A Great Start To Your Career in Engineering

Faculty of Engineering & Technology
REVA University has been established under the REVA University Act 2012 with the vision to instill awareness, a zeal for higher learning and direct curiosity through education.

REVA University was conceptualized with a view to enable change, a revitalization of the present Indian academic scenario. It breathes and practices the ideology of taking education to greater heights by touching each learner. The Founder of REVA University believes in the adage ‘Knowledge is Power’. Driven by this power of transforming lives, REVA thrives. Creating knowledge societies, building futures and imparting education.

An involvement of this level, that REVA exhibits is complemented and enhanced by its environs, a colossal landscape blanketed over 45 acres of land that is a standing testimony to inspiring learning and fluid exchange of ideas.

The University prides itself in contributing to every student’s holistic development. The University currently offers 33 full-time Under Graduate Programs, 24 full-time Post Graduate programs, 2 part-time Post Graduate programs, several Certificate/Diploma and Post Graduate Diploma programs in Engineering, Architecture, Science and Technology, Commerce, Management Studies, Law, Arts & Humanities and Performing Arts. Above all, the University facilitates research leading to Doctoral Degree in all disciplines. The programs offered by REVA University are well planned and designed based on in-depth analysis and research with emphasis on knowledge assimilation, practical applications, hands-on training, global and industrial relevance and their social significance.

REVA University believes in preparing students through Choice Based Credit System (CBCS) and Continuous Assessment and Grading Pattern (CAGP) of education. The CBCS & CAGP pattern of education have been introduced in all programs to enable students to opt for subjects of their choice in addition to the core subjects of study and prepare them with required skills. It also provides opportunities for students to earn more credits and thereby acquire additional Proficiency Certificates and Diplomas.

Teachers and instructors with illustrious and unparalleled experience in their respective academic domains and unequalled qualification are the architects of the meticulously and conscientiously designed curriculum and program modules offered at the University. The faculty renowned for their acumen is actively part of ongoing academic dialogue globally. They also come with industry involvement and links that is translated through their teaching, thus bridging the gap between industry and academia.

The ever evolving collection of books, journals and digital content in the library and the latest IT infrastructure, ensure that students have information at their disposal to explore. REVA University is celebrated for its well-equipped laboratories which aid students in their learning and research. The custom-built teaching facilities and classrooms, the indoor and outdoor sports and cultural facilities, the multi-cuisine food court, lung spaces for students to sit with nature and campus stores, provide students an encouraging learning environment.
Engineering remains one of the most sought after courses offered at REVA. Programs are imparted through different Schools of Engineering, making it an integrated and specialized learning environment. REVA has Schools of Civil, Computing & Information Technology, Mechanical, Electronics & Communication and Electrical & Electronics. A range of programs at Under Graduate, Post Graduate level and certificate and diploma courses are offered. Research studies have become the aspirational goal for engineering education at the University, with widespread Ph. D. programs and highly supportive infrastructure for scholars to excel.

All programs at REVA University are aligned with a vision to make the learning milieu dynamic and enjoyable without compromising on ethical responsibilities. In order to facilitate this proficient erudite and scholarly execution, programs have been designed with underlying objectives and outcomes; what students as learners and participants will achieve.

**Program Educational Objectives (PEOs)**

The programs offered by the Faculty of Engineering, help develop critical, analytical, innovative, creative and problem-solving abilities amongst its graduates. The programs make the graduates employable as engineers in the government and private sectors. Further education and earning of higher level degrees help graduates in pursuing a career in academics or scientific organizations as researchers.

The Program Educational Objectives are to prepare the students to:

- Be Engineers to work in the Government, Public and Private Sectors
- Act as administrators in public, private and government organizations with further training and education
- Pursue higher degrees to work in colleges, universities as professors or as scientists in research establishments or business administrators
- Be conversant with environmental, legal, cultural, social, ethical, public safety issues
- Work as a member of a team as well as lead a team
- Communicate effectively across team members and work under constraints
- Set his/her own enterprise with further training
- Adopt lifelong learning philosophy for continuous improvement

**Program Outcomes (POs)**

After undergoing these programs, a student will be able to:

- Conform to cultural, environmental, sustainability and ethical issues
- Communicate across teams verbally, visually and by writing
- Choose appropriate online program for further learning, participate in seminars and conferences
- An understanding of best practices and standards and their applications
- An ability to assist in the creation of an effective project plan.
B. Tech
Program Overview
B. Tech, Civil Engineering is an under graduate program structured to create motivated, innovative, creative and thinking graduates to fill the roles of civil engineers who can work on various infrastructure projects including construction of buildings. The curriculum of this program is outcome based and it comprises required theoretical concepts and practical skills in the domain.

