PHYSICS

Event Name	Online Five Days Faculty Development Programme
Topic	Recent Advances in Smart materials for sensors and energy applications
Date	6th – 10th July 2020
Highlights of the event	Distinguished scientists and academicians from premier institutions have given invited talks.
Number of Participants benefited with this	240 participants
Day wise session details	
DAY – 1 **06.07.2020**	**Keynote Speaker:** 10.00 – 11.30 am Dr. Eswaramoorthy MuthuSamy Dean, Prof. in School of Mechanical Engineering, Shri Mata Vasihno Devi University, Katra Topic: Advances in Micro Scale Solar Thermoelectric Power Generator 
	Session – 2 (2.00 – 3.30pm) Dr. Manjunath K Asst. Professor, Department of Mechanical Engineering, Delhi Technological University, New Delhi Topic: Potential materials for energy saving and heat exchangers 
DAY – 2 **07.07.2020**	Session – 1 (10.00 – 11.30 am) Mr. Arvind Ramalingam Chief Technological Officer, FTD Solutions Pte Ltd, Singapore Topic: Energy harvester – Industrial MEMS 

	Session – 2 (2.00 – 3.30pm) Dr. Ashok Kumar Associate Professor, Department of Applied Sciences, National Institute of Technical Training and Research, Chandigarh Topic: Photovoltaics and other energy	 Teachers devices
DAY - 3 08.07.2020	Session – 1 (10.00 – 11.30am) Dr. Dhananjaya N Associate Professor & Department of Physics. BMS Institute of Technology and Management, Bengaluru Topic: Fabrications of perovskite thin films sensing applications	 Head, for gas
	Session – 2 (2.00 – 3.30pm) Dr. Pankaj Sharma Prof. & Head, Department of Applied Sciences, National Institute of Technical Teachers Training and Research Chandigarh Topic: Chalcogenide thin films and applications	
DAY – 4 **09.07.2020**	Session – 1 (10.00 – 11.30am) Dr. Mahesh B Associate Professor, Department of Chemistry JSS Academic of Technical Education , Bengaluru Topic: Synthetic peptide based non-woven for biomedical applications	 fabrics
	Session – 2 (2.00 – 3.30pm) Dr. Daruka Prasad B Assistant Professor, Department of Physics Institute of Technology and Management, Bengaluru Topic: Nano electronics devises and its applications	 BMS
DAY – 5 **10.07.2020**	Session – 1 (10.00 – 11.30am) Dr. C Kavitha Assistant Professor, Department of Physics, BMS Institute of Technology and Management, Bengaluru Topic: Carbon based hybrid nano thin films for bio/chemical sensors	

Session – 2 (2.00 – 3.30pm)

Dr. R Lokesh
Associate Professor, Department of Physics, BMS Institute of Technology and Management, Bengaluru

Topic: Amorphous chalcogenide glasses for phase change memory applications

About Institute

Institute 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.

Institute mission

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

BMSIT&M, an institution with a class of its own for high quality engineering education in the state. It is a well-established private engineering college in Bangalore recognized by the AICTE, Government of India and is affiliated to the Visvesvaraya Technological University (VTU), Belagavi. With its modern infrastructure, highly qualified and committed faculty, and active industry engagement, the institute has been recognized as an "Emerging Technical Institute in the state of Karnataka" by the VTU. AICTE has given a zero-deficiency report for the institute. BMSIT&M presently offers eight undergraduate courses and three master's degree programs among them Artificial intelligence and machine learning UG program is started by first private engineering college in India under AICTE. Most of the departments are recognized as research centers by VTU and making BMSIT&M as one of the most promising research houses in the country. BMSIT&M has been awarded 'A' Grade by NAAC and NBA accredited for six engineering programs. BMSIT is very active in promoting Industry–Institute Interactions. The institute supports the students for their overall development as professionals through both curricular and co-curricular activities. The institute is practicing informal learning programs popularly known as outcomes based education (OBE).

FIVE DAYS

Faculty Development Program (FDP)

On

Recent Advances in Smart Materials for Sensors and Energy Applications

Date: 06 - 10, July, 2020

Organized by

Department of Physics
B M S Institute of Technology & Management
Doddaballapur Main Road, Avalahalli, Yelahanka, Bengaluru– 560 064, Karnataka.

