Registration Form

One-week Bootcamp
on

"EDWinXP and MIPEC PCB and RF Antenna Design Machine"

Duration 25-29 November, 2019

Organized by

Department of Electrical Engineering

Rajkiya Engineering College Banda

Atarra, Banda, (U. P.) – 210201

Sponsored By

TEQIP - III

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Full Name:_____
(in Block Letters as desired on certificate)
Sex(M/F):_____ **Date of Birth:**_____
Designation:_____
Department:_____
Organisation:_____
Email Address: _____
Correspondence Address:_____
_____
Mobile number :_____
Are you an IEEE Member?(Yes /No): _____ _____
Accommodation Required (Yes /No) :_____

Date :
Place: **Signature of Applicant**

Head of the Institution / Department
(Signature & Seal)

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Hon'ble Vice Chancellor
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Lucknow (U.P.)

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TEQIP - III

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"EDWinXP and MIPEC PCB and RF Antenna Design Machine"

Duration: 25-29 November, 2019

Under Twinning with

Estd : 1946

The National Institute of Engineering
Manandavadi Road, Mysuru- 570008

In Association with

IEEE
REC Banda
IEEE Student Branch

Organized by

Department of Electrical Engineering
Rajkiya Engineering College Banda
Atarra, Banda, (U.P.) - 210201
Website : http://recbanda.ac.in

Technically Sponsored by

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Rajkiya Engineering College Banda

Rajkiya Engineering College Banda was established by the Government of Uttar Pradesh in the year 2010 with three branches, Electrical Engineering, Mechanical Engineering and Information Technology with an annual intake of Sixty (60) in each branch. The college is affiliated institute of Dr. A. P. J. Abdul Kalam Technical University, Lucknow (Formerly Uttar Pradesh Technical University, Lucknow). The college has moved to its own fully residential campus located at Atarra, Banda in July 2015 and all academic activities from the session 2015-16 are being carried out at its campus

Department of Electrical Engineering

The Department of Electrical Engineering at Rajkiya Engineering College Banda offers a vibrant environment for undergraduate education in Electrical Engineering. The department has well established laboratories for Power System, Electrical Machines, Power Electronics & Drives, Digital Electronics, Communication System, Control System, Instrumentation & Measurement and Microprocessor. The Department has well qualified faculty, most of them have their Masters and Ph.D. degree from IITs, NITs, Central & State Technical Universities.

The National Institute of Engineering

The National Institute of Engineering (NIE), established in the year 1946, today stands at 178th place among the top engineering college in the country that include IITs and NITs per NIRF-2019 announced by MHRD. NIE is a grant-in-aid institution and approved by the AICTE, New Delhi. NIE got autonomous status from Visvesvaraya Technological University, Belagavi in 2007. Five UG programmes – Civil Engineering, Mechanical Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Industrial & Production Engineering and two PG Programmes – Hydraulics and Production Engineering & System Technology have been accredited by the NBA, under Tier-I. It is one of the 14 colleges in Karnataka that has been recognized under MHRD-World bank sponsored TEQIP. All the Department of NIE are recognized Research Centre under VTU and AICTE for QIP. Currently, NIE offers 7 UG, 12 PG Programmes and has 15 Centres of Excellence. Many funded research projects of Central and State Governments, VTU and overseas universities are presently being carried out at NIE.

Course Outline

EDWinXP, the integrated solution in Electronics design world. Fast, Flexible, Ease of designing which takes a designer from Schematic to the fabrication within fraction of time with very less investment. EDWinXP is an fully integrated EDA software package for automated design of electronic products. This integrated tool covers all stages of electronic design process, schematic capture, simulation, PCB layout design, generation of PCB manufacturing and testing documentation.

EDWinXP comprise of Schematic Editor, Simulators-Mixed Mode Simulator and EDSpice simulator, PCB Layout Editor-Create the PCB Layout, Fabrication Manager-generate manufacturing output files for Photoplotter, NC Drill etc.

Course Contents

The important tentative lectures will be on the topics:

- Introduction to Circuit Simulation Software EDWinXP
- Schematic Capture and component selection
- Design and simulation of a analog circuit
- Design and simulation of characteristics of Diode, Transistor, FET using DC Analysis
- Design and simulation of Half wave and full wave rectifier circuits. Design and simulation of various Op-amp based active filter circuits
- Design and simulation of amplifier and perform various analysis like Transient, DC, AC, Parameter sweet, etc
- Design and simulation of various Digital combinational and sequential circuits by schematic capture
- Design and simulation of various Digital combinational and sequential circuits by VHDL
- Introduction to fundamentals of PCB Design and IPC Standards
- Introduction to Component Packages
- Component placement and routing on PCB using EDWinXP Software
- Introduction to PCB prototyping using MIPEC CNC Machine, Familiarization with Trackmaker CAM software and processing steps from Gerber data to CAM and production Gcode
- Single sided PCB design using MIPEC Machine
- Double Side PCB Design using MIPEC machine
- Implement one Single/Double side PCB project by using EDWinXP software and Making PCB using MIPEC machine and testing the same after soldering components

Eligible Participants

Faculty members/ research scholars/ PG & UG students from academic institutes approved by the AICTE/ UGC/ MHRD and Scientists/ Engineers working in Private/ Public/ Govt. organizations/ industries etc. can attend the course

How to Apply

Please send a scanned copy of the Registration form in the prescribed format on or before 20-11-2019. There is limited seat available for this Bootcamp. Candidates are short listed on first come first serve basis. Participants can also register online using the link:

SCAN ME

https://forms.gle/8fPix1qdJpKiQ7PYA