Eligibility
- Pass in PUC / 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry / Biotechnology / Biology / Computer Science / Electronics / Technical Vocational subjects and obtained at least 45% marks (40% in case of candidate belonging to SC/ST category) in the above subjects taken together, of any Board recognized by the respective State Governments / Central Government / Union Territories or any other qualification recognized as equivalent there to.
- Good score in REVA University Engineering Entrance Test (REVA EET) or CET / COMED-K/ Uni- GAUGE or any other equivalent examination conducted by recognized Institute / Agency. (for lateral entry and for more details log on to University website www.reva.edu.in

M. Tech. in Computer Aided Structural Engineering
Program Overview
Structural engineering is a field of engineering dealing with the analysis and design of structures. Structural engineers are most commonly involved in the design of buildings. The complexity of modern structures often requires a great deal of creativity from the engineer to ensure the structures support and resist the loads they are subjected to. The role of a structural engineer demands a significant understanding of both static and dynamic loading. Presently, structural engineers need to combine traditional structural engineering expertise with an understanding of a wide range of issues related to design of zero carbon buildings. At present numerous computer aided design tools are available for design and analysis of structures as the structures have intricate shapes, sizes and subjected to complex loading patterns. It is essential that the present-day structural engineers need to develop expertise in use of these tools as they speed up design and optimization process.

M. Tech. in Transportation Engineering and Management
Program Overview
Transportation engineering is one of the major branches of civil engineering and it involves planning, design, construction, operation and maintenance of transportation facilities. The facilities support air, highway, railroad, pipeline, water, and even space transportation. Transportation engineering includes sizing of transportation facilities, selection of materials and design of pavement and geometry of roadway.

Eligibility
B. E / B. Tech in Civil Engineering with a minimum of 50% (45% in case of SC/ST) marks in aggregate of any recognized University or AMIE or any other qualification recognized as equivalent there to.

M. Tech. in Construction Technology & Management
Program Overview
Construction usually refers to the erection of large structures such as buildings, ship, airports, dams, roads, and bridges. By extension, Construction Technology and Management refers to the planning, coordination and successful implementation of such structures. Construction Technology and Management is a fusion of civil engineering and construction management. M.Tech degree in Construction Technology and Management is a 2-year program. M.Tech degree in Construction Technology and Management gives the students an insight into scientific principles involved in construction, understanding about the behavior of construction materials and the fundamentals of structural mechanics. Construction technologists should have good knowledge about different types of materials used for construction, along with testing procedures to assure quality control. The principles of drainage, water supply and distribution, heating and ventilation, and recycling of construction and demolition waste management. One can pursue an M. Tech degree in Construction Technology and Management after successful completion of B. Tech/B. E/AMIE or equivalent Degree in Civil Engineering.

Career Opportunities
- Project manger
- Executing manger
- Construction Manager
- Site administrator
- Entrepreneurs

Eligibility
(PGPEC/M) (Regular): Candidates with 40% percent marks in aggregate in Diploma /Bachelor's / Master's Degree of a recognized University are eligible for admission.

Diploma in Plumbing & Irrigation Systems in Civil Engineering
Program Overview
The high growth rate of the economy in India has spelt a boom in realty sector as well. With so much development taking place the need to have specialized plumbing and Irrigation systems services are very critical for the overall safety of the citizens and agriculture.

The plumbing industry strongly affirms that training and assessment leading to recognition of skills must be undertaken in a real or very closely simulated workplace environment and this qualification requires all units of competency to be delivered in this context.

Career Opportunities
- Agriculture, Lawns, Parks, amusement parks, landscaping needs Irrigation Systems.

Eligibility
Pass in 10TH STD/ PUC (10+2) of any recognized Board / Council or any other qualification recognized as equivalent there to.
Career Opportunities with courses

A Civil Engineer can work in any one of the following specialized areas:

1. Structural Engineering – buildings, dams, bridges, flyovers
2. Offshore Structures and Marine Engineering – docks, harbors, ports
3. Transportation Engineering – roads, traffic, railways, airports, urban transportation
4. Environmental Engineering – water supply networks, sewage, pollution effects
5. Geotechnical – mining, earthworks and construction foundations
6. Construction Technology – materials, equipment, costing and estimation
7. Hydrology and Irrigation Engineering – reservoirs, dams, canals, flood barriers
8. Fluid Mechanics and Hydraulics – dams, water-parks, pumps
9. Surveying – maps, drawings, plans, GIS, remote sensing
B. Tech. in Computer Science & Engineering

Program Overview

Computer Science Engineering (CSE) encompasses a variety of topics that relate to computation, like development of algorithms, analysis of algorithms, programming languages, software design and computer hardware. Computer Science engineering has roots in electrical engineering, mathematics, and linguistics. In the past, Computer Science was taught as part of mathematics or engineering departments and in the last 3 decades it has emerged as a separate engineering field. In the present information era (Knowledge era) computer science and engineering will see an exponential growth as the future machines work on artificial intelligence.

