Reference No. GITAM/

Date.....

Query 1.3.2: Provide Document showing the experimental learning through project work/field work/internship as prescribed by the affiliating university / affiliating university curriculum. Provide Minutes of the Boards of Studies/ Academic Council meetings with approvals for these courses for the year 2016-17, 2017-18 , 2018-19 and 2019-20, 2020-21.

Response: The curriculum scheme prescribed by affiliating University is provided by highlighting the courses offering experimental learning through project work/field work/internship. The minutes of Board of Studies/Academic Council for these courses for the year 2016-17, 2017-18 , 2018-19, 2019-20 and 2020-21 are also attached.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

2016-17

MCA Second Year

Semester-III

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
17MCA33C1	Computer Graphics	80	20	100	4:0:0
17MCA33C2	Operating Systems	80	20	100	4:0:0
17MCA33C3	Advance Database Systems	80	20	100	4:0:0
17MCA33C4	Data Communication and Computer Networks	80	20	100	4:0:0
17MCA33C5	Object Technology	80	20	100	4:0:0
17MCA33CL1	SoftwareLab-5 i) Graphics Programming Using C/C++. ii) UNIX /Shell Programming.	100*	----	100	0:0:3
17MCA33CL2	SoftwareLab-6 i) Java Programming ii)ADBMS (PL/SQL & MYSQL)	100*	----	100	0:0:3
					26 Credits

Semester-IV

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
17MCA34C1	Advanced Java Programming	80	20	100	4:0:0
17MCA34C2	Object Oriented Analysis and Design using UML	80	20	100	4:0:0
17MCA34DA1/ 17MCA34DA2/ 17MCA34DA3	i) Theory of Computation or ii) Software Engineering or iii) Multimedia and Its Applications	80	20	100	4:0:0
17MCA34DB1/ 17MCA34DB2/ 17MCA34DB3	i) Analysis and Design of Algorithms or ii) Computer Security or iii)Digital Image Processing	80	20	100	4:0:0
17MCA34C3	Artificial Intelligence and Expert System	80	20	100	4:0:0
17MCA34CL1	SoftwareLab-7 Advance Java Programming	100*	----	100	0:0:3
17MCA34CL2	Software Lab-8 i)Object Oriented Analysis and Design using UML ii) PROLOG	100*	----	100	0:0:3
17MCA34C4	Minor Project-I	-	100	100	0:2:0
	Total				28 Credits

Open Elective (O)	
To be Chosen from the pool of Open Electives provided by the University (excluding the open elective prepared by the Department of Comp Sc. & Appls.)	3

Total Credits= 31 Credits

*20 marks out of 100 will be based on the evaluation/assessment of the candidate in Test(s) and Assignment(s) during the semester, which will be forwarded by the Head of Dept./Director to the Examiner(s). Further, both practical exams of a semester may be conducted on the same day in 2 sittings each maximum of 3 hours.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

MCA Third Year

Semester-V

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
18MCA35C1	Advanced Technology	80	20	100	4:0:0
18MCA35C2	Soft Computing	80	20	100	4:0:0
18MCA35C3	Data Warehousing and Data Mining	80	20	100	4:0:0
18MCA35DA1/ 18MCA35DA2/ 18MCA35DA3	(i) Cloud Computing or (ii) Big Data Analytics or (iii) Software Testing and Quality Assurance	80	20	100	4:0:0
18MCA35DB1/ 18MCA35DB2/ 18MCA35DB3	(i) Internet of Things or (ii) Mobile Computing or (iii) Embedded Systems	80	20	100	4:0:0
18MCA35CL1	Software Lab-9 .NET Programming Using C#	100*	----	100	0:0:3
18MCA35CL2	Software Lab-10 Soft Computing	100*	----	100	0:0:3
18MCA35C6	Minor Project-II	-	100	100	0:2:0
	Total				**28 Credits**
Open Elective (O)					
To be Chosen from the pool of Open Electives provided by the University (excluding the open elective prepared by the Department of Comp Sc. & Appls.)					3

Total Credits= 31 Credits

* 20 marks out of 100 will be based on the evaluation/assessment of the candidate in Test(s) and Assignment(s) during the semester, which will be forwarded by the Head of Dept./Director to the Examiner(s). Further, both practical exams of a semester may be conducted on the same day in 2 sittings each maximum of 3 hours.

Semester-VI

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits
18MCA36C1	Major Project	400	100	500	20 Credits
	Grand Total of 3 Years/Credits				**162 Credits**

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech 2nd YEAR CIVIL ENGINEERING,
3rd SEMESTER
Proposed 'F' Scheme w.e.f 2010

Subject Code	Subject Name	L	T	P	Total	Theory Marks	Class Marks	Practical Marks	Total Marks
MAT-201-F Or HUM-201-F	Mathematics-III Or Engineering Economics	3	1	0	4	100	50	0	150
HUM-203-F	Fundamental of Management	3	1	0	4	100	50	0	150
CE-201-F	Structural Analysis-I	3	1	0	4	100	50	0	150
CE-203-F	Building Construction Materials	3	1	0	4	100	50	0	150
CE-205-F	Fluid Mechanics-I	3	1	0	4	100	50	0	150
CE-207-F	Surveying-I	3	1	0	4	100	50	0	150
CE-209-F	Building Drawings	1	0	3	4	0	25	25	50
CE-211-F	Structural Analysis-I Lab	0	0	2	2	0	25	25	50
CE-213-F	Fluid Lab-I Lab	0	0	2	2	0	25	25	50
CE-215-F	Surveying-I Lab	0	0	2	2	0	50	50	100
	Total	19	7	9	35	600	425	125	1150

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS B.Tech
2nd YEAR CIVIL ENGINEERING,
4th SEMESTER
Proposed 'F' Scheme effective w.e.f 2010

Subject Code	Subject Name	L	T	P	Total	Theory Marks	Class Marks	Practical Marks	Total Marks
MAT-201- F Or HUM 201-F	Maths III Or Engg. Economics	3	1	0	4	100	50	-	150
CE-202-F	Structural Analysis-II	3	1	0	4	100	50	0	150
CE-204-F	Fluid Mechanics-II	3	1	0	4	100	50	0	150
CE-206-F	Design of Concrete Structures-I	3	1	0	4	100	50	0	150
CE-208-F	Surveying-II	3	1	0	4	100	50	0	150
CE-210-F	Construction and concrete technology	3	1	0	4	100	50	0	150
CE-212-F	Structural Analysis-II Lab	0	0	2	2	0	25	25	50
CE-214-F	Fluid mechanics Lab	0	0	2	2	0	25	25	50
CE-216-F	Surveying Lab	0	0	2	2	0	25	25	50
CE-218-F	Concrete Lab	0	0	2	2	0	25	25	50
GP-202-F	General Proficiency	-	-	2	2	50	-	-	50
Total		18	6	10	34	650	400	100	1150

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.

2.Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.

INSTITUTE OF TECHNOLOGY & ENGINEERING GANGA KABLANA DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR CIVIL ENGINEERING, SEMESTER- V
Proposed "F" Scheme effective from 2011-12

Subject Code	Subject Name	L	T	P	Total	Sessional Marks	Theory Marks	Sem Practical Marks	Total Marks
CE-301-F	Design of Steel Structure- I	3	1	-	4	50	100	0	150
CE-303-F	Transportation Engg.-I	3	1	0	4	50	100	0	150
CE-305-F	Water Supply-Treatment	3	1	0	4	50	100	0	150
CE-307-F	Soil Mechanics	3	1	0	4	50	100	0	150
CE-309-F	Numerical Methods And Computing Techniques	3	1	0	4	50	100	0	150
CE-311-F	Hydrology	3	1	0	4	50	100	0	150
CE-313 F	DSS-Drg.Lab	2	0	3	5	25	-	25	50
CE-315-F	Soil Mechanics Lab	0	0	2	2	25	0	25	50
CE-317 F	Transportation Lab-I	0	0	2	2	25	0	25	50
CE-319-F	Survey Camp	0	0	0	0	50	0	0	50
CE-321-F	Auto Cad Lab	0	0	2	2	25	0	25	50
	Total	20	6	9	35	450	600	100	1150

Note:

1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR CIVIL ENGINEERING, SEMESTER- VI
Proposed "F" Scheme effective from 2011-12

Subject Code	Subject Name	L	T	P	Total	Class Marks	Sem Theory Marks	Sem Practical Marks	Total Marks
CE-302-F	Design of Concrete Structures-II	4	2	0	6	50	100	0	150
CE-304-F	Irrigation Engineering-I	3	1	0	4	50	100	0	150
CE-306-F	Geotechnology	3	1	0	4	50	100	0	150
CE-308-F	Sewerage And Sewage Treatment	3	1	0	4	50	100	0	150
CE-310-F	Transportation Engg.-II	3	1	0	4	50	100	0	150
CE-312-F	Engineering Geology	3	1	0	4	50	100	0	150
CE-314-F	Geotechnology Lab	0	0	2	2	25	0	25	50
CE-316-F	Transportation Engg.-II Lab	0	0	2	2	25	0	25	50
CE-318-F	Engineering Geology Lab	0	0	2	2	25	0	25	50
CE-320-F	Environmental Engg. Lab	0	0	2	2	25	0	25	50
GPCE-318-F	General Proficiency	0	0	1	1	0	0	50	50
	Total	19	7	9	35	400	600	150	1150

NOTE:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B. Tech. 4th YEAR CIVIL ENGINEERING, SEMESTER- VII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

Subject Code	Subject Name	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
CE-401-F	Design of Steel Structure-II	3	1	-	4	50	100	-	150	3
CE-403-F	Disaster Mitigation and Management	3	1	-	4	50	100	-	150	4
CE-405-F	Estimating and Costing	3	1	-	4	50	100	-	150	3
CE-407-F	Irrigation Engg-II	3	1	-	4	50	100	-	150	3
----------	Elective	3	1	-	4	50	100	-	150	3
CE-451-F	Hydro Power Engg.	3	1	-	4	50	100	-	150	3
CE-453-F	Ground Water Engg	3	1	0	4	50	100	0	150	3
CE-455-F	Irrigation Drawing Lab	0	0	2	2	50	0	50	100	3
CE-457-F	Practical Training - II	-	-	2	-	-	-	-	-	-
GFCE-459-F	General Fitness for the Profession	-	-	-	-	-	-	50	50	3
	Total	21	7	4	32	400	700	100	1200	

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. **Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

ELECTIVES

1) CE -409 -F - Energy planning and management
2) CE -411-F - Environmental pollution and control
3) CE -417- F - Finite Element Methods
4) CE- 421 -F - Environmental impact and management
5) CE- 423- F - Elements of Earth Quake Engg.
6) CE- 433 -F - Hydraulic System Modeling

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech. 4th YEAR CIVIL ENGINEERING, SEMESTER- VIII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

		Subject	Internal Marks	External Marks	Total Marks
1.	CE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training in State/Central PWD, Railways and other Originations or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY (STRUCTURAL DESIGN)

SEMESTER-III

EFFECTIVE FROM 2012-13

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTSD 301	Design of Structures- III	4	-	-	50	100	150	3
MTSD 302	Professional Practices	4	-	-	50	100	150	3
	Elective-III	4	-	-	50	100	150	3
MTSD 303	Computational Laboratory-III	-	-	3	50	50	100	3
MTSD 304	Seminar & Technical Writing	-	-	2	50	-	50	
MTSD 305	Dissertation Phase-I	-	-	4	100	-	100	
TOTAL		12	-	9	350	350	700	

NOTE:

1. The paper setter shall set each theory paper of 100 marks covering entire syllabus. However the Examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A+, A, B, C, D & E. The examination of practical courses shall also be evaluated on the basis of these grades.
2. The sessionals of theory and practical courses shall also be evaluated in the basis of these grades.
3. The choice of student for any elective shall not be binding on the department to offer it.
4. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY (STRUCTURAL DESIGN)

SEMESTER-IV

EFFECTIVE FROM 2012-13

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTSD 401	Dissertation	-	-	24	200	400	600	3
TOTAL			-	24	200	400	600	

NOTE:

1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e A+,A,B,C,D & E.
2. The Dissertation shall be evaluated by an examination committee consisting of the head of the department, Dissertation Supervisor and one External examiner. The evaluation should be based on above grades.
3. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s)

List of Electives:

Elective- I

MTSD 107 - Composite Structures

MTSD 108 - Analysis and Design of Plates & Shells

MTSD 109 - Advanced Foundation Design and Geotechnics

MTSD 110 - Material Science

Elective- II

MTSD 207- Advanced Steel Design

MTSD 208 - Advanced Reinforced Concrete Design

MTSD 209- Earth Retaining Structures

MTSD 210- Construction Failures

Elective- III

MTSD 306- High Rise Structures

MTSD 307- Design of Hydraulic Systems

MTSD 308- Design Of Bridges

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

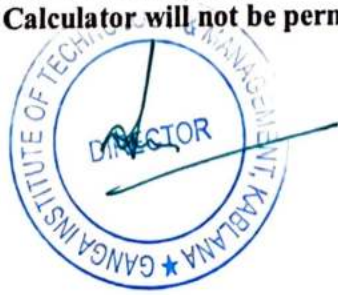
Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.TECH. II YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER III
'F' Scheme effective from 2010-11

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
1	MATH-201-F OR HUM-201-F	Mathematics III Common to (CSE,IT,ME,ECE,BME,EE,EEE,E&I,I&C) OR ENGG. ECONOMICS	3	2	-	5	50	100	-	150	3
2	CSE-201 F	Data Structures Using C (CSE,ECE,IT,EI)	3	1	-	4	50	100	-	150	3
3	CSE-203 F	Discrete Structures (CSE,IT)	3	1	-	4	50	100	-	150	3
4	EE-217 -F	Digital & Analog Communication (CSE,IT)	3	1	-	4	50	100	-	150	3
5	EE-204-F	Digital Electronics (Common with 4th Sem. – EE,EL,EI & IC)	3	1	-	4	50	100	-	150	3
6	HUM-203 F	Fundamental of Management (Common for all branches)	3	1	-	4	50	100	-	150	3
7	IT-201-F	PC Lab (CSE,IT)	-	-	3	3	50	-	50	100	3
8	CSE-205-F	Data Structures Using C Lab (CSE,ECE,IT,EI)	-	-	2	2	25	-	25	50	3
9	EE-224-F	Digital Electronics Lab (CSE,IT & Common with 4th Sem. – EE,EL,EI & IC)	-	-	3	3	50	-	50	100	3
		TOTAL	**18**	**7**	**8**	**33**	**425**	**600**	**125**	**1150**	

NOTE: 1.Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.

