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National Institute of Technology, Raipur

राष्ट्रीय प्रौद्योगिकी संस्थान ,रायपुर

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Vision

Electrical Engineering department aims at imparting the state of the art knowledge and skills to the students. Thus, developing them into the excellent Electrical

Show more

Mission

The mission of the undergraduate program in Electrical Engineering is To provide students with a supportive environment that facilitates learning the advances in Electrical

Show more

Electrical Engineering

About Curriculum Laboratories Faculty Staff Testing Consultancy And Research

Syllabus Events Departmental Activities Placement Record Student Achievements

Virtual Tour

Welcome to Electrical Engineering Department

Year of Establishment: 1958

Intake: Under Graduate Programme – 115

Post Graduate Programme – 25 + 05 (sponsored)

Degrees Offered:

Under-Graduate Programme - B.Tech. (Electrical Engineering)

Post-Graduate Programme - M.Tech. (Power System and Control)

Doctor of Philosophy (Ph.D.) Programme – Electrical Engineering and allied areas

Vision: Electrical Engineering Department aims at imparting the state of the art know ledge and skills to the students, thus, developing them into excellent Electrical Engineers, Entrepreneurs, Scientists, and Academicians.

Mission:

The mission of Department of Electrical Engineering is;

To provide students with a conducive environment that facilitates learning the fundamental concepts in Electrical Engineering

To provide excellence in learning through dedicated teaching and innovative industrial projects

To impart the necessary skills and state-of-the-art knowledge in the relevant fields of Electrical Engineering

To imbibe self learning attitude and professional ethics

To prepare students to face the challenges in the emerging areas of Engineering and Technology

Programme Educational Objectives (PEOs)

To provide the necessary background in the field of Electrical Engineering to deal with challenges in Engineering and Technology.

To develop ability among students towards innovation and entrepreneurship that caters to the need of Industry and Society.

To develop technical skill set for solving real life problems.

To develop qualities like creativity, leadership, team work, and professional ethics for contributing towards the growth and development of society.

To inculcate an attitude for life long learning.

Programme Outcomes:

Engineering Graduates will be able to:

Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

Conduct investigations of complex problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Specific Outcomes (PSOs)

PSO 1: Graduates will be able to apply fundamental knowledge of Electrical & Electronics Engineering to identify, investigate and solve various real life problems.

PSO 2: Graduates will be able to design and develop systems in the emerging electrical and allied disciplines to meet out the industry challenges.

PSO 3: Graduates will be able to contribute significantly in terms of Electrical Engineering innovations to support sustainable development of society with professional and ethical responsibilities.

Major Achievements:

Best Department Award 2019 of NIT Raipur

DST-FIST 2019 (Level-I) Funding Awarded

Externally Sponsored Research Projects > Rs. 300 Lakhs (Last Five Years)

SCI/SCI-E Research Publications > 150 (Last Five Years)

Ph.D. Degrees Awarded > 25 (Last Five Years)

- NIT Raipur at a Glance (downloads/NIT Raipur at a Glance09112021.pdf)
- Unnat Bharat Abhiyan at NIT Raipur (UBA/index.html)
- Anti-Ragging System (antiraggingcommittee.php)
- Research Newsletter NIT Raipur (http://nitrr.ac.in/Researchnewsletter.php)
- National Academic Depository (NAD) (nad.php)
- NIT Raipur Library Discovery (http://search.ebscohost.com/login.aspx?profile=eds)
- Web OPAC (https://nitrropac.libsys10.in/home/dashboard)
- MIS (mis_new.php)
- Hindi Font (downloads/hindi_fonts.rar)
- MOOCs (http://moocs.nitrr.ac.in/)
- Terms & Condition (t&c.php)
- National and Industrial Collaboration cell (iiic.php)
- Year Wise Toppers List (yeartopperlist.php)
- NIT Act, Statues and Office Memorandum (NITstatutes.php)
- Institute Innovation and Start-up Policy (downloads/InstituteStartupPolicy_Final.pdf)
- Annual Reports (ann_report.php)
- Vision 2030 (Vision2030 .php)
- RTI Act (rtiact.php)
- MOUs (mous.php)
- TEQIP III (teqip_3.php)
- Shilpi (shilpi.php)
- NITRR Newsletter: MIRROR (newsletter.php) click to subscribe (subscribe.php)
- SWAYAM Free Online Education (https://swayam.gov.in/)
- Pledge Certificate (downloads/pledge cert 18.jpg)
- Institute Alumnus Awards (http://www.nitrr.ac.in/Alumni%20Awar
- E-booklet on COVID-related Research & Development works done by CFTIs NEW (downloads/Covid E Book.pdf)

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Azadi Ka Amrit Mahotsav

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