

Study Plan

1st Year

Code	Course Title	Credit Hours	Weekly Hours			Prerequisite
			Lec.	Tut.	Lab	
Fall Semester (Term 1)						
EMAT 110	Calculus for Engineering I	3	3	2	--	
ECHM 110	General Chemistry for Engineering	3	2	2	2	
EPHS 110	Engineering Mechanics I-Statics	3	3	2	--	
ENGR 110	Engineering Design & Graphics	4	3	--	2	
ENGR 111	Engineering Profession; Practice & Responsibilities	2	2	2	--	
HUMN 110	English Language	3	2	--	3	
Total Hours		18	15	8	7	
Spring Semester (Term 2)						
EMAT 120	Calculus for Engineering II	3	3	2	--	EMAT 110
EMAT 121	Linear Algebra	3	3	2	--	
EPHS 120	Engineering Mechanics II Dynamics	3	3	2	--	EMAT 110 and EPHS 110
EPHS 121	Waves, Electricity & Magnetic Fields	3	2	2	2	
ENGR 120	Engineering Computation	3	2	2	2	
HUMN 120	Technical Writing and Communication	3	3	2	--	
Total Hours		18	16	12	4	

2ND YEAR

Code	Course Title	Credit Hours	Weekly Hours			Prerequisite
			Lec.	Tut.	Lab	
Fall Semester (Term 3)						
EMAT 230	Calculus for Engineering III	3	3	2	--	EMAT 120
EMAT 231	Differential Equations & Partial Differential Equations	3	3	2	--	EMAT 120
ENGR 230	Structures and Properties of Materials	3	2	2	2	ECHM 110, EPHS 121
EMAT 232	Vector, Complex and Fourier Analysis	4	4	2	--	EMAT 110, EMAT 120
COMM 230	Electronic Technology	2	2	2	---	---
EPHS 230	Optical and Thermal Physics	3	3	2	--	EMAT 120
Total Hours		18	17	12	2	
Spring Semester (Term 4)						
EMAT 240	Statistics & Probability for Engineering	3	3	2	--	EMAT 230
COMM 240	Computer Hardware	3	3	2	--	---
COMM 241	Electrostatics and Magneto statics	3	3	2	---	---
EMAT 350	Numerical Techniques	3	3	2	---	EMAT 231
COMM 242	Electrical Circuits	3	2	2	2	---
HUMN 240	Engineering Economy	3	3	2	--	
Total Hours		18	17	12	2	

3RD YEAR

Code	Course Title	Credit Hours	Weekly Hours			Prerequisite
			Lec.	Tut.	Lab	
Fall Semester (Term 5)						
EPHS 240	Modern physics and Quantum Mechanics	3	3	2	---	EMAT 231, EMAT 240
COMM 350	Signals and Systems	4	3	1	2	EMAT 240
COMM 351	Electronic Materials	3	3	2	---	---
COMM 352	Electromagnetic Fields	3	3	2	---	COMM 241
COMM 353	Logic Design	3	2	2	2	---
COMM 354	Electronic Measurements	2	---	---	4	---
Total Hours		18	14	9	8	
Spring Semester (Term 6)						
ENGR 360	Thermodynamics	3	3	2		EMAT 120
COMM 360	Solid State Electronic Devices	3	3	2	--	COMM 230
COMM 361	Electronic Circuits	3	3	2	--	COMM 242
COMM 362	Waves and Transmission Lines	3	2	2	2	COMM 352
COMM 363	Computer Architecture	3	3	2	---	---
HUMN xxx	Free Elective	3	3			----
Total Hours		18	17	10	2	

