



सत्यमेव जयते

# NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR (NITRR)



## Welcome to Department of Electronics and Communication Engineering (ECE)

### Our Vision

To be a national leader in imparting quality education, carrying out research and technology development in the field of Electronics and Communication Engineering.

### Our Mission

To mould young students into rational thinking engineers. Transforming young students into engineers who are motivated by a passion for professional excellence. To produce engineers who are driven by human values and proactively engaged in betterment of society.

### About Us

Established in 1985, our department has a robust intake capacity of 114 undergraduate students and 24 postgraduate students. We offer a comprehensive range of programs, including a B.Tech. in Electronics and Communication Engineering, an M.Tech. in VLSI & Embedded Systems, and a Ph.D. program. Our department is proud of its esteemed faculty, comprising 18 members who bring extensive expertise and experience in their respective domains. This strong foundation ensures that our students receive a high-quality education and are well-prepared for their future careers.

### Testing and Consultancy Facilities Services

The department is open to provide consultancy, mentorship, S/W development service and, other innovative product service for Government sectors and Private Organization, not limited to:

<b>Analog Circuits</b>	CRO, Agilent DSO (100MHz), Workbench With DSO Function Generator, LCR Meter, Trainer Kit, Analog-Digital Trainer Kit, Neurosky Mind Wave Mobile
<b>Advanced Communication</b>	Internet of things (IoT) laboratory set-up; Analog and digital communication Modulation Trainer kits; SDR and Optical Fiber Communication Trainer Kits
<b>Computer Vision</b>	Sony Handy cam (Video Hi8, Digital 8), Imaging Evaluation kit C64x [A.T.E.M.E.], Webcam basic Multiprocessor Board
<b>Digital Electronics</b>	Trainer kits and instruments TMS320C6711 DSP kits, Scorbot-er 2u robotic arm, Transtech TSP36N multiprocessor board, Daytona software radio
<b>Microwave</b>	Microwave test benches, Ansys research HF package, PCB prototyping machine, VNA18 GHz), Microstrip trainer kits, Desktop workstation,
<b>Embedded System</b>	Texas Instruments ASLKV2010 Starter kit, ASLKV2010 Starter Kit MSP430 Launch Pads, MSP5529/5438 AM335x Sitara Kits, Beagle Board, Beagle Bone
<b>VLSI &amp; Microelectronics</b>	WorkStation HP Z440, Cadence IC6.15, Mentor Graphics Version10.5_4, Synopsys, Vivado and Xilinx Version 2016.2, Silvaco, SPARTAN-3AN, VERTEX -6, ARTIX-7, COMSOL Multiphysics, Cogenda Visual TCAD
<b>Digital Signal Processing</b>	NI USRP, Agilent Programmable arbitrary, Agilent 500 MHz Mixed Signal Oscilloscope, TI C6713 DSK, Code composer studio, LabView, RF Generator

## Join Us in Shaping the Future of Technology !!!

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