

SCHOOL OF ENGINEERING			
Degree: MASTER OF SCIENCE Credits: 30			CURRICULUM
Program: ELECTRICAL ENGINEERING			
Description: The master's program provides a rigorous educational experience in electrical engineering. The program affords an opportunity for practicing engineers and others to advance their technical competencies and develop professionally.			
Course Code	Course Title	Credits	Prerequisites
Required Courses			
ELEN 502	Advanced Linear Systems	3	ELEN 415 or instructor consent
ELEN 503	Solid State Electronics	3	ELEN 431 or instructor consent
ELEN 505	Probability and Random Processes	3	ELEN 360 or instructor consent
ELEN 510	Advanced Power System Analysis	3	ELEN 480 or instructor consent
ELEN 550	Digital Filters	3	ELEN 415 or instructor consent
Elective Courses (Select a minimum of 15 credits from the list below.)			
ELEN 511	Power System Dynamics and Control	3	ELEN 480 or instructor consent
ELEN 520	Digital Control Systems	3	ELEN 415 or instructor consent
ELEN 551	Detection and Estimation Theory	3	ELEN 505 or instructor consent
ELEN 632	Quantum Electronics	3	ELEN 505 or instructor consent
ELEN 650	Digital Image Processing	3	ELEN 550 or instructor consent
ELEN 651	Adaptive Signal Processing	3	ELEN 550 or instructor consent
ELEN 696	M.S. Project	3	Permission of project advisor
ELEN 697	M.S. Thesis	6	Permission of thesis advisor

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Program: ELECTRICAL ENGINEERING			
Course Code	Course Title	Credits	Prerequisites
FIRST YEAR – FIRST SEMESTER			
ELEN 502	Advanced Linear Systems	3	ELEN 415 or instructor consent
ELEN 505	Probability and Random Processes	3	ELEN 360 or instructor consent
FIRST YEAR – SECOND SEMESTER			
ELEN 503	Solid State Electronics	3	ELEN 431 or instructor consent
ELEN 510	Advanced Power System Analysis	3	ELEN 480 or instructor consent
ELEN 550	Digital Filters	3	ELEN 415 or instructor consent
SECOND YEAR – FIRST SEMESTER			
	Electrical Engineering Elective I	3	Depends on elective
	Electrical Engineering Elective II	3	Depends on elective
	Electrical Engineering Elective III	3	Depends on elective
SECOND YEAR – SECOND SEMESTER			
	Electrical Engineering Elective IV	3	Depends on elective
	Electrical Engineering Elective V	3	Depends on elective