



*Course Tables
For
Undergraduate Program*

Preparatory Year

Preparatory Year

First Term

Code	Course Title	Hrs/week			Mark Distribution				Time of Written Exam	
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total		
PME0101	Engineering Mathematics (1) a	4	2	6	50		100	150	3	
PME0102	Engineering Physics (1) a	4	2	6	50		100	150	3	
PME0003	Engineering Mechanics	2	2	4	30	continuous				
MPD0001	Engineering Drawing and Projection	2	3	5	50	continuous				
PME0104	Engineering Chemistry	3	2	5	25	25	75	125	3	
CCE0101	Computer Technology	2	2	4	20	20	60	100	3	
Sum		17	13	30					525	

Second Term

Code	Course Title	Hrs/week			Mark Distribution				Time of Written Exam	
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total		
PME0201	Engineering Mathematics (1) b	4	2	6	50		100	150	3	
PME0202	Engineering Physics (1) b	4	3	7	50	25	100	175	3	
PME0003	Engineering Mechanics	2	2	4	30		140	200	3	
MPD0001	Engineering Drawing and Projection	1	4	5	50		150	250	4	
MPD0202	Production Engineering	2	2	4	20	20	60	100	3	
***02H1	Technical English	2		2	10		40	50	2	
***02H2	History of Engineering and Technology	2		2	10		40	50	2	
Sum		17	13	30					975	

Architectural Engineering

Architectural Engineering First Year

First Term

Code	Course Title	Hrs/week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
ARE1101	Architecture Design (1) a	2	6	8	120		80	200	6
ARE1102	Building construction and Materials (1) a	2	3	5	65		60	125	4
ARE1103	History and Theories of Architecture (1) a	2	1	4	40		60	100	3
ARE1104	Shades and Shadows	2	3	5	65		60	125	4
ARE1105	Computer in Architecture (1)	2	2	4	40	20	40	100	3
CSE1151	Theory of Structure	2	2	4	40		60	100	3
Sum		12	17	30				750	

Second Term

Code	Course Title	Hrs/week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
ARE1201	Architecture Design (1) b	2	6	8	120		80	200	6
ARE1202	Building construction and Materials (1) b	2	3	5	65		60	125	4
ARE1203	History and Theories of Architecture (1) b	3	1	4	40		60	100	3
ARE1204	Visual Training	1	4	5	65		60	125	4
CPW1221	Surveying	2	2	4	30	20	50	100	3
CSE1252	Properties and Strength of Materials	2	2	4	25	15	60	100	3
Sum		12	18	30				750	

Architectural Engineering Second Year

First Term

Code	Course Title	Hrs/week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
ARE2107	Architecture Design (2) a	2	6	8	120		80	200	6
ARE2108	Building Construction and Materials (2) a	2	3	5	65		60	125	4
ARE2109	History and Theories of Architecture (2) a	3	1	4	40		60	100	3
ARE2110	History and Theories of planning	3	1	4	40		60	100	3
ARE2111	Environmental Control	3	1	4	40		60	100	4
CSE2153	Concrete Steel Construction	3	2	5	45		80	125	4
Sum		16	14	30				750	

Second Term

Code	Course Title	Hrs/week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
ARE2207	Architecture Design (2) b	2	6	8	120		80	200	6
ARE2208	Building Construction and Materials (2) b	2	4	6	80		70	150	4
ARE2209	History and Theories of Architecture (2) b	3	1	4	40		60	100	3
ARE2212	Computer in Architecture (2)	2	2	4	40	20	40	100	4
ARE2213	Landscape	3	1	4	40	20	40	100	3
ARE2214	Sanitary Installations	3	1	4	40		60	100	3
Sum		15	15	30				750	

Architectural Engineering Third Year

First Term

Code	Course Title	Hrs/week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
ARE3115	Architecture Design (3) a	2	6	8	120		80	300	6
ARE3116	Working Drawings and Construction Methods (a)	2	4	6	70	20	60	150	6
ARE3117	History and Theories of Architecture (3)	3	1	4	40		60	100	4
ARE3118	Urban Planning	3	2	5	45	20	60	125	4
ARE3119	Development of Rural Communities	3	1	4	40		60	100	3
ARE3120	Scientific Methods and Operation Research	2	1	3	25		50	75	3
Sum		15	15	30				850	

Second term

Code	Course Title	Hrs/week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
ARE3215	Architecture Design (3) b	2	6	8	120		80	200	6
ARE3216	Working Drawings and Construction Methods (b)	2	4	6	70	20	60	150	6
ARE3221	Urban Design (1)	3	2	5	65		60	125	5
ARE3222	Housing (1)	3	1	4	40		60	100	4
ARE3223	Technical Installations	3	1	4	40		60	100	3
CSE3254	Foundation	2	1	3	30		45	75	3
Sum		15	15	30				750	

