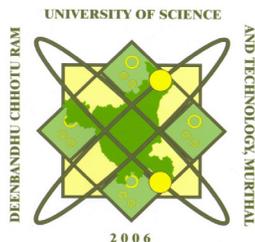


TEQIP Sponsored One Week
Faculty Development Programme

on

**Recent Research Trends in Industrial and
Manufacturing Engineering**

April 13-17, 2015



Organized by:

Department of Mechanical Engineering

DCRUST, MURTHAL, SONIPAT (HARYANA)-131039

REGISTRATION FORM

Full Name:

Age:..... Sex:.....

Highest Qualification:

Designation:

Department:

Name of Institute/College/University:

.....

Experience (in years):

Address for Correspondence:

.....

.....

Tele. No.:

Mobile No.:

E-mail:

(Create one if not existing as invitation to be sent by E-mail only)

Accommodation required: Yes / No

Type: AC / Non-AC

Date:

Place:

Signature of Applicant

PROLOGUE

Industrial Engineering is relatively a new discipline that adopts a systemic approach to solve different industrial engineering problems whether related to manufacturing or services. The Institute of Industrial Engineers (IIE) defines industrial Engineering as follows: “Industrial Engineering is concerned with the design, improvement and installation of integrated systems of people, material, information, equipment and energy. It draws upon specialized knowledge and skills in the mathematical, physical and social sciences together with principles and methods of engineering analysis and design to specify, predict and evaluate the results to be obtained from such systems”.

This FDP aims to provide awareness of recent trends in Industrial & Manufacturing Engineering (IME). It will help the leaders in industries and academia to formulate the long term research goals in the area of IME, particularly innovative manufacturing processes, equipment, new quality initiatives and strategies to enhance respective process capabilities while taking into account impacts on industrial ecology. A diverse group of individuals from both academia and industry will come together to discuss the future manufacturing and quality engineering challenges and research needs from industrial perspective.

The course contents will be taught by eminent experts in their respective field from IITs, NITs, DTU, PEC and other reputed universities, institutions and industries. The course will be useful for faculty from all engineering disciplines involved in teaching and research activities.

PROGRAMME OBJECTIVES

This programme will cover important issues related to What, Why, When and How of industrial and manufacturing Engineering. The programme will address issues related to how to map the scope and applicability of the concepts of industrial engineering in manufacturing, services and the other business processes of supply chains in order to reduce cost, improve quality, enhance delivery reliability and improve all round business performance. It will also cover issues related managing risks and yield in various business functions with the help of the tools of industrial engineering. The main objectives are:

- To create awareness about quality and productivity management as well as manufacturing engineering principles for enhancing competitiveness.
- To learn how to apply recent quality and manufacturing engineering techniques.
- Sharing the experience, knowledge and know how’s of solving industrial problems through the industrial case studies.
- To explore the trends and promising areas of manufacturing engineering for academician and researchers.
- To explore tools and techniques within the purview of quantitative and qualitative techniques and soft computing, while also presenting some of the challenging new applications.

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Patron-In-Chief

Prof. R. P. Dahiya

Hon’ble Vice—Chancellor

Patron

Prof. Rajender Singh

Dean and Chairman

Sh. R. K. Arora

Registrar

Convener

Dr. Ramesh K. Garg

Professor—Mechanical Engineering Department

Co--Convener

Dr. M. S. Narwal

Associate Professor—Mechanical Engineering Department



**DEENBANDHU CHHOTU RAM
UNIVERSITY OF SCIENCE AND TECHNOLOGY
MURTHAL, SONIPAT (HARYANA)-131039**

www.dcrustm.org / www.dcrustm.ac.in

ELIGIBILITY

Faculty members from academic institutions (technical colleges/universities/ research organizations) and professionals from industries are eligible to attend the programme. Technical staff and research scholars of DCRUST Murthal can also be considered.

GENERAL INFORMATION

- There is no registration fee, however, the registration is mandatory for all the participants prior to inaugural session.
- Lunch and tea are complementary during the programme.
- The candidates desirous to stay in University Guest House can avail of following rooms/tariffs:
- (a) Double-bed AC room: Rs. 300/-
- (b) Double-bed desert cooled room: Rs. 100/-.
- Limited lodging / boarding is available in the University, interested participants need to confirm in advance for it.
- The TA/DA, boarding and lodging expenses for attending the programme will be born by the candidates/ sponsoring institutes.