Eligibility

Full Time (Regular)
- Pass in PUC/10+2 examination with physics and mathematics as compulsory subjects along with one of the Chemistry/Biotechnology/Biology/Computer Science/Electronics Technical vocational subjects and obtained atleast 45% marks (40% in case of candidate belonging to SC/ST category) in the above subjects taken together, of any board recognized by the State Governments / Central Governments / Union Territories or any other qualification recognized as equivalent there to.
- Good score in REVA University Engineering Entrance Test (REVA EET)/JEE (main)/JEE (Advanced)/Karnataka CET/COMED-K / Uni- GAUGE or any other equivalent examination conducted by recognized institute/agency. (for lateral entry and for more details log on university website www.reva.edu.in)

Full Time (Lateral Entry)
- Passed Diploma examination from an AICTE approved institution with atleast 45% marks (40% in case of candidates belonging to SC/ST category) in appropriate branch of Engineering/Technology
- Passed B. Sc. Degree from a recognized University as defined by the UGC, with atleast 45% marks (40% in case of candidates belonging to SC/ST category) in appropriate branch of Engineering/Technology and passed XII standard with mathematics as a subject
- Provided that in case of students belonging to B. Sc. stream, shall pass the subjects of Engineering Graphics/Engineering Drawing and Engineering mathematics of the first year engineering program along with the second year subjects.

M. Tech. in Computer Science & Engineering

Program Overview

The M. Tech in Computer Science & Engineering requires study of Electronics and micro processes, CS & IT may not.

Career Opportunities

The career opportunities for computer science and information technology graduates are plenty and growing. Programming and software development, Data Scientists, Data Analysts, information systems operation and management, telecommunications and networking, computer science research, Quality assurance, Computer vision, web and Internet, graphics and multimedia, training and support, and computer industry specialists are some of the opportunities graduates can pursue.

M. Tech. in Data Sciences

Program Overview

Computers have become ubiquitous part of modern life, and new applications are introduced every day. The use of computer technologies is also commonplace in all types of organizations, in academia, research, industry, government, private and business organizations. As computers become even more pervasive, the potential for computer-related careers will continue to grow and the career paths in computer-related fields will become more diverse.

The program is offered on Full time as well as Part Time basis.

M. Tech. in Data Sciences

Program Overview

The M. Tech in Data Sciences program covers specialized areas in the field of IT industry and research. The program focuses on technologies managing huge traditional and non-traditional data including temporal, spatial and multi-dimensional data. It also focuses on cloud computing concepts that feature subjects as well as projects that typically involve construction and experimenta-

Career Opportunities

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Eligibility

Computer Science and Engineering
B.E./B. Tech. in ECE/IT/ECE/CSE/ISE/TE/MCA/M.Sc. in computer science or mathematics or information science or information technology with a minimum of 50% (45% in case of SC/ST category) marks in aggregate of any recognized university/institution or AMIE or any other qualification recognized as equivalent there to.

Data Sciences
B.E./B. Tech. in CSE/ISE/MCA/M.Sc. in computer science or mathematics or information science or information technology with a minimum of 50% (45% in case of SC/ST category) marks in aggregate of any recognized university/institution or AMIE or any other qualification recognized as equivalent there to.

Career Opportunities

- Placements in National and Multinational companies as software developers, network engineers, cyber security analysts, mobile applications developers, and data analysts
- Internships and higher education in reputed Indian and foreign universities.
- JRF and SRF at national institutes NIT's, IIIT's, IISc and reputed private and deemed to be universities.
- System engineers in public sector companies like BEL, HAL, NAL, ICR, ISRO, DRDO, etc.
- Setup IT services and product companies.
B. Tech. in Mechanical Engineering

Program Overview

B.Tech Mechanical Engineering is a core branch in the field of Engineering and Technology. Mechanical Engineers are responsible for the design, analysis, testing and manufacture of a wide variety of mechanical components and systems. Mechanical engineering use the principles of energy, materials, and mechanics to design and manufacture machines and devices of all types. They create the processes and systems that drive technology and industry. The role of a mechanical engineer is to take an idea to the prototype and marketplace. In order to accomplish this, a broad range of skills are needed. The school of mechanical engineering designed the curriculum as outcome based and provides practical skills and knowledge. There is a huge array of fascinating options to the students to choose interdisciplinary course, topics, innovative projects and internships as a part of curriculum. The school have many active clubs, advance teaching, excellence centres, enrich faculty members and R & D centre, all of which could lead to an exciting and fulfilling career.

