

**PROGRAMME : MASTER OF SCIENCE (COMPUTER AND INFORMATION ENGINEERING)
(MSCIE)**

TYPE : FULL TIME/PART TIME

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

A. CORE COURSES

Course Code	Course Title	Credit Hours	Pre-requisite
EECE 7101	Embedded System Design (C&W)	3	-
EECE 7102	Advanced Operating Systems (C&W)	3	-
EECE 7103	Advanced Computer Communication Networks (C&W)	3	-
EECE 7111	Performance Analysis of Computer Systems. (W)	3	
EECE 7112	Computer Network Security (W)	3	

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

Course Code	Course Title	Credit Hours	Pre-requisite
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 7171	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	