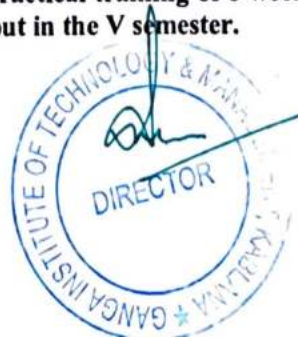


M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.TECH. II YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER - IV
'F' Scheme effective from 2010-11

Sl. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-202 F	Data Base Management Systems (CSE,IT)	3	1	-	4	50	100	-	150	3
2	CSE-204 F	Programming Languages	3	1	-	4	50	100	-	150	3
3	MATH-201-F OR HUM-201-F	Mathematics III Common to (CSE,IT,ME,ECE,BME,EE,EEE,E&I,I&C) OR ENGG. ECONOMICS	3	2	-	5	50	100	-	150	3
4	IT-202-F	Object-Oriented Programming using C++ (CSE,IT)	3	1	-	4	50	100	-	150	3
5	CSE-208 F	Internet Fundamentals (CSE,IT)	3	1	-	4	50	100	-	150	3
6	CSE-210 F	Computer Architecture and Organization (CSE,IT and Common with 5th Sem. EL,EI,IC)	3	1	-	4	50	100	-	150	3
7	CSE-212 F	Data Base Management Systems Lab. (CSE,IT)	-	-	3	3	50	-	50	100	3
8	IT-206-F	C++ Programming Lab. (CSE,IT)	-	-	2	2	25	-	25	50	3
9	CSE-214 F	Internet Lab. (CSE,IT)	-	-	2	2	25	-	25	50	3
10	GP-202 F	General Proficiency	-	-	2	2	50	-	-	50	
		TOTAL	**18**	**6**	**9**	**34**	**450**	**600**	**100**	**1150**	

Note:

1) **Students will be allowed to use non-programmable scientific calculator. However, sharing of**
2) **Calculator will not be permitted in the examination.**
3) **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.**



M. D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
Bachelor of Technology (Computer Science & Engineering)
Semester - V
'F' Scheme Effective from 2010-11

S. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-301 F	Principles of Operating System (CSE,IT)	3	1	-	4	50	100	-	150	3
2	EE-309-F	Microprocessors and Interfacing (EL,CSE,IT,EI, IC, EEE, AEI)	3	1	-	4	50	100	-	150	3
3	CSE-303-F	Computer Graphics (CSE,IT)	3	1	-	4	50	100	-	150	3
4	CSE-305-F	Theory of Automata Computation	3	1		4	50	100	-	150	3
5	CSE 307-F	Web Development (Common with IT – VI Sem)	3	1	-	4	50	100	-	150	3
6	IT-204-F	Multimedia Technologies (Common with IT- IV-Sem)	3	-	-	3	50	100	-	150	3
7	CSE-309-F	Computer Graphics Lab. (CSE,IT)	-	-	3	3	25	-	25	50	3
8	CSE-311-F	Web Development & Core JAVA Lab. (Common with 6th Sem.-IT)	-	-	2	2	25	-	25	50	3
9	IT-208-F	Multimedia Tech. Lab (Common with IT–IVSem)	-	-	2	2	25	-	25	50	3
10	EE-329-F	Microprocessors and Interfacing Lab. (EL,CSE,IT,EI, IC, EEE, AEI)	-	-	2	2	25	-	25	50	3
11.	CSE-313-F	O.S. Lab. (CSE, IT)	-	-	2	2	25	-	25	50	-
12	CSE-315-F	Practical Training-I	-	-	2	2	-	-	-	-	-
		TOTAL	18	5	13	36	425	600	125	1150	

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2. Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded „F" grade is required to repeat Practical Training.

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
Bachelor of Technology (Computer Science & Engineering)
Semester - VI
'F' Scheme Effective from 2010-11

S. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Marks of Class work	Total	Theory	Practical	Total	
1	CSE-302 F	Principles of Software Engineering (CSE,IT)	3	1	-	4	50	100	-	150	3
2	CSE-304 F	Intelligent Systems (CSE,IT)	3	1	-	4	50	100	-	150	3
3	IT-305 F	Computer Networks (CSE, EL & Common with 5 Sem. – IT, AEI)	3	1	-	4	50	100	-	150	3
4	IT-303 F	Systems Programming & System Administration (Common with 5 Sem. – IT)	3	1		4	50	100	-	150	3
5	CSE-306 F	Analysis & Design of Algorithms	3	1	-	4	50	100	-	150	3
6	EE-310-F	Digital System Design (EL,EE,CSE,EI, IC, AEI)	3	1	-	4	50	100	-	150	3
7	CSE-308 F	Intelligent Systems Lab. (CSE,IT)	-	-	3	3	25	-	25	50	3
8	EE-330-F	Digital System Design Lab. (EL,EI, IC,CSE, AEI)	-	-	3	3	25	-	25	50	3
9	CSE-310-F	Computer Network lab	-	-	2	2	25	-	25	50	3
	CSE-312-F	Visual Programming Lab.	-	-	2	2	25	-	25	50	3
9	GP-302-F	General Proficiency	-	-	-	-	50	-	-	50	3
		TOTAL	**18**	**6**	**10**	**34**	**450**	**600**	**100**	**1150**	-

Note:

1. Each student has to undergone practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.
2. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D.UNIVERSITY, ROHTAK
Scheme of Studies / Examination
Bachelor of Technology (Computer Science & Engineering)
SEMESTER VII
'F' Scheme Effective from 2012-13

Sl. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-401 F	Advanced Computer Architecture	3	1	-	4	50	100	-	150	3
2	CSE-403 F	Software Project Management (CSE,IT)	3	1	-	4	50	100	-	150	3
3	CSE-405 F	Compiler Design	3	1	-	4	50	100	-	150	3
4	CSE-407 F	Neural Networks	3	1	-	4	50	100	-	150	3
5	CSE-409 F	Advanced Java (CSE, IT)	3	1	-	4	50	100	-	150	3
6		Elective	3	1	-	4	50	100	-	150	3
7	CSE-411 F	Compiler Design Lab	-	-	2	2	25	-	50	75	3
8	CSE-413 F	Neural Networks Using MATLAB	-	-	2	2	25	-	50	75	3
9	CSE-415 F	Advanced JAVA Lab (CSE, IT)	-	-	3	3	50	--	100	150	3
10	CSE-417 F	PRATICAL TRAINING-II	-	-	-	-	-	-	-	-	-
		TOTAL	**18**	**6**	**7**	31	400	600	200	1200	

List of Electives

1.	CSE-423 F	Distributed Operating System
2.	IT-465F	Network Security & Management
3.	CSE-421 F	Real Time Systems
4.	CSE-435 F	Advanced Database Management Systems
5.	IT-467 F	Computer Software Testing
6.	IT-473 F	High Speed Networks

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. **Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva- voce and project report of the student. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech. 4th YEAR COMPUTER SC & ENGINEERING, SEMESTER- VIII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

		Subject	Internal Marks	External Marks	Total Marks
1.	CSE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ GANGA
DIRECTOR

M.D. UNIVERSITY, ROHTAK (HARYANA)
SCHEME OF STUDIES & EXAMINATION FOR MASTER OF TECHNOLOGY COURSE IN COMPUTER SCIENCE & ENGINEERING

SEMESTER-III

Course No.	Course Title	Teaching Schedul			Marks			Credits	Duration of Exam
		L	T	P	Sessional	Exam	Total		
MTCE-701A	Knowledge based system design	4	-	-	50	100	150	4	3
MTCE-703A	Advanced database management syt.	4	-	-	50	100	150	4	3
MTCE-705A	System & Network Administration	4	-	-	50	100	150	4	3
MTCE-707A	Elective III	4	-	-	50	100	150	4	3
MTCE-709A	Al lab	-	-	4	50	100	150	4	3
MTCE-711A	Minor Project	-	-	4	50	50	100	2	3
MTCE-713A	Seminar	-	-	2	50	-	50	1	-
Total		16	-	10	350	500	850	21	-

ELECTIVE-1II

MTCE 707A(A) Software Project Management

MTCE 707A(B) Security of Information Systems

Note :

1. The paper setter shall set each theory paper of 100 marks covering the entire syllabus and the same will be evaluted on marks.
2. The Sessionable of theory/Practical Courses shall also be evaluated on the basis of marks.
3. The choice of students for any elective shall not be binding on the Deptt. to offer it.

M.D. UNIVERSITY, ROHTAK (HARYANA)
SCHEME OF STUDIES & EXAMINATION FOR MASTER OF TECHNOLOGY COURSE IN COMPUTER SCIENCE ENGINEERING

SEMESTER-IV

Course No.	Course Title	Marks			Credits
		Sessional	Exam	Total	
MTCE-702 A	Dissertation & Viva	100	400	500	12

Note :

The university shall combine both sessional and external exam. marks and compute the overall grade of the subject on the guidelines approved by the university.

M.D. UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 1st
CBCS Scheme effective from 2016-17

Sr. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours/ week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16CSE21C1	Data Communication and Computer Networks	4	0	-	4	50	100	-	150	3	4
2	16CSE21C2	Advanced Operating Systems	4	0	-	4	50	100	-	150	3	4
3	16CSE21C3	Advanced Database Management System	4	0	-	4	50	100	-	150	3	4
4	16CSE21C4	Data Warehouse and Mining	4	0	-	4	50	100	-	150	3	4
5	16CSE21C5	Mathematical Foundation of Computer Science	4	0	-	4	50	100	-	150	3	4
6	16CSE21C6	Seminar	-		-	2	50	-	-	50		2
7	16CSE21CL1	Advanced Operating Systems Lab	-	-	2	2	50	-	50	100	3	2
8	16CSE21CL2	Advanced Database Management System Lab	-	-	2	2	50	-	50	100	3	2
		TOTAL	26									

NOTE:

Examiner will set nine question in total. Question one will be compulsory and will comprises of all section and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D. UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 2nd
CBCS Scheme effective from 2016-17

Sr. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours /week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16CSE22C1	Soft Computing	4	0	-	4	50	100	-	150	3	4
2	16CSE22C2	Algorithm Design	4	0	-	4	50	100	-	150	3	4
3	16CSE22C3	Seminar	-		2	2	50	-	-	50	-	2
4	16CSE22CL1	Soft Computing Lab	-	-	2	2	50	-	50	100	3	2
5	16CSE22CL2	Algorithm Design Lab	-	-	2	2	50	-	50	100	3	2
6	16CSE22D1 or 16CSE22D2 or 16CSE22D3 or 16CSE22D4	Elective-1	4	0	-	4	50	100	-	150	3	4
7		Open Elective				3						3
8		Foundation Elective				2						2
			23									

NOTE: Examiner will set nine question in total. Question One will be compulsory and will comprises of all section and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective 1 : Choose any one from the following papers

16CSE22D1 Mobile and Wireless Communication
16CSE22D2 Optimization Techniques
16CSE22D3 Discrete Mathematics
16CSE22D4 Internet and Web Development

Elective 2

A candidate has to select this paper from the pool of Open Electives provided by the University

Elective 3

A candidate has to select this paper from the pool of Foundation Electives provided by the University.

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY

(CYBER FORENSICS AND INFORMATION SECURITY)

SEMESTER-III

EFFECTIVE FROM 2013-14

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTCF 301	Preserving & Recovering Digital Evidence	4	-	-	50	100	150	3
MTCF 302	Cyber Laws & Security Policy	4	-	-	50	100	150	3
	Elective-III	4	-	-	50	100	150	3
MTCF 307	Dissertation Phase 1	-	-	8	100	-	100	3
MTCF 308	Seminar & Technical Writing	-	-	2	50	-	50	-
TOTAL		12	-	10	300	300	600	

Elective- III

MTCF 303- Biometric Security
MTCF 304- Applied Cryptography
MTCF 305- Distributed Systems Security
MTCF 306- Secure Software Engineering

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY

(CYBER FORENSICS AND INFORMATION SECURITY)

SEMESTER-IV

EFFECTIVE FROM 2013-14

Course No.	Course Title	Teaching Schedule			Marks		Total
		L	T	P	Sessional	Exam.	
MTCF 401	Dissertation Phase- II	-	-	24	200	400	600
	Total		-	24	200	400	600

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.Tech II YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER III
'F' Scheme effective from 2010-11

Sr No	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
HUM-203-F	FUNDAMENTALS OF MANAGEMENT (COMMON FOR ALL BRANCHES)	3	1	-	4	50	100	-	150	3
EE-201-F	ELECTRONICS DEVICES & CIRCUITS(ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-203-F	NETWORK THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-205-F	ELECTROMECHANICAL ENERGY CONVERSION(ECE,EI,IC)	3	1	-	4	50	100	-	150	3
CSE-201-F	DATA STRUCTURE USING ' C' (ECE,EI,CSE,IT)	3	1	-	4	50	100	-	150	3
EE-221-F	ELECTRONIC WORKSHOP, PCB DESIGN & CIRCUIT LAB(ECE,EI)	-	-	2	2	25	-	25	50	3
EE-223-F	NETWORK THEORY LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-225-F	ELETRICAL WORKSHOP & MACHINE LAB (ECE,EI)	-	-	3	3	50	-	50	100	3
CSE-205-F	DATA STRUCTURE USING 'C' Lab (ECE,EI,CSE,IT)		-	2	2	25	-	25	50	3
	TOTAL	**18**	**7**	**9**	**33 Or 34**	**425**	**600**	**125**	**1150**	

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, Sharing of Calculator and other material will not be permitted in the examination.**

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
BE. II YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER – IV
'F' Scheme effective from 2010-11

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
EE-228-F	SIGNALS & SYSTEMS(ECE,EI)	3	-	-	3	50	100	-	150	3
EE-202-F	ANALOG ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-204-F	DIGITAL ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-206-F	COMMUNICATION SYSTEMS(ECE)	3	1	-	4	50	100	-	150	3
EE-208-F	ELECTRO MAGNETIC THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-222-F	ANALOG ELECTRONICS LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-224-F	DIGITAL ELECTRONICS LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-226-F	COMMUNICATION SYSTEMS LAB (ECE)	-	-	2	2	25	-	25	50	3
MATH-204 –F	NUMERICAL METHODS OF COMPUTATIONAL PROGRAMMING LAB(ECE,EI,EE,EEE,IC)	1	1	2	4	25	-	25	50	3
GP-202-F	GENERAL PROFICIENCY (COMMON FOR ALL BRANCHES)	-	-	2	2	50	-	-	50	3
	TOTAL	**19**	**6 Or 7**	**10**	**35 Or 36**	**450**	**600**	**100**	**1150**	

Note:
1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.
2.Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
BTech. III YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER V
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-301-F	COMMUNICATION Engg.	3	1	-	4	50	100	-	150	3
EE-303-F	ELECTRONIC MEASUREMENT & INSTRUMENTATION (EL,EI,IC,EE,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-305-F	ANALOG ELECTRONIC CIRCUITS (EL,EI,IC,EE,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-307-F	ANTENNAS,WAVE PROPAGATION& TV Engg.	3	1	-	4	50	100	-	150	3
CSE-210-F	COMPUTER ARCHITECTURE AND ORGANISATION (EL,EI,IC,Common with IV sem. CSE,IT)	3	1	-	4	50	100	-	150	3
EE-309-F	MICROPROCESSORS AND INTERFACING (EL,EI,IC,CSE,IT,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-323-F	ELECTRONIC MEASUREMENT & INSTRUMENTATION LAB (EL,EI,IC,EE)	-	-	2	2	25	-	25	50	3
EE-325-F	ANALOG ELECTRONIC CIRCUITS LAB (EL,EI,IC)	-	-	2	2	25	-	25	50	3
EE-329-F	MICROPROCESSORS AND INTERFACING LAB (EL,EI,IC,CSE,IT,EEE,AEI)	-	-	2	2	25	-	25	50	3
EE-335-F	PRACTICAL TRAINING		-	2	2		-			
GPECE301-F	GERNERAL PROFICIENCY					50			50	3
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**75**	**1100**	

Note:

1) **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2) **Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D UNIVERSITY,ROHTAK
SCHEME OF STUDIES AND EXAMINATION
B.Tech. III YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER - VI
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-302-F	MICROWAVE AND RADAR ENGINEERING	3	1	-	4	50	100	-	150	3
EE-304--F	CONTROL SYTEMS ENGG. (EL,EE, EEE)	3	1	-	4	50	100	-	150	3
EE-306-F	VLSI Design	3	1	-	4	50	100	-	150	3
IT-305-F	COMPUTER NETWORKS	3	1	-	4	50	100	-	150	3
EE-310-F	DIGITAL SYSTEM DESIGN (EL,EI, IC,EE,CSE, AEI)	3	1	-	4	50	100	-	150	3
EE-308-F	MICROCONTROLLER & EMBEDDED SYSTEM	3	1	-	4	50	100	-	150	3
EE-328-F	MICROCONTROLLER & EMBEDDED SYSTEM LAB	-	-	2	2	25	-	25	50	3
EE-326-F	DIGITAL SYSTEM DESIGN LAB (EL,EI, IC,EE,CSE, AEI)	-	-	2	2	25	-	25	50	3
EE-322-F	MICROWAVE AND RADAR LAB	-	-	2	2	25	-	25	50	3
EE-324-F	CONTROL SYTEMS ENGG. LAB (EL,EE, EEE,AEI)		-	2	2	25	-	25	50	3
	TOTAL	**18**	**6**	**8**	**32**	**400**	**600**	**100**	**1100**	

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.**
2. **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electronics and Communication Engg.)