Architectural Engineering Fourth Year

First Term

Code	Course Title	Hrs/week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
ARE4124	Architecture Design (4)	2	6	8	120		80	200	6
ARE4125	Working Drawings Quantities and Specifications	2	4	6	70	20	60	150	7
ARE4126	History and Theories of Architecture	3	1	4	40		60	100	4
ARE4127	City Planning	2	2	4	40	20	40	100	4
ARE4128	Urban Design (2)	2	2	4	40		60	100	5
ARE4129	Housing (2)	3	1	4	40		60	100	4
Sum		14	16	30				750	

Second Term

Code	Course Title	Hrs/week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
ARE4230	Project Management and Economic Feasibility Studies	3		3	35		40	75	3
ARE4231	Building Laws and Legislation	1	1	2	20		30	50	3
ARE42**	Elective Course (1)	2	1	3	35		40	75	3
ARE42**	Elective Course (2)	3		3	35		40	75	3
ARE42**	Elective Course (3)	3		3	35		40	75	3
ARE4245	Graduation Project	4	12	16	200	²⁰⁰ Discussion		400	
Sum		16	14	30				750	

**Architectural Engineering
Elective Courses**

Elective Course (1)

Code	Course Title
ARE4232	Renovation and Urban Upgrading
ARE4233	Environmental and Urban Conservation
ARE4234	Methods of Upgrading and Conservation
ARE4235	Building Rehabilitation

Elective Course (2)

Code	Course Title
ARE4236	Building Technology and Construction Systems
ARE4237	Building Economic
ARE4238	Computers in Architecture
ARE4239	Environmental planning and Design

Elective Course (3)

Code	Course Title
ARE4240	Architectural Criticism
ARE4241	Architecture , Civilization and Heritage
ARE4242	Architecture and Human Studies Research
ARE4243	Thinking Trends in Contemporary Architecture
ARE4244	Interior Architecture

Civil Engineering

Civil Engineering First Year

First Term

Code	Course Title	Hrs/week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE1101	Structural Analysis (1) a	4	2	6	50		100	150	3
CPW1101	Plane Surveying a	4	2	6	30	30	90	150	3
CSE1102	Properties and Testing of Materials (1)	4	2	6	30	30	90	150	3
PME1105	Engineering Mathematics (2) a	4	2	6	50		60	150	3
ARE1191	Architecture Construction	2	2	4	30	20	40	100	3
CIH11H3	The Engineering and Environment	2		2	10		40	50	2
Sum		20	10	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE1201	Structural Analysis (1) b	3	2	5	40		85	125	3
CPW1201	Plane Surveying b	3	3	6	30	30	90	150	3
PME1205	Engineering Mathematics (2) b	4	2	6	50		100	150	3
CIH1201	Civil Drawing	2	4	6	60		90	150	4
EPM/MEP1261	Electromechanical Equipments and Installments Engineering *	3	1	4	60		70	100	3
CSE1203	Engineering Geology	2	1	3	30		50	75	2
Sum		17	13	30	25			750	

Civil Engineering Second Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE2104	Structural Analysis (2) a	3	2	5	40		85	125	3
CSE2105	Design of Reinforced Concrete Structures (1) a	3	2	5	40		85	125	4
CSE2106	Properties and Testing of Materials (2)	4	3	7	40	35	100	175	4
CIH2102	Fluid Mechanics	3	2	5	25	25	75	125	3
CIH2103	Hydrology	3	2	5	40		85	125	3
CPW21H3	Applied Statistics	2	1	3	25		50	75	2
Sum		18	12	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE2204	Structural Analysis (2) b	3	2	5	40		85	125	3
CSE2205	Design of Reinforced Concrete Structures (1) b	3	2	5	25	25	75	125	4
CPW2202	Topographical Surveying	4	3	7	40	35	100	175	4
CSE2207	Construction Economics	2	2	4	30		70	100	3
CSE2208	Soil Mechanics (1)	3	2	5	25	25	75	125	3
CIH2204	Irrigation and Drainage Engineering	2	2	4	30		70	100	2
Sum		17	13	30				750	

