



RAJIV GANDHI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE and Affiliated to Pondicherry University)

(Accredited with 'A' Grade by NAAC)

(Sponsored by Sri Balaji Educational and Charitable Public Trust)

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PRINCIPAL

Offering of Skill Development Courses Approved by the Council

Rajiv Gandhi College of Engineering and Technology (RG CET), Puducherry, has envisioned offering a comprehensive array of skill development courses tailored to meet the evolving needs of engineering students and enhance their technical competencies and employability in the industry. Recognizing the importance of equipping students with practical skills alongside academic knowledge, RG CET has collaborated with the Skill Development Council of India to offer the following skill development courses:

Mechanical Engineering Courses:

1. Certificate Course in CAD/CAM (Computer-Aided Design/Computer-Aided Manufacturing): This course equips students with proficiency in CAD/CAM software tools used for designing and manufacturing purposes. It covers topics such as 2D drafting, 3D modeling, simulation, and CNC programming.
2. Diploma in Mechanical Engineering Technology: This diploma program focuses on imparting practical skills in mechanical engineering concepts, including materials, manufacturing processes, machine design, and maintenance.
3. Advanced Diploma in Industrial Automation: Designed to meet the growing demand for automation specialists, this advanced diploma program provides hands-on training in PLC programming, SCADA systems, robotics, and industrial control systems.

Electrical Engineering Courses:

1. Certificate Course in Electrical Design and Drafting: This course emphasizes electrical system design principles, including layout planning, circuit design, wiring diagrams, and drafting using industry-standard software tools.
2. Diploma in Electrical Engineering Technology: Students enrolled in this diploma program gain practical knowledge and skills in electrical engineering fundamentals, power generation, transmission, distribution, and electrical system troubleshooting.
3. Advanced Diploma in Power System Engineering: Focusing on advanced topics in power systems, this program covers areas such as power generation technologies, transmission line design, protection systems, and renewable energy integration.

1. Certificate Course in Structural Design and Analysis: This course provides students with expertise in structural engineering software tools for designing and analyzing various structural components, including beams, columns, and trusses.
2. Diploma in Civil Engineering Technology: Students learn practical aspects of civil engineering, including construction materials, surveying techniques, building codes, project management, and construction site supervision.
3. Advanced Diploma in Construction Management: Targeted towards students aspiring for managerial roles in the construction industry, this program covers project planning, scheduling, cost estimation, quality management, and safety regulations.

Electronics and Communication Engineering Courses:

1. Certificate Course in Embedded Systems Design: Students gain hands-on experience in embedded systems programming, microcontroller interfacing, sensor integration, and firmware development for real-time applications.
2. Diploma in Electronics and Communication Engineering Technology: This diploma program focuses on analog and digital electronics, communication systems, microprocessors, and electronic circuit design.
3. Advanced Diploma in VLSI Design and Technology: Students explore advanced concepts in VLSI design, including ASIC design flow, HDL programming, physical design, verification techniques, and FPGA prototyping.

Computer Science and Information Technology Courses:

1. Certificate Course in Web Development: Students learn web development technologies, including HTML, CSS, JavaScript, and server-side scripting languages like PHP or Python, along with database integration and web application deployment.
2. Diploma in Computer Science and Engineering Technology: This program covers a broad spectrum of computer science topics, including programming languages, data structures, algorithms, database management, networking, and software engineering principles.
3. Advanced Diploma in Cyber Security and Ethical Hacking: Designed to address the growing cybersecurity threats, this program equips students with skills in ethical hacking, penetration testing, network security, cryptography, and incident response.

Automobile Engineering Courses:

1. Certificate Course in Automobile Design and Engineering: This course covers automotive design principles, vehicle dynamics, engine technology, chassis design, safety regulations, and emerging trends in automotive engineering.
2. Diploma in Automobile Engineering Technology: Students learn about automotive systems, including powertrain, chassis, electrical systems, vehicle diagnostics, maintenance procedures, and automotive workshop practices.
3. Advanced Diploma in Automotive Electronics and Telematics: Focusing on advanced automotive technologies, this program covers topics such as vehicle electronics, telematics systems, vehicle networking, automotive embedded systems, and vehicle-to-vehicle communication.

Renewable Energy Courses:

1. Certificate Course in Solar Photovoltaic Design and Installation: This course covers solar energy fundamentals, photovoltaic system design, installation practices, performance monitoring, and maintenance of solar power systems.
2. Diploma in Renewable Energy Engineering: Students learn about various renewable energy sources, including solar, wind, hydro, and biomass energy, along with energy conversion technologies, energy storage systems, and grid integration.
3. Advanced Diploma in Wind Energy Technology: Focusing on wind energy systems, this program covers wind turbine design, aerodynamics, wind resource assessment, turbine installation, operation, maintenance, and grid integration.

These skill development courses offered by RG CET, in collaboration with the Skill Development Council of India, are meticulously designed to provide students with hands-on training, practical skills, and industry-relevant knowledge. By completing these courses, students not only enhance their employability but also contribute to the growth and competitiveness of the engineering industry in India.


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