

**Workshops/ Conferences/ GIAN course /finishing schools/special lectures
organized under TEQIP-II Sponsorship**

Sl No.	Topic	Dates From – To	About the Program	No. of Participants
1	Advances in Pattern Recognition: An approach through MATLAB	August 31 st , 2016 to September 4 th , 2016	This workshop has focused on recent developments in the area of pattern recognition and image processing. It has provided a comprehensive introduction to the fields of pattern recognition and machine learning.	116
2	Sustenance of Energy and Environment – Challenges and research dimension	July 25 th , 2016 to July 30 th , 2016	This workshop was regarding primary issues bothering the human kind at present – Energy, environment and their sustenance. The workshop was conducted by eminent personalities from IISc, CST, CPRI, KPTCL, IIT Chennai and was attended by all sections of people – students, working professionals and regulating bodies. Several related issues regarding energy and Environment sustenance were discussed and challenges were highlighted	85

Our department is one of the remote centers for NMEICT program, funded by MHRD, under which various STTP's are conducted by IIT-Bombay & IIT- Kharagpur.

SI No.	Name of the Conference/Workshop organized	Date & Month	Sponsored by
1	ISTE workshop on “ Basic Electronics”	June 28 th , 2011 to July 8 th , 2011	MHRD
2	ISTE workshop on “ Solar Photovoltaic: Fundamental Technologies and Applications”	December 12 th , 2011 to December 22 nd , 2011	MHRD
3	ISTE workshop on “ Writing Effective conference papers”	February 18 th , 2012 to February 19 th , 2012	MHRD
4	ISTE workshop on “Analog Electronics”	June 4 th ,2013 to June 14 th ,2013	MHRD
5	ISTE workshop on “Control Systems”	December 2 nd , 2014 to December 12 th , 2014	MHRD
6	ISTE workshop on “ Pedagogy for Effective use of ITC in Engineering Education”	January 5 th , 2015 to January 31 st , 2015	MHRD



7	ISTE workshop on “ Electric Power System”	July 10 th , 2017 to July 15 th ,2017	MHRD
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Global Initiative of Academic Network (GIAN) Programme

Report on Conduct of GIAN Course

Title of the course: Applied Electrostatics and Non-Thermal Plasma for Environmental application and Control of Bio-Particles”

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Overview

The course focusses on application of Electrostatics and Non thermal Plasma for Environmental protection and control of Bio particles. Non thermal plasmas produced by electrical discharges are gaining importance because of their low energy requirement. The present collegiate student community holds a responsibility of sustainable environment. This course intends to provide knowledge about the technologies such as non-thermal plasma and electrostatics for environment protection and life sustenance in the present context of highly disturbed and polluted environment. In addition, this would also provide gainful career opportunities for the young students. This short-term multi-disciplinary course, covering topics, appropriate in this direction, is very useful and value-addition to the academic qualifications they already possess or that they are studying. In this course, fundamentals of electrostatics and applications on control of bio-particles such as DNA molecules, viruses and microbes, PM2.5 removals are comprehensively described. Non-thermal plasma characteristics including radical formations have been discussed for further development to environmental applications.

Objectives

The primary objective of this course is to introduce and familiarize participants with:

- Current state of the art in Applied Electrostatics and Electrical discharge based Non Thermal Plasma Technologies
- Research opportunities in the area of Electrostatics and Electrical discharge based Non thermal Plasma.
- Practical applications to understand the mechanism of the techniques and to know importance of the fundamental knowledge and hence to develop novel technologies for environmental remediation and protection of human health.
- To enhance Career opportunities and job potentiality of students by value-addition to their current academics of Science and Technology towards international standards

Title of GIAN Course	Applied Electrostatics and Non-Thermal Plasma for Environmental application and Control of Bio-Particles	
GIAN Course ID	175028D13	
Period of Course	21-12-2017 to 25-12-2017	
Name and Department of Faculty from <host Institute>		
Course Coordinator		
Name	Dr.A.D.Srinivasan	
Department	Electrical and Electronics Engineering	
Co-host Faculty, if any		
Name	NIL	
Department		
Name and Affiliation of International Faculty		
Name	Akira Mizuno	
Affiliation	Senior Resarcher, Professor Emritus, Dept.of Environmental & Life Sciences, Toyohashi University of Technology, Japan	
Name and Affiliation of National Faculty, if any		
Name	NIL	
Affiliation		
Structure of the Course		
Duration of course (1 week or 2 weeks)	1 week	
Number of credits (1 or 2)	NIL	
Total number of lectures in the course	10 Hrs	
Number of lectures by International Faculty	10 Hrs	
Number of lectures by Host Faculty	NIL	
Number of hours of laboratory/tutorial sessions	10 Hrs	
Participants of the Course		
Number of student participants	45	
Number of participants from Industry/ Research Organisations	02	

Number of Faculty participants	12
Total Number of participants	59
Number of participants who credited for the course	NIL
Course Generated Fund	
Sponsorship, if any (in Rs.)	Rs 65,848
Registration Fee Collected	Rs 35,500.00 (Paid to TEQIP)
Total amount	Rs 30,348/
Interaction of International faculty with Host Faculty:	
<p>There used to be research discussion on everyday from 4.30 to 6 PM</p> <p>Conduction of one more 2 credit course was discussed in the related area</p> <p>Discussion regarding inculcating research and development activities among students was made</p> <p>We were able to understand the research methodology being practiced at major universities in Japan including Toyohashi University of Technology, Japan</p> <p>Discussion was made on the teaching methodology being practiced in engineering colleges in Japan</p>	
Interaction of faculty/researchers from other institutes/organizations	
<p>Research scholars working under different guides of the host institutes had discussion with international faculty regarding their progress of the research, issues related to publications and future scope in the research.</p>	
Signature of Course Coordinator	
Date of submission of report	12.02.2018