Civil Engineering Third Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE3109	Theory of Structures	4	3	7	50		125	175	4
CSE3110	Design of Reinforced Concrete Structures (2) a	3	2	5	40		85	125	4
CSE3111	Design of Steel Structures a	2	2	4	30		70	100	3
CSE3112	Soil Mechanics (2)	3	2	5	25	25	75	125	3
CPW3103	Transportation and Traffic Engineering	2	2	4	30		70	100	3
CIH3105	Hydraulics	3	2	5	25	25	75	125	3
Sum		17	13	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE3210	Design of Reinforced Concrete Structures (2) b	3	2	5	25	25	75	125	4
CSE3211	Design of Steel Structures b	3	2	5	25	25	75	125	4
CSE3113	Construction Project Management	3	2	5	40		85	125	3
CSE3214	Foundation Engineering (1)	3	2	5	40		85	125	3
CIH3206	Design of Irrigation Works (1)	4	2	6	50		100	150	4
CPW3204	Railways Engineering	2	2	4	30		70	100	3
Sum		18	12	30				750	

Civil Engineering Fourth Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE4115	Reinforced Concrete Structures (3)	4	2	6	25	25	100	150	4
CPW4105	Sanitary Engineering	3	2	5	40		85	125	3
CIH4107	Design of Irrigation Works (2)	3	2	5	40		85	125	3
CPW4106	Geodesy and Satellite Surveying	2	2	4	30		70	100	3
CPW4107	Highway Engineering	3	2	5	40		85	125	3
CSE4116	Foundation Engineering (2)	3	2	5	25	25	75	125	3
Sum		18	12	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE4217	Metallic Bridges	3	2	5	25	25	75	125	
CIH4208	Harbors , Navigation and Shores Protection	3	2	5	40		85	125	
CIH42**	Elective Course (1)			0	30		70	100	
CPW42**	Elective Course (2)			0	30		70	100	
CSE42**	Elective Course (3)				30		70	100	
C**42**	Project *			0	100	100 Discussion		200	
Sum		6	4	10				750	

**Civil Engineering
Elective Courses**

Elective Course (1)

Code	Course Title
CIH4209	Water Resources Management
CIH4210	Environmental Hydrology and Water Quality Control
CIH4211	Dams and Reservoirs Engineering
CIH4212	Design of Pump Stations

Elective Course (2)

Code	Course Title
CPW4208	Airports Engineering
CPW4209	Systems of Traffic Management
CPW4210	Remote Sensing and Applications
CPW4211	Water and Sanitary Networks

Elective Course (3)

Code	Course Title
CSE4218	Special Topics in Reinforced Concrete Design
CSE4219	Inspection and Quality Control
CSE4220	Earthquake Engineering
CSE4221	Plastic Design of Structures

Civil Engineering (Structural)

Civil Engineering (Structural)

Third Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE3122	Structural Analysis (3) a	3	2	5	40		85	125	3
CSE3123	Design of Reinforced Concrete Structures (2) a	3	2	5	25	25	75	125	4
CSE3124	Design of Steel Structures a	3	2	5	40		85	125	3
CSE3125	Soil Mechanics (3)	3	2	5	25	25	75	125	3
CSE3126	Quantity Surveying and Specification Preparation	3	2	5	40		85	125	3
CSE31**	Elective Course (1)	3	2	5	40		85	125	3
Sum		18	12	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE3222	Structural Analysis (3) b	3	2	5	40		85	125	3
CSE3223	Concrete Structures (2) b	3	2	5	25	25	75	125	4
CSE3224	Design of Steel Structures b	3	2	5	25	25	75	125	3
CSE3231	Construction Project Management	3	2	5	40		85	125	3
CSE3232	Design of Foundation (1)	3	2	5	40		85	125	3
CSE32**	Elective Course (2)	3	2	5	40		85	125	3
Sum		18	12	30				750	

Civil Engineering (Structural) Fourth Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE4137	Design of Reinforced Concrete Structures (3) a	3	2	5	25	25	75	125	4
CSE4138	Design of Bridges a	3	2	5	40		85	125	4
CSE4139	Construction Project Management (2)	3	2	5	40		85	125	3
CSE4140	Design of Foundations (2)	3	2	5	25	25	75	125	3
CPW4140	Elective Course (3)	3	2	5	40		85	125	3
CSE41**	Elective Course (4)	3	2	5	40		85	125	3
Sum		18	12	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CSE4237	Design of Reinforced Concrete Structures (3) b	3	2	5	40		85	125	
CSE4238	Design of Metallic Bridges b	3	2	5	25	25	75	125	
CSE4245	Computerized Structural Analysis	3	2	5	20	20	60	100	
CIH42**	Elective Course (5)	3	2	5	30		70	100	
CSE42**	Elective Course (6)	3	2	5	30		70	100	
CSE4250	Project	2	6	8	100	¹⁰⁰ Discussion		200	
Sum		17	16	33				750	

**Civil Engineering (Structural)
Elective Courses**

Elective Course (1)

