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 - UG* • PG* • Ph.D.*
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IES UNIVERSITY
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IES COLLEGE OF TECHNOLOGY
BHOPAL

Department of Electronics and
Communication Engineering

Organize

Two Weeks

Faculty Development

Program on

Technologies, Challenges

& Research Directions

of 6G Wireless

Communication

Systems



5th - 16th December 2022



ABOUT ORGANIZATION

The IES Group of Institutions promoted by Infotech Education Society is working towards excellence in education and fulfilling the needs of highly demanding professionals since 1999, in the pursuit of serving the society through imparting education. Renowned Educationists, Philanthropists, Engineers and Technical Professionals constitute Infotech Education



Society. The IES Group is AICTE / NBA / NAAC approved institutions in the field of Engineering and Technology, Management and Teachers Education Programs. The College campus is beautifully planned in 45 acres with pleasant landscaping presenting conducive environment for sincere and perfect learning.

ABOUT DEPARTMENT

The department of Electronics & Communication Engineering is a part of IES College of Technology, Bhopal. The institute offers UG and PG courses under the Department of Electronics & Communication Engineering. The department has well furnished laboratories and digital class rooms, software etc. The department has well qualified and competent faculties who are abreast with the latest technologies. The department has state-of-art-infrastructure and also has laboratories equipped with latest research facilities and well equipment

ABOUT THE FDP

The Sixth generation (6G) wireless connectivity is expected to offer high Speed, enriched capacity, lower latency, ultra-high reliability and the ability to connect massive number of connections,

namely, Internet of Things (IoT), Machine to Machine (M2M) and Device to Device (D2D) devices. In addition to offering faster speeds and other consumer benefits, 6G is seen as crucial to advanced technologies like vehicle type applications, IoT and virtual reality and augmented reality that demand high speed and bandwidth. In addition, the industry has made plans for next generation of technology, sixth generation (6G) at frequencies from 100 GHz to 1 THz and offer speeds up to 100 Gbps with very low latency. According to the researchers, 5G/6G devices will be able to handle hundreds or even thousands of simultaneous connections that should offer more capacity with lower power requirements.

TOPIC TO BE COVERED

- The trends of increasing wireless connectivity
- Possible ways to reach the 6G communication system
- Expected service requirements for 6G communication
- Emerging 6G technologies
- Expected 6G applications with the requirements
- Possible challenges and research directions to reach the 6G goal are described.

WHO SHOULD ATTEND

All faculty affiliated to AICTE, Engineering, Diploma, Research scholar's and industrial person

EMINENT INVITED SPEAKER

- Dr. Vivek Kapoor, Director , G H Raison Institute of Engineering and Technology (GHRIETN) ,Nagpur
- Dr. Vibha Vyas , Professor COEP Pune
- Dr. Jyoti Singhi, Professor MANIT Bhopal
- Dr. Abhishek Bhatt, Professor, COEP PUNE
- Dr. Ved prakash singh, Scientist & Head , India Meteorological Dept. Govt. of India

- Mrs. Suman Agrawal Scientist –'F' DRDO Hyderabad
- Dr. Ram Bilash Pachori, Professor, IIT, Indore.
- Dr. P K Singhai Professor MIT Gwalior.
- Dr. Abhishek Rawat IIIT RAM Ahmadabad
- Dr. Shymal Das Mandal, Professor, IIT Khargpur
- Dr. Dipankar Deb, Professor, IIIT RAM Ahmadabad
- Dr. Lalita Gupta, Assistant Professor, MANIT Bhopal
- Mr. Ramnath Narhete, Director, On price InfoTech pvt Ltd

PATRON IN CHIEF

Dr. Sunita Singh Group Director, IES College of Technology, Bhopal.

ORGANIZING CHAIRMAN

Dr. Anuprita Mishra, Principal, IES College of Technology, Bhopal.

COORDINATOR

Dr. Rajesh Kumar Nema HOD, IES College of Technology, Bhopal.