Career Opportunities

B.Tech in Mechanical Engineering graduates have broad spectrum of job opportunities in Government as well as Private sector.

- A graduate mechanical engineer will work in Automotive and Aerospace company as design and analysis engineer
- Becoming a mechanical engineer could lead to work in range of companies related to Design and Development, Production and Manufacturing, Supply chain Management and research
- They may also work in mining, materials industry, oil and gas, Pharmaceutical, power generation, railway industry and robotic industry, Chemical industry, Construction industry, Defence industry . Fast moving consumer goods industry, Utilities industry, Agriculture and Food Industry, Marine Industry, Space craft, Steel and Thermal plants.
- Mechanical Engineer, can also work in the IT sector and there are many avenues to get into entrepreneurship.
- B.Tech graduates can get job in Government sector, organizations and departments like- Indian Railways, DRDO, Indian Armed Forces, ISRO, NTPC, ONGC, BHEL, PWD, NHAI, SAIL, IOC, State Wise Road Transport boards etc

Eligibility

- Pass in PUC / 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry / Biotechnology / Biology / Computer Science / Electronics / Technical Vocational subjects and obtained at least 45% marks (40% in case of candidate belonging to SC/ST category) in the above subjects taken together, of any Board recognized by the respective State Governments / Central Government / Union Territories or any other qualification recognized as equivalent there to.
- Good score in REVA University Engineering Entrance Test (REVA EET) or CET / COMED-K / Uni-GAUGE or any other equivalent examination conducted by recognized Institute / Agency. (for lateral entry and for more details log on to University website www.reva.edu.in

M. Tech. in Machine Design

Program Overview

Machine Design is about recognizing the need, arriving at specifications, synthesis, analysis, prototyping, evaluation and producing drawings for manufacturing. Machine Design engineers work in the domains of automotive engineering, aerospace engineering, machine tool, internal combustion engines, cement industry, steel industry, power sector, hydraulics, manufacturing plants and many more. Nowadays they are increasingly need in the environmental and bio-medical fields. There are exciting times ahead for design engineers as transport technologies like hyper loop, electric vehicles, flying cars, drone technologies, intelligent system like robots and additive manufacturing including 3D printing are gaining importance. These mechanical engineering domain need machine design engineers to create machines that not only meet the functional, aesthetic, ergonomic requirements but also be economical to operate and maintain, sustainable and intelligent. The program is designed with practical oriented curriculum.

Eligibility

B. E / B. Tech in Mechanical/Aeronautical / Automobile / Industrial Production Engineering with a minimum of 50% (45% in case of candidate belonging to SC/ST category) marks in aggregate, of any recognized University/Institution or AMIE or any other qualification recognized as equivalent there to.
Career Opportunities

M.Tech in Machine Design will have ample of opportunities in different domains.

- M.Tech in Machine Design graduates can get jobs in government organizations like DRDO, ISRO, HAL, NAL, CSIR and other institutions.
- Many OEM’s, MNCs and private companies like SAFRAN, ALTAIR, GE, BOEING, AIRBUS, TATA MOTERS, MERCEDES BENZ etc, are looking for the dynamic post graduated candidates specialized in Machine Design with CAE based software packages.
- Machine Design graduates can also become design consultant as well as entrepreneurs.
B. Tech. in Electronics & Communication Engineering

Program Overview

The B. Tech in Electronics and Communication Engineering curriculum developed by the faculty at the School of Electronics and Communication Engineering, is outcome based and it comprises required theoretical concepts and practical skills in the domain. In addition, students are trained in interdisciplinary topics and attitudinal skills to enhance their scope. The above mentioned features of the program, advanced teaching and learning resources, and experience of the faculty members with their strong connections with Electronics and Communications sector makes this program unique.