Code	Course Title
CSE3127	Soil-Structures Interaction
CSE3128	Construction Equipment
CSE3129	Special Types of Concrete
CSE3130	Theory of Plates and Shells

Elective Course (2)

Code	Course Title
CSE3233	Soil Improvement
CSE3234	Construction Methods
CSE3235	Structural Dynamics
CSE3236	Masonry Structures

Elective Course (3)

Code	Course Title
CPW4112	Highways and Airports Engineering
CPW4113	Sanitary Engineering
CPW4114	Railway Engineering
CPW4115	Transportation and Traffic Engineering

Elective Course (4)

Code	Course Title
CSE4141	Repair and Strengthening of Structures
CSE4142	Advanced Structural Analysis
CSE4143	Plastic Design of Structures
CSE4144	Inspection and Quality Control

Elective Course (5)

Code	Course Title
CIH4213	Hydraulics
CIH4214	Design of Irrigation Works
CIH4215	Harbors and Beaches Protection
CIH4216	Dams and Storages Engineering

Elective Course (6)

Code	Course Title
CSE4246	Tunnels and Underground Structures
CSE4247	Special Topics in R.C. Design
CSE4248	Composite Structures
CSE4249	Seismic Engineering Isolation

Electrical Engineering

Electrical Engineering First Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME1106	Engineering Mathematics (2) a	3	2	5	40		85	125	3
EPM1101	Electrical Circuits (1)	4	2	6	30	30	90	150	3
EEC/EPM1160	Electrical and Electronics Materials*	3	1	4	30		70	100	3
CCE1102	Logic Design Principles	4	1	5	40		85	125	3
EEC1101	Electronics (1)	4	2	6	25	25	100	150	3
CCE1103	Computer Programming (1)	2	2	4	20	20	60	100	3
Sum		20	10	30				750	

Second term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME1206	Engineering Mathematics (2) b	3	2	5	40		85	125	3
EPM1202	Electrical Measurements	4	2	6	30	30	90	150	3
EEC1202	Electronics (2)	4	2	6	30	30	90	150	3
EPM1203	Electrical Circuits (2)	3	2	5	40		85	125	3
CCE1204	Computer Programming (2)	2	2	4	20	20	60	100	3
CCE1205	Computer Hardware	3	1	4	30		70	100	3
Sum		19	11	30				750	

Electrical Power and Machines Engineering

Electrical Power and Machines Engineering Second Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME2109	Engineering Mathematics (3) a	3	2	5	40		85	125	3
EPM2104	Electromagnetic Fields	3	2	5	40		85	125	3
EPM2105	Electrical Power Engineering (1)	3	3	6	30	30	90	150	3
EPM2106	Energy Conversion	4	2	6	30	30	90	150	3
MEP2141	Mechanical Engineering	3	1	4	30		70	100	3
CSE2155	Civil Engineering	3	1	4	30		70	100	3
Sum		19	11	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME2209	Engineering Mathematics (3) b	2	2	4	30		70	100	3
EPM2207	Electrical Power Engineering (2)	4	4	8	40	40	120	200	3
EPM2208	Electrical Machines (1)	4	4	8	40	40	120	200	3
EPM2209	Power Electronics (1)	3	2	5	25	25	75	125	3
MEP2244	Mechanical Power Stations	2	1	3	25		50	75	3
EPM22H3	Technical Reports	1	1	2	15		35	50	2
Sum		16	14	30				750	

Electrical Power and Machines Engineering Third Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME3114	Engineering Mathematics (4)	2	2	4	30		70	100	3
EPM3110	Generation and Economy of Electrical Energy	3	3	6	30	30	90	150	3
EPM3111	Electrical Machines (2)	4	4	8	40	40	120	200	3
CCE3170	Automatic Control Principles	3	2	5	40		85	125	3
EPM3112	High Voltage Engineering	3	1	4	30		70	100	3
EEC31**	Elective Course (1)	2	1	3	25		50	75	3
Sum		17	13	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
EPM3213	Power Electronics (2)	2	2	4	20	20	60	100	3
EPM3214	Power System Analysis	4	3	7	50		125	175	3
EPM3215	Electrical Machines (3)	4	4	8	40	40	120	200	3
EPM3216	Control of Electrical Power Systems (1)	3	2	5	25	25	75	125	3
CCE3271	Microprocessors	3	1	4	30		70	100	3
EPM32H4	Feasibility Study of Projects	2		2	10		40	50	2
Sum		18	12	30				750	

