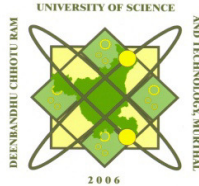


AICTE ATAL Academics Programme
on
**AI & IoT based
Robotics & Automation**
16-20 Dec., 2019



Organized by:
Electronics & Communication Engineering Department
DEENBANDHU CHHOTU RAM
UNIVERSITY OF SCIENCE & TECHNOLOGY,
MURTHAL, SONIPAT (HARYANA)-131039

REGISTRATION FORM
(Register through Google form only with the below mentioned information. The Link is as under:
<https://forms.gle/15BwL6EYPpEkfSE47>)

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:
Accommodation required: Yes / No

Date:
Place:
Signature of Applicant

Signature & Seal of Sponsoring Authority

VISION OF THE PROGRAMME

The famous quote of Aristotle that 'the biggest constant of the life is the change' has far more relevance in Electronics Engineering than any other field. It is an discipline which uses the scientific knowledge of the behavior and effects of electrons to develop components, devices, systems, or equipment (as in electron tubes, transistors, integrated circuits, and printed circuit boards) that uses electricity as part of its driving force. The field has many subfields including communication, analog design, digital design, digital signal processing, embedded design, information technology, power electronics, instrumentation engineering, semiconductor circuit design and many others. This field is witnessing new innovations every day having impact in all walks of human life. Communications has changed the size of globe. The ability to communicate with people on move has evolved remarkably since radio's ability to provide continuous contact with ships sailing the English channel. The new wireless communication methods and services have been enthusiastically adopted by people throughout the world, particularly during the past decade, the mobile radio communication industry has grown by orders of magnitude. The Software tools have played a vital role in all R&D activities in the field of electronics and communication. These tools have, in fact, revolutionized the whole world due to the flexibility & facilities available with them.

Robotics & Automation is a specialized branch that deals with designing robots, maintaining them, developing new applications and research in the field of automation. Artificial Intelligence (AI) is intelligence demonstrated by machines, in contrast to the natural intelligence displayed by humans and animals. Internet of Things (IoT) has revolutionized the whole world by connecting the physical things (sensors, actuators, etc.) on the internet. Integrating the field of AI & IoT with Robotics & Automation have added new dimensions to this upcoming field wherein AI makes the robots intelligent enough to cope with the challenges during action & IoT keep them networked. The applications of this may span from developing robots for simple problems to very complex problems like Unmanned Arial Vehicles, Humanoid robot, etc. By the use of AI & IoT, these robots can become more versatile in applications.

The proposed AICTE ATAL Academics Programme on AI & IoT based Robotics & Automation to be organized by ECE Dept. of DCRUST, Murthal has an overall vision of bringing together the researchers & mentors of the industry & academia on a common platform for deliberations on use of AI & IoT for technology Development in the fields of Robotics & Automation. Eminent personality from reputed institutions /industries will be invited to deliver their talk and share their knowledge and experience with the participants.

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CHIEF PATRON:

PROF. DR. RAJENDRAKUMAR ANAYATH,
HON'BLE VICE-CHANCELLOR, DCRUST, MURTHAL

PATRON:

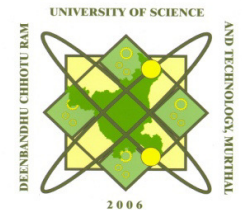
PROF. J. S. SAINI,
DEAN, FACULTY OF ENGG. & TECH., DCRUST, MURTHAL
DR. R. D. KAUSHIK,
REGISTRAR, DCRUST, MURTHAL

CONVENER:

PROF. AMIT KUMAR GARG,
CHAIRMAN, ECE DEPT., DCRUST, MURTHAL

COORDINATOR:

DR. PAWAN KUMAR DAHIYA,
ASSOCIATE PROFESSOR, ECE DEPT., DCRUST MURTHAL



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ELIGIBILITY & FEES

University Depts. / Colleges can recommend only 2 participants. However, the final selection of the participants shall be decided by the organizers as the seats are limited. There shall be no fee for selected participants. The following are eligible categories for workshop:

- PhD scholars.
- Faculty member of a University / College.
- Researchers from Industry Faculty.

GENERAL INFORMATION

- Limited lodging/boarding is available in the university.
- Interested participants may confirm in advance from the organizers.
- The candidates / sponsoring institutes shall bear TA / DA for attending the conference.
- The registration is mandatory for all the participants.

IMPORTANT DATES

- Last date for receipt of applications : **30.11.19**
- Intimation to the selected candidates (by Email) : **06.12.19**

ADDRESS FOR CORRESPONDENCE

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Ph.: 0130-2484146, Fax: 0130-2484004

E-Mail: pawan.dahiya@gmail.com

www.dcrustm.org

CONVENER:

PROF. AMIT KUMAR GARG,

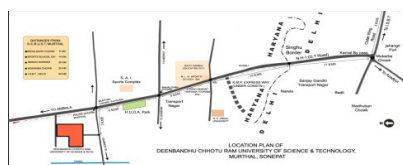
CHAIRMAN, ECE DEPT., DCRUST, MURTHAL

COORDINATOR:

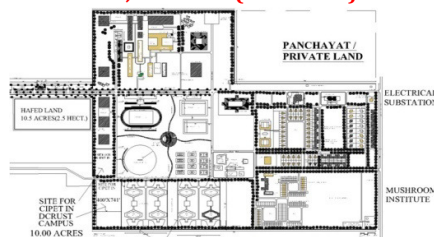
DR. PAWAN KUMAR DAHIYA,

ASSOCIATE PROFESSOR., ECE DEPT., DCRUST MURTHAL

HOW TO REACH DCRUST



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



Deenbandhu Chhotu Ram University of Science & Technology (formerly known as CRSCE, Murthal) 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 the affiliating status by Act of Haryana State Legislature on 3rd 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 both in regular as well as weekend mode (for the working professionals). 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 members have also been on Advisory Boards / Committees of several National & International Confs. 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 dept. 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. The workshop is going to be just another feather in the cap of the department.