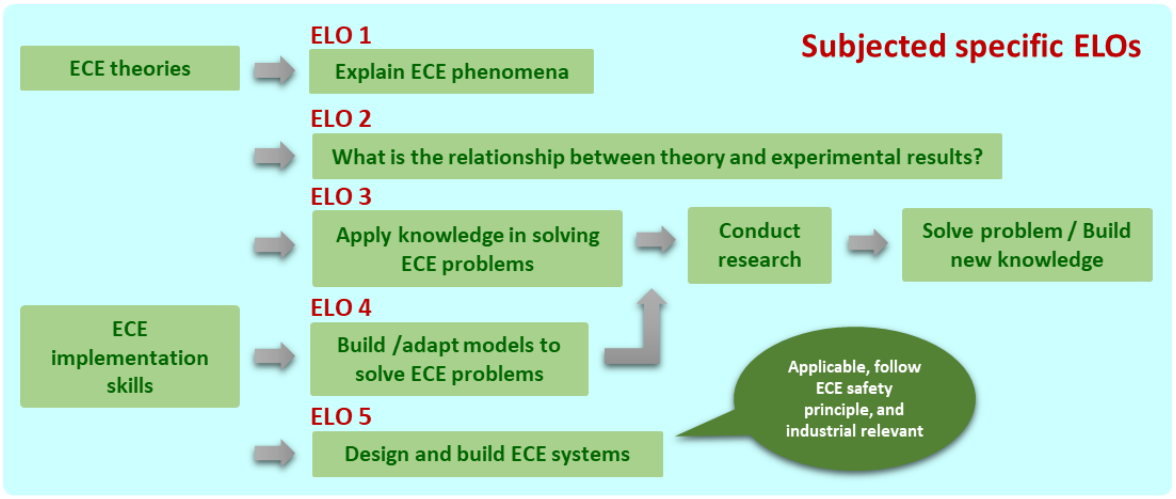
Expected Learning Outcome of Curriculum

Master of Engineering in Electrical and Computer Engineering

Expected Learning Outcomes of Master Program (Master of Engineeringin Electrical and Computer Engineering)

Plan A1, A2, and B
Subjected Specific ELOs
1. Explain phenomena in Electrical and Computer Engineering by referring theories in Electrical and Computer Engineering
2. Analyze and find reasons to explain relationships between experimental results and theory in Electrical and Computer Engineering
3. Apply stem knowledge (science, technology, engineering and mathematics) for conducting research and solving problems in Electrical and Computer Engineering
4. Build or adapt models for solving problems including conducting research toward 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, follows safety principles in Electrical and Computer Engineering and relevant industry standards
Generic ELOs
6. Demonstrate self-reliance for defining and solving specific problems in Electrical and Computer Engineering
7. Demonstrate skills of interpersonal communication and presenting works in Electrical and Computer Engineering to publics
8. Read and comprehend contents in international academic books, documents and research articles in Electrical and Computer Engineering
9. Indicate and show good attitude and professional ethics in Electrical and Computer Engineering


Subjected specific ELOs
ECE theories
ELO 1
Explain ECE phenomena
ELO 2
What is the relationship between theory and experimental results?
ELO 3
Apply knowledge in solving ECE problems
Conduct research
Solve problem / Build new knowledge
ECE implementation skills
ELO 4
Build /adapt models to solve ECE problems
ELO 5
Design and build ECE systems
Applicable, follow ECE safety principle, and industrial relevant


Generic ELOs
Personal skills
ELO 6
Self-reliance
ELO 8
Read and comprehend ECE academic contend and research articles
ELO 9
Good attitude and professional ethics in ECE
With Industrial and international standards
Interpersonal skills
ELO 7
Communication and presentation