

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)

Mahatma Gandhi University Revised Scheme For

B Tech Syllabus Revision 2010

(Information Technology)

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
EN010 110	Mechanical Workshop	0	-	3	50	-	3	1
EN110 111	Electrical and Civil Workshops	-	-	3	100	-	3	1
	Total	13	11	6			30	44

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		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)
IT010 303 (EC)	Discrete and Integrated Electronic Circuits	2	2	-	50	100	3	4
IT010 304	Switching Theory and Logic Design	3	1	-	50	100	3	4
IT010 305	Principles of Communication Engineering	3	1	-	50	100	3	4
IT010 306	Problem Solving and Computer Programming	3	1	-	50	100	3	4
IT010 307 (EC)	<i>Electronic Circuits and Communication Lab</i>	-	-	3	50	100	3	2
IT010 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	3	1	-	50	100	3	4
IT010 403	Computer Organisation and Architecture	2	2	-	50	100	3	4
IT010 404	Theory of Computation	3	1	-	50	100	3	4

IT010 405	Data Structures and Algorithms	3	1	-	50	100	3	4
IT010 406	Object Oriented Techniques	3	1	-	50	100	3	4
IT010 407	<i>Logic Design Lab</i>	-	-	3	50	100	3	2
IT010 408	<i>Data Structures and Programming 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 501B	Engineering Mathematics IV N	2	2	-	50	100	3	4
IT010 502	Microprocessors and Microcontrollers	3	1		50	100	3	4
IT010 503	Digital Communication	2	2	-	50	100	3	4
IT010 504	Operating Systems	3	1	-	50	100	3	4
IT010 505	Language Translators	3	1	-	50	100	3	4
IT010 506	Database Management Systems	3	1	-	50	100	3	4
IT010 507	<i>PC Hardware and Microprocessors Lab</i>	-	-	3	50	100	3	2
IT010 508	<i>Systems Lab</i>	-	-	3	50	100	3	2
	Total	16	8	6				28

6th Semester

Code	Subject	Hours/week	Marks	End-sem	Credits
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		L	T	P/D	Internal	End-sem	duration -hours	
IT010 601	Computer Networks	2	2	-	50	100	3	4
IT010 602	Digital Signal Processing	2	2	-	50	100	3	4
IT010 603	Information Theory and Coding	3	1	-	50	100	3	4
IT010 604	Software Engineering	3	1	-	50	100	3	4
IT010 605	Design and Analysis of Algorithms	3	1	-	50	100	3	4
IT010 606Lxx	Elective I	2	2	-	50	100	3	4
IT010 607	Network Programming Lab	-	-	3	50	100	3	2
IT010 608	<i>Mini Project</i>	-	-	3	50	100	3	2
Total		15	9	6				28

Elective I

IT010 606L01 Simulation and Modelling

IT010 606L02 Management Information Systems

IT010 606L03 UNIX Shell Programming

IT010 606L04 Advanced Database Systems

IT010 606L05 Parallel Computing

IT010 606L06 Optimization Techniques

7th Semester

Code	Subject	Hours/week			Marks		End-sem duration -hours	Credits	
		L	T	P/D	Internal	End-sem			
IT010 701	Financial Management and Banking	E-	2	2	-	50	100	3	4
IT010 702	Object Oriented Modelling and Design		2	2	-	50	100	3	4
IT010 703	Computer Graphics and Multimedia Systems		2	1	-	50	100	3	3
IT010 704	Internetworking		2	1	-	50	100	3	3
IT010 705	Web Applications Development		2	1	-	50	100	3	3
IT010 706Lxx	Elective II		2	2	-	50	100	3	4
IT010 707	Internetworking Lab		-	-	3	50	100	3	2
IT010 708	Computer Aided Software Engineering Lab		-	-	3	50	100	3	2
IT010 709	Seminar		-	-	2	50	-	-	2
IT010 710	Project		-	-	1	50	-	-	1
	Total		12	9	9				28

Elective II

IT010 706L01 Software Project Management

IT010 706L02 Optical Communication Networks

IT010 706 L03 Digital Speech and Image Processing

IT010 706L04 Real Time Systems

IT010 706L05 Operating System Kernel Design

IT010 706L06 Data Mining and Data Warehousing

8th Semester

Code	Subject	Hours/week			Marks		End-sem duration-hours	Credits
		L	T	P/D	Internal	End-sem		
IT010 801	Wireless Communication	3	2	-	50	100	3	4
IT010 802	Cryptography and Network Security	2	2	-	50	100	3	4
IT010 803	Artificial Intelligence	2	2	-	50	100	3	4
IT010 804Lxx	Elective III	2	2	-	50	100	3	4
IT010 805Gxx	Elective IV	2	2	-	50	100	3	4
IT010 806	Web Applications Lab	-	-	3	50	100	3	2
IT010 807	Project	-	-	6	100	-	-	4
IT010 808	Viva Voce	-	-	-	-	50	-	2
	Total	11	10	9				28

Electives III

IT010 804L01 Software Testing

IT010 804L02 Information Retrieval

IT010 804L03 High Speed Networks

IT010 804L04 Network Administration and Management

IT010 804L05 Enterprise Resource Planning

IT010 804L06 Grid Computing

Electives IV

IT010 805G01 Software Architecture

IT010 805G02 Advanced Mathematics

IT010 805G03 Ad Hoc and Sensor Networks

IT010 805G04 Electronic Business and Services

IT010 805G05 Neural Networks

IT010 805G06 Soft Computing

Mahatma Gandhi University Revised Scheme For
B Tech Syllabus Revision 2010 (Mechanical Engineering)

Common for All Branches

SCHEME S1S2

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		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