

## TEQIP-III Sponsored One Week Workshop

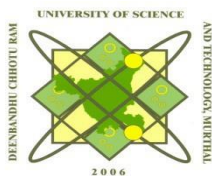
on

### Capacity and Skill Building of Technical Staff in Engineering & Technology

(20<sup>th</sup> -24<sup>th</sup> January, 2020)



### Jointly Organized By:



**Department of  
Electronics & Communication Engineering(NBA)  
Deenbandhu Chhotu Ram University  
of Science & Technology, Murthal  
(NAAC 'A' Grade)**

&



**Institute of Engineering &  
Technology(IET), Agra**

## DEENBANDHU CHHOTU RAM UNIVERSITY OF SCIENCE AND TECHNOLOGY

Deenbandhu Chhotu Ram University of Science & Technology (formerly known as CRSCE, Murthal) was established through an Act of Haryana State Legislature on 6<sup>th</sup> November, 2006 to facilitate and promote studies and research in emerging areas of higher education with focus on new frontiers of science, engineering, technology, architecture and management studies. The University is recognized under 12 (B) of the UGC Act, 1956. The University has been accorded the affiliating status by Act of Haryana State Legislature on 3<sup>rd</sup> August, 2009. The University provides an outstanding learning environment for multifaceted development of students, thus emerging as a centre of excellence.

The University is spread over 273 acres and has a fully residential campus with ample built up space in a contemporary architectural idiom. The University has 16 departments under 6 different Faculties. In addition to research facilities leading to enrollment of 181 research scholars, the university is presently running **19 PG, 9 UG & 5 Integrated** Programmes on regular basis in the fields of Engineering, Science, Architecture and Management with an annual intake of about **2000** students. The University is graded A by NAAC. Three UG programmes are accredited by NBA & other are in process. The university has highly qualified faculty, well equipped library, computer centre with high speed internet facility, faculty rooms & classrooms. The University is covered under Technical Education Quality Improvement Programme (TEQIP) of Ministry of Human Resource & Development (MHRD) of Government of India being funded by the World Bank. On successful completion of TEQIP-I & TEQIP-II, the University is also covered under TEQIP-III. Various departments have successfully undertaken many UGC/AICTE/DST/DBT sponsored projects.

The university is known in the region not only for students with technical, analytical & analyzing skills but also for its strong placement statistics. The University has signed 16 MoUs with a number of universities, research organizations and industries of National and International repute for exchange programmes for faculty & students and to conduct joint research work. The University has acquired membership of ACU, AIU, IRF, IRC, IGBC, INTACH, IE, ISTE, IEEE Student Chapter, CSI and other professional bodies.

## ELECTRONICS & COMMUNICATION ENGINEERING DEPARTMENT

The department of Electronics & Communication Engineering occupies a prominent place within the overall structure of the erstwhile CRSCE since 1987 & DCRUST since 2006. The Department offers Bachelor of Technology & Master of Technology Programme in Electronics & Communication Engineering with an intake of 66 & 36 respectively. The UG programme is NBA accredited. The NBA accreditation of PG programme is in pipeline. The course curriculum is designed with the inputs from academia as well as industry in such a way that optimum magnitude has been assigned to basic as well as advance course so as to keep the students abreast of basics as well as advances in the specific areas of technology. The department strives to keep various courses up-to-date so that these reflect current developments. The faculty constantly endeavours & engages itself in curriculum design.

The department has well- equipped and spacious laboratories with all modern facilities for experimentation at UG and PG levels. The laboratories have been modernized using liberal grants from World Bank under TEQIP and from the State Government and other funding agencies. Besides teaching, the department is actively engaged in research & activities conducive to research. The department has signed a MoU with Advance Technology, Chandigarh for in-house industrial training during summer vacations to acquaint the student with the basic knowledge of tools & toolkits to carry out advance research. The students are motivated to target the problems of industry for carrying out their major project at B. Tech. level & thesis work at M. Tech. level.

The faculty is young & actively engaged in research in the fields of Communication, VLSI, Image Processing, Digital Design, Embedded Design, Optical Communication and Digital Signal Processing, etc. The faculty members not only keeps itself abreast of latest developments by regularly attending a no. of Conferences / Seminars / Workshops / STTPs, etc. on different thrust areas of research but also has delivered **Key-note addresses, invited talks, experts lectures & chaired Technical Sessions** & presented research papers at International & National levels. The faculty is credited with publications in International & National Journals such as **IEEE, IEE, EPSR, IE(I), IETE, ELSEVIER Sci.**, etc. & in International (including IEEE) & National Conference Proceedings. The department faculty had published books too to its credit. The department has organized as many as 10 Workshops / Short Term Training Programme of one week duration & two Conferences. Besides this, the department has been intermittently organizing expert lecture from researchers from academia & industry of national & international repute.