Eligibility

- Pass in PUC / 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry / Biotechnology / Biology / Computer Science / Electronics / Technical Vocational subjects and obtained at least 45% marks (40% in case of candidate belonging to SC/ST category) in the above subjects taken together, of any Board recognized by the respective State Governments / Central Government / Union Territories or any other qualification recognized as equivalent there to.
- Good score in REVA University Engineering Entrance Test (REVA EET) or CET / COMED-K/ Uni-GAUGE or any other equivalent examination conducted by recognized Institute / Agency. (for lateral entry and for more details log on to University website www.reva.edu.in

B. Tech. in Electronics and Computer Engineering

Program Overview

B. Tech in Electronics and Computer Engineering (ECM) program is designed to provide quality education imparting skills on both Electronics hardware, software and IT development. Envisaging the current requirements to build smart systems for the smart nation, B. Tech ECM offers the study related to smart programmable electronics that encompass the rapid growth in telecommunications systems, consumer electronics and computer based designs keeping electronic and microelectronic embedded systems at the core of these developments. Developed in response to the needs of such industries, this program renders advanced level knowledge and skills in the design of complex software enabled electronic and microelectronic hardware systems. To meet this demand, the curriculum has been specifically designed in consultation with technocrats from relevant industries. This program brings in the advantage of both Electronics and Computer Science as a good mix of study which becomes the core knowledge required in current industry sectors to build smart intelligent systems. The program aids the learner to study electronics hardware that acquire, process, store and transmit signals with a blend of software development to take intelligent decisions by the use advanced computer science technologies such as big data analytics, artificial intelligence, machine learning and deep learning. The difference between B. Tech CSE and B. Tech ECM is that the latter will have the advantage of studying fundamentals of Electronics hardware design rather than only focusing on programming and IT aspects. In the future, graduates having this nature of co-design skill sets are required in large number of industries.

Eligibility

- Pass in PUC / 10+2 examination with Physics and Mathematics as compulsory subjects along with one of the Chemistry / Biotechnology / Biology / Computer Science / Electronics / Technical Vocational subjects and obtained at least 45% marks (40% in case of candidate belonging to SC/ST category) in the above subjects taken together, of any Board recognized by the respective State Governments / Central Government / Union Territories or any other qualification recognized as equivalent there to.
- Good score in REVA University Engineering Entrance Test (REVA EET) or CET / COMED-K/ Uni-GAUGE or any other equivalent examination conducted by recognized Institute / Agency. (for lateral entry and for more details log on to University website www.reva.edu.in

M. Tech. in VLSI and Embedded Systems

Program Overview

The M. Tech program builds theoretical foundation through courses like Digital VLSI design, High speed VLSI design, Low power VLSI Design, Analog and mixed mode design, system on chip design. The practice includes skill development in both Front end & Back end designs, verification and testing. The program also offers strong knowledge and practical skills in developing embedded solutions on varied platforms such as FPGA, Advanced microcontrollers and processors. The students learn to implement real-time embedded systems. The designers gain practical knowledge through mini and major projects in both VLSI and Embedded system design domains.

The program is offered on Full time as well as Part Time basis.

M. Tech. in Digital Communication and Networking

Program Overview

M. Tech. in Digital Communication & Networking has been structured to provide an in-depth knowledge to students of Electronics and Communication Engineering in various subjects like Advanced Digital Communication, Advanced Embedded System, Antenna Theory and Design, Digital Electronics, Error Control and Coding, Advanced Computer Networking and Linear Algebra. The specialized soft core courses like RF Design, Wireless & Mobile Network, Advances in Communication, Real Time Operating System being offered will help students to specialize in different areas of their interest and industry needs.

Eligibility

M. Tech. in Digital Communication & Networking requires a B.E/B. Tech. in ECE / TE / EEE / CSE / ISE / Instrumentation Technology / Medical Electronics/M. Sc. in Electronics with a minimum of 50% (48% in case of SC/ST) marks in aggregate of any recognized University/Institution or AMIE or any other qualification recognized as equivalent there to.
Career Opportunities

Electronics & Communication Engineering is a good career choice for those who have vigorous zeal to pursue a career either in the making of electronic equipment or in communication sector. In the last few years, the Electronics and Telecommunication sector has seen tremendous growth in the market. According to a collective survey by ASSOCHAM and NEC Corp, the electronics market of India is predicted to reach $400 billion by the year 2020 with a 41% growth rate between 2019-2022.

ECE graduates can pursue a career in industries like manufacturing, consumer electronics manufacturing, digital telecommunication industry, IT, healthcare tools manufacturing, mobile communication sector, power electronics, consumer electronics, electricity generation and distribution, transportation, aviation and avionics, computer applications, radio and television, manufacturing and offshore industries, IT industries, healthcare sectors, entertainment and multi-media, defense and any other industry where the job profile matches with organization’s scope of work.

Electronic Engineer - With the emerging rise in the electronics industry, new leading firms are springing up to deliver the needs to the consumer market. The profile of electronics engineer has a great demand in the market that has created a lot of opportunities for ECE aspirants.

Electronics and Communication Engineer - ECE graduates tend to supervise work by conceptualizing, outline, and testing part. ECE students could also pursue communications, networking, and broadcast, transmission systems work area. They mainly work to consolidate electronics and/or look into the communication network framework that they develop.

