

MSC ELECTRICAL ENGINEERING

A/A	Course Type	Course Name	Course Code	Periods per week	Period duration (min.)	Number of weeks/ Academic semester	Total periods/ Academic semester	Number of ECTS
Semester 1								
1.	Required	ADVANCED DIGITAL COMMUNICATION SYSTEMS	AEEE501	3	50	13	39	8
2.	Required	POWER SYSTEM ANALYSIS	AEEE523	3	50	13	39	8
3.	Elective	TECHNICAL ELECTIVE		3	50	13	39	8
4.	Required	RESEARCH METHODOLOGY AND PROPOSAL PREPARATION	AEEE597	0	0	13	0	6
Semester 2								
5.	Required	MODERN CONTROL SYSTEMS	AEEE541	3	50	13	39	8
6.	Elective	TECHNICAL ELECTIVE		3	50	13	39	8
7.	Required	GRADUATE SEMINARS I	AEEE595	0	0	13	0	2
8.	Required	THESIS IMPLEMENTATION	AEEE598	0	0	13	0	12
Semester 3								
9.	Elective	TECHNICAL ELECTIVE		3	50	13	39	8
10.	Elective	TECHNICAL ELECTIVE		3	50	13	39	8
11.	Required	GRADUATE SEMINARS II	AEEE596	0	0	13	0	2
12.	Required	THESIS WRITING AND PRESENTATION	AEEE599	0	0	13	0	12

Technical Elective Courses

Num.	Code	Course Title	ECTS
1.	AEEE503	RANDOM VARIABLES AND STOCHASTIC PROCESSES	8
2.	AEEE504	WIRELESS COMMUNICATIONS AND PERSONAL COMMUNICATIONS	8
3.	AEEE505	DIGITAL SIGNAL PROCESSING	8
4.	AEEE511	ANTENNAS AND WAVE PROPAGATION	8
5.	AEEE512	MODERN OPTICAL COMMUNICATIONS	8
6.	AEEE514	DIGITAL IMAGE PROCESSING	8
7.	AEEE516	MICROWAVE ENGINEERING	8
8.	AEEE521	POWER TRANSMISSION LINES	8
9.	AEEE522	RENEWABLE ENERGY SOURCES AND SUSTAINABILITY	8
10.	AEEE525	ELECTROMAGNETIC ENERGY CONVERSION	8
11.	AEEE532	FAULTED POWER SYSTEMS	8
12.	AEEE533	POWER SYSTEM PROTECTION	8
13.	AEEE535	POWER SYSTEM STABILITY	8
14.	AEEE542	LINEAR SYSTEMS ANALYSIS	8
15.	AEEE543	DIGITAL CONTROL SYSTEMS	8
16.	AEEE551	NON-LINEAR AND ADAPTIVE CONTROL	8
17.	AEEE556	OPTIMIZATION METHODS AND APPLICATIONS	8