





TIRUMALA ENGINEERING COLLEGE

An ISO 9001:2015 Certified Institution, Accredited by NAAC & NBA

(Approved by AICTE, New Delhi & Affiliated to JNTU, Kakinada)

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Innovations by the Faculty in Teaching and Learning

Teaching methodology	Real time usage of teaching methodology
<p><u>Learning by Classroom Presentation</u></p> <ol style="list-style-type: none"> 1) Audiovisual aids, chalk, and board are used by the faculty for teaching. 2) Students are encouraged to clarify their doubts, during the lecture hour itself. 3) Tutorial Sessions for Problem-Oriented subjects are done by two faculty members. 4) During the lecture hour, first 5 minutes are used for revising topics taught in the previous class that too done by the students and the last 5 minutes is used to give a summary of the current class. Hence the students will get continuity of the previous day topics 	 <p>Mr.N.Saipavan Kumar, explaining the topics in EM-I to 2nd year EEE Students using Black Board</p>
<p><u>Application Based Learning</u></p> <ol style="list-style-type: none"> 1) Students are encouraged to attend workshops from 2nd year onwards. As an outcome of the workshop, interested students will develop Projects/ mini Projects at the end of the workshop. 2) All third-year students are encouraged to do mini projects and are asked to submit the same before the commencement of exams. 3) Students are encouraged for an internship in the industry during vacations. Students are taken to industrial visit at least once a semester to see the real-time operation 	 <p>Automatic Room Control System using Android mini project kit</p>

Practical Learning

- 1) Practical exercises are taught in the laboratory.
- 2) In addition to the experiments given in the syllabus, students are instructed to practice additional experiments as suggested by the concerned by the faculty
- 3) Laboratories are accessible for the students during the scheduled periods and also during leisure hours for doing experiments.
- 4) Charts are displayed in laboratories through which the students can gain a basic idea about different equipments in relevant subject



Mr. Jayaraju explaining about the Working of DC shunt motor

Hi-tech classroom

- a) All classrooms are equipped with projector facility.
- b) All laboratories and classrooms have Wi-Fi access



Dr. M. Manoj Kumar, Explaining the concepts in FACTS to 4th Year EEE Students by ICT tools

Other Innovative Teaching methods adopted by the faculty

Real-Time Demonstration Models are displayed in laboratories.

Industry Projects— Students are encouraged and guided by faculty members to do real time projects in various industries during their final semester.

Online courses – Online courses are being conducted through NPTEL online courses and Google classrooms so that students can post and clear their doubts at any time without hesitation and can download course materials.



M. Venkata srikanth from EEE has got certificate after successful completion of Course in Electrical