Electrical Power and Machines Engineering Fourth Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
EPM4117	Electrical Machines (4)	4	4	8	40	40	120	200	3
EPM4118	Protection of Electrical Power Systems	3	2	5	40		85	125	3
EPM4119	Applications of Computer in Electrical Power Systems	2	3	5	25	25	75	125	3
EPM41**	Elective Course (2)	3	1	4	30		70	100	3
EPM41**	Elective Course (3)	3	1	4	30		70	100	3
EPM4026	Project	1	3	4	40				
Sum		16	14	30				650	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
EPM4227	Electrical Drives	4	2	6	30	30	90	150	3
EPM4228	Control of Electrical Power Systems (2)	3	2	5	40		85	125	3
EPM4229	Applications of Electrical Protection Systems	3	2	5	25	25	75	125	3
EPM4230	Special Electrical Machines	4	1	5	25	25	75	125	3
EPM42**	Elective Course (4)	3	2	5	40		85	125	3
EPM4026	Project			0	60	100 Discussion	200	200	
Sum		17	9	26				850	

Electrical Power and Machines Engineering Elective Courses

Elective Course (1)

Code	Course Title
EEC3143	Electrical Communications
EEC3144	Digital Instruments and Measuring Systems
EEC3145	Visual and Acoustic Broadcasting Engineering

Elective Course (2)

Code	Course Title
EPM4120	General theory of Electrical machines
EPM4121	Electrical Installations
EPM4122	New and Renewable Energy Systems

Elective Course (3)

Code	Course Title
EPM4123	DC Electrical Power Transmission
EPM4124	Electrical Machines Dynamics
EPM4125	Control Methods Using Power Electronics

Elective Course (4)

Code	Course Title
EPM4231	PLC in Electrical Systems
EPM4232	Design and Planning of Electrical Power Systems
EPM4233	Applications of Computer in Electrical Machines

Electronics and Communications Engineering

Electronics and Communications Engineering Second Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME2110	Engineering Mathematics (3) a	3	2	5	40		85	125	3
EEC2103	Electronic Circuits (1)	3	3	6	30	30	90	150	3
EPM2142	Electromagnetic Fields	3	2	5	40		85	125	3
EEC2104	Communication Theory	3	3	6	50		100	150	3
EEC2105	Electronic Measurements (1)	3	3	6	30	30	90	150	3
EEC21H3	Technical Reports	2		2	10		40	50	2
Sum		17	13	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME2210	Engineering Mathematics (3) b	2	2	4	30		70	100	3
EEC2206	Electronic Circuits (2)	3	3	6	30	30	90	150	3
EEC2207	Communication Engineering	3	3	6	30	30	90	150	3
EEC2208	Electromagnetic Waves (1)	3	2	5	40		85	125	3
CCE2251	Control Engineering	3	1	4	30		70	100	2
EEC2209	Electronic Measurements (2)	3	2	5	25	25	75	125	3
Sum		17	13	30				750	

Electronics and Communications Engineering Third Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME3115	Engineering Mathematics (4)	3	2	5	40		85	125	3
EEC3110	Wave Propagation and Antennas (1)	3	3	6	30	30	90	150	3
EEC3111	Digital Electronics in Communication Systems	3	3	6	30	30	90	150	3
EEC3112	Optical Electronics	3	3	6	50		100	150	3
***31**	Elective Course (1)	3	2	5	40		85	125	3
EEC31H4	Management and Marketing	2		2	10		40	50	2
Sum		17	13	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
EEC3213	Optical Communications	3	2	5	25	25	75	125	3
EEC3214	Electromagnetic Waves (2)	3	2	5	40		85	125	3
EEC3215	Microprocessor Application in Communication Systems	2	3	5	25	25	75	125	3
EEC32**	Elective Course (2)	2	2	4	30		70	100	3
EEC3220	Digital Communication Systems	3	3	6	30	30	90	150	3
EEC3221	Acoustics and Ultrasonic	3	2	5	40		85	125	3
Sum		16	14	30				750	

Electronics and Communications Engineering Fourth Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
EEC4122	Satellite Communication Systems	4	3	7	50		125	175	3
EEC4123	Wave Propagation and Antennas (2)	3	3	6	30	30	90	150	3
EEC2124	Telecommunication Networks	3	3	6	30	30	90	150	3
EEC41**	Elective Course (3)	3	2	5	40		85	125	3
EEC4029	Project	1	3	4	40			40	3
EEC41H5	Project Management	2		2	10		40	50	2
Sum		16	14	30				690	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
EEC4230	Mobile Communication Systems	4	2	6	30	30	90	150	3
EEC4231	Computer Communication Networks	3	2	5	25	25	75	125	3
EEC4232	Microwave Engineering	3	2	5	25	25	75	125	3
EEC42**	Elective Course (4)	3	2	5	40		85	125	3
EEC4237	Information Theory	3	2	5	40		85	125	3
EEC4029	Project		4	4	60	100 Discussion		200	3
Sum		16	14	30				850	