Electronics Design & Development Engineer - Electronics design and development is one of the most preferred choices of position to offer to fresh ECE graduates who want to pursue a career electronic designing and development field.

Desktop Support Engineer - The profile of Desktop Support Engineer is required a career in every IT and non-IT company.

System Control Engineer - A System control engineer's job includes a general-purpose potential to inspect and design complicated systems that may have technical components. System control engineers are often recruited as technical supervisors, system control managers etc.

Since the Electronics & Communication Engineering stream not only offers a lucrative package to deserving candidates, but also provide optimistic organizational growth.
B. Tech. in Electrical & Electronics Engineering

Program Overview

B. Tech in Electrical & Electronics Engineering (EE) is a discipline of engineering that utilizes natural resources for generation, transmission and utilization of electric power. In addition, electrical engineering deals with design, analysis, prototyping, manufacturing, and maintenance of electrical generators, electric motors, transformers, transmission and distribution equipment, electric wiring, lighting and electrical appliances. In the recent past, the use of electronics for control of electrical systems is gaining importance and the discipline is known as Electrical and Electronic Engineering instead of pure Electrical Engineering. B. Tech. program offered at REVA encompasses all the tools and practices relevant to making a great Engineer of a progressive future.

M. Tech. in Power and Energy Systems

Program Overview

Electrical Engineering is a discipline of engineering that utilizes natural resources for generation, transmission and utilization of electric power. The growth of power sector in India and the world is creating a demand for specialist Power and Energy Systems engineers in turn increasing the demand for this program offered at REVA.

Career Opportunities with courses

Responsibilities

An electrical or electronics engineer will be involved with designing, developing and maintaining electrical control systems, machinery and equipment. Electrical, Electronics and Computer engineers could work in a very wide range of sectors, including transport networks, power generation, transmission and distribution, manufacturing, building services, telecommunications, software development, process automation as well as scientific and military research.

Skills

- Commercial awareness;
- Oral and written communication skills;
- An enthusiasm for your subject and up-to-date sector knowledge;
- Planning and organizational skills, such as time and resource allocation;
- The ability to work in a multidisciplinary team;
- Trained on Power Plant Technology, PLC, SCADA, HMI, DCS, INSTRUMENTATION, MOTORS & DRIVES, AUTOCAD & PANEL DESIGN

Electrical Engineer Job Duties

- Carrying out feasibility studies for new technical innovations
- Drawing up plans using computer-assisted engineering and design software.
- Estimating material, construction, and labour costs, and project timescales
- Coordinating technicians and craftspersons
- Testing installations and systems, and analysing data
- Making sure projects meet electrical and construction safety regulations
- Overseeing inspection and maintenance programmes

Computers - Developing algorithms to solve complex functions, developing simulation tools to simulate the entire system, applications to SMART grid.

Power sector - To design robust power system, to implement measures to keep the system secure, to maintain quality of power, to mitigate harmonics & damp oscillations, to maintain the steady state power system operation, to application of FACTS devices to maintain the reactive power for maximum power transfer, to design protective measures using relays and circuit breaker etc.

Renewable energy sources - to harness power from renewable sources using power electronics devices, to study integration of these sources with the grid, to study the grid integration issues and provide remedial measures for smooth operation & integration of renewable energy systems.
Power Electronics - design of compact, robust and highly efficient power supplies, battery energy storage system, ultra-capacitor applications, aerospace power requirements, UPS, applications in power system using FACTS devices, interconnection of two regions via HVDC link, design highly efficient drives system for industrial applications.

Jr. Design/ CAD Engineer Automotive Industry - Knowledge of Design software such as AUTOCAD and Revit, Automotive Product Design, Automotive Interior/Exterior Trims In-depth understanding about Plastics, GD&T, Drawing Standards, Reverse Engineering, Jigs & Fixtures.

Design Engineer - Aerospace Experience in commercial, business class jet interior design of Aircraft Structures and Mechanical Systems Concept Design and Manufacturing Drawing Creation of Parts & Assemblies.

Electrical Construction Engineer - Erection, Testing, Commissioning of Electrical Systems for large refineries, chemical, fertilizer plants, etc.
Personalized Mentoring

- Personalized mentoring to students for career advancement and life skills.
- Regular interaction with parents through ERP, WhatsApp, Calls to update them on progress of their wards.
- Periodic Parent teacher meetings.

Infrastructure

- State of the art infrastructure in terms of Labs, Classrooms, Computing Power, Faculty rooms, and Internet facility.
- Labs and Libraries: School specific labs and libraries constitute a highly specialized study and self-exploration culture among students and faculty.
- Digitization in campus: Engineering courses are well equipped with complementing technological support, with green technology at the center of all practices.

