Electrical and Electronics Engineering

Importance of the course

Electrical and Electronics Engineering (EEE) is a fascinating field, which could make a challenging, enriching and rewarding experience and is an evergreen branch of all engineering disciplines. Just as the world needs its Doctors, Nurses and Teachers, EEE is something which we simply couldn't do without and it is a branch without which the world goes dark. From the Global Positioning System to electric power generation, electrical engineers have contributed to the development of a wide range of technologies. They design, develop, test, and supervise the deployment of electrical systems and electronic devices in the design of telecommunication systems, the operation of electric power stations, the lighting and wiring of buildings, the design of household appliances, or the electrical control of industrial machinery. Fundamentals to this discipline are the sciences of physics and mathematics as these help to obtain both a qualitative and quantitative description of how such systems will work. Today most engineering work involves the use of computers and it is common place to use computer-aided design programs when designing electrical systems. Perhaps the most important technical skills for electrical engineers are reflected in the college programs, which emphasize strong numerical skills, computer literacy, and the ability to understand the technical language, and concepts that relate to electrical and electronics engineering.

Placement Details

S.No	Academic Year	No. of Students placed	No of offers	No .of Companies visited	Average salary package
1	2020	51	73	10	3.61 LPA
2	2019	56	77	18	2.84 LPA
3	2018	54	58	29	3.13 LPA

Student's testimonials

It gives me immense pleasure to pen down my testimonial about GPREC. I consider GPREC to be a great choice where the budding students can learn, mould themselves and excel in their skills. Balancing both academics and extracurricular activities is made with much ease by innovative teaching, support from well qualified faculty and establishment of different student forums.

Being a Tech-Enthusiast, I stepped into IEEE, which helped me to grow my Technical and Professional skills in leaps and bounds. My zeal to learn new things and sharing knowledge eventually transformed me from a student to a Resource Person of Student-Driven Workshops on themes like Graphic Designing, Visual Effects, AR-VR. In fact these skills of mine are the sole reason to get placed in three MNC's namely TCS, Cognizant and Wipro and two Multimedia Companies. I am so glad and thankful to the staff of EEE Department for their relentless support throughout my Bachelor's degree. At the

end of the day, I would like to conclude that being passionate about something and by utilizing the college facilities efficiently; one can achieve their future endeavours.

K Chakradhar, B.Tech EEE, Class of 2020

I am fortunate enough and feel very happy and proud to be graduated in EEE from a reputed Engineering college, GPREC. It not only provided me technical knowledge and also made me to get fit in society with human values. The department of EEE at GPREC is the best platform I got to discover myself in all aspects. And It is every one dream to get a core job, but my dream has been fulfilled by the support I got from my depatment in GPREC college, I got placed in two software jobs – TCS and CTS. Currently I am working as a SOFTWARE ENGINEER in cts, BENGALURU, and the things I learnt from my college are the steps to my career growth.

Being a tech graduate I have learnt many things during my course of study, immense subject knowledge of faculty is obviously a unique factor for EEE dept at GPREC. As an IEEE member since my 2 year of graduate in EEE at GPREC I have learnt many skills such as organizational, technical, leadership skills etc that paved me the path for my dream job.

Ms. Shaik Suraiah Thaseen, B.Tech EEE, Class of 2017

I always believed that choosing engineering is one of the wisest decisions I ever made, also pursuing my Under Graduation (Electrical & Electronics Engineering) at the reputed G. Pulla Reddy Engineering College, added strength to my belief. Our department also encourages students to involve in multi-disciplinary projects, which help to gain diverse perspectives, knowledge, and skills. I got down pat over my leadership skills, management skills and public speaking skills by being an active volunteer at various student forums such as IEEE, IE (I) & E-cell during my graduation. Apart from the academics, the IEEE GPREC Student Branch of our college helped me to grasp the essence of professionalism and adequate teamwork. Finally, I wish to conclude that our college provides numerous resources to each and every student equally. The best way to utilize them is possible only if you're good enough to identify your goal.

Yarlagadda Dharani Srinivas B.Tech EEE, Class of 2020

Career path for Electrical & Electronics Engineers

Electrical and Electronics engineers use physics, electronics and electromagnetism to design devices that are powered by or produce electricity. Electrical engineers work on anything from small pocket devices to large aircraft electrical systems. Engineers test prototypes and evaluate and improve systems. Nearly every industry has a place for an electrical engineer, including government, transportation, communications, technology and utilities.

Electrical and Electronics engineers are more than just system designers and developers. Engineers are involved in projects from conceptualization to maintenance. Engineers handle practicalities by conducting feasibility studies and cost analyses. Because of their multifaceted duties, electrical and electronics engineers sometimes specialize in project management, research and development or consultancy. Because of the wide range of industries using electrical engineers, many engineers specialize in sub-discipline of electrical engineering. Common sub-disciplines include:

Depending on background and expertise, engineering projects can include projects such as developing telecommunication systems, lighting and wiring buildings or designing household appliances. To progress in this rapidly changing field, engineers must remain abreast of current trends.

- Power
- Control
- Electronics
- Microelectronics
- Signal processing
- Communication
- Instrumentation
- Computers

Some well known career paths for Electrical & Electronics Engineers

Govt sector:
Government Jobs, Jobs in PSU's Electrical Engineer, Aerospace applications Engineers, Nuclear power corporation engineer, Electrical Maintenance Engineer, Production related Electrical Engineer, Marine applications Engineer.

Engineering/Core Companies: Hyundai Motors, Hyundai Mobis, Cyient, Thomson Reuters, KIA Motors, L&T ECC, Toshiba, Avaya, MedhaServo Drives, SL Lumax, Nomus Comm-Systems, Triveni Turbines, Efftronics, Schneider Electric, SoCtronics, Thingtronics, Cummins, Soliton technologies, Mold-Tek, Tubacex.

IT Sector companies: Tata Consultancy Services (TCS), Cognizant (CTS), Infosys, IBM, Wipro, DXC, Value labs, GGK Technologies, Mphasis, Mindtree, NTT data, Syntel, Opentext, EZE software, HARMAN, Aptean, Principal Global, Virtusa, Capgemini, Huawei Technologies, Tech Mahindra, Robert Bosch, Mu-Sigma, L&T Technology Services, Intel, Amazon, Redpine Signals, Broadcom, HCL, ProKarma, Six-DEE Technologies, Sonata Software, Ktree, Riktam technologies, Optum.