SEMESTER VII

F ' Scheme Effective from 2012–2013

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ECE-405-F	WIRELESS COMMUNICATION	3	1	-	4	50	100	-	150	3
ECE-403-F	SATELITE COMMUNICATION ENGINEERING	3	1	-	4	50	100	-	150	3
ECE-407-F	DATA COMMUNICATION	3	1	-	4	50	100	-	150	3
ECE-415-F	OPTICAL COMMUNICATION SYSTEMS	3	1	-	4	50	100	-	150	3
	*Dept Elective-I	3	1	-	4	50	100	-	150	3
ECE-409-F	Digital Signal Processing	3	1	-	4	50	100	-	150	3
ECE-423-F	Wireless & Satellite Communication Lab			3	3	50	-	50	100	3
ECE-427-F	Digital Signal Processing Lab	-	-	2	2	25	-	25	50	3
ECE-429-F	Data Communication Lab	-	-	3	3	50	-	50	100	3
GFEE-401-F	General Fitness For The Profession	-	-	-	-		-	50	50	3
ECE-404-F	Practical Training II									
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**175**	**1200**	

List of Dept Electives-I

ECE-419-F	Mobile Communication
ECE-461-F	Genetic Algorithms & Applications
ECE-453-F	Radar and Sonar Engg.
ECE-411-F	Wireless Sensor Network
ECE-413-F	Fuzzy Control System

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. ***Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.**

NOTE:-

1. Assessment of Practical Training-II, (ECE-404F) carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student from the industry. According to performance letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electronics and Communication Engg.)

SEMESTER VIII

F ' Scheme Effective from 2012–2013

Training of Six Months

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ECE-402-F	Industrial Training /Institutional Project work	-	-	8	8	150	-	150	300	-
	Total			8	8					

Note:

1. **The students are required to undergo Industrial Training or Institutional Project work of duration not less than 4 months in a reputed organization or concerned institute. The student who wish to undergo industrial training, the industry chosen for should be a private limited company.**
2. **The final Viva-voca of the industrial training or Institutional Project work will be conducted by the external examiner and one internal examiner appointed by the institute. External examiner will be from penal of examiner.**
   Assessment of traing or project will be based on Seminar, viva-voca, report and certificate of Industrial Training or Institutional project work.
3. **The internal marks distribution for students who have undergone Industrial training consist of 50 marks from the Industry concern and 100 Marks by the committee members consisting of faculty members of concerned department of the present institute.**
4. **The teacher engaged for institutional project work shall have a workload of 2 hours per group (at least 4 students per work)**

A-PDF Split DEMO

M.D.UNIVERSITY, ROHTAK (HARYANA)

SCHEME OF STUDIES & EXAMINATION FOR
MASTER OF ENGINEERING DEGREE COURSE IN
ELECTRONICS & COMMUNICATION

SEMESTER-III

Course No.	Course Title	Teaching Schedule			Marks			Credits			Duration of Exam
		L	T	P	Sessional	Exam	Total	Sessional	Exam	Total	
MEEC-601	Neural Networks & fuzzy Logic	4	-	-	50	100	150	2	4	6	3
MEEc-603	CDMA System	4	-	-	50	100	150	2	4	6	3
	Elective-III	4	-	-	50	100	150	2	4	6	3
MEEC-613	Seminar	-	-	2	50	-	50	2	-	2	-
MEEC-615	Project	-	-	4	50	50	100	2	2	4	3
MEEC-617	Dissertation (Phase-I)	-	-	4	100	-	100	4	-	4	-
TOTAL		12	-	10	350	350	700	14	14	28	

ELECTIVE III

Emerging Network Technologies (MEEC-605)
Digital Signal Processors & Applications (MEEC-607)
48. Image Processing (MEEC-609)
49. Computer Communications (MEEC-611)

NOTE: 1The paper setter shall set each theory paper of 100 marks covering the entire syllabus. However, the examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A, A(-), B, B(-), C, C(-), D & F. The Examination of practical courses shall also be evaluated on the basis of three grades.

2. The Sessionals of Theory/Practical/ Dissertation (Phase-I)/ Seminar/ Project Courses shall also be evaluated on the basis of these grades.

3. The choice of students for any elective shall not be binding on the Deptt. to offer it.

4. The Grading System is defined at the end of the Scheme of Studies & Examinations & will be supplied by the Univ. to the examiner(s)

A-PDF Split DEMO

M.D.UNIVERSITY, ROHTAK (HARYANA)

SCHEME OF STUDIES & EXAMINATION FOR
MASTER OF ENGINEERING DEGREE COURSE IN
ELECTRONICS & COMMUNICATION

SEMESTER-IV

Course No.	Course Title	Teaching Schedule			Marks			Credits			Duration of Exam
		L	T	P	Sessional	Exam	Total	Sessional	Exam	Total	
MEEC-602	Dissertation	-	-	20	150	600	750	6	24	30	3
TOTAL		-	-	20	150	600	750	6	24	30	-

NOTE: 1 Sessionals of Dissertation Course shall be evaluated on the basis of the grades out of A, A(-), B, B(-), C, C(-), D & F.

2. The dissertation shall be evaluated through an exam. by a Committee of Examiners consisting of Head of the Department, Dissertation supervisor & one External Examiner. The evaluation shall be based upon the above grades.

3. The grading system is defined at the end of the Scheme of Studies & Examination & will be supplied by the Univ. to the examiner(s)

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 1
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours /week
			L	T	P	Total Credits	Marks of Class work	Theory	Practical	Total		
1	16ECE21C1	Advance Microprocessor & Microcontroller	4	0	-	4	50	100	-	150	3	4
2	16ECE21C2	Satellite and Space Communication	4	0	-	4	50	100	-	150	3	4
3	16ECE21C3	Information and Communication Theory	4	0	-	4	50	100	-	150	3	4
4	16ECE21C4	Advanced Digital Signal Processing	4	0	-	4	50	100	-	150	3	4
5	16ECE21C5	Data Communication Networks	4	0	-	4	50	100	-	150	3	4
6	16ECE21C6	Seminar	-		-	2	50	-	-	50		2
7	16ECE21CL1	Satellite Lab	-	-	2	2	50	-	50	100	3	4
8	16ECE21CL2	Advance Microprocessor & Microcontroller Lab	-	-	2	2	50	-	50	100	3	4
		TOTAL	26									

NOTE:

Examiner will set nine question in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (ELECTRONICS & COMMUNICATION) SEMESTER 2
CBCS Scheme effective from 2016-17

Sl. No	Course No.	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total	
1	16ECE22C1	Wireless Mobile Communication	4	0	-	4	50	100	-	150	3
2	16ECE22C2	Optical Communication	4	0	-	4	50	100	-	150	3
3	16ECE22C3	Seminar	-		-	2	50	-	-	50	
4	16ECE22CL1	VLSI Lab	-	-	2	2	50	-	50	100	3
5	16ECE22CL2	Optical Communication Lab	-	-	2	2	50	-	50	100	3
6	16ECE22D1 or 16ECE22D2 or 16ECE22D3 or 16ECE22D4	Elective-1	4	0	-	4	50	100	-	150	3
7		Open Elective				3					
8		Foundation Elective				2					
		TOTAL				23					

NOTE: Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective 1 : Choose any one from the following four papers:

16ECE22D1 - Electronic System Design
16ECE22D2 - Image Processing
16ECE22D3 - ADVANCED MATHEMATICS FOR ENGINEERS
16ECE22D4 - VLSI Design

Open Elective: A candidate has to select this paper from the pool of Open Electives provided by the University.

Foundation Elective: A candidate has to select this paper from the pool of Foundation Electives provided by the University.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.Tech II YEAR (ELECTRICAL ENGINEERING)
SEMESTER III
'F' Scheme effective from 2010-11

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
HUM-203-F	FUNDAMENTALS OF MANAGEMENT (COMMON FOR ALL BRANCHES)	3	1	-	4	50	100	-	150	3
EE-201-F	ELECTRONIC DEVICES & CIRCUITS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-203-F	NETWORK THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-207-F	ELECTRICAL MACHINES-I (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-209-F	ELECTRICAL MEASUREMENTS & MEASURING INSTRUMENTS (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-223-F	NETWORK THEORY LAB. (ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-211-F	ELECTRICAL MEASUREMENTS & MEASURING INSTRUMENTS LAB. (EE, EEE)	-	-	2	2	25	-	25	50	3
EE-213-F	ELECTRICAL WORKSHOP (IC,EE, EEE)	-	-	2	2	25	-	25	50	3
EE-215-F	ELECTRICAL MACHINES-I LAB. (EE, EEE)	-	-	3	3	50	-	50	100	3
	TOTAL	**18**	**6 Or 7**	**9**	**33 Or 34**	**425**	**600**	**125**	**1150**	

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.**

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.Tech II YEAR (ELECTRICAL ENGINEERING)
SEMESTER – IV
'F' Scheme effective from 2010-11

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
EE-212-F	TRANSMISSION AND DISTRIBUTION (EE,EEE)	3	-	-	3	50	100	-	150	3
EE-202-F	ANALOG ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-204-F	DIGITAL ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-220-F	PRINCIPLES OF COMMUNICATION SYSTEMS (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-208-F	ELECTRO MAGNETIC THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-222-E	ANALOG ELECTRONICS LAB (ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-224-F	DIGITAL ELECTRONICS LAB (ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-230-F	PRINCIPLES OF COMMUNICATION SYSTEMS LAB (EE, EEE)	-	-	2	2	25	-	25	50	3
MATH-204-F	NUMERICAL METHODS LAB (ECE,EI,EE,EEE,IC)	1	1	2	4	25	-	25	50	3
GP-202-F	GENERAL PROFICIENCY (COMMON FOR ALL BRANCHES)	-	-	2	2	50	-	-	50	3
	TOTAL	**19**	**6 or 7**	**10**	**35 Or 36**	**450**	**600**	**100**	**1150**	

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.**
2. **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination

Bachelor of Technology (Electrical Engg.)

SEMESTER V

'F ' Scheme Effective from 2011–2012

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-311-F	Electrical Machines-II (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-303-F	Electronic Measurement And Instrumentation (EE,EEE,ECE,IC)	3	1	-	4	50	100	-	150	3
EE-305-F	Analog Electronics Circuits (EE,EEE,ECE,IC)	3	1	-	4	50	100	-	150	3
EE-315-F	Power Systems-I (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-317-F	Power Electronics (EE, EEE, Common with VI sem IC)	3	1	-	4	50	100	-	150	3
EE-309-F	Microprocessors And Interfacing (EE,EEE,ECE)	3	1	-	4	50	100	-	150	3
EE-323-F	Electronic Measurement & Instrumentation Lab (EE,EEE,ECE,IC)	-	-	2	2	25	-	25	50	3
EE-321-F	Power Electronics Lab. (EE, EEE Common with VI sem , IC)	-	-	2	2	25	-	25	50	3
EE-319-F	Microprocessor & Interfacing Lab. (EE,EEE)	-	-	2	2	25	-	25	50	3
EE-327-F	Electrical Machines-II LAB. (EE, EEE)	-	-	3	3	25	-	25	50	3
EE-333-F	Practical Training-I	-	-	2	2		-	-		-
	TOTAL	**18**	**6**	**11**	**35**	**400**	**600**	**100**	**1100**	

Note:

1) **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2) **Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D UNIVERSITY,ROHTAK
SCHEME OF STUDIES AND EXAMINATION
B.Tech. III YEAR (ELECTRICAL ENGINEERING)
SEMESTER - VI
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-312-F	Power Systems –II (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-314-F	Computer Added Electric Machines Design (EE, EEE)	3	1	-	4	50	10 0	-	150	3
EE-308-F	Micro-Controller And Embeded System(EE,ECE)	3	1	-	4	50	100	-	150	3
EE-304-F	Control systems engg. (EE, EEE,ECE)	3	1	-	4	50	100	-	150	3
EE-318-F	Electric Power Generation (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-310-F	Digital System Design (IC,EE,ECE,)	3	1	-	4	50	100	-	150	3
EE-324-F	Control system engg. Lab (EE, EEE,ECE)	-	-	2	2	25	-	25	50	3
EE-320-F	Micro-Controller And Embeded System LAB (EE,ECE)	-	-	2	2	25	-	25	50	3
EE-326-F	Computer Added Electric Machines Design Lab (EE, EEE)	-	-	2	2	25	-	25	50	3
EE-328-F	Power Systems Lab (EE, EEE)	-	-	2	2	25	-	25	50	3
GPEE-302-F	GENERAL PROFICIENCY	-	-	-	-	50	-	-	50	3
	TOTAL	**18**	**6**	**8**	**32**	**450**	**600**	**100**	**1150**	

Note:

1. **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.**
2. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electrical Engg.)

SEMESTER VII

F ' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-403-F	Electric Drives And Control	3	1	-	4	50	100	-	150	3
ECE-409-F	Digital Signal Processing	3	1	-	4	50	100	-	150	3
EE-405-F	Power System Operation And Control	3	1	-	4	50	100	-	150	3
	*Open Elective	3	1	-	4	50	100	-	150	3
	*Dept Elective	3	1	-	4	50	100	-	150	3
EE-409-F	Computer Applications To Power System Analysis	3	1	-	4	50	100	-	150	3
EE-413-F	Electric Drives And Control Lab.			3	3	50	-	50	100	3
ECE-429-F	Digital Signal Processing Lab	-	-	2	2	25	-	25	50	3
EE-419-F	Computer Applications To Power System Analysis Lab.	-	-	3	3	50	-	50	100	3
GFEE-401-F	General Fitness For The Profession	-	-	-	-		-	50	50	3
EE-401-F	Practical Training – II	-	-	-	-	-	-		-	-
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**175**	**1200**	

List of Open Electives

1.	HUM-451-F	Language Skills for Engineers
2.	HUM-453-F	Human Resource Management
3.	HUM-459-F	Renewable Energy Resources and Technology
4.	ME-451-F	Mechatronics Systems
5.	IC-455-F	Intelligent Instrumentation for Engineers
6.	OR-401-F	Operations Research

List of Dept Electives

1. EHV AC/DC (EE-432-F)
2. Fuzzy Logic Control (IC-404-F)
3. Recent Trends in De-regulated Power Systems (EE-438-F)
4. High Voltage Engineering (EE-442-F)
5. Electrical Power Quality (EE-444-F)
6. Power Management (EE-450-F)

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAHLANA ★ DIRECTOR

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. ***Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.**
4. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student from the industry. According to performance, letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination

B. Tech. (Electrical Engg.)

SEMESTER VIII

F ' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Sr. No	Course No	Subject	Internal Marks	External Marks	Total Marks
1.	EE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-III

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	Practical	
1	MTEPS301	Elective – III	3	1	0	50	100	-	150
2	MTEPS302	Elective – IV	3	1	0	50	100	-	150
3	MTEPS303	Seminar			2	50	-	50	100
4	MTEPS304	Dissertation-Phase I	0	0	4	150	-	-	150
		Grand Total	6	2	6	300	200	50	550

NOTE:

1. The paper setter shall set each theory paper of 100 marks covering entire syllabus. However the examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A^+ , A,B,C,D & E. The examination of practical courses shall also be evaluated on the basis of these grades.
2. The sessionals of theory , practical and Seminar courses shall also be evaluated in the basis of these grades.
3. The choice of student for any elective shall not be binding on the department to offer it.
4. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-IV

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	E.VIVA	
1	MTEPS401	Dissertation Final Phase	0	0	20	200	-	400	600
		Total			20	200	-	400	600

NOTE:

