

**PROGRAMME : MASTER OF SCIENCE (ELECTRONICS ENGINEERING) ( MSEE)****TYPE : FULL TIME/PART TIME**

TYPE OF COURSES	CREDIT HOURS		
	PROGRAM STRUCTURE (MODE)		
	COURSEWORK ONLY(W)	COURSEWORK AND RESEARCH(C)	RESEARCH ONLY(T)
<b>A. Core Course</b>	15 Credit Hours	9 credit Hours	n/a
<b>B. Elective Courses</b>	9 credit Hours	6 Credit Hours	n/a
<b>C. University Required Course</b>	6 credit hours	6 credit hours	0 credit hour
<b>D. Research Courses</b>	12 Credit Hours	21 credit hours	42 credit hours
<b>TOTAL</b>	<b>42 Credits Hours</b>	<b>42 credit hours</b>	<b>42 credit hours</b>

**A. CORE COURSES -choose 15 credit for (W) and 9 Credit for (C)**

Course Code	Course Title	Credit Hours	Pre-requisite
EECE 7301	Circuits, Signals and Filters (C&W)	3	-
EECE 7302	Digital System Design. (C&W)	3	-
EECE 7303	Semiconductor Devices.(C&W)	3	-
EECE 7311	Electronic Instrumentation (W)	3	
EECE 7312	Integrated Circuit Technology.(W)	3	

**B. ELECTIVE COURSES -choose 9 credit for (W) and 6 Credit for (C)**

Course Code	Course Title	Credit Hours	Pre-requisite
EECE7311	Electronic Instrumentation	3	-
EECE7312	Integrated Circuit Technology.	3	-
EECE 7111	Performance Modelling of Computer Systems	3	-
EECE 7112	Computer Network security	3	-
EECE 7121	Advanced topics in software engineering	3	-
EECE 7122	Distributed Multimedia System	3	-
EECE 7123	Computer vision and image processing	3	-
EECE 7124	Real-time computing systems	3	-
EECE 7125	Advanced computer architecture	3	-
EECE 7126	Human computer interaction	3	-
EECE 7127	Neural Networks and Systems	3	-
EECE 7128	Fault tolerant computing	3	-
EECE 7171	Selected topics in Computer and Information Eng.	3	-
EECE 7201	Digital Communications	3	-
EECE 7202	Information Theory and Coding	3	-
EECE 7203	Wireless Communication Systems	3	-
EECE 7211	Optical Communications	3	-
EECE 7212	RF Design and Microwave Systems	3	-
EECE 7221	Adaptive Signal Processing	3	-
EECE 7222	Image Processing	3	-
EECE 7223	Antenna Engineering	3	-

EECE 7224	Mobile Communications	3	-
EECE 7225	Satellite Communications	3	-
EECE 7226	Radar Systems and Remote Sensing	3	-
EECE 7227	Speech and Audio Processing	3	-
EECE 7271	Selected Topics in Communication Eng.	3	-
EECE 7301	Circuits, Signals and Filters	3	-
EECE 7302	Digital System Design	3	-
EECE 7303	Semiconductor Devices	3	-
EECE 7311	Electronic Instrumentation	3	-
EECE 7312	Integrated Circuit Technology	3	-
EECE 7321	Electro-Optics	3	-
EECE 7322	Industrial Electronics	3	-
EECE 7323	Biomedical Electronic and Systems	3	-
EECE 7324	Advanced Topics in VLSI Design	3	-
EECE 7325	Analog Circuit Design	3	-
EECE 7326	Quantum Electronics	3	-
EECE 7327	Microelectromechanical Sensors, Actuators and Systems	3	-
EECE 7371	Selected Topics in Electronic Eng.	3	-

### C. UNIVERSITY REQUIRED COURSES

No.	Course Code	Course Title	Credit Hours	Pre-requisite
Coursework and Research & Coursework Only				
1	RKGS 7000	Values, Technology and Society	3	
2	EECE 7950	Research Methodology & Seminar	3	
Research Only				
1	RKGS 7001	Values, Technology and Society	0	
2	EECE 7951	Research Methodology & Seminar	0	

### D. RESEARCH COURSES

No.	Course Code	Course Title	Credit Hours	Pre-requisite
Coursework and Research (21 Credit Hours)				
1	EECE 7994	Research Proposal	0	
2	EECE 7998	Dissertation	21	EECE 7994
Research only (42 credit hours)				
1	EECE 7994	Research Proposal	0	
2	EECE 7999	Thesis	42	EECE 7995
3	EECE 7995	Comprehensive Exam	0	EECE 7994
Course Mode				
1	EECE 7997	Project Paper	12	

**Programme structure Mode:**

**W- Coursework only**

**C- Coursework and Research (Mixed Mode)**

**T- Research Only**