IMPORTANT DATES

Receipt of registration forms (by hand/ post/ e-mail):	07.04.2015
Intimation to selected candidates:	09.04.2015
Confirmation from the participants by e-mail:	10.04.2015
Submission of hard copy of registration form duly complete in all respects on or before registration is mandatory.	

ADDRESS FOR CORRESPONDANCE

Dr. Ramesh K. Garg (Convener)

Professor
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Deenbandhu Chhotu Ram University of Science & Technology
Murthal, Sonipat (Haryana) - 131039
Contact No: 9416105066; 0130-2484125
E-mail id: drrkarg.me@dcrustm.org

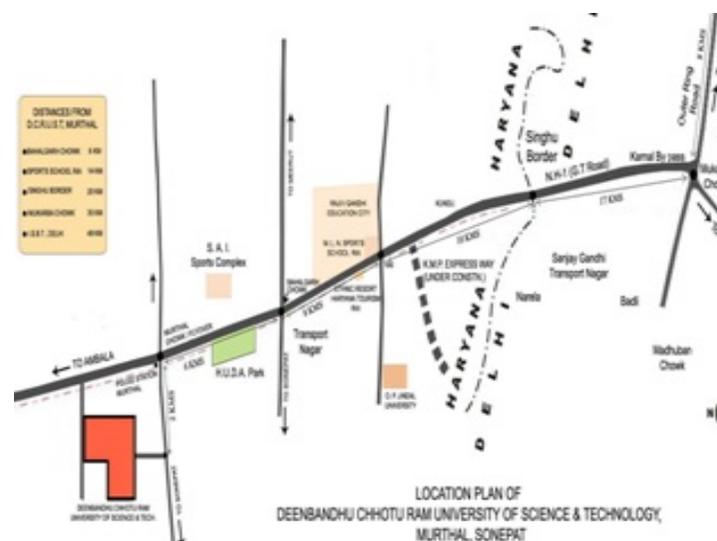
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Murthal, Sonipat (Haryana) - 131039
Contact No: 9416692466 ; 0130-2484125
E-mail id: narwalmohi@rediffmail.com

ABOUT THE UNIVERSITY

Deenbandhu Chhotu Ram University of Science and Technology (erstwhile C. R. State College of Engineering) was established through an Act of Haryana State Legislature on 6th 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 'Affiliating Status' by Act of Haryana State Legislature on 3rd August, 2011. 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. It has 16 teaching departments under 6 different Faculties. In addition to research facilities leading to enrollment of 181 research scholars, the University is presently running 19 Postgraduate, 9 Undergraduate & 2 integrated programmes on regular basis and 3 Postgraduate and 5 Undergraduate programmes in part-time mode in Engineering, Science, Architecture and Management with an annual intake of about 1750 students. Six Undergraduate programmes are accredited by NBA & others are in process. The University has highly qualified faculty, well equipped library, computer centre with high speed internet facility, faculty rooms, classrooms, & substantial sports facilities, etc. The University is funded under TEQIP of MHRD of Government of India being funded by the World Bank. 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 and soft skills but also for its strong placement statistics.

HOW TO REACH DCRUSTM



DEPARTMENT OF MECHANICAL ENGINEERING

The Department of Mechanical Engineering at Deenbandhu Chhotu Ram University of Science and Technology, Murthal is one of the oldest departments of the University, established in 1987 to educate students to be engineering leaders, to solve complex problems of importance to society, to serve the public through outreach and professional activities and to provide a culturally diverse and intellectually stimulating environment for the discovery and application of knowledge in Mechanical Engineering.

The Department presently runs Research Degree Programme (Doctor of Philosophy); one Postgraduate and one Undergraduate regular Degree Programme leading to the Degree of Master of Technology and Bachelor of Technology in Mechanical Engineering. Besides, the department had also offered Part-time B. Tech. Degree Programme for working professionals with 3-years Diploma in Mechanical Engg.

