



BMSIT&M **nirf**
National Institutional Ranking Framework
Department of Higher Education
Ministry of Human Resource Development
Government of India

BMSIT&M is ranked in the range (95-160) from 2017-2020, Among the Engineering Institutions in the country which includes IITs / NITs / IIITs etc. by National Institutional Ranking Framework (NIRF)-MHRD, Govt. of India.



BMSIT&M is awarded platinum grade in AICTE-CII Industry Linked Institute survey



NBA NATIONAL BOARD OF ACCREDITATION
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ज्ञान-विज्ञान विमुक्तये
Approved by UGC under section 2(F) and 12(B)

BMSIT&M IS AWARDED A

BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT
Avalahalli, Doddaballapur Main Road,
Yelahanka, Bengaluru – 560 064

Phone: 080- 28561576 / 28567187
Website: www.bmsit.ac.in



Vision of the Institute

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 society.

Mission of the Institute

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

AICTE TRAINING AND LEARNING (ATAL) ACADEMY

Sponsored 5 days Online
Faculty Development Program On
“Green Communication”

24th to 28th August, 2021

Organized by Department of
Electronics & Telecommunication Engineering
BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT
BENGALURU-560 064.

Registration link:
<https://www.aicte-india.org/atal>

About the Institute:

BMS Institute of Technology and Management was established in the year 2002 under the auspices of BMS Educational trust with the vision of establishing a premier technical institute on par with international standards, situated on Doddaballapura road in a serene and spacious campus covering about 21 acres. It is recognized by the AICTE, Government of India and is affiliated to the Visvesvaraya Technological University (VTU), Belagavi, and Karnataka, India. BMSIT&M offers eight UG, three PG programmes and Ph.D/M.Sc (Engg) in all disciplines. BMSIT&M is one of the member institutions under Melton Foundation. Melton Foundation promotes cross-cultural exchange programs among five nations namely, India, USA, Germany, China, and Chile.



About the Department.

The Department of Electronics and Telecommunication Engineering was established in the year 2003. Department has well qualified, experienced and dedicated faculty with 4 doctorates and 50% of them are on the verge of completion of Ph.D. Well-equipped sophisticated laboratories with skilled technical staff are the strength of the department which helps the students in strengthening their theoretical knowledge by hands-on practical sessions. Department practices OBE in every course to attain course outcomes. Because of good practices and strong students support system in place, helped the department to get 20 University ranks from its inception. Department has active research center since 2016. Our students are enhancing their learning skills by adopting Project Based Learning (PBL) in every semester. Department has very strong alumni network through which students are benefitted. Placement through the campus is excellent.

Vision of the Department

Emerge as a premier department developing high quality Electronics and Telecommunication Engineering professionals with ethics and eco friendliness for the betterment of the society.

Mission of the Department

Impart quality education in Electronics and Telecommunication Engineering by facilitating conductive learning environment, research activities, good communication skills, leadership qualities, ethics and strong industry-institute interaction.

About ATAL:

The objectives of ATAL are to plan and help in imparting quality technical education in the country and to support technical institutions in fostering research, innovation and entrepreneurship through training in various emerging areas.

About the FDP:

This online FDP aims to bring together innovative academics, researchers and industrial experts in the field of green communication, energy efficiency enhancement technologies. Energy efficient cellular networks are gaining importance due to the severity of the CO₂ levels in air, harming the environment and global weather. The increasing energy consumption of mobile networks increases the operator costs as well. The ecological concerns, and economic issues have led to the evolution of green communication in cellular networks.

The Goal of Green communication is to provide ubiquitous and unlimited connectivity to a massive number of Internet of Things and machine-type devices/users having diverse quality of service requirements, supporting substantial and heterogeneous traffic demands, and reducing the energy consumption with the help of highly energy-efficient communication protocols, transceivers technologies.

The objective of this online FDP is to provide a forum for the faculty to enhance their knowledge in the field of Green communication. The noble aim is to bring together the professional and budding researchers on a common platform to discuss and exchange the ideas on recent developments and challenges in the field of Green Communication. This will provide opportunity to faculty to grade their work, to learn new methods of experimentation, analysis and to new directions in their research and organization.

This FDP focuses on green communications technologies, which are crucial to reduce the overall energy consumption and operational cost from both the environmental and business viewpoints.

Resource Persons:

Eminent Speakers from Industry and Premier Institutes.

Topics to be covered in FDP:

- Green Communication in 5G and Beyond 5G
- Receiver architecture for RF energy harvesting.
- Energy and spectral efficient radio Transceivers and access Technologies.
- Prospects of AI/ML techniques for green communications.
- "Hands-on Training on Deep Learning based RF Signal Classification for Cognitive Green Communications."
- AI Data science for 5G/6G Networks.
- Energy Efficient Edge Computing for Green 6G Networks.

Who Can Participate?

The faculty members of the AICTE approved institutions, research scholars, PG Scholars, participants from Government, Industry (Bureaucrats/Technicians/Participants from Industry, etc.)

Registration

- All registration to be made in <http://atalacademy.aicte-india.org/signup>
- The registration is free but compulsory.

Mode of FDP conduction

- Online platform – Google meet
- A reminder mail for all participants along with the joining link will be provided a day before the FDP.
- All participants will be provided soft copies of the FDP schedule, sessions video links.

Test and Certificate

- Online Test will be conducted on the last day of the FDP.
- The certificates will be issued to those participants who have attended the program with minimum 80% attendance and scored minimum 60% marks in the test.

