MAHATMA GANDHI UNIVERSITY

Kottayam, Kerala

B.Tech. –Degree Courses 2010-2011

Revised Scheme and Syllabus

And

Syllabus for Combined I & II Sem

Contents

1. **Course Regulations of B.Tech. –Degree Courses (With effect from 2010 admissions)**

2. **Revised Scheme For B Tech Syllabus 2010-11**

3. **Syllabus for combined Ist & IInd Sem** (**Common for all branches)**

From,

M.C.Philipose

Chairman

Board of Studies in Engg (UG)

M.G.University

Kottayam

To

The Registrar

M.G.University

Kottayam

Sir,

Sub: Regulation,scheme&syllabus

I am herewith submitting the following approved by the Board of Studies in Engg (UG) held on 31.05.2010 at M.G.university mini conference hall.

1. Regulation for B.Tech degree(2010 onwards)

2. Scheme for first to eighth semesters

3. Syllabus for combined first & second (common for all branches)

I request you to take the necessary action in this regard

Thanking you

Yours sincerely

31.05.2010

Mahatma Gandhi University

Course Regulations

of

B.Tech. –Degree Courses

(With effect from 2010 admissions)

EE010 805G03 Advanced Mathematics

EE010 805G04 Virtual Instrumentation

EE010 805G05 Digital Image Processing

EE010 805G06 Distributed Power Systems

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	Inte-rnal	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
EN010 110	*Mechanical Workshop*	0	-	3	50	-	3	1
EN010 111	*Electrical and Civil Workshops*	-	-	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	Inte-rnal	End-sem		
EN010 301	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	*Analog Circuits Lab*	-	-	3	50	100	3	2
EC010 308	*Programming Lab*	-	-	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	Inte-rnal	End-sem		
EN010 401	Engineering Mathematics III	2	2	-	50	100	3	4
EN010 402(ME)	Principles of Management	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	*Analog Circuits -II Lab*	-	-	3	50	100	3	2
EC010 408	*Analog Communication Lab*	-	-	3	50	100	3	2
	Total	**16**	**8**	**6**				**28**

5th Semester

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	*Microprocessor and Microcontroller Lab*	-	-	3	50	100	3	2
EC010 608	*Mini Project Lab*	-	-	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	*Advanced Communication Lab*	-	-	3	50	100	3	2
EC010 708	*VLSI and Embedded Systems Lab*	-	-	3	50	100	3	2
EC010 709	Seminar	-	-	2	50	-	-	2
EC010 710	*Project*	-	-	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-	Credi

		L	T	P/D	Inte-rnal	End-sem	hours	ts
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	*Systems lab*	-	-	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