Electronics and Communications Engineering Elective Courses

Elective Course (1)

Code	Course Title
EPM3146	Electrical Machines
EPM3147	Power Electronics
CCE3152	PLC and Distributed Systems
CCE3153	Artificial Neural Networks

Elective Course (2)

Code	Course Title
EEC3216	Biomedical Electronics
EEC3217	Television Engineering
EEC3218	Digital Signal Processing and Applications
EEC3219	Large Scale Integrated Circuits and Applications

Elective Course (3)

Code	Course Title
EEC4125	Radar Systems and Sonar
EEC4126	Data Security
EEC4127	Micro-electronics and Applications
EEC4128	Very Large Scale Integrated Circuits and Applications

Elective Course (4)

Code	Course Title
EEC4233	Microwave Integrated Circuits
EEC4234	Optical Networks
EEC4235	Multimedia and Image Processing
EEC4236	Advanced Communications Systems

Computer and Control Engineering

Computer and Control Engineering Second Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CCE2106	Data Structures and Algorithms	4	2	6	50		100	150	3
CCE2107	Digital Systems	4	1	5	25	25	75	125	3
CCE2108	Microprocessors and Interfacing Systems	3	2	5	25	25	75	125	3
EEC2146	Electronics Circuits and Measurements	3	2	5	40		85	125	3
EPM2143	Energy Conversion	3	1	4	30		70	100	3
PME2111	Engineering Mathematics (3) a	4	1	5	40		85	125	3
Sum		21	9	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CCE2209	Computer Architecture	4	2	6	30	30	90	150	3
CCE2210	Signals and Systems	4	2	6	30	30	90	150	3
CCE2211	Computer Graphics	3	2	5	25	25	75	125	3
EEC2247	Communication Systems	4	2	6	50		100	150	3
PME2211	Engineering Mathematics (3) b	4	1	5	40		85	125	3
CCE22H3	Society of Information Technology	2		2	10		40	50	2
Sum		21	9	30				750	

Computer and Control Engineering Third Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CCE3112	Database Systems	4	2	6	30	30	90	150	3
CCE3113	Language and Compilers	4	2	6	50		100	150	3
CCE3114	Operating Systems	3	2	5	40		85	125	3
CCE3115	Control Engineering	3	2	5	25	25	75	125	3
CCE3116	Digital Signal Processing	3	1	4	30		70	100	3
CCE3117	Fundamentals of Stochastic Processes	3	1	4	30		70	100	3
Sum		20	10	30				750	

Second Year

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CCE3218	Software Engineering	4	2	6	30	30	90	150	3
CCE3219	Artificial Intelligence and Expert Systems	4	2	6	30	30	90	150	3
CCE3220	Digital Control	4	2	6	30	30	90	150	3
CCE3221	Modeling and Simulation	3	2	5	40		85	125	3
CCE32**	Elective Course (1)	3	2	5	40		85	125	3
CCE32H4	Decision Support Systems	2		2	10		40	50	2
Sum		20	10	30				750	

Computer and Control Engineering Fourth Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CCE4126	Computer Networks	4	2	6	30	30	90	150	3
CCE4127	Microcontroller Systems	3	1	4	30		70	100	3
CCE4128	Fuzzy Control	3	2	5	25	25	75	125	3
CCE4129	Neural Networks	3	2	5	40		85	125	3
CCE4130	Pattern Recognition and Digital Image Processing	4	1	5	40		85	125	3
CCE41**	Elective Course (2)	3	2	5	40		85	125	3
Sum		20	10	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
CCE4235	Information System Design	3	1	4	20	20	60	100	3
CCE4236	Computer and Network Security	3	1	4	20	20	60	100	3
CCE4237	Control and Instrumentation in Industrial Processes	4	2	6	30	30	90	150	3
CCE42**	Elective Course (3)	3	2	5	40		85	125	3
CCE42**	Elective Course (4)	3	2	5	40		85	125	3
CCE4244	Project	2	4	6	50	100 Discussion		150	
Sum		18	12	30				750	

Computer and Control Engineering Elective Courses
--

Elective Course (1)

Code	Course Title
CCE3222	Multimedia Systems
CCE3223	Programmable Logic Controllers
CCE3224	Computer Aided Design
CCE3225	Operations Research

Elective Course (2)

Code	Course Title
CCE4131	Distributed Systems
CCE4132	Real-Time Systems
CCE4133	Adaptive Control
CCE4134	Stochastic Control

Elective Course (3)

Code	Course Title
CCE4238	Computer Vision
CCE4239	Data Mining
CCE4240	Electronic Commerce

Elective Course (4)