1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e A^+, A,B,C,D & E.
2. The Dissertation shall be evaluated by an examination committee consisting of the head of the department, Dissertation Supervisor and one External examiner. The evaluation should be based on above grades.
3. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATIONS
B.Tech 2nd YEAR (FIRE TECHNOLOGY AND SAFETY)
3rd SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching Schedule				Marks for class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT 201F OR HUM 201 F	Mathematics-III or Engineering Economics	3 or 3	2 or	- -	5 or 4	50 50	100	-	150	3
HUM 203F	Fundamentals of Management	3	1	-	4	50	100	-	150	3
FT 201 F	Town Planning and Safety in Construction Industry	3	1	-	4	50	100	-	150	3
FT 203 F	Fire Engineering	3	1	-	4	50	100	-	150	3
FT 205 F	First Aid and Emergency Procedures	3	1	4	4	50	100	-	150	3
FT 207 F	Heavy Vehicle Automobile Engineering and Safety	3	1	-	4	50	100	-	150	3
FT 209 F	Machine Drawing and Design	1	-	3	4	50	-	50	100	3
FT 211 F	Heavy Vehicle Automobile Engineering and Safety Lab	-	-	2	2	25	-	25	50	3
FT 213 F	Fire Protection Workshop	-	-	2	2	25	-	25	50	3
FT 215 F	Fire Fighting and Field Training - I	-	-	2	2	25	-	25	50	3
	Total	**19**	**6/7**	**9**	**34/35**	**425**	**600**	**125**	**1150**	

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS

B.Tech. 2nd YEAR (FIRE TECHNOLOGY AND SAFETY)

4th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching Schedule				Marks for class	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT 201F or HUM 201 F	Mathematics-III or Engineering Economics	3 or 3	2 or 1	-	5 or 4	50	100	-	150	3
FT 202F	Safety Engineering and Management	3	1	-	4	50	100	-	150	3
FT 204 F	Energy Environment Ethics and Society	3	1	-	4	50	100	-	150	3
FT 206 F	Strength of Material	3	1	-	4	50	100	-	150	3
FT 208 F	Electrical Fire Safety	3	1	-	4	50	100	-	150	3
FT 210 F	Pumping Machinery and Fluid Mechanics	3	1	-	4	50	100	-	150	3
FT 212 F	Strength of Material Lab	-	-	2	2	25	-	25	50	3
FT 214 F	Electrical Fire Safety Lab	-	-	2	2	25	-	25	50	3
FT 216 F	Pumping Machinery and Fluid Mechanics	-	-	2	2	25	-	25	50	3
FT 218 F	Fire Fighting and Field Training - II	-	-	2	2	25	-	25	50	3
GP 202 F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	**18**	**6/7**	**9**	**34/35**	**450**	**600**	**100**	**1150**	

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS

B.Tech 3rd YEAR (FIRE TECHNOLOGY AND SAFETY)

5th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 301F	Rescue Equipments and Techniques	3	1	-	4	50	100	-	150	3
FT 303 F	Building Design and Drawing	3	1	-	4	50	100	-	150	3
FT 305 F	Salvage Evaluation of Fire Situation	3	1	-	4	50	100	-	150	3
FT 307 F	Environmental Engineering and Management	3	1	-	4	50	100	-	150	3
FT 309 F	Fire Prevention and Protection Measures	3	1	-	4	50	100	-	150	3
FT 311 F	Nuclear Safety and Radioactive Materials	3	1	-	4	50	100	-	150	3
FT 313 F	Environmental Engineering Lab	-	-	2	2	25	-	25	50	3
FT 315 F	Field Training in Fire Rescue	-	-	2	2	25	-	25	50	3
FT 317 F	AutoCAD and Fire Software Lab	-	-	2	2	25	-	25	50	3
FT 319F	Engineering Workshop Practice	-	-	2	2	25	-	25	50	3
	Total	18	6	8	32	400	600	100	1100	

Note:-

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

2. Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS

B.Tech 3rd YEAR (FIRE TECHNOLOGY AND SAFETY)

6th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 302F	Legal Aspect of Safety, Health and Environment	3	1	-	4	50	100	-	150	3
FT 304F	Fire Safety Codes and Standardization	3	1	-	4	50	100	-	150	3
FT 306F	Fire Fighting & Safety Equipments	3	1	-	4	50	100	-	150	3
FT 308F	Identification and Risk Assesmant	3	1	-	4	50	100	-	150	3
FT 310F	Applied Numerical Technique and Computing	3	1	-	4	50	100	-	150	3
FT 312F	Heat Transfer, Combustion and Explosives	3	1	-	4	50	100	-	150	3
FT 314F	Field Training Rescue (Chemical Hazards)	-	-	2	2	25	-	25	50	3
FT 316F	Applied Numerical Technique and Computing Lab	-	-	2	2	25	-	25	50	3
FT 318F	Heat Transfer, Combustion and Explosives Lab	-	-	2	2	25	-	25	50	3
FT 320 F	Industrial Hygiene Lab	-	-	2	2	25	-	25	50	3
FT 322F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	18	6	10	34	450	600	100	1150	

Note:-

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech 4th YEAR FIRE TECHNOLOGY & SAFETY,

7th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 401 F	Safety and Risk Management	3	1	-	4	50	100	-	150	3
FT 403 F	Industrial Engineering	3	1	-	4	50	100	-	150	3
FT 405 F	Operational Research	3	1	-	4	50	100	-	150	3
FT 407 F	Disaster Management	3	1	-	4	50	100	-	150	3
FT 409 F	Fire Fighting Installation and Automation	3	1	-	4	50	100	-	150	3
--------	Dept. Elective	3	1	-	4	50	100	-	150	3
FT 411 F	Fire Fighting Installation and Automation Lab	-	-	2	2	50	-	50	100	3
FT 413 F	Squad Drill	-	-	2	2	50	-	50	100	3
	Total	18	6	4	28	400	600	100	1100	-

Dept. Elective:

1. FT 417 F Process Instrumentation and Control Engineering
2. FT 419 F Automobile Engineering and Safety.
3. FT 421 F Advanced Safety Engineering and Management.
4. FT 423 F Environmental Protection and Waste Management.
5. FT 425 F Human Factor Engineering.
6. FT 427 F Simulation and Process Modeling
7. FT 429 F Total Quality management
8. FT 431 F Safety in Health Care waste Management
9. FT 433 F Safety in Construction

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech 4th YEAR FIRE TECHNOLOGY & SAFETY, 8th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Sl. No.	Course No.	Subject	Internal Marks	External Marks	Total Marks
1.	FT- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engineering and Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech 2nd YEAR MECHANICAL ENGINEERING,
3rd SEMESTER
Proposed 'F' Scheme w.e.f 2010-11

Course	Course Title	Teaching Schedule				Marks for class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT-201-F or HUM-201-F	Mathematics-III or Engineering Economics	3 or 3	2 or 1	- -	5 or 4	50	100	-	150	3
HUM-203-F	Fundamentals of Management	3	1	-	4	50	100	-	150	3
ME-201-F	Thermodynamics	3	1	-	4	50	100	-	150	3
ME-203-F	Computer Aided Design	3	1	-	4	50	100	-	150	3
ME-205-F	Engineering Mechanics	3	1	-	4	50	100	-	150	3
ME-207-F	Material Science	3	1	-	4	50	100		150	3
ME-209-F	Machine Drawing	1	-	3	4	50	-	50	100	4
ME-211-F	Computer Aided Design Lab	-	-	2	2	25	-	25	50	3
ME-213-F	Engineering Mechanics Lab	-	-	2	2	25	-	25	50	3
ME-215-F	Materials Science Lab	-	-	2	2	25	-	25	50	3
	Total	**19**	**6**	**10**	**34/35**	**425**	**600**	**125**	**1150**	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech 2nd YEAR MECHANICAL ENGINEERING,
4th SEMESTER
Proposed 'F' Scheme w.e.f 2010-11

Course	Course Title	Teaching Schedule				Marks for class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT-201-F or HUM-201-F	Mathematics-III or Engineering Economics	3 or 3	2 or 1	-	5 or 4	50	100	-	150	3
ME-202-F	Manufacturing Technology-I	3	1	-	4	50	100	-	150	3
ME-204-F	Kinematics of Machine	3	1	-	4	50	100	-	150	3
ME-206-F	Strength of Materials-I	3	1	-	4	50	100	-	150	3
ME-208-F	Fluid Mechanics	3	1	-	4	50	100	-	150	3
ME-210-F	Steam & Power Generation	3	1	-	4	50	100	-	150	3
ME-212-F	Kinematics of Machine Lab	-	-	2	2	25	-	25	50	3
ME-214-F	Strength of Materials Lab	-	-	2	2	25	-	25	50	3
ME-216-F	Fluid Mechanics Lab	-	-	2	2	25	-	25	50	3
ME-218-F	Steam & Power Generation Lab	-	-	2	2	25	-	25	50	3
GP-202-F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	**18**	**6**	**9**	**34/35**	**450**	**600**	**100**	**1150**	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR MECHANICAL ENGINEERING, SEMESTER- V
Proposed "F" Scheme effective from 2011-12

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-301-F	Dynamics Of Machines	3	1	-	4	50	100	-	150	3
ME-303-F	Mechanical Machine Design-1	3	2	-	5	50	100	-	150	4
ME-305-F	Fluid Machine	3	1	-	4	50	100	-	150	3
ME-307-F	Internal Combustion Engines & Gas Turbines	3	1	-	4	50	100	-	150	3
ME-309-F	Manufacturing Technology –II	3	1	-	4	50	100	-	150	3
ME-311-F	Applied Numerical Technique & Computing	3	-	-	3	50	100	-	150	3
ME-313-F	Dynamics Of Mechanics Lab	-	-	2	2	25	-	25	50	3
ME-315-F	Fluid Machine Lab	-	-	2	2	25	-	25	50	3
ME-317-F	Internal Combustion Engines & Gas Turbines Lab	-	-	2	2	25	-	25	50	3
ME-319-F	Manufacturing Technology –II Lab	-	-	2	2	25	-	25	50	3
ME-321-F	Applied Numerical Technique & Computing Lab	-	-	2	2	50	-	-	50	-
ME-323-F	Practical Training Viva-Voce	-	-	2	2	-	-	-	-	-
	Total	18	6	12	36	450	600	100	1150	

Note:

1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR MECHANICAL ENGINEERING, SEMESTER- VI
Proposed "F" Scheme effective from 2011-12

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-302-F	Automobile Engineering	3	1	-	4	50	100	-	150	3
ME-304-F	Mechanical Machine Design-II	3	2	-	5	50	100	-	150	4
ME-306-F	Heat Transfer	3	1	-	4	50	100	-	150	3
ME-308-F	Automatic Control	3	1	-	4	50	100	-	150	3
ME-310-F	Measurement & instrumentation	3	1	-	4	50	100	-	150	3
ME-312-F	Industrial Engineering	3	1	-	4	50	100	-	150	3
ME-314-F	Automobile Engineering Lab	-	-	2	2	25	-	25	50	3
ME-316-F	Heat Transfer Lab	-	-	2	2	25	-	25	25	3
ME-318-F	Measurement & instrumentation Lab	-	-	2	2	25	-	25	25	3
ME-320-F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	18	7	8	33	450	600	100	1050	

NOTE:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER- VII
(Scheme-F)
EFFECTIVE FROM THE SESSION 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-401-F	Strength of Material-II	3	1	-	4	50	100	-	150	3
ME-403-F	Refrigeration & Air-Conditioning	3	1	-	4	50	100	-	150	3
ME-405-F	Operation Research	3	1	-	4	50	100	-	150	3
ME-407-F	Power Plant Engineering	3	1	-	4	50	100	-	150	3
ME-409-F	Mechanical Vibration	3	1	-	4	50	100	-	150	3
----------	Elective	3	1	-	4	50	100	-	150	3
ME-411-F	Refrigeration & Air-Conditioning Lab	-	-	2	2	50	-	50	100	3
ME-413-F	Advanced CAD/CAM Lab	-	-	2	2	50	-	100	150	3
ME-415-F	Practical Training-II	-	-	2	2	-	-	-	-	-
GFME-435-F	General Fitness for the Profession	-	-	-	-	-	-	50	50	3
	Total	18	6	6	30	400	600	200	1200	

LIST OF ELECTIVES

S.NO.	SUBJECT CODE	DEPTT. ELECTIVE
1.	ME-417-F	QUALITY ENGINEERING
2.	ME 419-F	FINITE ELEMENT METHODS
3.	ME-421-F	ENERGY MANAGEMENT PRINCIPLES
4.	ME- 425-F	COMPUTER INTEGRATED MANUFACTURING
5.	ME- 429-F	RELIABILITY ENGINEERING
6.	ME-431-F	SOLAR ENERGY ENGINEERING

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER- VIII
(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

Sl. No.	Course No.	Subject	Internal Marks	External Marks	Total Marks
1.	ME- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 1
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours /week
			L	T	P	Total Credits	Marks of Class work	Theory	Practical	Total		
1	16MMA21C1	Metal Forming Analysis	4	0	-	4	50	100	-	150	3	4
2	16MMA21C2	Mechatronics & Product Design	4	0	-	4	50	100	-	150	3	4
3	16MMA21C3	Total Quality Management	4	0	-	4	50	100	-	150	3	4
4	16MMA21C4	Welding & Allied Processes	4	0	-	4	50	100	-	150	3	4
5	16MMA21CL1	Mechatronics Lab	-	-	2	2	50		50	100	3	4
6	16MMA21CL2	Welding Lab	-	-	2	2	50		50	100	3	4
7	16MMA21CL3	CAD/CAM Lab	-	-	2	2	50		50	100	3	4
8	16MMA21C5	Seminar	-		-	2	50	-	-	50		2
9	16MMA21D1 or 16MMA21D2 or 16MMA21D3 OR 16MMA21D4	Elective I	4	-		4	50	100		150	3	4
		TOTAL	28									

Elective I: Choose any one from the following three papers:
16MMA21D1 - INDUSTRIAL INSPECTION
16MMA21D2 - DESIGN AND METALLURGY OF WELDED
JOINTS 16MMA21D3 - FOUNDARY TECHNOLOGY
16MMA21D4-DESIGN PLANNING CONTORL AND PRODUCTION SYSTEM

NOTE:

Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 2
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours/ week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16MMA22C1	Mechanical Design-I	4	0	-	4	50	100	-	150	3	4
2	16MMA22C2	Diagnostic Maintenance & Monitoring	4	0	-	4	50	100	-	150	3	4
3	16MMA22C3	Seminar	-		-	2	50	-	-	50		2
4	16MMA22CL1	CIM Lab	-	-	2	2	50	-	50	100	3	4
5	16MMA22CL2	Diagnostic Maintenance & Monitoring Lab	-	-	2	2	50	-	50	100	3	4
6	16MMA22D1 or 16MMA22D2 or 16MMA22D3	Elective-II	4	0	-	4	50	100	-	150	3	4
7		Open Elective	3	0	-	3						
8		Foundation Elective	2	0	-	2						
	TOTAL					23						

NOTE: Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective II : Choose any one from the following three papers:

16MMA22D1 - QUALITY CONTROL TECHNIQUES

16MMA22D2 - FINITE ELEMENT METHODS

16MMA22D3 - ARTIFICIAL INTELLEGENCE IN MANUFACTURING

Open Elective: A candidate has to select this paper from the pool of Open Electives provided by the University.

Foundation Elective: A candidate has to select this paper from the pool of Foundation Electives provided by the University.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 3rd
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours /week
			L	T	P	Total credits	Marks of Class works	Theory	Practical	Total		
1	16MMA23C1	Advanced metrology and calibration	4	0	-	4	50	100	-	150	3	4
2	16MMA23C2	Manufacturing Automation	4	0	-	4	50	100	-	150	3	4
3	16MMA23C3	Major Project (Dissertation Stage 1)	-	-	4	4	100	-	-	100		4
4	16MMA23CL1	Metrology & Automation Lab	-	-	2	2	50	-	50	100		2
7		Foundation Elective				2						
8		Open Elective				3						
		TOTAL	**19**									

NOTE:
Examiner will set nine questions in total. Question One will be compulsory and will comprises of all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Foundation Elective
A candidate has to select this paper from the pool of Foundation Electives provided by the University.