Placements

- Specialized Trainings on technical and soft skills from semester 1.
- Exposure to Internships, MOOCs, Global certifications, Projects for better employability.
- Opportunities to interact with Industry Experts, Foreign University Delegates for exposure.

Skill Development and Entrepreneurship

- 30 hours of skill based programs are conducted in a semester on varied emerging areas of different fields of engineering.
- Incubation and Innovation center has been established in the campus created to enhance entrepreneurship skills.
- Life skills imparted through open electives and workshops and cultural and sports contest.
- Promotion for higher education and competitive exams.
- Industry visits and invited talks from industry experts.

Curriculum and Delivery

- Choice based credit system is employed.
- Curriculum set up by industry experts and best academicians from India and abroad meeting 80% industry requirements.
- Teachers deliver the courses through experimental and project based learning.
- Support for project development, internship, MOOCs and certifications.
- Encouragement for abroad internships, twinning exchange programs with abroad universities, and credit transfer.
- Various clubs are formed in each school of engineering to impart specialized skills based on current trend in the area and keeping students' passion for learning in mind.
- Project exhibitions, Seminars, Paper presentation, Webinars and IPR awareness are conducted.
- LMS is employed for course monitoring and delivery.
University - Industry Interactions (UIIC)

The REVA UIIC (University- Industry Interaction Centre) is a strategic centre committed to work as a catalyst for promoting collaboration amongst academicians, scientists and industrialists to achieve competitiveness in developing the technical manpower for socio-economic advancement under present global climate of upheavals and competition. Various cells and associations like IPR, IEDC are formed to apply the ideals of this centre effectively.

REVA EXPO

An Annual affair, REVA EXPO brings in the culture of showcasing ideas and talents of final year students of Engineering & Technology through project exhibition and poster presentation. It is a unique opportunity for parents and student aspirants to visit various departments of REVA University and consult professors, scholars and students, who can guide them on current trends in academia, industry, research and innovations. This also becomes a great platform for industry interaction. Reputed public sector organizations like ISRO, CSIR-NAL, ADA, BEML, BEL and SLN technologies exhibit their products and interact with students on Technology and Innovation trends. Students get an opportunity to exchange ideas with Training institutes such as QCD, Samarthan trust, Manya group, investment mentoring and successful start-ups like Kassia, DEXTEROS and ICT.

REVA NEST

India is one of the leading countries in the world for sustaining an enriching startup ecosystem. Universities have become crucial in supporting and initiating these startups as the mainstay of idea formation and growth. REVA has its own incubation Centre- REVA NEST; where students incubate their ideas, technology and get state-of-the-art infrastructure and management support to watch it grow, from direct industry involvement to taking their ideation to the world, all stages of planning and execution are provided for budding entrepreneurs.

CENTRE OF EXCELLENCE

Toyota Centre of Excellence is the result of a progressive and mutual academia-industry collaboration. Students here interact and build upon the most contemporary automotive technology. This also gives them an opening to get practical exposure and come face to face with their material and industry experts.
Research in Engineering

Program Overview
Research in REVA University is regarded as one of the most important activities besides teaching and learning. As research activities lead to new path breaking technologies enabling progress in all aspects research & Innovation will ultimately benefit the overall development of the nation. The technology will pave the path of self-sustainment and better utilization of resources around us. The University therefore commits itself to providing the best of ambience for research.

Areas of Research

Electronics and Communications: MEMS, Nano Electronics, Cognitive Radio, Underwater Wireless Communications, Aviation Electronics, VLSI.


Mechanical Engineering: Bio-fuels, emission study of engines, Nano technology for coatings, composites, vibration analysis, and virtual lab.


Electrical and Electronics Engineering: Electric Vehicle, ultra-capacitor applications in EV, Multilevel inverter applications, Battery Management system, Micro Grid, LED lightings, Renewable Energy Sources and active filter.

Research & Innovation Club
Research and Innovation club is started to identify and nurture young talents to take up interdisciplinary projects. Students across schools are encouraged to work on projects of interdisciplinary nature under the guidance of faculty mentors. Promotion of Scientific temperament and multidisciplinary research among students is the main agenda of Research & Innovation club. Motivated students mentored by faculty across all disciplines come together on a common platform with a mission to take up tasks of common interests. Students participate in competitions like Hackathon, Android development, IOT applications, SAE-competitions and have won accolades in various national championships.