Organizing Committee:

Dr. Sumathi M. S

Assistant Professor, Dept. of ETE
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Prof. Prathibha N

Asst. Professor, Dept. of ETE
pratibha.yashas@bmsit.in
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Chief Patrons

Dr. B. S. Ragini Narayan

Educationist, Donor Trustee and Member Secretary,
BMSET & Chairperson, BMSET

Dr. P. Dayananda Pai

Trustee, BMSET, Chairman, Century Group
Chairman, BOG, BMSCE.

Sri. M. Madan Gopal, IAS (Retd.)

Trustee BMSET, Former Additional Chief
Secretary, Government of Karnataka, Chairman,
BOG, BMSIT&M and BMSSA

Mr. Aviram Sharma

Trustee, BMSET, Chairman, BOG,
BMSCCM & ICD

Patrons

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Dr. H. K. Govindaraju

Vice-Principal, BMSIT&M

Convener

Dr. Raju Hajare

Associate Professor & Head,
Department of ETE,
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BMS INSTITUTE OF TECHNOLOGY AND MANAGEMENT
Department of Electronics & Telecommunication Engineering
 ATAL Academy sponsored Online FDP on
" GREEN COMMUNICATION "

Schedule from 24th to 28th August 2021

DAY	9:00 - 9:15 a.m.	Session 1 (9:15 a.m. - 11.15 a.m.)	Session 2 (11:30 a.m. - 1:30 p.m.)	Session 3 (2:30 p.m. - 4:30 p.m.)	
24/8/2021 Monday	Inauguration	"Green Communication in 5G and Beyond 5G" Dr. Rajarshi Mahapatra Associate Professor & Dean (Academics) Dr. SPM IIT Naya Raipur.	"Prominence of Energy Efficiency in 5G" Dr. Rakesh Jha Associate Prof, Dean R&D Department of E & C, Shri Mata Vaishno Devi University, J&K, India	"Receiver architectures for RF energy harvesting" Mr. T. Jayanandan Founder/CEO, Tesla Minds, India.	
25/8/2021 Tuesday	"Energy and spectral efficient radio transceivers and access technologies: Energy efficient IoT using LTE" Dr. Naveen M.B, Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology, Dharwad, Karnataka	C O F F E R E A K	"Non-Orthogonal Multiple Access (NOMA) and grant-free (GF) access for improved energy efficiency in 5G and beyond." Dr. Naveen M.B, Assistant Professor, Department of Electrical Engineering, Indian Institute of Technology, Dharwad, Karnataka	"Improving energy efficiency by mitigating RF nonlinear effects due to High Power Amplifiers." Dr. B.S.S. Krishna Chaitanya Assistant Professor, Department of EEE, Mahindra University, Telangana, India.	
26/8/2021 Wednesday	"Energy –Efficient Transceiver Design" Dr. Nikhil Marriwala Assistant Professor, Department of E&C E, University Institute of Engineering and Technology, Kurukshetra University, Kurukshetra.		B R E A K	Prospects of AI/ML in Green Communication : An Overview Dr. Ratnajit Bhattacharjee Head of Mehta Family School of Data Science and Artificial Intelligence, Professor, Department of EEE IIT Guwahati.	" AI Data Science for 5G / 6G Networks: A Smart Sensing Framework". Dhaval Patel PhD, Assistant Professor, School of Engineering and Applied Science, Ahmedabad University, Gujarat
27/8/2021 Thursday	"Hands-On Training on Deep Learning based RF Signal Classification for Cognitive Green Communications." Dr. Prabhu C Director, Chandhar Research Labs, Chennai, Tamil Nadu			"Hands-On Training on Deep Learning based RF Signal Classification for Cognitive Green Communications." Dr. Prabhu C Director, Chandhar Research Labs, Chennai, Tamil Nadu	"UAV AS BASE STATION: FUNCTIONAL SPLIT ANALYSIS" Mr. A.T. Kishore CEO, Vidhysangha Pvt Ltd., Bangalore
28/8/2021 Friday	"Energy efficient edge computing for green 6G networks." Dr. Sonali Chouhan Associate Professor Department of EEE, IIT Guwahati		"Stress Management" Mr. Varun Upadhayay The Art of Living (TAOL) Bengaluru.	Feedback/Valedictory (2:30 p.m. - 3:30 p.m.) Online Test (MCQ) (3:30 p.m. - 4:30 p.m.)	

RESOURCE PERSONS:



Dr. Rajarshi Mahapatra
IIT Naya Raipur.



Dr. B.S.S. Krishna Chaitanya
Mahindra University, Telangana,



Dhaval Patel
Ahmedabad University, Gujarat



Dr. Rakesh Jha
Vaishno Devi University, J&K



Dr. Prabhu C
Chandhar Research Labs, Chennai,



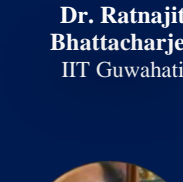
Dr. Nikhil Marriwala
Kurukshetra University, Kurukshetra.



Dr. Sonali Chouhan
IIT Guwahati



Mr. T. Jayanandan
Founder/CEO, Tesla Minds



Dr. Ratnajit Bhattacharjee
IIT Guwahati



Dr. Naveen M.B
IIT Dharwad, Karnataka



Mr. Varun Upadhayay
The Art of Living



Mr. A.T. Kishore
CEO, Vidhysangha Pvt Ltd., Bangalore