The curriculum of mechanical engineering is designed to provide the student with fundamental training in Mechanical Engineering disciplines, to facilitate the understanding and use of new ideas, technologies, and practices for the betterment of society and to acquire the capabilities needed to adapt to the rapidly changing technological and scientific requirements of the country and the region. The curriculum of the Mechanical Engineering is oriented towards the following sub-disciplines: Design Engineering; Thermal Engineering; Manufacturing and Automation Engineering and Industrial Engineering.

In order to achieve the overall objectives of this curriculum the department had established extensive instructional and research laboratories e.g. Mechatronics, CAD, CNC Machines, Computational Fluid Dynamics, Robotics in addition to conventional laboratories of Strength of Materials, IC Engines, Mechanism of Machines, Refrigeration & Air Conditioning, Heat and Mass Transfer, Fluid Mechanics and Machines, etc.. The Department is very well equipped with computational facilities and resources both in terms of hardware and software.

The Department has a well qualified and experienced faculty. The Strength of the Faculty in the department is 17 out of which 12 Faculty members have Ph. D. Degrees in Mechanical Engineering. The Faculty members of the department are also occupants of different administrative and academic positions in and outside the University.

The Department also encourages its students to engage in extra-curricular and co-curricular activities, essential for development, nurturing of team spirit, and developing organizational skills. The faculty members of the department are actively engaged in research & extension activities and a number of sponsored research projects are in progress. The department has organized a number of conferences/seminars/ workshops/ FDPs/ STCs in emerging and thrust areas in Mechanical Engineering in the past. This faculty development programme is another endeavor in the dissemination of knowledge.



**AICTE Sponsored
Two Weeks
Faculty Development Programme
on
“Signal & Image Processing:
Issues, Challenges & Techniques”
(SIPICT-2018), 1st - 12th January 2018**



Organized By:

**Department of Electronics and
Communication Engineering**



**Deenbandhu Chhotu Ram University of
Science & Technology, Murthal,
Sonapat-131039 (Haryana)**

**DEENBANDHU CHHOTU RAM UNIVERSITY
OF SCIENCE AND TECHNOLOGY**

(A Haryana State Government University, Accredited Grade “A” by NAAC)

Deenbandhu Chhotu Ram University of Science and Technology (erstwhile C. R. State College of Engineering) was established through an Act of Haryana State Legislature on 6th 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 ‘Affiliating Status’ by Act of Haryana State Legislature on 3rd August, 2011. 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. It has 16 teaching departments under 6 different Faculties. In addition to research facilities leading to enrolment of number of research scholars, the University is presently running 31 Postgraduate and 9 Undergraduate programmes on regular basis. The University has highly qualified faculty, well equipped library, computer centre with high speed internet facility, faculty rooms, classrooms, & substantial sports facilities, etc. The University has received grant under TEQIP I, II & III of MHRD of Government of India and Various departments have successfully undertaken many UGC / AICTE / DST / DBT sponsored projects.

**DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING**

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 and VLSI Design with an intake of 66, 36 and 18 respectively. The UG & PG programmes are accredited by NBA and awarded Grade “A” by NAAC. Twenty-five research scholars (Ph.D.) are registered in the department. 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 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 courses reflect current developments. The faculty constantly endeavours & engages themselves 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 TEQIP (I & II), Haryana State Government and other funding agencies. Besides teaching, the department is also actively engaged in research activities in various emerging areas such as Signal & Image Processing, Wireless Communication, Reliability, Optical Fibre Communication, VLSI Design, etc. The department has organised many National Conferences/ Seminars/ Workshops/ STCs/ FDPs etc. in emerging and thrust areas in Electronics & Communication Engineering. The FDP on SIPICT-2018 is another endeavour in the dissemination of knowledge.

ABOUT THE FDP

Aim:

Faculty Development Programme (FDP) on “*Signal & Image Processing: Issues, Challenges & Techniques*” SIPICT-2018 has been designed to bring 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 Signal & Image Processing and it’s allied areas.