Eligibility
Subject to the conditions stipulated in these Regulations, the following individuals are eligible to seek admission to the Ph.D. program:

- Candidates for admission to the Ph. D. program shall have a Master’s degree or a professional degree declared equivalent to the Master’s degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate or its equivalent grade ‘B’ in the UGC 7-point scale (or an equivalent grade in a point scale) or an equivalent degree from a foreign educational Institution accredited by the approved Assessment and Accreditation Agency.
- Candidates who have cleared the M. Phil course work with at least 55% marks in aggregate or its equivalent grade ‘B’ in the UGC 7-point scale (or an equivalent grade in a point scale) and successfully completed the M. Phil. Degree;
- A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, is allowed for those belonging to SC/ST/OBC (non-creamy layer) /differently-abled and other categories of candidates;

Duration of the Program

- The minimum duration for Ph. D. program is 3 years, including course work. However, extension up to 6 years period of registration beyond the above limits shall be permitted based on the recommendation of the concerned Research Supervisor.
REVA Way of Life

LIBRARY AND INFORMATION CENTRE
- Browse through lakhs of books in libraries

OPEN AIR THEATRE
- Always brings a variety of Cultural programs by different groups of students

SPORTS
- Outdoor and indoor sports facilities

DIGITAL CLASS ROOMS AND LABORATORIES
- Well-equipped with modern gadgets and digital facilities

FITNESS
- Multi-gym station helps students exercise and keeps them fit and healthy.

AUDITORIUM AND SEMINAR HALLS
- Adequate number of auditorium and seminar halls to facilitate such curricular and co-curricular activities.

STUDENTS’ CLUBS
- Literary Club, Science clubs, Sports club, Robotics, Eco club, Quiz club, Dance and Drama club

GREEN CAMPUS WITH OPEN AIR AMPHITHEATER
- It keeps the campus cool and fills it with fresh and clean air

TRANSPORTATION
- Routes through all parts of Bengaluru city

HOSTELS
- Home away from home

GUEST HOUSE
- ATTITHI provides rooms for parents and visitors

FOOD COURT
- North Indian, South Indian, Chinese Dishes, Ice Cream, Juices and Beverages

NCC & VOLUNTARY WORK
- NCC Students and other volunteers involve in social work, such as, organising medical camps, blood donation camps, camps in rural areas

BRAND STORE
- Variety of REVA branded merchandise, apparels, University hoodies, gift articles, and a wide range of stationeries.
Under Graduate Programs

♦ B.Tech.
  Computer Science
  Computer Science and Information Technology
  Electronics and Communication
  Electronics and Computer
  Mechanical | Civil
  Electrical and Electronics
  Electrical and Computer

♦ B.Arch.

♦ B.A., LL. B. (Hons.)  ♦ B.B.A., LL. B. (Hons.)

♦ BBA
  Industry Integrated
  Honours
  Aviation
  Entrepreneurship
  Retail Management

♦ B. Com
  Industry Integrated
  Honours
  Capital Market

♦ BCA

♦ B. Sc.
  Mathematics, Statistics, Computer Science
  Physics, Mathematics, Chemistry
  Physics, Mathematics, Computer Science
  Mathematics, Computer Science, Economics
  Mathematics, Statistics, Physics
  Biotechnology, Biochemistry, Genetics
  Biotechnology, Chemistry, Microbiology
  Biotechnology, Biochemistry, Microbiology
  Medical Laboratory Technology (BMLT)
  Bioinformatics | Research

♦ B. A.
  Journalism, English, Psychology
  Political Science, Economics, Journalism
  Performing Arts, English, Psychology

Research Programs

♦ Ph. D.
  Engineering | Management Studies | Commerce | Science and Technology | Arts and Humanities

Post Graduate Programs

♦ M.Tech. (Full time and Part time)

♦ MBA
  Marketing | Finance
  Human Resource
  Entrepreneurship
  Media & Mass Communication
  Banking and Insurance
  International Business
  Operation Management

♦ MCA ♦ M. Com ♦ LL. M. (One Year)

♦ MS in Computer Science

♦ M. Sc.
  Biochemistry
  Biotechnology
  Chemistry
  Mathematics
  Physics

♦ M. A.
  English
  Journalism & Communication

♦ MPA
  Bharatanatyam
  Kuchipudi
  Mohiniyattam

Diploma / PG Diploma Programs

♦ Diploma in Kuchipudi | Bharatanatyam
♦ Diploma in Plumbing & Irrigation Systems
♦ Diploma in Medical Laboratory Technology (DMLT)
♦ PG Diploma in Clinical Research Management in association with Clini India
♦ PG Diploma on Functional Genomics and Bioinformatics
♦ PG Program in Entrepreneurship & Construction Management