

Mahatma Gandhi University Revised Scheme For
B Tech Syllabus Revision 2010 (Electronics & Communication
Engineering)
Common for All Branches
SCHEME S1S2

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Internal	End-sem		
EN010 101	Engineering Mathematics I	2	1	-	50	100	3	5
EN010 102	Engineering Physics	1	1	-	50	100	3	4
EN010 103	Engineering. Chemistry & Environmental Studies	1	1	-	50	100	3	4
EN010 104	Engineering Mechanics	3	1	-	50	100	3	6
EN010 105	Engineering Graphics	1	3	-	50	100	3	6
EN010 106	Basic Civil Engineering	1	1	-	50	100	3	4
EN010 107	Basic Mechanical Engineering	1	1	-	50	100	3	4
EN010 108	Basic Electrical Engineering	1	1	-	50	100	3	4
EN010 109	Basic Electronics Engineering. & Information Technology	2	1	-	50	100	3	5
<i>EN010 110</i>	<i>Mechanical Workshop</i>	0	-	3	50	-	3	1
<i>EN010 111</i>	<i>Electrical and Civil Workshops</i>	-	-	3	100	-	3	1
	Total	13	11	6			30	44

3rd Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Internal	End-sem		
EN010 301A	Engineering Mathematics II	2	2	-	50	100	3	4
EN010 302	Economics and Communication Skills	2	2	-	50	100	3	4 (3+1)
EC010 303	Network Theory	2	2	-	50	100	3	4
EC010 304	Solid State Devices	3	1	-	50	100	3	4
EC010 305	Analog Circuits - I	3	1	-	50	100	3	4
EC010 306	Computer Programming	3	1	-	50	100	3	4
EC010 307	<i>Analog Circuits Lab</i>	-	-	3	50	100	3	2
EC010 308	<i>Programming Lab</i>	-	-	3	50	100	3	2
	Total	15	9	6				28

4th Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Internal	End-sem		
EN010 401	Engineering Mathematics III	2	2	-	50	100	3	4
EN010 402(ME)	Principles of Management(C,M,P,L,A,T)	3	1	-	50	100	3	4
EC010 403	Signals and Systems	2	2	-	50	100	3	4
EC010 404	Digital Electronics	3	1	-	50	100	3	4
EC010 405	Analog Communication	3	1	-	50	100	3	4
EC010 406	Analog Circuits -II	3	1	-	50	100	3	4
EC010 407	<i>Analog Circuits -II Lab</i>	-	-	3	50	100	3	2
EC010 408	<i>Analog Communication Lab</i>	-	-	3	50	100	3	2
	Total	16	8	6				28

5th Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Internal	End-sem		
EN010 501A	Engineering Mathematics IV	2	2	-	50	100	3	4
EC010 502	Control Systems	2	2		50	100	3	4
EC010 503	Digital System Design	3	1	-	50	100	3	4
EC010 504(EE)	Electrical Drives and Control	3	1	-	50	100	3	4
EC010 505	Applied Electromagnetic Theory	3	1	-	50	100	3	4
EC010 506	Microprocessors and Applications	3	1	-	50	100	3	4
EC010 507	<i>Digital Electronics Lab</i>	-	-	3	50	100	3	2
EC010 508(EE)	<i>Electrical Drives and Control Lab</i>	-	-	3	50	100	3	2
	Total	16	8	6				28

6th Semester

Code	Subject	Hours/week			Marks		End- sem duration -hours	Credits
		L	T	P/D	Inte- rnal	End- sem		
EC010 601	Digital Communication Techniques	2	2	-	50	100	3	4
EC010 602	Digital Signal Processing	2	2	-	50	100	3	4
EC010 603	Radiation and Propagation	3	1	-	50	100	3	4
EC010 604	Computer Architecture and Parallel Processing	3	1	-	50	100	3	4
EC010 605	Microcontrollers and Applications	3	1	-	50	100	3	4
EC010 606Lxx	Elective I	3	1	-	50	100	3	4
EC010 607	<i>Microprocessor and Microcontroller Lab</i>	-	-	3	50	100	3	2
EC010 608	<i>Mini Project Lab</i>	-	-	3	50	100	3	2
	Total	16	8	6				28

Elective I

EC010 606L01 – Data Structures and Algorithms

EC010 606L02 – Data Base Management Systems

EC010 606L03 – High Speed Digital Design

EC010 606L04 – Medical Electronics

EC010 606L05 – Soft Computing Techniques

EC010 606L06 – Television and Radar Engineering

7th Semester

Code	Subject	Hours/week			Marks		End- sem duration -hours	Credits
		L	T	P/D	Inte- rnal	End- sem		
EC010 701	VLSI Design	2	2	-	50	100	3	4
EC010 702	Information Theory and Coding	2	2	-	50	100	3	4
EC010 703	Microwave Engineering	2	1	-	50	100	3	3
EC010 704	Electronic Instrumentation	2	1	-	50	100	3	3
EC010 705	Embedded Systems	2	1	-	50	100	3	3
EC010 706Lxx	Elective II	2	2	-	50	100	3	4
EC010 707	<i>Advanced Communication Lab</i>	-	-	3	50	100	3	2
EC010 708	<i>Signal Processing Lab</i>	-	-	3	50	100	3	2
EC010 709	Seminar	-	-	2	50	-	-	2
EC010 710	<i>Project</i>	-	-	1	50	-	-	1
	Total	12	9	9				28

Elective II

EC010 706L01 – Optimization Techniques
EC010 706L02 – Speech and Audio Processing
EC010 706L03 – Digital Image Processing
EC010 706L04 – Wavelets and Applications
EC010 706L05 – Antenna Theory and Design
EC010 706L06 – System Software

8th Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Internal	End-sem		
EC010 801	Wireless Communication	3	2	-	50	100	3	4
EC010 802	Communication Networks	2	2	-	50	100	3	4
EC010 803	Light Wave Communication	2	2	-	50	100	3	4
EC010 804Lxx	Elective III	2	2	-	50	100	3	4
EC010 805Gxx	Elective IV	2	2	-	50	100	3	4
EC010 806	<i>VLSI and Embedded Systems Lab</i>	-	-	3	50	100	3	2
EC010 807	Project	-	-	6	100	-	-	4
EC010 808	Viva Voce	-	-	-	-	50	-	2
	Total	11	10	9				28

Electives III

EC010 804L01 – Nano Electronics
EC010 804L02 – Micro Electro Mechanical Systems
EC010 804L03 – Secure Communication
EC010 804L04 – Management Information Systems
EC010 804L05 – Pattern Recognition
EC010 804L06 – R F Circuits

Electives IV

EC010 805G01 – Test Engineering
EC010 805G02 – E-Learning
EC010 805G03 – Mechatronics
EC010 805G04 – Bio Informatics
EC010 805G05 – Intellectual Property Rights
EC010 805G06 – Professional Ethics