OPEN ELECTIVE
A candidate has to select this paper from the pool of open electives provided by the University.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 4th
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
1.	16MMA24C1	Major Project (Dissertation Stage 2)	-	-	-	-	250	-	500	750	**20**
		TOTAL	**- 750**	**-**	**-**		**-**	**250**	**-**		**500**

NOTE:

1. **Students have to publish a research paper in a journal / conference of the research work done in the semester.**

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

SECOND YEAR

Third Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN301	Cost and Management Accounting	80	20	-	100
BBAN302	Marketing Management	80	20	-	100
BBAN303	Capital Markets	80	20	-	100
BBAN304	Introduction to Information Technology	50	-	50	100
BBAN305	Environment Studies	80	20	-	100
BBAN306	Disaster Management	80	20	-	100
	TOTAL				600

Fourth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN401	Financial Management	80	20	-	100
BBAN402	Human Resource Management	80	20	-	100
BBAN403	Business Research Methods	80	20	-	100
BBAN404	Business Laws	80	20	-	100
BBAN405	Data Base Management System	50	-	50	100
BBAN406	Human Rights and Values	80	20	-	100
	TOTAL				600

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

THIRD YEAR

Fifth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN501	Production and Materials Management	80	20	-	100
BBAN502	Company Law	80	20	-	100
BBAN503	Indian Business Environment	80	20	-	100
BBAN504	Computer Networking & Internet	50	-	50	100
BBAN505	Presentation Skills and Personality Development	80	20	-	100
BBAN506	Cyber Security	80	20	-	100
BBAN507	Summer Training Report	100	-	-	100
	TOTAL				700

Sixth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN601	Income Tax	80	20	-	100
BBAN602	System Analysis & Design	80	20	-	100
BBAN603	Foundations of International Business	80	20	-	100
BBAN604	Consumer Protection	80	20	-	100
BBAN605	E-Commerce	50	-	50	100
BBAN606	Project Report	100	-	-	100
BBAN607	Comprehensive Viva-voce	100	-	-	100
	TOTAL				700

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT ★ HARYANA ★ DIRECTOR

CURRICULUM AND SCHEME OF EXAMINATIONS OF TWO YEAR MBA PROGRAMME

Second Year : 3rd Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA301	Strategic Management	80	20	-	100
MBA302	Management Information System	80	20	-	100
MBA303	Business Legislation	80	20	-	100
MBA304	Summer Training Report	100	-	-	100
Specialization Area I	Optional Paper - I				100
	Optional Paper - II				100
	Optional Paper - III				100
Specialization Area II	Optional Paper - I				100
	Optional Paper - II				100
	Optional Paper - III				100
	TOTAL				**1000**

Note:

1 Students are required to choose any three optional papers from each set of specialization areas offered under dual specialization scheme. The specialization area opted in 3rd Semester would remain same in 4th semester also.

2. The duration of the end term examination shall be 3 hours.

3. The following combinations of specializations shall be offered to the students of 2-Year MBA (General):
   a. Finance and Marketing
   b. Finance and Human Resource Management
   c. Human Resource Management and Marketing
   d. Finance and IT
   e. Finance and IB
   f. Marketing and IB
   g. Marketing and IT

CURRICULUM AND SCHEME OF EXAMINATIONS FOR TWO YEAR MBA PROGRAMME

Second Year: 4th Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA401	Entrepreneurship	80	20	-	100
MBA402	E-Commerce	50	-	50	100
MBA403	Project Report	100	-	-	100
MBA404	Comprehensive Viva-voce	100	-	-	100
Specialization Area I	Optional Paper – I				100
	Optional Paper – II				100
	Optional Paper – III				100
Specialization Area II	Optional Paper – I				100
	Optional Paper – II				100
	Optional Paper - III				100
	TOTAL				**1000**

Note:

1. Students are required to choose any three optional papers from each set of specialization areas offered under dual specialization scheme. The specialization area opted in 3rd Semester would remain same in 4th semester also.
2. The topic of the Project Report (Code MBA403) shall be finalized in 3rd semester by a Committee of the Faculty Members to be constituted by Director/Principal of the concerned Institute after presentation by the candidate before the Committee.
3. The duration of the end term examination shall be 3 hours.
4. The following combinations of specializations shall be offered to the students of 2-Year MBA (General):
   a. Finance and Marketing
   b. Finance and Human Resource Management
   c. Human Resource Management and Marketing
   d. Finance and IT
   e. Finance and IB
   f. Marketing and IB
   g. Marketing and IT

CURRICULUM AND SCHEME OF EXAMINATIONS FOR TWO YEAR MBA PROGRAMME

SPECIALISATIONS OFFERED IN 3RD AND 4TH SEMESTERS

HUMAN RESOURCE MANAGEMENT: Third Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA305	Performance Management	80	20	-	100
MBA307	Organisational Change and Development	80	20	-	100
MBA308	Compensation Management	80	20	-	100

Fourth Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA405	Talent Management	80	20	-	100
MBA406	Industrial Relations and Labour Legislations	80	20	-	100
MBA407	Strategic Human Resource Management	80	20	-	100

Note: The duration of the end term examination shall be 3 hours.

2017-18

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech 2nd YEAR CIVIL ENGINEERING,
3rd SEMESTER
Proposed 'F' Scheme w.e.f 2010

Subject Code	Subject Name	L	T	P	Total	Theory Marks	Class Marks	Practical Marks	Total Marks
MAT-201-F Or HUM-201-F	Mathematics-III Or Engineering Economics	3	1	0	4	100	50	0	150
HUM-203-F	Fundamental of Management	3	1	0	4	100	50	0	150
CE-201-F	Structural Analysis-I	3	1	0	4	100	50	0	150
CE-203-F	Building Construction Materials	3	1	0	4	100	50	0	150
CE-205-F	Fluid Mechanics-I	3	1	0	4	100	50	0	150
CE-207-F	Surveying-I	3	1	0	4	100	50	0	150
CE-209-F	Building Drawings	1	0	3	4	0	25	25	50
CE-211-F	Structural Analysis-I Lab	0	0	2	2	0	25	25	50
CE-213-F	Fluid Lab-I Lab	0	0	2	2	0	25	25	50
CE-215-F	Surveying-I Lab	0	0	2	2	0	50	50	100
	Total	19	7	9	35	600	425	125	1150

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS B.Tech
2nd YEAR CIVIL ENGINEERING,
4th SEMESTER
Proposed 'F' Scheme effective w.e.f 2010

Subject Code	Subject Name	L	T	P	Total	Theory Marks	Class Marks	Practical Marks	Total Marks
MAT-201- F Or HUM 201-F	Maths III Or Engg. Economics	3	1	0	4	100	50	-	150
CE-202-F	Structural Analysis-II	3	1	0	4	100	50	0	150
CE-204-F	Fluid Mechanics-II	3	1	0	4	100	50	0	150
CE-206-F	Design of Concrete Structures-I	3	1	0	4	100	50	0	150
CE-208-F	Surveying-II	3	1	0	4	100	50	0	150
CE-210-F	Construction and concrete technology	3	1	0	4	100	50	0	150
CE-212-F	Structural Analysis-II Lab	0	0	2	2	0	25	25	50
CE-214-F	Fluid mechanics Lab	0	0	2	2	0	25	25	50
CE-216-F	Surveying Lab	0	0	2	2	0	25	25	50
CE-218-F	Concrete Lab	0	0	2	2	0	25	25	50
GP-202-F	General Proficiency	-	-	2	2	50	-	-	50
Total		18	6	10	34	650	400	100	1150

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.

2.Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.

INSTITUTE OF TECHNOLOGY & ENGINEERING GANGA KABLANA DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR CIVIL ENGINEERING, SEMESTER- V
Proposed "F" Scheme effective from 2011-12

Subject Code	Subject Name	L	T	P	Total	Sessional Marks	Theory Marks	Sem Practical Marks	Total Marks
CE-301-F	Design of Steel Structure- I	3	1	-	4	50	100	0	150
CE-303-F	Transportation Engg.-I	3	1	0	4	50	100	0	150
CE-305-F	Water Supply-Treatment	3	1	0	4	50	100	0	150
CE-307-F	Soil Mechanics	3	1	0	4	50	100	0	150
CE-309-F	Numerical Methods And Computing Techniques	3	1	0	4	50	100	0	150
CE-311-F	Hydrology	3	1	0	4	50	100	0	150
CE-313 F	DSS-Drg.Lab	2	0	3	5	25	-	25	50
CE-315-F	Soil Mechanics Lab	0	0	2	2	25	0	25	50
CE-317 F	Transportation Lab-I	0	0	2	2	25	0	25	50
CE-319-F	Survey Camp	0	0	0	0	50	0	0	50
CE-321-F	Auto Cad Lab	0	0	2	2	25	0	25	50
	Total	20	6	9	35	450	600	100	1150

Note:

1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR CIVIL ENGINEERING, SEMESTER- VI
Proposed "F" Scheme effective from 2011-12

Subject Code	Subject Name	L	T	P	Total	Class Marks	Sem Theory Marks	Sem Practical Marks	Total Marks
CE-302-F	Design of Concrete Structures-II	4	2	0	6	50	100	0	150
CE-304-F	Irrigation Engineering-I	3	1	0	4	50	100	0	150
CE-306-F	Geotechnology	3	1	0	4	50	100	0	150
CE-308-F	Sewerage And Sewage Treatment	3	1	0	4	50	100	0	150
CE-310-F	Transportation Engg.-II	3	1	0	4	50	100	0	150
CE-312-F	Engineering Geology	3	1	0	4	50	100	0	150
CE-314-F	Geotechnology Lab	0	0	2	2	25	0	25	50
CE-316-F	Transportation Engg.-II Lab	0	0	2	2	25	0	25	50
CE-318-F	Engineering Geology Lab	0	0	2	2	25	0	25	50
CE-320-F	Environmental Engg. Lab	0	0	2	2	25	0	25	50
GPCE-318-F	General Proficiency	0	0	1	1	0	0	50	50
	Total	19	7	9	35	400	600	150	1150

NOTE:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B. Tech. 4th YEAR CIVIL ENGINEERING, SEMESTER- VII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

Subject Code	Subject Name	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
CE-401-F	Design of Steel Structure-II	3	1	-	4	50	100	-	150	3
CE-403-F	Disaster Mitigation and Management	3	1	-	4	50	100	-	150	4
CE-405-F	Estimating and Costing	3	1	-	4	50	100	-	150	3
CE-407-F	Irrigation Engg-II	3	1	-	4	50	100	-	150	3
----------	Elective	3	1	-	4	50	100	-	150	3
CE-451-F	Hydro Power Engg.	3	1	-	4	50	100	-	150	3
CE-453-F	Ground Water Engg	3	1	0	4	50	100	0	150	3
CE-455-F	Irrigation Drawing Lab	0	0	2	2	50	0	50	100	3
CE-457-F	Practical Training - II	-	-	2	-	-	-	-	-	-
GFCE-459-F	General Fitness for the Profession	-	-	-	-	-	-	50	50	3
	Total	21	7	4	32	400	700	100	1200	

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. **Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

ELECTIVES

1) CE -409 -F - Energy planning and management
2) CE -411-F - Environmental pollution and control
3) CE -417- F - Finite Element Methods
4) CE- 421 -F - Environmental impact and management
5) CE- 423- F - Elements of Earth Quake Engg.
6) CE- 433 -F - Hydraulic System Modeling

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech. 4th YEAR CIVIL ENGINEERING, SEMESTER- VIII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

		Subject	Internal Marks	External Marks	Total Marks
1.	CE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training in State/Central PWD, Railways and other Originations or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

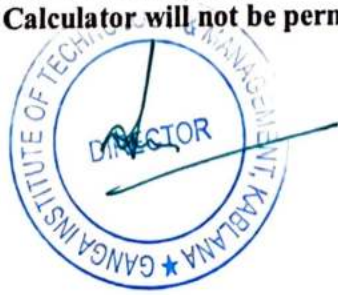
Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.TECH. II YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER III
'F' Scheme effective from 2010-11

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
1	MATH-201-F OR HUM-201-F	Mathematics III Common to (CSE,IT,ME,ECE,BME,EE,EEE,E&I,I&C) OR ENGG. ECONOMICS	3	2	-	5	50	100	-	150	3
2	CSE-201 F	Data Structures Using C (CSE,ECE,IT,EI)	3	1	-	4	50	100	-	150	3
3	CSE-203 F	Discrete Structures (CSE,IT)	3	1	-	4	50	100	-	150	3
4	EE-217 -F	Digital & Analog Communication (CSE,IT)	3	1	-	4	50	100	-	150	3
5	EE-204-F	Digital Electronics (Common with 4th Sem. – EE,EL,EI & IC)	3	1	-	4	50	100	-	150	3
6	HUM-203 F	Fundamental of Management (Common for all branches)	3	1	-	4	50	100	-	150	3
7	IT-201-F	PC Lab (CSE,IT)	-	-	3	3	50	-	50	100	3
8	CSE-205-F	Data Structures Using C Lab (CSE,ECE,IT,EI)	-	-	2	2	25	-	25	50	3
9	EE-224-F	Digital Electronics Lab (CSE,IT & Common with 4th Sem. – EE,EL,EI & IC)	-	-	3	3	50	-	50	100	3
		TOTAL	**18**	**7**	**8**	**33**	**425**	**600**	**125**	**1150**	

NOTE: 1.Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.

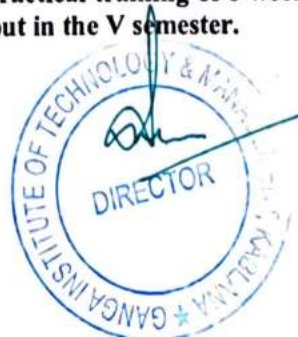


M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.TECH. II YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER - IV
'F' Scheme effective from 2010-11

Sl. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-202 F	Data Base Management Systems (CSE,IT)	3	1	-	4	50	100	-	150	3
2	CSE-204 F	Programming Languages	3	1	-	4	50	100	-	150	3
3	MATH-201-F OR HUM-201-F	Mathematics III Common to (CSE,IT,ME,ECE,BME,EE,EEE,E&I,I&C) OR ENGG. ECONOMICS	3	2	-	5	50	100	-	150	3
4	IT-202-F	Object-Oriented Programming using C++ (CSE,IT)	3	1	-	4	50	100	-	150	3
5	CSE-208 F	Internet Fundamentals (CSE,IT)	3	1	-	4	50	100	-	150	3
6	CSE-210 F	Computer Architecture and Organization (CSE,IT and Common with 5th Sem. EL,EI,IC)	3	1	-	4	50	100	-	150	3
7	CSE-212 F	Data Base Management Systems Lab. (CSE,IT)	-	-	3	3	50	-	50	100	3
8	IT-206-F	C++ Programming Lab. (CSE,IT)	-	-	2	2	25	-	25	50	3
9	CSE-214 F	Internet Lab. (CSE,IT)	-	-	2	2	25	-	25	50	3
10	GP-202 F	General Proficiency	-	-	2	2	50	-	-	50	
		TOTAL	**18**	**6**	**9**	**34**	**450**	**600**	**100**	**1150**	

Note:

1) **Students will be allowed to use non-programmable scientific calculator. However, sharing of**
2) **Calculator will not be permitted in the examination.**
3) **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.**



M. D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
Bachelor of Technology (Computer Science & Engineering)
Semester - V
'F' Scheme Effective from 2010-11

S. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-301 F	Principles of Operating System (CSE,IT)	3	1	-	4	50	100	-	150	3
2	EE-309-F	Microprocessors and Interfacing (EL,CSE,IT,EI, IC, EEE, AEI)	3	1	-	4	50	100	-	150	3
3	CSE-303-F	Computer Graphics (CSE,IT)	3	1	-	4	50	100	-	150	3
4	CSE-305-F	Theory of Automata Computation	3	1		4	50	100	-	150	3
5	CSE 307-F	Web Development (Common with IT – VI Sem)	3	1	-	4	50	100	-	150	3
6	IT-204-F	Multimedia Technologies (Common with IT- IV-Sem)	3	-	-	3	50	100	-	150	3
7	CSE-309-F	Computer Graphics Lab. (CSE,IT)	-	-	3	3	25	-	25	50	3
8	CSE-311-F	Web Development & Core JAVA Lab. (Common with 6th Sem.-IT)	-	-	2	2	25	-	25	50	3
9	IT-208-F	Multimedia Tech. Lab (Common with IT–IVSem)	-	-	2	2	25	-	25	50	3
10	EE-329-F	Microprocessors and Interfacing Lab. (EL,CSE,IT,EI, IC, EEE, AEI)	-	-	2	2	25	-	25	50	3
11.	CSE-313-F	O.S. Lab. (CSE, IT)	-	-	2	2	25	-	25	50	-
12	CSE-315-F	Practical Training-I	-	-	2	2	-	-	-	-	-
		TOTAL	18	5	13	36	425	600	125	1150	

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2. Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded „F" grade is required to repeat Practical Training.