Contact: Mrs. Ashwini K R & Dr. Basavaraj R B

Mobile No.: 9844529596, 9916475750
Email: ashwinikr@bmsit.in
basavarajrb@bmsit.in

Chief Patron

Dr. B. S. Ragini Narayan
Donor Trustee & Member Secretary, BMSET

Dr. P. Dayananda Pai
Trustee, BMSET & Chairman, BOG, BMSIT&M and BMSCE

Mr. M. Madan Gopal, IAS (Retd.)
Trustee, BMSET, Chairman, BOG, BMSCL

Mr. Aviram Sharma
Trustee, BMSET

Dr. Manjula N. IAS
Trustee, BMSET, Commissioner, Department of Collegiate Education, GOK.

Chairman

Dr. Mohan Babu G N
Principal, BMSIT&M

Convener

Dr. Dhananjaya N
Associate Prof. & HoD, Department of Physics, BMSIT&M

Coordinators

Mrs. Ashwini K R &
Dr. Basavaraj R B

Organizing Committee

Dr. Lokesh R	Associate Professor
Mrs. Yashaswini	Assistant professor
Dr. Daruka Prasad B	Assistant professor
Dr. Kavitha C	Assistant professor

About the Department

Department Vision

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

Department 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.

Facilities available at R & D Centre

§ Raman spectrometer
§ Fourier transform infrared spectrometer
§ UV visible spectrometer
§ Hall effect setup –Research Mode
§ Solar Simulator-LED based
§ Ultra speed centrifuge
§ High temperature furnaces
§ Pelletizer
§ Autoclave
§ magnetic stirrer
§ Hot air oven
§ Photo catalytic unit

Theme of the FDP

Fruitful presentations by the subject experts in the field of **"Recent Advances in Smart Materials for Sensors and Energy Applications"**. In recent years Smart Materials have found potential applications in sensors, energy storage, health, aerospace, automotive industries etc. Where smart materials capable of sensing stimuli, responding to it and reverting to its original state after stimuli is removed. Several materials like LiTraCon, Silicene, Aerogels, Graphene, Fullerene, Metamaterials and Lithium Ion Batteries have been emerging in the current scenario.

About the FDP:

This programme is being organized to bring all faculties, research scholars and experts in this field to a common platform for a lively and useful interaction. An effort is made to provide latest development and useful information in various areas of materials to teachers and students interested in application of physics.

Topics planned to cover

- Nanomaterials based sensors
- Electrochemical sensing and corrosion prevention
- Thermoelectric materials
- Display devices
- Thin films
- Peptide based biosensors

Registration

- No registration fee for the FDP
- Link for registration:

https://docs.google.com/forms/d/e/1FAIpQLSd25udZ2Ozu28lFchD1l6l8lbL_EFeChTnqQQlHoug25Bn8jA/viewform?vc=0&c=0&w=1

Important date

Last date for Registration: 03/07/2020.

Resource Persons

- Dr. Eshwar Murthy Muthu Samy, Dean, Prof. in School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra
- Dr. Pankaj Sharma, Prof. & Head Applied Science Dept. National Institute of Technical Teachers Training and Research Chandigarh
- Dr. Kumar Swamy, Dept. of Applied Chemistry, SJCE: JSS University Mysore
- Dr. Mahesh, Dept. of Chemistry, JSSATE, Bangalore
- Dr. Manjunath R K, Dept. of Mechnical Engineering, DTU, Delhi
- Dr. Ashok Kumar, Associate Professor, Applied Sciences, National Institute of Technical Teachers Training and Research Chandigarh
- Mr. Arvind Ramalingam, Chief Technological Officer, FDT Solutions Pte Ltd Singapore

General Instructions

- Total number of talks: 10 (2 talks per day)
- Session Time: 10.00 a.m. to 11.30 a.m. & 2.00 Noon to 3.30 p.m.
- Number of Participants is limited to 300.
- The selected participants will be intimated by email along with the "Google Meet" link for attending the sessions.
- E-Certificates will be provided for those who attend all the sessions.