Empowering the Entrepreneurial Electrical and Computer Engineer

ECE 5078

Credit Hours:
3.00

Course Levels:
Undergraduate (1000-5000 level)
Graduate (5000-8000 level)

Course Components:
Lecture

Course Description:
This course will teach entrepreneurial minded engineers the process of value creation from their ECE relevant technology or inventions. Topics covered will include self-assessment as an entrepreneur and innovator, analysis and validation of new venture opportunities, intellectual property creation and assessment new venture planning and project management, leadership and team building.

Prerequisites and Co-requisites:
Prereq: 3010, 3020, 3030, 3040, or 3050; or Grad standing in Engr.

Course Goals / Objectives:
- Students will be able to self-evaluate their innovator and entrepreneurial competency and identify their skill-gaps
- Students will be able to understand value proposition and analyze new venture ideas and opportunities
- Students will learn to create, manage, protect and evaluate intellectual property
- Students will be able to plan and manage a new venture from concept to exit
- Students will be able to assess and deploy resources for successful venture financing
Course Topics:
- Module 1: Self-Assessment of Innovator and ECE Entrepreneur Potential
- Module 2: Analysis and Validation of ECE New Venture Opportunities
- Module 3: Creation, management, protection and evaluation of intellectual property
- Module 4: Planning and Managing an ECE New Venture
- Module 5: Organization, Resource Management and Risk Assessment
- Module 6: Financial Plan and Sources of Capital

Designation:
Elective