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
Bachelor of Technology (Computer Science & Engineering)
Semester - VI
'F' Scheme Effective from 2010-11

S. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Marks of Class work	Total	Theory	Practical	Total	
1	CSE-302 F	Principles of Software Engineering (CSE,IT)	3	1	-	4	50	100	-	150	3
2	CSE-304 F	Intelligent Systems (CSE,IT)	3	1	-	4	50	100	-	150	3
3	IT-305 F	Computer Networks (CSE, EL & Common with 5 Sem. – IT, AEI)	3	1	-	4	50	100	-	150	3
4	IT-303 F	Systems Programming & System Administration (Common with 5 Sem. – IT)	3	1		4	50	100	-	150	3
5	CSE-306 F	Analysis & Design of Algorithms	3	1	-	4	50	100	-	150	3
6	EE-310-F	Digital System Design (EL,EE,CSE,EI, IC, AEI)	3	1	-	4	50	100	-	150	3
7	CSE-308 F	Intelligent Systems Lab. (CSE,IT)	-	-	3	3	25	-	25	50	3
8	EE-330-F	Digital System Design Lab. (EL,EI, IC,CSE, AEI)	-	-	3	3	25	-	25	50	3
9	CSE-310-F	Computer Network lab	-	-	2	2	25	-	25	50	3
	CSE-312-F	Visual Programming Lab.	-	-	2	2	25	-	25	50	3
9	GP-302-F	General Proficiency	-	-	-	-	50	-	-	50	3
		TOTAL	**18**	**6**	**10**	**34**	**450**	**600**	**100**	**1150**	-

Note:

1. Each student has to undergone practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.
2. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D.UNIVERSITY, ROHTAK
Scheme of Studies / Examination
Bachelor of Technology (Computer Science & Engineering)
SEMESTER VII
'F' Scheme Effective from 2012-13

Sl. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-401 F	Advanced Computer Architecture	3	1	-	4	50	100	-	150	3
2	CSE-403 F	Software Project Management (CSE,IT)	3	1	-	4	50	100	-	150	3
3	CSE-405 F	Compiler Design	3	1	-	4	50	100	-	150	3
4	CSE-407 F	Neural Networks	3	1	-	4	50	100	-	150	3
5	CSE-409 F	Advanced Java (CSE, IT)	3	1	-	4	50	100	-	150	3
6		Elective	3	1	-	4	50	100	-	150	3
7	CSE-411 F	Compiler Design Lab	-	-	2	2	25	-	50	75	3
8	CSE-413 F	Neural Networks Using MATLAB	-	-	2	2	25	-	50	75	3
9	CSE-415 F	Advanced JAVA Lab (CSE, IT)	-	-	3	3	50	--	100	150	3
10	CSE-417 F	PRATICAL TRAINING-II	-	-	-	-	-	-	-	-	-
		TOTAL	**18**	**6**	**7**	31	400	600	200	1200	

List of Electives

1.	CSE-423 F	Distributed Operating System
2.	IT-465F	Network Security & Management
3.	CSE-421 F	Real Time Systems
4.	CSE-435 F	Advanced Database Management Systems
5.	IT-467 F	Computer Software Testing
6.	IT-473 F	High Speed Networks

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. **Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva- voce and project report of the student. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech. 4th YEAR COMPUTER SC & ENGINEERING, SEMESTER- VIII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

		Subject	Internal Marks	External Marks	Total Marks
1.	CSE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ GANGA
DIRECTOR

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.Tech II YEAR (ELECTRICAL ENGINEERING)
SEMESTER III
'F' Scheme effective from 2010-11

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
HUM-203-F	FUNDAMENTALS OF MANAGEMENT (COMMON FOR ALL BRANCHES)	3	1	-	4	50	100	-	150	3
EE-201-F	ELECTRONIC DEVICES & CIRCUITS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-203-F	NETWORK THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-207-F	ELECTRICAL MACHINES-I (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-209-F	ELECTRICAL MEASUREMENTS & MEASURING INSTRUMENTS (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-223-F	NETWORK THEORY LAB. (ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-211-F	ELECTRICAL MEASUREMENTS & MEASURING INSTRUMENTS LAB. (EE, EEE)	-	-	2	2	25	-	25	50	3
EE-213-F	ELECTRICAL WORKSHOP (IC,EE, EEE)	-	-	2	2	25	-	25	50	3
EE-215-F	ELECTRICAL MACHINES-I LAB. (EE, EEE)	-	-	3	3	50	-	50	100	3
	TOTAL	**18**	**6 Or 7**	**9**	**33 Or 34**	**425**	**600**	**125**	**1150**	

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.**

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.Tech II YEAR (ELECTRICAL ENGINEERING)
SEMESTER – IV
'F' Scheme effective from 2010-11

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
EE-212-F	TRANSMISSION AND DISTRIBUTION (EE,EEE)	3	-	-	3	50	100	-	150	3
EE-202-F	ANALOG ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-204-F	DIGITAL ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-220-F	PRINCIPLES OF COMMUNICATION SYSTEMS (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-208-F	ELECTRO MAGNETIC THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-222-E	ANALOG ELECTRONICS LAB (ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-224-F	DIGITAL ELECTRONICS LAB (ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-230-F	PRINCIPLES OF COMMUNICATION SYSTEMS LAB (EE, EEE)	-	-	2	2	25	-	25	50	3
MATH-204-F	NUMERICAL METHODS LAB (ECE,EI,EE,EEE,IC)	1	1	2	4	25	-	25	50	3
GP-202-F	GENERAL PROFICIENCY (COMMON FOR ALL BRANCHES)	-	-	2	2	50	-	-	50	3
	TOTAL	**19**	**6 or 7**	**10**	**35 Or 36**	**450**	**600**	**100**	**1150**	

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.**
2. **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination

Bachelor of Technology (Electrical Engg.)

SEMESTER V

'F ' Scheme Effective from 2011–2012

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-311-F	Electrical Machines-II (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-303-F	Electronic Measurement And Instrumentation (EE,EEE,ECE,IC)	3	1	-	4	50	100	-	150	3
EE-305-F	Analog Electronics Circuits (EE,EEE,ECE,IC)	3	1	-	4	50	100	-	150	3
EE-315-F	Power Systems-I (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-317-F	Power Electronics (EE, EEE, Common with VI sem IC)	3	1	-	4	50	100	-	150	3
EE-309-F	Microprocessors And Interfacing (EE,EEE,ECE)	3	1	-	4	50	100	-	150	3
EE-323-F	Electronic Measurement & Instrumentation Lab (EE,EEE,ECE,IC)	-	-	2	2	25	-	25	50	3
EE-321-F	Power Electronics Lab. (EE, EEE Common with VI sem , IC)	-	-	2	2	25	-	25	50	3
EE-319-F	Microprocessor & Interfacing Lab. (EE,EEE)	-	-	2	2	25	-	25	50	3
EE-327-F	Electrical Machines-II LAB. (EE, EEE)	-	-	3	3	25	-	25	50	3
EE-333-F	Practical Training-I	-	-	2	2		-	-		-
	TOTAL	**18**	**6**	**11**	**35**	**400**	**600**	**100**	**1100**	

Note:

1) **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2) **Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D UNIVERSITY,ROHTAK
SCHEME OF STUDIES AND EXAMINATION
B.Tech. III YEAR (ELECTRICAL ENGINEERING)
SEMESTER - VI
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-312-F	Power Systems –II (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-314-F	Computer Added Electric Machines Design (EE, EEE)	3	1	-	4	50	10 0	-	150	3
EE-308-F	Micro-Controller And Embeded System(EE,ECE)	3	1	-	4	50	100	-	150	3
EE-304-F	Control systems engg. (EE, EEE,ECE)	3	1	-	4	50	100	-	150	3
EE-318-F	Electric Power Generation (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-310-F	Digital System Design (IC,EE,ECE,)	3	1	-	4	50	100	-	150	3
EE-324-F	Control system engg. Lab (EE, EEE,ECE)	-	-	2	2	25	-	25	50	3
EE-320-F	Micro-Controller And Embeded System LAB (EE,ECE)	-	-	2	2	25	-	25	50	3
EE-326-F	Computer Added Electric Machines Design Lab (EE, EEE)	-	-	2	2	25	-	25	50	3
EE-328-F	Power Systems Lab (EE, EEE)	-	-	2	2	25	-	25	50	3
GPEE-302-F	GENERAL PROFICIENCY	-	-	-	-	50	-	-	50	3
	TOTAL	**18**	**6**	**8**	**32**	**450**	**600**	**100**	**1150**	

Note:

1. **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.**
2. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electrical Engg.)

SEMESTER VII

F ' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-403-F	Electric Drives And Control	3	1	-	4	50	100	-	150	3
ECE-409-F	Digital Signal Processing	3	1	-	4	50	100	-	150	3
EE-405-F	Power System Operation And Control	3	1	-	4	50	100	-	150	3
	*Open Elective	3	1	-	4	50	100	-	150	3
	*Dept Elective	3	1	-	4	50	100	-	150	3
EE-409-F	Computer Applications To Power System Analysis	3	1	-	4	50	100	-	150	3
EE-413-F	Electric Drives And Control Lab.			3	3	50	-	50	100	3
ECE-429-F	Digital Signal Processing Lab	-	-	2	2	25	-	25	50	3
EE-419-F	Computer Applications To Power System Analysis Lab.	-	-	3	3	50	-	50	100	3
GFEE-401-F	General Fitness For The Profession	-	-	-	-		-	50	50	3
EE-401-F	Practical Training – II	-	-	-	-	-	-		-	-
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**175**	**1200**	

List of Open Electives

1.	HUM-451-F	Language Skills for Engineers
2.	HUM-453-F	Human Resource Management
3.	HUM-459-F	Renewable Energy Resources and Technology
4.	ME-451-F	Mechatronics Systems
5.	IC-455-F	Intelligent Instrumentation for Engineers
6.	OR-401-F	Operations Research

List of Dept Electives

1. EHV AC/DC (EE-432-F)
2. Fuzzy Logic Control (IC-404-F)
3. Recent Trends in De-regulated Power Systems (EE-438-F)
4. High Voltage Engineering (EE-442-F)
5. Electrical Power Quality (EE-444-F)
6. Power Management (EE-450-F)

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAHLANA ★ DIRECTOR

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. ***Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.**
4. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student from the industry. According to performance, letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination

B. Tech. (Electrical Engg.)

SEMESTER VIII

F ' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Sr. No	Course No	Subject	Internal Marks	External Marks	Total Marks
1.	EE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.Tech II YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER III
'F' Scheme effective from 2010-11

Sr No	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
HUM-203-F	FUNDAMENTALS OF MANAGEMENT (COMMON FOR ALL BRANCHES)	3	1	-	4	50	100	-	150	3
EE-201-F	ELECTRONICS DEVICES & CIRCUITS(ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-203-F	NETWORK THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-205-F	ELECTROMECHANICAL ENERGY CONVERSION(ECE,EI,IC)	3	1	-	4	50	100	-	150	3
CSE-201-F	DATA STRUCTURE USING ' C' (ECE,EI,CSE,IT)	3	1	-	4	50	100	-	150	3
EE-221-F	ELECTRONIC WORKSHOP, PCB DESIGN & CIRCUIT LAB(ECE,EI)	-	-	2	2	25	-	25	50	3
EE-223-F	NETWORK THEORY LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-225-F	ELETRICAL WORKSHOP & MACHINE LAB (ECE,EI)	-	-	3	3	50	-	50	100	3
CSE-205-F	DATA STRUCTURE USING 'C' Lab (ECE,EI,CSE,IT)		-	2	2	25	-	25	50	3
	TOTAL	**18**	**7**	**9**	**33 Or 34**	**425**	**600**	**125**	**1150**	

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, Sharing of Calculator and other material will not be permitted in the examination.**

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
BE. II YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER – IV
'F' Scheme effective from 2010-11

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
EE-228-F	SIGNALS & SYSTEMS(ECE,EI)	3	-	-	3	50	100	-	150	3
EE-202-F	ANALOG ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-204-F	DIGITAL ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-206-F	COMMUNICATION SYSTEMS(ECE)	3	1	-	4	50	100	-	150	3
EE-208-F	ELECTRO MAGNETIC THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-222-F	ANALOG ELECTRONICS LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-224-F	DIGITAL ELECTRONICS LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-226-F	COMMUNICATION SYSTEMS LAB (ECE)	-	-	2	2	25	-	25	50	3
MATH-204 –F	NUMERICAL METHODS OF COMPUTATIONAL PROGRAMMING LAB(ECE,EI,EE,EEE,IC)	1	1	2	4	25	-	25	50	3
GP-202-F	GENERAL PROFICIENCY (COMMON FOR ALL BRANCHES)	-	-	2	2	50	-	-	50	3
	TOTAL	**19**	**6 Or 7**	**10**	**35 Or 36**	**450**	**600**	**100**	**1150**	

Note:
1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.
2.Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
BTech. III YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER V
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-301-F	COMMUNICATION Engg.	3	1	-	4	50	100	-	150	3
EE-303-F	ELECTRONIC MEASUREMENT & INSTRUMENTATION (EL,EI,IC,EE,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-305-F	ANALOG ELECTRONIC CIRCUITS (EL,EI,IC,EE,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-307-F	ANTENNAS,WAVE PROPAGATION& TV Engg.	3	1	-	4	50	100	-	150	3
CSE-210-F	COMPUTER ARCHITECTURE AND ORGANISATION (EL,EI,IC,Common with IV sem. CSE,IT)	3	1	-	4	50	100	-	150	3
EE-309-F	MICROPROCESSORS AND INTERFACING (EL,EI,IC,CSE,IT,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-323-F	ELECTRONIC MEASUREMENT & INSTRUMENTATION LAB (EL,EI,IC,EE)	-	-	2	2	25	-	25	50	3
EE-325-F	ANALOG ELECTRONIC CIRCUITS LAB (EL,EI,IC)	-	-	2	2	25	-	25	50	3
EE-329-F	MICROPROCESSORS AND INTERFACING LAB (EL,EI,IC,CSE,IT,EEE,AEI)	-	-	2	2	25	-	25	50	3
EE-335-F	PRACTICAL TRAINING		-	2	2		-			
GPECE301-F	GERNERAL PROFICIENCY					50			50	3
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**75**	**1100**	

Note:

1) **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2) **Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D UNIVERSITY,ROHTAK
SCHEME OF STUDIES AND EXAMINATION
B.Tech. III YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER - VI
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-302-F	MICROWAVE AND RADAR ENGINEERING	3	1	-	4	50	100	-	150	3
EE-304--F	CONTROL SYTEMS ENGG. (EL,EE, EEE)	3	1	-	4	50	100	-	150	3
EE-306-F	VLSI Design	3	1	-	4	50	100	-	150	3
IT-305-F	COMPUTER NETWORKS	3	1	-	4	50	100	-	150	3
EE-310-F	DIGITAL SYSTEM DESIGN (EL,EI, IC,EE,CSE, AEI)	3	1	-	4	50	100	-	150	3
EE-308-F	MICROCONTROLLER & EMBEDDED SYSTEM	3	1	-	4	50	100	-	150	3
EE-328-F	MICROCONTROLLER & EMBEDDED SYSTEM LAB	-	-	2	2	25	-	25	50	3
EE-326-F	DIGITAL SYSTEM DESIGN LAB (EL,EI, IC,EE,CSE, AEI)	-	-	2	2	25	-	25	50	3
EE-322-F	MICROWAVE AND RADAR LAB	-	-	2	2	25	-	25	50	3
EE-324-F	CONTROL SYTEMS ENGG. LAB (EL,EE, EEE,AEI)		-	2	2	25	-	25	50	3
	TOTAL	**18**	**6**	**8**	**32**	**400**	**600**	**100**	**1100**	

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.**
2. **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electronics and Communication Engg.)

