

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)

CE010 805G02 Environmental Pollution Control Techniques

CE010 805G03 Optimization Techniques

CE010 805G04 Land Use Planning

CE010 805G05 Numerical Methods

CE010 805G06 Remote Sensing and GIS Applications

Mahatma Gandhi University Revised Scheme For

B Tech Syllabus Revision 2010

(Computer Science & Engineering)

Common for All Branches

SCHEME S1&S2

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	4
EN010 102	Engineering Physics	1	1	-	50	100	3	3
EN010 103	Engineering Chemistry & Environmental Studies	1	1	-	50	100	3	3
EN010 104	Engineering Mechanics	3	1	-	50	100	3	5
EN010 105	Engineering Graphics	1	3	-	50	100	3	5
EN010 106	Basic Civil Engineering	1	1	-	50	100	3	3
EN010 107	Basic Mechanical Engineering	1	1	-	50	100	3	3
EN010 108	Basic Electrical Engineering	1	1	-	50	100	3	3
EN010 109	Basic Electronics Engg. &	2	1	-	50	100	3	4

	Information Technology								
EN010 110	Mechanical Workshop	0	-	3	50	-	3	3	
EN110 111	Electrical and Civil Workshops	-	-	3	100	-	3	2	
	Total	13	11	6			30	38	

3rd Semester

Code	Subject	Hours/week			Marks			
		L	T	P/D	Internal	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)
CS010 303	Problem Solving and Computer Programming	2	2	-	50	100	3	4
CS010 304	Computer Organization	3	1	-	50	100	3	4
CS010 305	Switching Theory and Logic Design	3	1	-	50	100	3	4
CS010 306(EC)	Electronics Devices and Circuits	3	1	-	50	100	3	4
CS010 307	Programming lab	-	-	3	50	100	3	2
CS010 308(EC)	Logic Design lab	-	-	3	50	100	3	2
	Total	16	8	6				28

4th Semester

Code	Subject	Hours/week			Marks		End-sem duration -hours	Credits
		L	T	P/D	Inte-	End-		

		Th	Tu	W	Th	Fr	Sa	Su	Internal	Sem	Credits	
EN010 401	Engineering Mathematics III	2	2	-					50	100	3	4
CS010 402	Object Oriented Programming	3	1						50	100	3	4
CS010 403	Data Structures and Algorithms	2	2	-					50	100	3	4
CS010 404(EC)	Signals and Communication Systems	3	1	-					50	100	3	4
CS010 405	Microprocessor Systems	3	1	-					50	100	3	4
CS010 406	Theory of Computation	3	1	-					50	100	3	4
CS010 407	Data Structures lab	-	-	3					50	100	3	2
CS010 408(EC)	Electronic Circuits & Communication lab	-	-	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 501B	Engineering Mathematics IV	2	2	-	50	100	3	4
EN010 502(ME)	Principles of Management	3	1		50	100	3	4
CS010 503	Database Management Systems	2	2	-	50	100	3	4
CS010 504(EC)	Digital Signal Processing	3	1	-	50	100	3	4
CS010 505	Operating Systems	3	1	-	50	100	3	4
CS010 506	Advanced Microprocessors & Peripherals	3	1	-	50	100	3	4

CS010 507	Database Lab	-	-	3	50	100	3	2
CS010 508	Hardware & Microprocessors lab	-	-	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	Internal	End-sem		
CS010 601	Design and Analysis of Algorithms	2	2	-	50	100	3	4
CS010 602	Internet Computing	2	2	-	50	100	3	4
CS010 603	System Software	3	1	-	50	100	3	4
CS010 604	Computer Networks	3	1	-	50	100	3	4
CS010 605	Software Engineering	3	1	-	50	100	3	4
CS010 606Lxx	Elective I	2	2	-	50	100	3	4
CS010 607	Operating Systems Lab	-	-	3	50	100	3	2
CS010 608	Mini Project	-	-	3	50	100	3	2
	Total	16	8	6				28

Elective I

- CS010 606L01 Distributed Systems
- CS010 606L02 Micro controller Based Systems
- CS010 606L03 User Interface Design
- CS010 606L04 Unix Shell Programming

CS010 606L05 Embedded Systems

CS010 606L06 Advanced Software Environments

7th Semester

Code	Subject	Hours/week			Marks		End- sem duratio n-hours	Cred its
		L	T	P/D	Inte- rnal	End- sem		
CS010 701	Web Technologies	2	2	-	50	100	3	4
CS010 702	Compiler Construction	2	2	-	50	100	3	4
CS010 703	Computer Graphics	2	1	-	50	100	3	3
CS010 704	Object Oriented Modelling & Design	2	1	-	50	100	3	3
CS010 705	Principles of Programming Languages	2	1	-	50	100	3	3
CS010 706Lxx	Elective II	2	2	-	50	100	3	4
CS010 707	Systems Programming Lab	-	-	3	50	100	3	2
CS010 708	Networking lab	-	-	3	50	100	3	2
CS010 709	Seminar	-	-	2	50	-	-	2
CS010 710	Project	-	-	1	50	-	-	1
	Total	12	9	9				28

Elective II

CS010 706L01 Real Time Systems

CS010 706L02 Data Mining and Data Warehousing

CS010 706L03 Operating System Kernel Design

CS010 706L04 Digital image processing

CS010 706L05 Data Processing and File Structures

CS010 706L06 Client Server and Applications

8th Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Internal	End-sem		
CS010 801	High Performance Computing	3	2	-	50	100	3	4
CS010 802	Artificial Intelligence	2	2	-	50	100	3	4
CS010 803	Security in Computing	2	2	-	50	100	3	4
CS010 804Lxx	Elective III	2	2	-	50	100	3	4
CS010 805Gxx	Elective IV	2	2	-	50	100	3	4
CS010 806	Computer Graphics Lab	-	-	3	100	-	-	2
CS010 807	Project	-	-	6	50	100	3	4
CS010 808	Viva Voce	-	-	-	-	50	-	2
	Total	11	10	9				28

Elective III

CS010 804L01	E-commerce
CS010 804L02	Grid Computing
CS010 804L03	Bioinformatics
CS010 804L04	Optimization Techniques
CS010 804L05	Mobile Computing
CS010 804L06	Advanced networking trends

Elective IV

CS010 805G01	Multimedia Techniques
CS010 805G02	Neural networks
CS010 805G03	Advanced Mathematics

CS010 805G04	Software Architecture
CS010 805G05	Natural Language Processing
CS010 805G06	Pattern Recognition

Mahatma Gandhi University Revised Scheme For
B Tech Syllabus Revision 2010

(ELECTRICAL & ELECTRONICS ENGINEERING)

Common for All Branches

SCHEME S1S2

Code	Subject	Hours/week			Marks		End-sem duration- hours	Credits
		L	T	P/D	Inter- nal	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
EN110 111	Electrical and Civil Workshops	-	-	3	100	-	3	1