Program Educational Objectives (PEOs)

The main objective of the B.Tech. programme in Electrical and Electronics Engineering is to prepare students for either one or more of the following:

1. graduate study
2. research and development work in government or industrial laboratories
3. work in power sector and public sector undertakings
4. work in electronic circuit design and fabrication industries
5. work in IT and ITES industries

Programme outcomes POs:

The students who have undergone the programme

1. will have an ability to apply knowledge of mathematics and science in electrical engineering problem.

2. will have an ability to identify the problems and provide solutions by designing and conducting experiments, interpreting and analysing data, and reporting the results.

3. will have comprehensive understanding of the entire range of electronic/Power electronic devices available.

4. will be able to control and convert power for industrial applications from their knowledge and exposure on different configurations into which the devices are connected.

5. will have in-depth knowledge in transmission and distribution systems, power system analysis and protection systems, which will be a shot in the arm of the students who wish to pursue a career in the power sector.

6. will have a good knowledge in data structures, object oriented programming, operating systems and computer architecture.

7. will have an ability to use the techniques & skills on modern Electrical & Electronics engineering software tools such as MATLAB, PSCAD, PSIM, PROTEUS VSM, ETAP, MiPOWER, OrCAD etc., for engineering practice.

8. will have a sound knowledge in the areas of analog and digital Electronics with added state-of art knowledge on VLSI systems.

9. will be able to take up projects related to electrical and electronic hardware implementations.

10. will be able to develop application programs related to modelling, simulation, instrumentation and control of engineering systems.

11. will have an ability to participate as members of engineering and science laboratory teams as well as members of multidisciplinary design teams.

12.will demonstrate the ability to choose and apply appropriate resource management technique/s so as to optimally utilize the resources available.

13.will be proficient in English language in both verbal and written forms which will enable them to compete with graduates of international engineering institutions.

14.will have the confidence to apply engineering solutions in global and societal contexts.

15. should be capable of self-education and clearly understand the value of achieving perfection in their professional endeavours.

16. will understand and uphold professional, ethical and social responsibilities.

17. will be able to design and build renewable energy systems for developing clean energy and sustainable technologies.