8. Course Outline

Year 1 Semester I

Unit Hours		Unit Title	No. of Lecture
HRD	2101	Communication skills	45
SMA	2170	Algebra	45
SPH	2170	Physics I	45
SCH	2102	Chemistry I	45
EMG	2102	Engineering Drawing I	45
HRD		General Economics	45
SMA	2177	Applied Geometry	45
SMA	2172	Calculus 1	45
SZL	2111	HIV/AIDS	45
Year	1 Seme	ster II	
SMA	2173	Calculus II	45
ICS	2174	Introduction to Computer Science	45
ETI	2101	Digital Electronics I	45
ETI	2102	Physical Electronics I	45
EMG	2103	Workshop Processes and Practice I	45
ETI	2103	Electrical Workshop Practice	45
ETI	2104	Material Science	45
HRD	2102	Development studies	45
		Total number of lecture hours	765

Year 2 Semester I

Unit Hours		Unit Title	No. of Lecture
SMA ETI ETI	2273 2201	Applied Mathematics 1 Analogue Electronics I Electrical Machines I	45 45 45
ETI SMA	2203	Physical Electronics II Statistics	45 45
ETI	2204	Calculus III Circuit and Network theory I	45 45 45
BCT Year 2	2106 2 2 Seme	Operating Systems Iester II	43
SMA ETI ETI ICS ETI ETI SMA	2205 2206 2175 2207 2208	Ordinary Differential Equations Analogue Electronics II Computer Networks Computer Programming I Circuit and Network theory II Electrical Machines II Calculus IV	45 45 45 45 45 45 45

ETI	2209	Digital Electronics II		45	
		Total number of lecture hours		72()
ETI	2210	Practical Attachment I	8 Weeks		
Year	3 Seme	ster I			
Unit Hours		Unit Title	No.	of	Lecture
SMA	2371	Partial Differential Equations		45	
ETI		•		45	
ETI		Analogue Electronics III		45	
	2276			45	
		Instrumentation and Measurements		45	
		Electroacoustics		45	
		Power Electronics I		45	
ETI		Electromagnetics I		45	
Vear	3 Seme	 ster II			
		Digital System Design		45	
	2302			45	
	2308	ε		45	
	2480			45	
		Numerical Analysis		45	
		Power Electronics II		45	
		Control Engineering		45	
ETI	2311	Electromagnetics II		45	
		Total number of lecture hours		72()
ETI	2312	Practical Attachment II		8 Weeks	
Year -	4 Seme	ester I			
Unit Hours		Unit Title	No.	of	Lecture
при	2114	Passarch Mathadalagy		45	
		Research Methodology Accounting and Finance		45	
	2108	1 0		45	
	2401	Transmission Lines		45	
ETI		8		45	
		Analogue filters		45	
	2404	Optical Communications		45	
	2304 4 Seme	Database Management Systems ster II		45	
				 15	
EGE		Geospatial Information Systems Applications	•	45	
ETI	2405	Antenna Theory and Design		45	

ETI	2406	Radio Wave Propagation	45		
ETI		1	45		
	2408	11	45		
ETI	2409	Signal and Communications II	45		
		Project Management	45		
E11	2410	Digital Communications Principles	45 		
		Total number of lecture hours	720)	
ETI	2411	Practical Attachment III	8 V	8 Weeks	
	5 Seme				
Unit Hour		Unit Title No.	of	Lecture	
Core	 Units				
ETI	2501	Project	45		
ETI	2502	Data Communications	45		
ETI	2503	Reliability Engineering	45		
HBC	2112	Business Law I	45		
		Wireless Communication I	45		
ETI	2505	Digital Signal Processing	45		
ICS	2403	Distributed Computing and Applications	45		
Electi					
		ication Engineering			
		Telecommunication Systems	45		
		Engineering	4.5		
		Internet Application Programming I	45 		
Year	5 Seme	ster II			
Core					
		Project	45		
		Digital Image Processing	45		
HRD			45		
ETI	2508		45		
ETI	2509		45		
ETI	2510	Network Security and Cryptography	45		
Electi					
		ication Engineering			
ETI		Wireless Communication II	45		
ETI	2512	Television Systems	45		
		Engineering (Department to choose any two)			
ICS	2308	Artificial Intelligence	45		
BIT	2305	Human Computer Interface	45		
BIT	2315	E-Commerce	45		
ETI	2513	Embedded Systems	45		
		Total number of lecture hours	720)	

Total number of lecture hours required for graduation: 3645 hours.

Notes

Assessment of practical attachment ETI 2210, ETI 2312 and ETI2411 is 100% based on student's logbook and summary reports, and supervisor evaluation report.

The elective courses will be available depending on the human resource capacity of the department at the time.