



FACULTY DEVELOPMENT PROGRAMME (FDP) ON Role of Nanotechnology in Communication Systems

RNTCS (2nd Nov – 14th Nov 2021)

Organized by

R&D Department, IARE, Dundigal, Hyderabad



INSTITUTE OF AERONAUTICAL ENGINEERING (IARE), HYDERABAD

(Sponsored by E and ICT Academy, NIT Warangal)

PREAMBLE:

“Electronics & ICT Academy” was set up at NIT Warangal with financial assistance from MeitY, GoI. The jurisdiction of this academy is Telangana, Andhra Pradesh, Karnataka, Goa, Puducherry and Andaman & Nico- bar Islands. This academy role is to offer faculty development programs in standardized courses and emerging areas of Electronics, Information Communication Technologies, training & consultancy services for Industry, Curriculum development for Industry, CEP for working professionals, Advice and support for technical incubation and entrepreneurial activities.

ABOUT FDP:

The Faculty development program will help to disseminate the knowledge of nanoengineering and Technology in Optical fiber communications. It empowers the participants to understand how nanoengineered fibers can be used to innovate and improve the communication process. Nanotechnology is also a fast-growing field in optical fibers concerned with the study and design of fibers for different applications. These fiber uses the nanostructures technology in its fiber design.

MAJOR COURSE CONTENTS:

- Introduction to Nano science and Nanotechnology
- Physical Aspects
- Characterization of nanomaterials
- Molecular Electronics and Nanoelectronics
- Photonics
- Introduction to Nano structures
- Nanostructures as electron transistor –principle and design
- Nanocommunications
- Nanosensors and nanodevices
- Introduction to optical fibers
- Working of Fiber optic communications
- Fiber Optic Vs Satellite Communication
- ML & IoT Applications in Healthcare, Industries and Smart Cities
- Nanotechnology in daily life
- Molecular communication in Nano Networks technology
- Nanotechnology in wireless Devices
- Nanotechnology Risk Communication Past and Prologue
- Nano Transistors
- Material Advancement for 5G communications

FACULTY CONDUCTING THIS PROGRAM:

The program will be conducted by the faculty members from NIT Warangal; Academicians in the concerned field from IITs/NITs/IIITs are invited to deliver lectures in the program. Speakers from industries are also expected to deliver as part of the course.

REGISTRATION FEE PARTICULARS:

Faculty and Research Scholars	Rs.750/-*
Industry Participants	Rs.2250/-*

*As per E& ICT norms

Participants need to pay the Registration Fee Online using the following details

ONLINE TRANSFER DETAILS
Account Name: Electronics & ICT Academy NITW
Account No: 62423775910
IFSC: SBIN0020149
Bank and Branch: State Bank of India, NIT (REC) Warangal

HOW TO APPLY:

Participants are required to fill the online registration form by clicking on the following link:

<https://forms.gle/SsFsx6C3dvRP6kPy5>

SELECTION CRITERIA:

Selection will be done based on first-come-first-serve basis to a maximum number of 50 (Fifty). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. Candidates will be issued satisfactory certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI

Last date (Application)	12/10/2021
Selected list of candidate by E- mail	15/10/2021
Duration	2/11/2021 to 14/11/2021

ABOUT NIT WARANGAL:

NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL is the first among 17 RECs setup as joint venture of the Government of India and the state government. Over the years the college has established itself as a premier Institute imparting technical education of a very high standard leading to the B.Tech degrees in various branches of engineering, M.Tech. and Ph.D programs in various specializations.

ABOUT IARE:

IARE is a prestigious Autonomous engineering college offering eleven B.Tech programs Aeronautical Engineering, Institute of Aeronautical Engineering (IARE), Hyderabad was established in the year 2000 and is run by Maruthi Educational Society founded by a devoted group of eminent professional and industrialists having a long and outstanding experience in educational system with a mission ‘Education for Liberation’. It is the first institute to start B.Tech program in Aeronautical Engineering in the state of Combined Andhra Pradesh and has gradually transformed itself into an integrated multi-disciplinary technological institute. The institute is ranked 159 in engineering category as per National Institutional Ranking Framework (NIRF) – 2020, Ministry of Human Resource Development (MHRD), Govt. of India.



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1. Name :
2. Designation :
3. Institution :
4. Email :
5. Mobile No :
- 6.

Reference No :	
Amount :	
Bank :	
Date :	

7. Address for Correspondence :

8. Educational Qualification :
9. Subjects taught so far :

10. No. of refresher courses/workshops attended :

11. Experience (in years) :

Teaching: Research: Industry:

12. Do you belong to SC/ST : YES / NO

(If yes, please specify and attach a copy of caste certificate to claim the concession)

Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the Coordinator in case, I am unable to attend the course.

DATE

SIGNATURE OF THE APPLICANT

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms. is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on “Role of Nanotechnology in communication systems”, sponsored by Electronics & ICT Academy, NIT Warangal. during (2nd – 14th November) , 2021 at IARE Dundigal, Hyderabad.

**Signature of Head of Institution
(with seal)**

Address for correspondence

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Ph. No : 9949900490

It is requested to all the delegates, after completion of application form, all the payment details, screenshot of the payment and scanned application form has to be uploaded in the following online registration link.

Registration Link:

<https://forms.gle/SsFsx6C3dvRP6kPy5>

For more details about Electronics & ICT Academy, NIT, Warangal, please visit: <https://nitw.ac.in/eict>

For more enquiries please contact:

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