4TH YEAR

Code	Course Title	Credit Hours	Weekly Hours			Prerequisite
			Lec.	Tut.	Lab	
Fall Semester (Term 7)						
COMM 41x	Technical Elective (1)	3	2	2	2	---
COMM 471	Digital Circuit Design	3	2	2	2	COMM 353, COMM 361
COMM 42x	Technical Elective (2)	3	3	2	---	---
COMM 473	Analog Communication Systems	3	2	2	2	COMM 350, COMM 360
COMM 474	Project Management	3	3	2	--	---
HUMN xxx	Free Elective	3	3	--	--	
Total Hours		18	14	10	6	
Spring Semester (Term 8)						
COMM 480	Organizational Behaviour	3	3	2	--	---
COMM 43x	Technical Elective (3)	3	2	2	2	---
COMM 481	Communication Networks	3	3	1	--	---
COMM 44x	Technical Elective (4)	3	3	2	---	---
HUMN 480	Impact of Technology on Society	3	3	--	--	---
COMM 482	Control Systems	3	2	2	2	COMM 350
Total Hours		18	16	9	4	

Technical Elective (1)

- COMM 410 Optoelectronic devices (Prerequisite: COMM 351, COMM 360)
 COMM 411 Microwave Circuits (Prerequisite: COMM 362)
 COMM 412 Data Analysis and Algorithms (Prerequisite: COMM 353, ENGR 120)

Technical Elective (2)

- COMM 420 Digital Signal Processing (Prerequisite: COMM 350, COMM 353)
 COMM 421 Distributed Systems (Prerequisite: COMM 363)
 COMM 422 Analog Circuits (Prerequisite: COMM 360, COMM 361)

Technical Elective (3)

- COMM 430 Microwave Devices (Prerequisite: COMM 360, COMM 362)
 COMM 431 VLSI Design (Prerequisite: COMM 353)
 COMM 432 Statistical Signal Processing (Prerequisite: EMAT 240, COMM 350)

Technical Elective (4)

- COMM 440 Antenna Engineering and Propagation (Prerequisite: COMM 360)
 COMM 441 Embedded System Design (Prerequisite: COMM 353, COMM 361)
 COMM 442 Image Processing (Prerequisite: COMM 350, COMM 371)

5TH YEAR

Code	Course Title	Credit Hours	Weekly Hours			Prerequisite
			Lec.	Tut.	Lab	
Fall Semester (Term 9)						
COMM 590	Digital Communications	3	2	2	2	COMM 473
COMM 591	Computer Networks	3	3	2	---	COMM 482
COMM 51x	Technical Elective (5)	3	3	2	---	---
COMM 52x	Technical Elective (6)	3	3	2	---	---
COMM 592	Quality Engineering	3	3	2	--	
COMM 593	Project (1)	3	1	---	4	---
Total Hours		18	15	10	6	
Spring Semester (Term 10)						
COMM 594	Project (2)	6	2	---	8	---
COMM 53x	Technical Elective (7)	3	3	2	---	---
COMM 595	Information Theory and Coding	3	3	2	---	COM 350, COMM 471
COMM 596	Industrial Accounting	3	3	2	---	---
COMM 597	Introduction to Decision Analysis	3	3	2	--	
Total Hours		18	14	8	8	

ELECTIVE (5)

- COMM 510 Optical Communication Systems (Prerequisite: COMM 473, COMM 481)
 COMM 511 Wireless and Mobile Communications (Prerequisite: COMM 473, COMM 481)
 COMM 512 CAD for Digital Circuits (Prerequisite: ENGR 120, COMM 353)
 COMM 513 Multimedia Engineering (Prerequisite: COMM 350)

Elective (6)

- COMM 520 Network Security (Prerequisite: COMM 350, COMM 481)
 COMM 521 Acoustics (Prerequisite: COMM 350)
 COMM 522 Analog Integrated Circuit Design (Prerequisite: COMM 361, COMM 422)
 COMM 523 Satellite Communications (Prerequisite: COMM 473)

Elective (7)

- COMM 530 Integrated Optics and Optical MEMS (Prerequisite: ENGR 230, COMM 360)
 COMM 531 Audio and Video Encoding (Prerequisite: COMM 350)
 COMM 532 Microwave Measurements (Prerequisite: COMM 430)
 COMM 533 RF Circuit Design (Prerequisite: COMM 361, COMM 422)