

About the Course

This course is an amalgamation of basic concepts of Digital signal processing and hands on session. The main course of the training program is to introduce the fundamentals and find applications in different fields. Digital signal processing has immense importance and has wide area of applications which will be discussed. The emphasis will be on introducing the concepts in a very lucid manner along with physical interpretation and easy to understand examples.

Course objectives

Topics-----

- Introduction
- Signals and Systems
- Sinusoids and complex numbers
- Spectrum Representation
- Sampled System
- Sampling and Aliasing
- Z Transformation
- Discrete & Fast Fourier Transformation
- ADCs and DAC
- Interpolation and Decimation
- Convolution
- Linear Filter Design
- Noise
- Various Applications
- Hands On

About the Department

Instrumentation Engg Department,
JEC, Jorhat

The North Eastern region of India is abundant in natural resources like petroleum, Natural gas, coal, limestone and other minor minerals such as magnetic quartzite, clay etc. Furthermore, Assam is also the largest producer of tea in India. In that capacity, so as to take care of the demand of Instrumentation Engineers in these industries, Instrumentation Engineering Department was established in the year 1992 in Jorhat Engineering College, with JEC turning into the main institute in N.E area of the nation to offer four years, eight semester B.E programme in Instrumentation Engineering.



About the Institute

Jorhat Engineering College:

Jorhat Engineering College, one of the oldest premier Government institution of North East India, Assam has completed its fifty years of relentless service to the nation. The College came into existence on 7th January, 1959 at H.R.H.P.O.W. Institute of Engineering & Technology. The College has been offering UG degree for five departments and post-graduate courses in Electrical, Civil, Mechanical and Master of Computer Applications.



TEQIP-3

Students Development Program

on

Fundamentals of Digital Signal Processing and Its Applications

(March 6th and 7th, 2020)



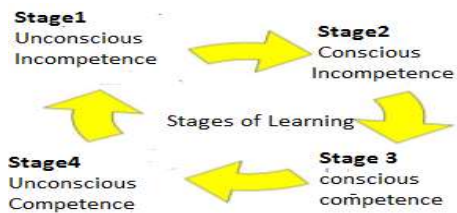
Organized by



Department of Instrumentation Engineering

Jorhat Engineering College

Jorhat-7



Eligibility for participation:

- Undergraduates from Jorhat Engg College.
- PG/Research Scholars working in this area

Resource Person:

Dr Debasish Deb,
Scientist F, DRDO Bangalore
Email: debudeb@gmail.com

Brief Biodata of the Resource Person

Dr Debasish Deb is working as a Senior Scientist with DRDO Bangalore. He is working in the field of signal processing, MIMO Systems, Multiprocessor based system design, System Engineering and allied areas. He was the First rank holder both during his B.Tech from NIT Silchar, and MTech from IIT Kanpur. He received his PhD degree from IITG. He had been working with DRDO for last two decade and is presently leading/associated with several projects under Govt. of India. He has many research publications to his credit both of National and International repute. He has reviewed Journals of International importance and is presently an expert in Signal Processing area. He is the recipient of many awards for his outstanding contribution in the field of science and Technology.

Important Dates

Deadlines: Receiving completed application: **5th March 2020.**

Registration Process and fee

This course is mainly for the UG students of Jorhat Engineering College. However, Interested PG and Ph.D. students are eligible based on the available seats. Total no. of seats are 65, and preference is based on First come first basis.

1. There is no registration fee for the course.
2. Please fill up the Registration form.
3. Fill up the form and email the scanned copy to the coordinator mail id.
4. The hard copy of original registration form to be submitted before the commencement of course at the registration desk.

COMMITTEE

Patron: Dr. (Mrs) Reeta Sarmah , Principal, JEC

Convener Dr. (Mrs.) Neelanjana Baruah, HOD, IED, JEC

Event Co-ordinator

Dr. Sonali Biswas
Assistant Professor, JEC
Email: Sonali.jec@gmail.com

Ph: 09606722210

TEQIP3 Co-ordinator

Dr. Diganta Hatibaruah
Associate Professor, JEC
Email: dhbaruah@gmail.com

Organizing Committee

Mr Arabindra Saikia, Assistant Professor, JEC
Mrs Monisha Pathak, Assistant Professor, JEC
Mr. Ujjal Manikya Nath, (TEQIP Faculty)
Miss Nabasmita Phukan, (TEQIP Faculty)
Mr. Pronoy Baishya, Assistant Professor, IED, JEC

TEQIP3 sponsored SDP Programme On **Fundamentals of Digital Signal Processing and Application** (March 6th and 7th, 2020)

Registration Form

(Please mail to reach before 5th March, 2020)

1. Name:
2. DOB: Sex: Male/Female
3. Designation:
4. Class and Branch.....
5. Roll No.....
5. Mobile No.....
6. Email ID:.....
7. Academic Qualifications:
8. Teaching Experience (Years).....

I agree to abide by the rules of the QIP courses. If selected, I shall participate in the course for the entire duration.

Date: _____
Place: _____ Applicant's Signature

Recommended by

Signature of the HOD / Principal of the Institution

Date: _____ seal