Code	Course Title
CCE4241	Computer System Evaluation
CCE4242	Robotic Systems
CCE4243	Mobile Computing

Mechanical Engineering

Mechanical Engineering First Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME1107	Engineering Mathematics (2) a	4	2	6	50		100	150	3
PME1108	Engineering Physics (2)	2	2	4	20	20	60	100	3
MPD1103	Mechanical Drawing	2	5	7	75		100	175	4
MPD1104	Engineering Materials	3	3	6	30	30	90	150	3
MPD1105	Production Engineering	3	2	5	25	25	75	125	3
MEP11H3	Engineering Thinking	2		2	10		40	50	2
Sum		16	14	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME1207	Engineering Mathematics (2) b	4	2	6	50		100	150	3
EPM1241	Electrical and Electronic Engineering	3	2	5	25	25	75	125	3
MEP1201	Applied Mechanics	3	2	5	40		85	125	3
MPD1206	Strength and Materials Testing	3	3	6	30	30	90	150	3
MEP1202	Thermodynamics (1)	3	3	6	30	30	90	150	3
MEP12H4	Technical Reports	2		2	10		40	50	2
Sum		18	12	30				750	

Production Engineering and Mechanical Design

Production Engineering and Mechanical Design Second Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME2112	Engineering Mathematics (3)	4	2	6	50		100	150	3
MPD2107	Stress Analysis	3	3	6	50		100	150	3
MPD2108	Metal Casting	3	3	6	30	30	90	150	3
MPD2109	Theory of Machines	3	2	5	40		85	125	3
MEP2150	Fluid Mechanics	3	2	5	25	25	75	125	3
MPD21H3	Engineering Economy	2		2	10		40	50	2
Sum		18	12	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
MPD2210	Machine Design (1)	3	4	7	75		100	175	4
MPD2211	Joining of Materials	3	2	5	25	25	75	125	3
MEP2251	Heat Transfer	2	2	4	30		70	100	3
EPM2244	Electrical Machines	3	2	5	40		85	125	3
MPD2212	Metrology Measuring Equipment	2	2	4	20	20	60	100	3
MPD2213	Furnaces and Heat Treatment	3	2	5	25	25	75	125	3
Sum		16	14	30				750	

Production Engineering and Mechanical Design Third Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
MPD3114	Machine Design (2)	2	3	5	50		75	125	3
MPD3115	Theory of Vibrations	3	3	6	50		100	150	3
MPD3116	Theory of Metal Cutting	3	3	6	50		100	150	3
MPD3117	Theory of Metal Forming	3	3	6	50		100	150	3
MPD3118	Machine Tools	2	2	4	20	20	60	100	3
MEP31**	Elective Course (1)	2	1	3	25		50	75	3
Sum		15	15	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
MPD3219	Machine (3)	2	3	5	50		75	125	3
MPD3220	Forming Machines	3	3	6	30	30	90	150	3
MPD3221	Machining Technology	3	3	6	30	30	90	150	3
MPD3222	Forming Technology	3	3	6	30	30	90	150	3
MPD3223	Automatic Control of Mechanical Systems	3	2	5	40		85	125	3
MPD32H4	Laws and Legislation	2		2	10		40	50	2
Sum		16	14	30				750	

Production Engineering and Mechanical Design Fourth Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
MPD4124	Industrial Organization	3	2	5	40		85	125	3
MPD4125	Plant Layout	3	2	5	40		85	125	3
MPD4126	Metrology	2	4	6	30	30	90	150	3
MPD41**	Elective Course (2)	3	2	5	25	25	75	125	3
MPD41**	Elective Course (3)	3	2	5	40		85	125	3
MPD4103	Project	1	3	4	40			40	3
Sum		15	15	30				690	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
MPD4232	Operations Research	3	2	5	40		85	125	3
MPD4233	Tools Design and Production Facilities	3	4	7	35	40	100	175	3
MPD4234	Statistics and Quality Control	2	2	4	30		70	100	3
MPD42**	Elective Course (4)	3	2	5	25	25	75	125	3
MPD42**	Elective Course (5)	3	2	5	40		85	125	3
MPD4031	Project		4	4	60	100 Discussion		200	
Sum		14	16	30				850	

Production Engineering and Mechanical Design Elective Courses
--

Elective Course (1)

Code	Course Title
MEP3152	New and Renewable Energy
MEP3153	Refrigeration and Air Conditioning
MEP3154	Internal Combustion Engines

Elective Course (2)

Code	Course Title
MPD4127	Non-Traditional Machining
MPD4128	Composite Materials

Elective Course (3)

Code	Course Title
MPD4129	Mechatronics
MPD4130	Numerical Control of Machine Tools