SEMESTER VII

F ' Scheme Effective from 2012–2013

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ECE-405-F	WIRELESS COMMUNICATION	3	1	-	4	50	100	-	150	3
ECE-403-F	SATELITE COMMUNICATION ENGINEERING	3	1	-	4	50	100	-	150	3
ECE-407-F	DATA COMMUNICATION	3	1	-	4	50	100	-	150	3
ECE-415-F	OPTICAL COMMUNICATION SYSTEMS	3	1	-	4	50	100	-	150	3
	*Dept Elective-I	3	1	-	4	50	100	-	150	3
ECE-409-F	Digital Signal Processing	3	1	-	4	50	100	-	150	3
ECE-423-F	Wireless & Satellite Communication Lab			3	3	50	-	50	100	3
ECE-427-F	Digital Signal Processing Lab	-	-	2	2	25	-	25	50	3
ECE-429-F	Data Communication Lab	-	-	3	3	50	-	50	100	3
GFEE-401-F	General Fitness For The Profession	-	-	-	-		-	50	50	3
ECE-404-F	Practical Training II									
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**175**	**1200**	

List of Dept Electives-I

ECE-419-F	Mobile Communication
ECE-461-F	Genetic Algorithms & Applications
ECE-453-F	Radar and Sonar Engg.
ECE-411-F	Wireless Sensor Network
ECE-413-F	Fuzzy Control System

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. ***Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.**

NOTE:-

1. Assessment of Practical Training-II, (ECE-404F) carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student from the industry. According to performance letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electronics and Communication Engg.)

SEMESTER VIII

F ' Scheme Effective from 2012–2013

Training of Six Months

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ECE-402-F	Industrial Training /Institutional Project work	-	-	8	8	150	-	150	300	-
	Total			8	8					

Note:

1. **The students are required to undergo Industrial Training or Institutional Project work of duration not less than 4 months in a reputed organization or concerned institute. The student who wish to undergo industrial training, the industry chosen for should be a private limited company.**
2. **The final Viva-voca of the industrial training or Institutional Project work will be conducted by the external examiner and one internal examiner appointed by the institute. External examiner will be from penal of examiner.**
   Assessment of traing or project will be based on Seminar, viva-voca, report and certificate of Industrial Training or Institutional project work.
3. **The internal marks distribution for students who have undergone Industrial training consist of 50 marks from the Industry concern and 100 Marks by the committee members consisting of faculty members of concerned department of the present institute.**
4. **The teacher engaged for institutional project work shall have a workload of 2 hours per group (at least 4 students per work)**

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATIONS
B.Tech 2nd YEAR (FIRE TECHNOLOGY AND SAFETY)
3rd SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching Schedule				Marks for class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT 201F OR HUM 201 F	Mathematics-III or Engineering Economics	3 or 3	2 or	- -	5 or 4	50 50	100	-	150	3
HUM 203F	Fundamentals of Management	3	1	-	4	50	100	-	150	3
FT 201 F	Town Planning and Safety in Construction Industry	3	1	-	4	50	100	-	150	3
FT 203 F	Fire Engineering	3	1	-	4	50	100	-	150	3
FT 205 F	First Aid and Emergency Procedures	3	1	4	4	50	100	-	150	3
FT 207 F	Heavy Vehicle Automobile Engineering and Safety	3	1	-	4	50	100	-	150	3
FT 209 F	Machine Drawing and Design	1	-	3	4	50	-	50	100	3
FT 211 F	Heavy Vehicle Automobile Engineering and Safety Lab	-	-	2	2	25	-	25	50	3
FT 213 F	Fire Protection Workshop	-	-	2	2	25	-	25	50	3
FT 215 F	Fire Fighting and Field Training - I	-	-	2	2	25	-	25	50	3
	Total	**19**	**6/7**	**9**	**34/35**	**425**	**600**	**125**	**1150**	

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS

B.Tech. 2nd YEAR (FIRE TECHNOLOGY AND SAFETY)

4th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching Schedule				Marks for class	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT 201F or HUM 201 F	Mathematics-III or Engineering Economics	3 or 3	2 or 1	-	5 or 4	50	100	-	150	3
FT 202F	Safety Engineering and Management	3	1	-	4	50	100	-	150	3
FT 204 F	Energy Environment Ethics and Society	3	1	-	4	50	100	-	150	3
FT 206 F	Strength of Material	3	1	-	4	50	100	-	150	3
FT 208 F	Electrical Fire Safety	3	1	-	4	50	100	-	150	3
FT 210 F	Pumping Machinery and Fluid Mechanics	3	1	-	4	50	100	-	150	3
FT 212 F	Strength of Material Lab	-	-	2	2	25	-	25	50	3
FT 214 F	Electrical Fire Safety Lab	-	-	2	2	25	-	25	50	3
FT 216 F	Pumping Machinery and Fluid Mechanics	-	-	2	2	25	-	25	50	3
FT 218 F	Fire Fighting and Field Training - II	-	-	2	2	25	-	25	50	3
GP 202 F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	**18**	**6/7**	**9**	**34/35**	**450**	**600**	**100**	**1150**	

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS

B.Tech 3rd YEAR (FIRE TECHNOLOGY AND SAFETY)

5th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 301F	Rescue Equipments and Techniques	3	1	-	4	50	100	-	150	3
FT 303 F	Building Design and Drawing	3	1	-	4	50	100	-	150	3
FT 305 F	Salvage Evaluation of Fire Situation	3	1	-	4	50	100	-	150	3
FT 307 F	Environmental Engineering and Management	3	1	-	4	50	100	-	150	3
FT 309 F	Fire Prevention and Protection Measures	3	1	-	4	50	100	-	150	3
FT 311 F	Nuclear Safety and Radioactive Materials	3	1	-	4	50	100	-	150	3
FT 313 F	Environmental Engineering Lab	-	-	2	2	25	-	25	50	3
FT 315 F	Field Training in Fire Rescue	-	-	2	2	25	-	25	50	3
FT 317 F	AutoCAD and Fire Software Lab	-	-	2	2	25	-	25	50	3
FT 319F	Engineering Workshop Practice	-	-	2	2	25	-	25	50	3
	Total	18	6	8	32	400	600	100	1100	

Note:-

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

2. Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS

B.Tech 3rd YEAR (FIRE TECHNOLOGY AND SAFETY)

6th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 302F	Legal Aspect of Safety, Health and Environment	3	1	-	4	50	100	-	150	3
FT 304F	Fire Safety Codes and Standardization	3	1	-	4	50	100	-	150	3
FT 306F	Fire Fighting & Safety Equipments	3	1	-	4	50	100	-	150	3
FT 308F	Identification and Risk Assesmant	3	1	-	4	50	100	-	150	3
FT 310F	Applied Numerical Technique and Computing	3	1	-	4	50	100	-	150	3
FT 312F	Heat Transfer, Combustion and Explosives	3	1	-	4	50	100	-	150	3
FT 314F	Field Training Rescue (Chemical Hazards)	-	-	2	2	25	-	25	50	3
FT 316F	Applied Numerical Technique and Computing Lab	-	-	2	2	25	-	25	50	3
FT 318F	Heat Transfer, Combustion and Explosives Lab	-	-	2	2	25	-	25	50	3
FT 320 F	Industrial Hygiene Lab	-	-	2	2	25	-	25	50	3
FT 322F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	18	6	10	34	450	600	100	1150	

Note:-

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech 4th YEAR FIRE TECHNOLOGY & SAFETY,

7th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 401 F	Safety and Risk Management	3	1	-	4	50	100	-	150	3
FT 403 F	Industrial Engineering	3	1	-	4	50	100	-	150	3
FT 405 F	Operational Research	3	1	-	4	50	100	-	150	3
FT 407 F	Disaster Management	3	1	-	4	50	100	-	150	3
FT 409 F	Fire Fighting Installation and Automation	3	1	-	4	50	100	-	150	3
--------	Dept. Elective	3	1	-	4	50	100	-	150	3
FT 411 F	Fire Fighting Installation and Automation Lab	-	-	2	2	50	-	50	100	3
FT 413 F	Squad Drill	-	-	2	2	50	-	50	100	3
	Total	18	6	4	28	400	600	100	1100	-

Dept. Elective:

1. FT 417 F Process Instrumentation and Control Engineering
2. FT 419 F Automobile Engineering and Safety.
3. FT 421 F Advanced Safety Engineering and Management.
4. FT 423 F Environmental Protection and Waste Management.
5. FT 425 F Human Factor Engineering.
6. FT 427 F Simulation and Process Modeling
7. FT 429 F Total Quality management
8. FT 431 F Safety in Health Care waste Management
9. FT 433 F Safety in Construction

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech 4th YEAR FIRE TECHNOLOGY & SAFETY, 8th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Sl. No.	Course No.	Subject	Internal Marks	External Marks	Total Marks
1.	FT- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engineering and Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech 2nd YEAR MECHANICAL ENGINEERING,
3rd SEMESTER
Proposed 'F' Scheme w.e.f 2010-11

Course	Course Title	Teaching Schedule				Marks for class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT-201-F or HUM-201-F	Mathematics-III or Engineering Economics	3 or 3	2 or 1	- -	5 or 4	50	100	-	150	3
HUM-203-F	Fundamentals of Management	3	1	-	4	50	100	-	150	3
ME-201-F	Thermodynamics	3	1	-	4	50	100	-	150	3
ME-203-F	Computer Aided Design	3	1	-	4	50	100	-	150	3
ME-205-F	Engineering Mechanics	3	1	-	4	50	100	-	150	3
ME-207-F	Material Science	3	1	-	4	50	100		150	3
ME-209-F	Machine Drawing	1	-	3	4	50	-	50	100	4
ME-211-F	Computer Aided Design Lab	-	-	2	2	25	-	25	50	3
ME-213-F	Engineering Mechanics Lab	-	-	2	2	25	-	25	50	3
ME-215-F	Materials Science Lab	-	-	2	2	25	-	25	50	3
	Total	**19**	**6**	**10**	**34/35**	**425**	**600**	**125**	**1150**	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech 2nd YEAR MECHANICAL ENGINEERING,
4th SEMESTER
Proposed 'F' Scheme w.e.f 2010-11

Course	Course Title	Teaching Schedule				Marks for class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT-201-F or HUM-201-F	Mathematics-III or Engineering Economics	3 or 3	2 or 1	-	5 or 4	50	100	-	150	3
ME-202-F	Manufacturing Technology-I	3	1	-	4	50	100	-	150	3
ME-204-F	Kinematics of Machine	3	1	-	4	50	100	-	150	3
ME-206-F	Strength of Materials-I	3	1	-	4	50	100	-	150	3
ME-208-F	Fluid Mechanics	3	1	-	4	50	100	-	150	3
ME-210-F	Steam & Power Generation	3	1	-	4	50	100	-	150	3
ME-212-F	Kinematics of Machine Lab	-	-	2	2	25	-	25	50	3
ME-214-F	Strength of Materials Lab	-	-	2	2	25	-	25	50	3
ME-216-F	Fluid Mechanics Lab	-	-	2	2	25	-	25	50	3
ME-218-F	Steam & Power Generation Lab	-	-	2	2	25	-	25	50	3
GP-202-F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	**18**	**6**	**9**	**34/35**	**450**	**600**	**100**	**1150**	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR MECHANICAL ENGINEERING, SEMESTER- V
Proposed "F" Scheme effective from 2011-12

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-301-F	Dynamics Of Machines	3	1	-	4	50	100	-	150	3
ME-303-F	Mechanical Machine Design-1	3	2	-	5	50	100	-	150	4
ME-305-F	Fluid Machine	3	1	-	4	50	100	-	150	3
ME-307-F	Internal Combustion Engines & Gas Turbines	3	1	-	4	50	100	-	150	3
ME-309-F	Manufacturing Technology –II	3	1	-	4	50	100	-	150	3
ME-311-F	Applied Numerical Technique & Computing	3	-	-	3	50	100	-	150	3
ME-313-F	Dynamics Of Mechanics Lab	-	-	2	2	25	-	25	50	3
ME-315-F	Fluid Machine Lab	-	-	2	2	25	-	25	50	3
ME-317-F	Internal Combustion Engines & Gas Turbines Lab	-	-	2	2	25	-	25	50	3
ME-319-F	Manufacturing Technology –II Lab	-	-	2	2	25	-	25	50	3
ME-321-F	Applied Numerical Technique & Computing Lab	-	-	2	2	50	-	-	50	-
ME-323-F	Practical Training Viva-Voce	-	-	2	2	-	-	-	-	-
	Total	18	6	12	36	450	600	100	1150	

Note:

1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR MECHANICAL ENGINEERING, SEMESTER- VI
Proposed "F" Scheme effective from 2011-12

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-302-F	Automobile Engineering	3	1	-	4	50	100	-	150	3
ME-304-F	Mechanical Machine Design-II	3	2	-	5	50	100	-	150	4
ME-306-F	Heat Transfer	3	1	-	4	50	100	-	150	3
ME-308-F	Automatic Control	3	1	-	4	50	100	-	150	3
ME-310-F	Measurement & instrumentation	3	1	-	4	50	100	-	150	3
ME-312-F	Industrial Engineering	3	1	-	4	50	100	-	150	3
ME-314-F	Automobile Engineering Lab	-	-	2	2	25	-	25	50	3
ME-316-F	Heat Transfer Lab	-	-	2	2	25	-	25	25	3
ME-318-F	Measurement & instrumentation Lab	-	-	2	2	25	-	25	25	3
ME-320-F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	18	7	8	33	450	600	100	1050	

NOTE:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER- VII
(Scheme-F)
EFFECTIVE FROM THE SESSION 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-401-F	Strength of Material-II	3	1	-	4	50	100	-	150	3
ME-403-F	Refrigeration & Air-Conditioning	3	1	-	4	50	100	-	150	3
ME-405-F	Operation Research	3	1	-	4	50	100	-	150	3
ME-407-F	Power Plant Engineering	3	1	-	4	50	100	-	150	3
ME-409-F	Mechanical Vibration	3	1	-	4	50	100	-	150	3
----------	Elective	3	1	-	4	50	100	-	150	3
ME-411-F	Refrigeration & Air-Conditioning Lab	-	-	2	2	50	-	50	100	3
ME-413-F	Advanced CAD/CAM Lab	-	-	2	2	50	-	100	150	3
ME-415-F	Practical Training-II	-	-	2	2	-	-	-	-	-
GFME-435-F	General Fitness for the Profession	-	-	-	-	-	-	50	50	3
	Total	18	6	6	30	400	600	200	1200	

LIST OF ELECTIVES

S.NO.	SUBJECT CODE	DEPTT. ELECTIVE
1.	ME-417-F	QUALITY ENGINEERING
2.	ME 419-F	FINITE ELEMENT METHODS
3.	ME-421-F	ENERGY MANAGEMENT PRINCIPLES
4.	ME- 425-F	COMPUTER INTEGRATED MANUFACTURING
5.	ME- 429-F	RELIABILITY ENGINEERING
6.	ME-431-F	SOLAR ENERGY ENGINEERING

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER- VIII
(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

Sl. No.	Course No.	Subject	Internal Marks	External Marks	Total Marks
1.	ME- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

M.D. UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 1st
CBCS Scheme effective from 2016-17