## ABOUT THE WORKSHOP

### Aim:

Keeping in view the advancements in technology, there is dire need to give exposure as well as hands on exposure with the latest components, devices, platforms etc. to technical staff, research scholars and students. This one week workshop on Capacity and Skill Building of Technical Staff in Engineering & Technology has been designed to bring Technical staff, Researchers, Academia and Technocrats from different parts of the country to a common gathering for exchanging and sharing the recent developments in the field of Engineering and Technology.

### Objectives:

- To provide a forum to exchange views, ideas & the latest innovations in the field of Engineering and Technology.
- To offer learning on basics, emerging trends & challenges in the field of Engineering and Technology.
- To improve Technical staff's & Researcher's ability in carrying out research, testing & consultancy of in the field of Engineering and Technology.
- Offer knowledge on usage of Arduino, microprocessor and microcontroller.
- Understanding & learning of assembly language programming, interfacing using (8085, 8086) microprocessor and (8051) microcontroller.
- Hands on training on PCB fabrication, Arduino Uno, Raspberry pi, microwave bench, Verilog, Op-amp kits, device modelling software etc.

## TOPICS TO BE COVERED

Recent Trends in Digital Signal & Image Processing and hands on training on MATLAB, Evolution of Arduino and project implementation using Arduino Uno Board, Basics of microprocessor and microcontroller and hands on training using 8085, 8086 and 8051, Innovations in field of microwave, antenna, satellite communication and hands on practice using microwave bench & satellite communication kit, Recent advancement in the field of IoT and hands on practice using various sensors. Basics of PCB fabrication Process and Hands on Practice, etc.

## ELIGIBILITY

Staff members from academic institutions (technical colleges/ universities/ research organizations), Research Scholars and Engineering Students are eligible to attend the workshop.

## CORE COMMITTEE

### Patron-In-Chief

**Prof. Dr. Rajendrakumar Anayath**  
(Hon'ble Vice-Chancellor)

### Patron

**Dr. R.D Kaushik**  
(Registrar)

### Dr. J.S Saini

(Dean Faculty of Engg. & Tech.)

### Organizing Chair(s)

**Dr. Amit Kumar Garg**  
(Professor & Chairman, ECED)

### Dr. V.K Saraswat

(Director, IET, Agra)

### Coordinator

**Dr. Rajeshwar Dass**  
(Assistant Professor, ECED)

### Co-Coordinator

**Mr. Naresh Kumar**  
(Assistant Technical Officer, ECED)

## ORGANIZING COMMITTEE

Dr. Manoj Duhan, Professor  
Dr. Amit Kumar Garg, Professor & Chairman  
Dr. Priyanka, Professor  
Dr. S.K Grewal, Professor  
Dr. Poonam Singal, Professor  
Dr. Geetanjali Pandove, Professor  
Dr. Pawan Dahiya, Professor  
Mr. Manish Jain, Associate Professor  
Dr. Mridul Chawla, Associate Professor  
Dr. Prachi, Assistant Professor  
Dr. Rajeshwar Dass, Assistant Professor  
Dr. Sunita Malik, Assistant Professor  
Dr. Rekha Yadav, Assistant Professor  
Dr. Himanshi Saini, Assistant Professor  
Ms. Kusum Dalal, Assistant Professor  
Ms. Rajni, Assistant Professor  
Mr. Charanjeet Singh, Assistant Professor  
Mr. Vikas Nehra, Assistant Professor  
Mr. Naresh Kumar, A.T.O  
Mr. Harbans Lal, A.T.O  
Mr. Satish Yadav, Lab Technician  
Mr. Pankaj, Lab Technician  
Mr. Rajesh Kumar, Lab Technician  
Mr. Surender Kumar, Lab Technician  
Mr. Sher Singh, Lab Technician  
Mr. Pardeep, Lab Technician

## INVITED SPEAKERS

Faculty from Prestigious Universities, Institutes and industries such as IIT Delhi, IIT Roorkee, PEC, DTU, NIT Delhi, NSIT, NITTTR, will deliver expert lectures followed by practical demonstration from industry experts.

## REGISTRATION FORM

(As per prescribed format attached)

## IMPORTANT DATES

- Programme Duration : One Week
- Fee of Course : Nil
- Starting of the Course : 20<sup>th</sup> January, 2020.
- Last date of Registration : 17<sup>th</sup> January, 2020.

**(Register through Google form. The Link is as follow:  
<https://forms.gle/dFT4BQWVzfyGHTVj7>)**

- Intimation to Candidates : 18<sup>th</sup> January, 2020.  
(Seats are limited and participants will be allowed to attend above said workshop on first cum first serve basis. Original Registration Form duly completed has to be submitted on registration desk at the time of reporting)

## CONTACT PERSON(S)

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