Engineering Physics Curriculum Map (see below for full program student learning goals and outcomes)

Courses	Outcome	Outcome	Outcome	Outcome	Outcome	Outcome
	1	2	3	4	5	6
PHYS 116: Physics I with	Х	Х	Х			Х
Calculus Lec						
PHYS 118L: Introductory	Х	Х	Х	Х	Х	Х
Physics I LAB						
PHYS 117: Physics II with	Х	Х	Х			Х
Calculus Lec						
PHYS 119L: Introductory	Х	Х	Х	Х	Х	Х
Physics II LAB						
PHYS 214: Modern	Х	Х	Х			Х
Physics Lecture						
PHYS 215: Modern Phys				Х	Х	
Tech & Measurement						
PHYS 242: Electronic	Х	Х	Х	Х	Х	Х
Circuits and Devices						
PHYS322: Advanced	Х	Х	Х			Х
Mechanics						
PHYS323:	Х	Х	Х			Х
Electrodynamics I						
PHYS324:	Х	Х	Х			Х
Electrodynamics II						
PHYS330:	Х	Х	Х			Х
Semiconductors &						
optoelectronic devices						
PHYS350:	Х	Х	Х			Х
Thermodynamics						
PHYS422: Condensed	Х	Х	Х			Х
Matter and Nuclear						
Physics						
PHYS423: Quantum I	Х	Х	Х			Х
PHYS424: Quantum II	Х	Х	Х			Х
PHYS425: Advanced	Х	Х	Х			Х
Topics: Math Phys						
PHYS425: Advanced	Х	Х	Х			Х
Topics: Medical Phys						
PHYS 431: Experimental	Х	Х	Х	Х	Х	Х
Methods in Physics						
PHYS432: Photonics	Х	Х	Х			Х
PHYS250: Introduction to	Х	Х	Х	Х		

Labview

<u>Goal 1:</u> Develop qualitative skills

<u>Program Outcome 1:</u> Develop an integrated conceptual understanding of engineering physics concepts and demonstrate knowledge of the topics taught

<u>Goal 2:</u> Develop analytical / solving problem skills

<u>Program Outcome 2</u>: Develop analytical skills by demonstrating the ability of applying the acquired knowledge of the material to solve problems.

Goal 3: Develop interdisciplinary skills

<u>Program Outcome 3:</u> Apply acquired mathematical skills to solve engineering physics problems. Demonstrate proficiency in applying theoretical physics concepts to practical engineering applications.

Goal 4: Develop experiential laboratory / research skills

<u>Program Outcome 4:</u> Develop hands-on laboratory skills, including methods, data collection, error analysis, graphing and statistical methods.

Goal 5: Develop Communication skill

<u>Program Outcome 5 (a)</u>: Write precise and concise scientific reports related to laboratory or research assignments.

<u>Program Outcome 5 (b)</u>: Display proficiency in providing an oral presentation of an engineering physics related field.

Goal 6: Develop cultural integration of scientific disciplines

<u>Program Outcome 6:</u> Learn about History and current developments in the fields of Engineering Physics. Develop an adequate understanding of scientific progress, the evolution of technology and the role of science and technology in modern society.