

ORGANIZING COMMITTEE

CHIEF PATRON	:	Dr. M.K. Surappa Vice-Chancellor, Anna University, Chennai
PATRON	:	Dr. J.Kumar Registrar, Anna University, Chennai
CHAIR	:	Dr. D.Sridharan Director, CFD Dr. I.Arul Aram Addl Director, CFD
CO-CHAIR	:	Dr. S. Shanmugavel, Principal, NEC. Dr. A. Shenbagavalli, Professor & Head (ECE), NEC.
COORDINATORS	:	Dr. S. Tamil Selvi, Professor (ECE). Mr. B. Ganapathy Ram, Assistant Professor (ECE).
VENUE	:	Wireless Communication Lab, Department of ECE, National Engineering College, Kovilpatti, Thoothukudi

IMPORTANT DATES

Submission of Online Application	:	30.04.2019
Submission of Registration Form	:	10.05.2019
Intimation of Selection	:	13.05.2019
Confirmation by Participants	:	16.05.2019

REGISTRATION

ELIGIBILITY

Faculty members who are teaching subjects related to Digital Communication from ECE, CSE, IT and EIE departments of Engineering Institutions which are affiliated to Anna University, Chennai

REGISTRATION

The eligible faculty member who wants to participate in this FDTP can submit their application through online using the following link.

<https://forms.gle/GvXmR3Nn81H6eLQi7>

After online submission the faculty will receive the filled in Registration Form via Email. The signed copy of the registration form should be sent to The Coordinator via post.

OTHER NORMS

- FDTP is offered free of cost to the faculty members of all Engineering Institutions affiliated to Anna University, Chennai.
- Registration is restricted to 25 participants.
- Participant will be selected based on first come first served basis.
- Priority will be given to Assistant Professors and Associate Professors.
- No TA/DA will be provided for attending this program.
- Accommodation and boarding, if required will be provided in the college hostel only on prior request.

Six-Day FDTP

ON

EC8501 - DIGITAL COMMUNICATION

27.05.2019 to 01.06.2019

Jointly Sponsored by



ANNA UNIVERSITY, CHENNAI

&



NATIONAL ENGINEERING COLLEGE

An Autonomous Institution
Affiliated to Anna University, Chennai
K.R. Nagar, Kovilpatti, Thoothukudi,
Tamilnadu – 628503

Web : www.nec.edu.in Email : Principal@nec.edu.in
Contact Email : stsece@nec.edu.in

ABOUT NEC

National Engineering College, Kovilpatti is one of the premier autonomous Institutions in Tamilnadu and is affiliated to Anna University, Chennai. It is having an academic excellence of more than three decades. 7 undergraduate (UG) and 6 post graduate (PG) programs are offered under various disciplines of Engineering and Technology. Six UG programs are accredited by National Board of Accreditation (NBA) under Tier-1 category. As a Research Centre of Anna University, NEC has produced 116 Ph.D. degree holders in diverse fields of Science, Engineering and Technology. NEC has received funds of more than Rs. 6.41 crore from various Government agencies for 36 research projects. UGC has recognized NEC under section 2f and 12B. MSME, New Delhi has approved NEC as a Host Institute for Business Incubation. Department of Science and Technology (DST), New Delhi has sponsored Rs. 43 Lakh under FIST scheme. NEC is having New Generation Innovation and Entrepreneurship Development Centre sponsored by NSTEDB, DST. Students and faculty have developed many products to render solutions to societal problems and filed 22 patents.

ABOUT ECE DEPARTMENT

Department of ECE has been established in the year of 1984. It offers B.E. (ECE) and M.E. (Embedded System Technologies). NBA has provisionally accredited B.E. (ECE) as Tier-1 UG programme from Jun 2017 to June 2020. Department of ECE is recognized as research centre which is approved by Anna University, Chennai. The department has highly qualified, experienced, and dedicated faculty members who are envisaging research in the wide spectrum of areas including Signal & image processing, Communication & networking, VLSI, Embedded Systems and RF & microwave technologies to make the student's career path brighter.

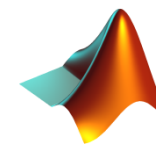
ABOUT FDTP

UG programs in Engineering Institutions such as Electronics and Communication Engineering, Computer Science and Engineering and Information Technology are offering courses relevant to digital communication. Nowadays wireless communication technology is moving towards fifth generation which strongly depends on the fundamentals of digital communication. Hence, the ultimate objective of the Faculty Development Training Program (FDTP) is fixed in such a way to train the faculty on principles, techniques, trade-offs, and fundamental limits of digital communication systems. This FDTP covers fundamental concepts of digital communication systems, which are essential for advanced studies in wireless communication systems. It mainly focuses on theoretical concepts on load-bearing pillars of digital communication systems such as information theory & coding, baseband & pass-band communication systems and waveform engineering, as well as demonstration of specific digital and wireless communication examples to fulfill the gap between theory and practical application.

PROGRAMME CONTENTS

- Waveform coding and Line Encoding
- Information Theory and Source Coding Techniques
- Design of Channel Encoder and Decoder
- Baseband Transmission and Reception Techniques
- Pass-band Transmission and Reception Techniques
- Advanced digital communication techniques.
- Application of digital communication in wireless communication.

PRACTICAL SESSIONS



Performance Analysis of digital modulations and channel coding over AWGN & Fading channel using Matlab.



Waveform Engineering & modeling simulation using Labview graphical programming environment .



Wireless Packet Transmitter and Receiver using Universal Software Radio Peripheral



Implementation of Block codes and Channel codes using Field Programmable Gate Arrays

COURSE INCLUSIVES

This FDTP course includes lecture session, tutorial session, paper clubs, group discussion, practical session, participant seminar session and online quiz.

RESOURCE PERSONS

Sessions in the FDTP will be handled by

- Eminent Professors from Reputed Institutions.
- Experts from Wireless Industries.