



**JAYPEE UNIVERSITY OF
INFORMATION TECHNOLOGY
WAKNAGHAT**



Online Short Term Course

on

**Recent Advances in Computational Intelligence for Signal Processing
(RACISP-2020)**

10th -15th AUGUST, 2020

organized by

**Department of Electronics and Communication Engineering
JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT,
SOLAN (H.P), PIN-173234**

ABOUT UNIVERSITY

Jaypee University of Information Technology (JUIT) was set up by Act No. 14 of 2002 vide Extraordinary Gazette notification of Government of Himachal Pradesh dated May 23, 2002 and it is approved by UGC under section 2(f). The University located in serene, calm and dense forestry surroundings of lower Himalayas near to Shimla and it is governed by non-profit charitable trust of **Jaypee Seva Sansthan**. The University is accredited by NAAC, NBA and its NIRF ranking is among top 100 engineering institutes including IIT's, NIT's and Central Universities.

ABOUT DEPARTMENT

Department of Electronics and Communication Engineering is providing high quality, self motivated, creative, ethical engineers and technologist contributing effectively to universal science and contemporary education. Department is accredited by NBA and most of the faculty members in the Department are Ph.D degree holders. ECE Department is well equipped with latest laboratories, name of few are Wireless Sensor Network & IOT, Digital Signal Processing, and Embedded Systems & Robotics. Also, it has the latest software of LABVIEW, MATLAB, and VIVADO. Presently, the Department is offering UG, PG, and Ph.D degree programs in Electronics and Communication Engineering with excellent placement records.

ABOUT THE SHORT TERM COURSE

This short term course is offered as an online/virtual training programme and is aimed to up-grade the knowledge and skills of the students, research scholars, faculties and scientists involved in active research in the area of **Computational Intelligence in Signal Processing**. The goal of the course is to provide a forum to exchange latest research ideas, recent trends and innovations in the field of **Computational Intelligence in Signal Processing**. This course would surely help and offer opportunities to the new researchers, academicians and industry professionals to enhance the knowledge and pursue research in this area.

OBJECTIVE OF THE COURSE

This short term course has been intended to provide knowledge of recent technologies used in signal processing, image processing and machine learning. The objectives of the course are:

1. Constructive understanding and implementation of computational principles of signal and image processing.
2. To address latest applications of signal processing in machine learning.

PROGRAM SCHEDULE

Date	Timing	Speaker	Topic
	11:30AM		INAUGURAL
10-08-2020	11:40AM - 12:30PM	Dr. Nafis U Khan Assistant Professor, JUIT Waknaghat	Fuzzy Inference based Edge Detection in Digital Images
	02:00PM - 03:00PM	Dr. Nishant Jain Assistant Professor, JUIT Waknaghat	Fusion of Biomedical Imaging Modalities
11-08-2020	11:30AM - 12:30PM	Dr. Shruti Jain Associate Professor, JUIT Waknaghat	Futuristic Trends and Challenges in Biomedical Image Processing
	02:00PM - 03:00PM	Dr. Harsh Sohal Assistant Professor, JUIT Waknaghat	Introduction of FPGA based Digital Signal Processing
12-08-2020	11:30AM - 12:30PM	Dr. Sunil Datt Sharma Assistant Professor, JUIT Waknaghat	Digital Signal Processing for Genomics Data Analysis
	02:00PM - 03:00PM	Mr.Pardeep Garg Assistant Professor, JUIT Waknaghat	
13-08-2020	11:30AM - 12:30PM	Dr. Vikas Baghel Assistant Professor, JUIT Waknaghat	Multi-objective Optimization: Fundamentals and Evolutionary Methods
	02:00PM - 03:00PM		
14-08-2020	11:30AM - 12:30PM	Dr. Emjee Puthooran Assistant Professor, JUIT Waknaghat	Machine Learning using Python
	02:00PM - 03:00PM		
15-08-2020	11:30AM - 12:30PM	Dr. Alok Kumar Assistant Professor, JUIT Waknaghat	Role of Thresholding in Spectrum Sensing
	02:00PM - 03:00PM		Open forum and Discussion

PROGRAMME COMMITTEE

CHIEF PATRONS

- Shri Jaiprakash Gaur Ji, Founder Chairman, Jaypee Group
- Shri Manoj Gaur Ji, Executive Chairman Jaypee Group, and Pro-Chancellor, Jaypee University of Information Technology, Waknaghat, H.P.

PATRONS

- Prof. Vinod Kumar, Vice Chancellor, Jaypee University of Information Technology, Waknaghat, H.P.
- Prof. Samir Dev Gupta, Director and Dean Academics, Jaypee University of Information Technology, Waknaghat, H.P.

PROGRAMME CHAIR

- Dr. Rajiv Kumar,
Head of the Department, Electronics and Communication Engineering (ECE),
Jaypee University of Information Technology, Waknaghat, H.P.

COURSE CO-ORDINATORS

- Dr. Nafis Uddin Khan, Assistant Professor
- Dr. Sunil Datt Sharma, Assistant Professor
- Dr. Vikas Baghel, Assistant Professor

WHO CAN ATTEND

Faculty/Research Scholars/Industry Professionals from the field of Electronics & Communication Engineering, Electronics & Instrumentation Engineering, Computer Science Engineering & Information Technology, Electrical Engineering, Biomedical Engineering and Bio-Informatics can attend this course.

BENEFITS OFFERED TO PARTICIPANTS

- No Registration fees
- E-certificate of participation will be provided on the successful completion of the programme

REGISTRATION

- Participants may register through following Google link:
<https://sites.google.com/juitsolan.in/racisp-2020/registration>
- **Last date for the registration is August 09, 2020.**

CONTACT INFORMATION

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