

Expected Learning Outcomes (ELOs) of D.Eng. ECE Curriculum and ELOs Mapping

Expected Learning Outcome of Doctoral Program (Doctor of Engineering in Electrical and Computer Engineering)

Plan 1.1 and 1.2
Subjected Specific ELOs
1. Explain advance phenomena in Electrical and Computer Engineering by referring theories in Electrical and Computer Engineering
2. Analyze and find reasons to explain relationships between research experimental results and theory in Electrical and Computer Engineering
3. Apply stem knowledge (science, technology, engineering and mathematics) for solving advance problems, conducting researching and building new knowledge in Electrical and Computer Engineering
4. Build or adapt models for solving complicated problems including conducting research and building new knowledge in Electrical and Computer Engineering
5. Design and build electrical circuits, systems, or software using specific knowledge in Electrical and Computer Engineering that are applicable and used in research work, follows safety principles in Electrical and Computer Engineering and relevant industry standards
Generic ELOs
6. Demonstrate self-reliance and project management skill in Electrical and Computer Engineering
7. Demonstrate skills of interpersonal communication, in order to convey advanced technique or novel idea, and presenting works in Electrical and Computer Engineering to publics
8. Read, review, and comprehend including synthetic analysis contents in literature in Electrical and Computer Engineering
9. Indicate and show good attitude and professional ethics in Electrical and Computer Engineering and research conduct

Curriculum ELOs Mapping

Plan 1.1

Course		Credit	Expected Learning Outcome (ELO)								
			ELO1 (S)	ELO2 (S)	ELO3 (S)	ELO4 (S)	ELO5 (S)	ELO6 (G)	ELO7 (G)	ELO8 (G)	ELO9 (G)
090246098	Dissertation	54	●	●	●	●	●	●	●	●	●

Plan 1.2

Course		Credit	Expected Learning Outcome (ELO)								
			ELO1 (S)	ELO2 (S)	ELO3 (S)	ELO4 (S)	ELO5 (S)	ELO6 (G)	ELO7 (G)	ELO8 (G)	ELO9 (G)
090246096	Industrial Research Methodology	3(3-0-6)		●	●			●	●	●	●
090246097	Seminar in Electrical and Computer Engineering	3(3-0-6)						●	●		●
090246098	Dissertation	72	●	●	●	●	●	●	●	●	●