Elective Course (4)

Code	Course Title
MPD4235	Jigs and Fixtures
MPD4236	Industrial Robots

Elective Course (5)

Code	Course Title
MPD4237	Total Quality
MPD4238	Use of Computer in Manufacturing

Mechanical Power Engineering

Mechanical Power Engineering Second Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
PME2113	Engineering Mathematics (3)	4	2	6	50		100	150	3
MPD2150	Machine Design	2	3	5	40		85	125	3
MPD2151	Theory of Machines	3	2	5	40		85	125	3
MEP2103	Fluid Mechanics (1) a	3	3	6	30	30	90	150	3
MEpP2104	Thermodynamics (2)	3	2	5	25	25	75	125	3
MEP21H5	Engineering Economic	2	1	3	25		50	75	2
Sum		17	13	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
EPM2245	Electrical Machines	3	2	5	40		85	125	3
MPD2252	Production Engineering	3	2	5	25	25	75	125	3
MEP2205	Measuring Instruments	3	2	5	25	25	75	125	3
MEP2206	Heat Transfer (1)	3	3	6	30	30	90	150	3
MEP2203	Fluid Mechanics (1) b	3	3	6	30	30	90	150	3
MEP22H6	Industrial Safety and Legislation	2	1	3	25		50	75	2
Sum		17	13	30				750	

Mechanical Power Engineering Third Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
MPD3153	Theory of Vibrations	3	2	5	40		85	125	3
MEP3107	Refrigeration and Air Conditioning a	3	2	5	40		85	125	3
MEP3108	Heat Transfer (2)	3	2	5	25	25	75	125	3
MEP3109	Heat Engines a	3	2	5	40		85	125	3
MEP3110	Fluid Mechanics (2)	3	2	5	25	25	75	125	3
M**31**	Elective Course (1)	3	2	5	40		85	125	3
Sum		18	12	30				750	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
EMP3248	Electric Power	3	2	5	40		85	125	3
MEP3207	Refrigeration and Air Conditioning b	3	2	5	25	25	75	125	3
MEP3209	Heat Engines b	3	2	5	25	25	75	125	3
MEP3214	Thermal Power Stations	3	2	5	40		85	125	3
MEP3215	Gas Dynamics	3	2	5	40		85	125	3
MEP32**	Elective Course (2)	3	2	5	25	25	75	125	3
Sum		18	12	30				750	

Mechanical Power Engineering Fourth Year

First Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
MEP4119	Environmental Studies	3	2	5	40		85	125	3
MEP4120	Hydraulic Machines a	3	2	5	25	25	75	125	3
MEP4121	Automatic Control of Mechanical Systems	3	3	6	30	30	90	150	3
MEP41**	Elective Course (3)	3	2	5	40		85	125	3
MEP41**	Elective Course (4)	3	2	5	40		85	125	3
MEP4028	Project	1	3	4	40				
Sum		16	14	30				650	

Second Term

Code	Course Title	Hrs/Week			Mark Distribution				Time of Written Exam
		Lectures	Tutorial	Total	Term Work	Practical/Oral	Written Exam	Total	
MEP4229	Hydraulic and Pneumatic Circuits	3	2	5	30	30	90	150	3
MEP4230	Power Plants	3	2	5	40		85	125	3
MEP4220	Hydraulic Machines b	3	2	5	25	25	75	125	3
MEP42**	Elective Course (5)	3	2	5	25	25	75	125	3
MEP42**	Elective Course (6)	3	2	5	40		85	125	3
MEP4028	Project	1	3	4	60	100 Discussion		200	
Sum		16	13	29				850	

Mechanical Power Engineering Elective Courses
--

Elective Course (1)

Code	Course Title
MPD3154	Composite Material
MPD3155	Quality Control and Quality Assurance
MEP3113	Advanced Fluid Mechanics

Elective Course (2)

Code	Course Title
MEP3216	Combustion
MEP3217	New and Renewable Energy
MEP3218	Computer Application in Mechanical Power

Elective Course (3)

Code	Course Title
MEP4122	Fuel Systems
MEP4123	Operations Research of Mechanical Power
MEP4124	Logistic Support in Mechanical Power Systems

Elective Course (4)

Code	Course Title
MEP4125	Computational Fluid Dynamics
MEP4126	Mechatronics
MEP4127	Advanced Studies in Refrigeration and Air Conditioning

Elective Course (5)

Code	Course Title
MEP4231	Environmental Engineering
MEP4232	Gas Turbine Engines
MEP4233	Steam Turbines

Elective Course (6)

Code	Course Title
MEP4234	Water Distillation and Water Pumping
MEP4235	Robotics
MEP4236	Maintenance of Equipment