CO-COORDINATOR

Dr. Shweta Singh Associate Professor, IES College of Technology, Bhopal

ORGANIZING TEAM

- Dr. Pramod Patel
- Dr. Amarjeet Ghosh, Mr. Ashish Raghwanishi
- Mr. Jamvant Omkar, Mrs. Neha Shrivastava

BASIC AICTE ATAL FDP/CPDP Week 1 and Week 2 - A Typical Flow

Week 1 – Online (7:00 pm – 9:30 pm)

Day 1	Day 2	Day 3	Day 4	Day 5	Day 6
7:00 – 7:50 Session I (I) Dr. Vivek Kapoor Director, G. H. Rasoni College of Engineering, Nagpur	7:00 – 7:50 Session II (I) Dr. Jyoti Singhi, Professor, MANIT BHOPAL	7:00 – 7:50 Session III(I) Dr. Ram Bilash Pachori, Professor IIT, Indore.	7:00 – 7:50 Session IV (I) Dr. Shymal Das Mandal, Professor, IIT Khargpur	7:00 – 7:50 Session V(I) Dr. Dipankar Deb, Professor, IIIT RAM Ahmadabad	7:00 – 7:50 Session VI (I) NEP by Dr. Amita Dev, VC, Indira Gandhi Delhi Technical University for Women, New Delhi
8:00 – 8:50 Session I(II) Dr. Vibha Vyas, Professor, COEP PUNE	8:00 – 8:50 Session II (II) Mrs. Suman Agrawal, Scientist –F DRDO Hyderabad	8:00 – 8:50 Session III(II) Dr. P K Singhai, Professor, MIT Gwalior	8:00 – 8:50 Session IV(II) Research Methodology Dr. Karmalkar, IIT-Chennai	8:00 – 8:50 Session V (II) Dr. Lalita Gupta, Assistant Professor, MANIT Bhopal	8:00 – 8:50 Session VI (II) NEP by Dr. Amita Dev, VC, Indira Gandhi Delhi Technical University for Women, New Delhi
9:00 – 9:30 Session I (III) Interactions	9:00 – 9:30 Session II(III) Interactions	9:00 – 9:30 Session III (III) Interactions	9:00 – 9:30 Session IV(III) Interactions	9:00 – 9:30 Session V (III) Interactions	9:00 – 9:30 Session VI(III) Interactions

Week 2 – Offline (9:30 am – 4:30 pm)

Day 1	Day 2	Day 3	Day 4	Day 5
9:00 – 9:30 Inauguration	9:30 – 12:00 Session 8 Mr. Ramnath Narhete, Director, On price InfoTech pvt Ltd	9:30 – 12:00 Session 10, Ms. Anju, Art of Living, Life Skills	9:30 – 12:00 Session 12 Dr. Abhishek Rawat, Assistant Professor, MANIT Bhopal	9:30 – 12:00 Session 14 Dr. Abhishek Rawat, Assistant Professor, MANIT Bhopal
9:30 – 12:00 Session 7, Dr. Ved Prakash Singh Scientist & Head India Meteorological Dept. Govt. of India	12:00 – 1:00 Article 1 Discussion	12:00 – 1:00 Article 2 Discussion	12:00 – 1:00 MCQs	12:00 – 1:00 Visit Report (Team)
12:00 – 1:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch	1:00 – 2:00 Lunch
1:00 – 2:00 Travel for Visit	2:00 – 4:00 Session 9, Dr. Anjali Potnis, NITTR, Bhopal Indian values & ethos, Classroom conduct & behaviour (teaching learning psychology)	2:00 – 4:00 Session 11 Ashish kumar gupta Scientist F DRDL, DRDO	2:00 – 4:00 Session 13, Dr. Ram Bilash Pachori, Professor IIT, Indore.	2:00 – 3:00 Reflection Journal
2:00 – 4:00 Visit	4:00 – 5:15 Teaching Practice Dr. Ved Prakash Singh Scientist & Head India Meteorological Dept. Govt. of India	4:00 – 5:15 Teaching Practice, Dr. Abhishek Bhatt, Professor, COEP PUNE	4:00 – 5:15 Teaching Practice, Mrs. Suman Agrawal, Scientist –F, DRDO Hyderabad	3:00 – 4:00 Feedback
4:00 – 5:00 Travel back				4:00 – 5:00 Valedictory