Objectives:

- To provide a forum to exchange views, ideas & the latest innovations in the field of Signal & Image Processing.
- To offer learning on basics, emerging trends & challenges in the field of Signal & Image Processing
- To improve faculty’s ability in carrying out research, testing & consultancy in the area of Signal & Image Processing.
- To introduce Signal & Image Processing and to provide opportunities to further widen the knowledge and to pursue research.
- To provide hands-on training using MATLAB to demonstrate fundamental concepts of Signal & Image Processing i.e Signal representation, time & frequency domain analysis, signal transformation, filter design, image acquisition, enhancement, smoothing, denoising, compression, segmentation etc.

TOPICS TO BE COVERED

- > Signal Representation in Time & Frequency Domain
- > Signal Transformation, Filter Designing
- > Digital Image Processing, Recent Trends in Image Enhancement, Image Restoration, Denoising, Compression, Edge Detection & Segmentation, Recent Research Areas in Signal & Image Processing, Various Issues and Techniques in Signal & Digital Image Processing, Various Applications of Digital Image Processing such as Finger Print Recognition, Face Recognition, Character Recognition, Disease Diagnosing using MRI, X-Ray, Ultrasound etc.
- > Soft Computing Techniques for Signal and Image Processing
- > MATLAB: Signal & Image Processing Toolbox
- > Any other Related Topics

ELIGIBILITY

Faculty members from academic institutions (Technical Colleges/ Universities/ Research Organizations) and professionals from industries are eligible to attend the FDP programme. Research Scholars working in the same field are also eligible to attend the FDP. Eligible outstation participants from AICTE approved institutions will be reimbursed their T.A/D.A as per University rules

INVITED SPEAKERS

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

REGISTRATION FORM

(As per prescribed format attached)

Candidate required to send the scanned copy of prescribed registration form at fdpsipict2018@gmail.com on or before 20th December, 2017.

(Original Registration Form duly completed has to be submitted on registration desk at the time of reporting)

IMPORTANT DATES

Programme Duration : Two Weeks

Fee of Course : Nil

Starting of the Course : 01.01.2018.

Receipt of Registration Forms: ~~15.12.2017~~. 20.12.2017

(by hand/ post/ email)

Intimation to Candidates: 20.12. 2017.

CORE COMMITTEE

Patron

Professor(Dr.) Rajenderakumar Anayath

(Hon'ble Vice-Chancellor)

Dean Faculty of Engg.

Professor(Dr.) J.S Saini

(Chairman, EED)

Registrar

Professor(Dr.) S.K Garg

Chairperson

Professor(Dr.) Manoj Duhan

(Chairman, ECED)

Coordinator

Dr. Rajeshwar Dass

(Assistant Professor, ECED)

Co-Coordiators

Dr. Prachi Chaudhary

(Assistant Professor, ECED)

Ms. Rajni

(Assistant Professor, ECED)

CONTACT PERSON(S)

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Assistant Professor, ECED, Room No. 335,
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Email: fdpsipict2018@gmail.com

M. No: 09812688887

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Email: fdpsipict2018@gmail.com, **M.No:**09466047900

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Email: fdpsipict2018@gmail.com, **M.No:**09728680352.

ORGANIZING COMMITTEE

Dr. Manoj Duhan, Professor & Chairman

Dr. Amit Kumar Garg, Professor

Dr. S.K Grewal, Associate Professor

Dr. Poonam Singal, Associate Professor

Mr. Manish Jain, Associate Professor

Dr. Priyanka, Associate Professor

Dr. Geetanjali Pandove, Associate Professor

Dr. Pawan Dahiya, Assistant Professor

Dr. Mridul Chawla, Assistant Professor

Dr. Prachi, Assistant Professor

Dr. Rajeshwar Dass, Assistant Professor

Ms. Sunita Malik, Assistant Professor

Ms. Rekha Yadav, Assistant Professor

Ms. Himanshi Saini, Assistant Professor

Ms. Kusum Dalal, Assistant Professor

Ms. Rajni, Assistant Professor

Mr. Charanjeet Singh, Assistant Professor

Mr. Satish Kumar Nakra, A.T.O

Mr. Naresh Kumar, 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

Mr. Viresh Dahiya, DEO