Sr. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours/ week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16CSE21C1	Data Communication and Computer Networks	4	0	-	4	50	100	-	150	3	4
2	16CSE21C2	Advanced Operating Systems	4	0	-	4	50	100	-	150	3	4
3	16CSE21C3	Advanced Database Management System	4	0	-	4	50	100	-	150	3	4
4	16CSE21C4	Data Warehouse and Mining	4	0	-	4	50	100	-	150	3	4
5	16CSE21C5	Mathematical Foundation of Computer Science	4	0	-	4	50	100	-	150	3	4
6	16CSE21C6	Seminar	-		-	2	50	-	-	50		2
7	16CSE21CL1	Advanced Operating Systems Lab	-	-	2	2	50	-	50	100	3	2
8	16CSE21CL2	Advanced Database Management System Lab	-	-	2	2	50	-	50	100	3	2
		TOTAL	26									

NOTE:

Examiner will set nine question in total. Question one will be compulsory and will comprises of all section and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D. UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 2nd
CBCS Scheme effective from 2016-17

Sr. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours /week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16CSE22C1	Soft Computing	4	0	-	4	50	100	-	150	3	4
2	16CSE22C2	Algorithm Design	4	0	-	4	50	100	-	150	3	4
3	16CSE22C3	Seminar	-		2	2	50	-	-	50	-	2
4	16CSE22CL1	Soft Computing Lab	-	-	2	2	50	-	50	100	3	2
5	16CSE22CL2	Algorithm Design Lab	-	-	2	2	50	-	50	100	3	2
6	16CSE22D1 or 16CSE22D2 or 16CSE22D3 or 16CSE22D4	Elective-1	4	0	-	4	50	100	-	150	3	4
7		Open Elective				3						3
8		Foundation Elective				2						2
			23									

NOTE: Examiner will set nine question in total. Question One will be compulsory and will comprises of all section and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective 1 : Choose any one from the following papers

16CSE22D1 Mobile and Wireless Communication
16CSE22D2 Optimization Techniques
16CSE22D3 Discrete Mathematics
16CSE22D4 Internet and Web Development

Elective 2

A candidate has to select this paper from the pool of Open Electives provided by the University

Elective 3

A candidate has to select this paper from the pool of Foundation Electives provided by the University.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 3rd
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours/ week
			L	T	P	Total credits	Marks of Class works	Theory	Practical	Total		
1	17CSE23C1	Knowledge Based System	4	0	-	4	50	100	-	150	3	4
2	17CSE23C2	Network Security	4	0	-	4	50	100	-	150	3	4
3	17CSE23C3	Literature Survey (Dissertation Stage 1)	-	-	2	2	100	-	-	100		4
4	17CSE23C4	Seminar	-		2	2	50	-	-	50		2
5	17CSE23CL1	Knowledge Based System Lab	-	-	2	2	50	-	50	100		2
6	17CSE23CL2	Project	-	-	2	2	50	-	50	100		2
7		Open Elective				3						
		TOTAL	**21**									

NOTE:
Examiner will set nine questions in total. Question One will be compulsory and will comprises of all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

OPEN ELECTIVE
A candidate has to select this paper from the pool of open electives provided by the University.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 4th
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
1.	17CSE24C1	Dissertation and viva (Dissertation Stage 2)	-	-	-	-	250	-	500	750	**20**
		TOTAL	-	-	-	-					

NOTE:

1. **Students have to publish a research paper in a journal / conference of the research work done in the semester.**

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY

(CYBER FORENSICS AND INFORMATION SECURITY)

SEMESTER-III

EFFECTIVE FROM 2013-14

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTCF 301	Preserving & Recovering Digital Evidence	4	-	-	50	100	150	3
MTCF 302	Cyber Laws & Security Policy	4	-	-	50	100	150	3
	Elective-III	4	-	-	50	100	150	3
MTCF 307	Dissertation Phase 1	-	-	8	100	-	100	3
MTCF 308	Seminar & Technical Writing	-	-	2	50	-	50	-
TOTAL		12	-	10	300	300	600	

Elective- III

MTCF 303- Biometric Security
MTCF 304- Applied Cryptography
MTCF 305- Distributed Systems Security
MTCF 306- Secure Software Engineering

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY

(CYBER FORENSICS AND INFORMATION SECURITY)

SEMESTER-IV

EFFECTIVE FROM 2013-14

Course No.	Course Title	Teaching Schedule			Marks		Total
		L	T	P	Sessional	Exam.	
MTCF 401	Dissertation Phase- II	-	-	24	200	400	600
	Total		-	24	200	400	600

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 1
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours /week
			L	T	P	Total Credits	Marks of Class work	Theory	Practical	Total		
1	16ECE21C1	Advance Microprocessor & Microcontroller	4	0	-	4	50	100	-	150	3	4
2	16ECE21C2	Satellite and Space Communication	4	0	-	4	50	100	-	150	3	4
3	16ECE21C3	Information and Communication Theory	4	0	-	4	50	100	-	150	3	4
4	16ECE21C4	Advanced Digital Signal Processing	4	0	-	4	50	100	-	150	3	4
5	16ECE21C5	Data Communication Networks	4	0	-	4	50	100	-	150	3	4
6	16ECE21C6	Seminar	-		-	2	50	-	-	50		2
7	16ECE21CL1	Satellite Lab	-	-	2	2	50	-	50	100	3	4
8	16ECE21CL2	Advance Microprocessor & Microcontroller Lab	-	-	2	2	50	-	50	100	3	4
		TOTAL	26									

NOTE:

Examiner will set nine question in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (ELECTRONICS & COMMUNICATION) SEMESTER 2
CBCS Scheme effective from 2016-17

Sl. No	Course No.	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total	
1	16ECE22C1	Wireless Mobile Communication	4	0	-	4	50	100	-	150	3
2	16ECE22C2	Optical Communication	4	0	-	4	50	100	-	150	3
3	16ECE22C3	Seminar	-		-	2	50	-	-	50	
4	16ECE22CL1	VLSI Lab	-	-	2	2	50	-	50	100	3
5	16ECE22CL2	Optical Communication Lab	-	-	2	2	50	-	50	100	3
6	16ECE22D1 or 16ECE22D2 or 16ECE22D3 or 16ECE22D4	Elective-1	4	0	-	4	50	100	-	150	3
7		Open Elective				3					
8		Foundation Elective				2					
		TOTAL				23					

NOTE: Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective 1 : Choose any one from the following four papers:

16ECE22D1 - Electronic System Design
16ECE22D2 - Image Processing
16ECE22D3 - ADVANCED MATHEMATICS FOR ENGINEERS
16ECE22D4 - VLSI Design

Open Elective: A candidate has to select this paper from the pool of Open Electives provided by the University.

Foundation Elective: A candidate has to select this paper from the pool of Foundation Electives provided by the University.

M.DUNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 3rd
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total		
1	17ECE23C1	Neural Networks & Fuzzy Logics	4	0	-	4	50	100	-	150	3	4
2	17ECE23C2	CDMA	4	0	-	4	50	100	-	150	3	4
3	17ECE23C3	DISSERTATION (PHASE-I)	-	-	-	4	100	-	-	100		2
4	17ECE23C4	Seminar	-	-	-	2	50	-	-	50		2
5	17ECE23CL1	Project	-	-	2	2	50	-	50	100		2
6	17ECE23CL2	MATLAB Lab	-	-	2	2	50	-	50	100		2
7		OPEN ELECTIVE										3
		TOTAL										**21**

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.**
2. **Students have to publish a research paper in a journal / conference on the basis of literature survey done in the semester.**

OPEN ELECTIVE: A candidate has to select this paper from the pool of open electives provided by the University.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 4th
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
	17ECE24C1	Dissertation and viva	-	-	-	-	250	-	500	750	20
		TOTAL	-	-	-	-	**250**	-	**500**	**750**	
		GRAND TOTAL									

NOTE:

1. **Students have to publish a research paper in a journal / conference of the research work done in the semester.**

M. TECH. MECHANICAL ENGINEERING (MACHINE DESIGN)
COURSE SCHEME and DETAILED SYLLABUS

Semesterwise Course Scheme

FIRST SEMESTER

	Subject Code	Subject	Credit	L-T-P	Marks Weightage Theory	Sessional	Grand total
1.	M801A	Numerical Analysis and Optimization	3	3-0-0	100	50	
2.	M803A	Instrumentation and Measurement	3	3-0-0	100	50	
3.	M805A	Experimental Stress Analysis	3	3-0-0	100	50	
4.	M807A	Metal Forming Analysis	3	3-0-0	100	50	
5.	M809A	Mechatronics and Product Design	3	3-0-0	100	50	
					Ext.	**Int.**	
6.	M811A	Experimental Stress Analysis Lab	1	0-0-2	25	25	
7.	M813A	Mechanical Measurement Lab	1	0-0-2	25	25	
8.	M815A	Computational Lab	1	0-0-2	25	25	
		Total	**18**	**15-0-6**	**575**	**325**	**900**

SECOND SEMESTER

9.	M802A	Theory of Elasticity	3	3-0-0	100	50	
10.	M804A	Design of Mechanisms	3	3-0-0	100	50	
11.	M806A	Principles of Machine Design	3	3-0-0	100	50	
12.		General Elective – I	3	3-0-0	100	50	
13.		General Elective – II	3	3-0-0	100	50	
					Ext.	**Int.**	
14.	M812A	Seminar	1	0-0-2	25	25	
15.	M814A	CAD/CAM Lab	1	0-0-2	25	25	
16.	M816A	Design Practice Lab – I	1	0-0-2	25	25	
		Total	**18**	**15-0-6**	**575**	**325**	**900**

THIRD SEMESTER

17.	M821A	Mechanical Behavior of Materials	3	3-0-0	100	50	
18.	M823A	Mechanical Vibrations	3	3-0-0	100	50	
19.	M825A	General Elective III	3	3-0-0	100	50	
					Ext.	**Int.**	
20.	M827A	Design Practice Lab II	1	0-0-2	25	25	
21.	M829A	Materials Behavior and Vibration Lab	1	0-0-2	25	25	
22.	M831A	Minor Project	5	0-0-10	150	100	
		Total	**16**	**9-0-14**	**500**	**300**	**800**

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT ★ KABLANA
DIRECTOR

SEMESTER IV

Subject Code	Subject	Credit	L-T-P	Marks Weightage Ext.	Int.	
23. M822A	Dissertation	12	0-0-24	400	200	
	Total	**12**	**0-0-24**	**400**	**200**	**600**

ELECTIVES I

1. M837 Design of Bearings and Shaft
2. M838 Computer Aided Design
3. M839 Design of Pollution Control Equipments
4. M840 Design of Pressure Vessels

ELECTIVES II

1. M845 Fracture Mechanics
2. M846 Design and Metallurgy of Welded Joints
3. M847 Finite Element Methods
4. M848 Materials Management

ELECTIVE III

1. M849 Total Quality Management
2. M850 Robotic Engineering
3. M851 Computer Aided Vehicle Design
4. M852 Tribology

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-III

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	Practical	
1	MTEPS301	Elective – III	3	1	0	50	100	-	150
2	MTEPS302	Elective – IV	3	1	0	50	100	-	150
3	MTEPS303	Seminar			2	50	-	50	100
4	MTEPS304	Dissertation-Phase I	0	0	4	150	-	-	150
		Grand Total	6	2	6	300	200	50	550

NOTE:

1. The paper setter shall set each theory paper of 100 marks covering entire syllabus. However the examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A^+ , A,B,C,D & E. The examination of practical courses shall also be evaluated on the basis of these grades.
2. The sessionals of theory , practical and Seminar courses shall also be evaluated in the basis of these grades.
3. The choice of student for any elective shall not be binding on the department to offer it.
4. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-IV

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	E.VIVA	
1	MTEPS401	Dissertation Final Phase	0	0	20	200	-	400	600
		Total			20	200	-	400	600

NOTE:

1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e A^+, A,B,C,D & E.
2. The Dissertation shall be evaluated by an examination committee consisting of the head of the department, Dissertation Supervisor and one External examiner. The evaluation should be based on above grades.
3. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY (STRUCTURAL DESIGN)

SEMESTER-III

EFFECTIVE FROM 2012-13

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTSD 301	Design of Structures- III	4	-	-	50	100	150	3
MTSD 302	Professional Practices	4	-	-	50	100	150	3
	Elective-III	4	-	-	50	100	150	3
MTSD 303	Computational Laboratory-III	-	-	3	50	50	100	3
MTSD 304	Seminar & Technical Writing	-	-	2	50	-	50	
MTSD 305	Dissertation Phase-I	-	-	4	100	-	100	
TOTAL		12	-	9	350	350	700	

NOTE:

1. The paper setter shall set each theory paper of 100 marks covering entire syllabus. However the Examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A+, A, B, C, D & E. The examination of practical courses shall also be evaluated on the basis of these grades.
2. The sessionals of theory and practical courses shall also be evaluated in the basis of these grades.
3. The choice of student for any elective shall not be binding on the department to offer it.
4. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY (STRUCTURAL DESIGN)

SEMESTER-IV

EFFECTIVE FROM 2012-13

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTSD 401	Dissertation	-	-	24	200	400	600	3
TOTAL			-	24	200	400	600	

NOTE:

1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e A+,A,B,C,D & E.
2. The Dissertation shall be evaluated by an examination committee consisting of the head of the department, Dissertation Supervisor and one External examiner. The evaluation should be based on above grades.
3. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s)

List of Electives:

Elective- I

MTSD 107 - Composite Structures

MTSD 108 - Analysis and Design of Plates & Shells

MTSD 109 - Advanced Foundation Design and Geotechnics

MTSD 110 - Material Science

Elective- II

MTSD 207- Advanced Steel Design

MTSD 208 - Advanced Reinforced Concrete Design

MTSD 209- Earth Retaining Structures

MTSD 210- Construction Failures

Elective- III

MTSD 306- High Rise Structures

MTSD 307- Design of Hydraulic Systems

MTSD 308- Design Of Bridges

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 1
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours /week
			L	T	P	Total Credits	Marks of Class work	Theory	Practical	Total		
1	16MMA21C1	Metal Forming Analysis	4	0	-	4	50	100	-	150	3	4
2	16MMA21C2	Mechatronics & Product Design	4	0	-	4	50	100	-	150	3	4
3	16MMA21C3	Total Quality Management	4	0	-	4	50	100	-	150	3	4
4	16MMA21C4	Welding & Allied Processes	4	0	-	4	50	100	-	150	3	4
5	16MMA21CL1	Mechatronics Lab	-	-	2	2	50		50	100	3	4
6	16MMA21CL2	Welding Lab	-	-	2	2	50		50	100	3	4
7	16MMA21CL3	CAD/CAM Lab	-	-	2	2	50		50	100	3	4
8	16MMA21C5	Seminar	-		-	2	50	-	-	50		2
9	16MMA21D1 or 16MMA21D2 or 16MMA21D3 OR 16MMA21D4	Elective I	4	-		4	50	100		150	3	4
		TOTAL	28									

Elective I: Choose any one from the following three papers:
16MMA21D1 - INDUSTRIAL INSPECTION
16MMA21D2 - DESIGN AND METALLURGY OF WELDED
JOINTS 16MMA21D3 - FOUNDARY TECHNOLOGY
16MMA21D4-DESIGN PLANNING CONTORL AND PRODUCTION SYSTEM

NOTE:

Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 2
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours/ week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16MMA22C1	Mechanical Design-I	4	0	-	4	50	100	-	150	3	4
2	16MMA22C2	Diagnostic Maintenance & Monitoring	4	0	-	4	50	100	-	150	3	4
3	16MMA22C3	Seminar	-		-	2	50	-	-	50		2
4	16MMA22CL1	CIM Lab	-	-	2	2	50	-	50	100	3	4
5	16MMA22CL2	Diagnostic Maintenance & Monitoring Lab	-	-	2	2	50	-	50	100	3	4
6	16MMA22D1 or 16MMA22D2 or 16MMA22D3	Elective-II	4	0	-	4	50	100	-	150	3	4
7		Open Elective	3	0	-	3						
8		Foundation Elective	2	0	-	2						
	TOTAL					23						

NOTE: Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective II : Choose any one from the following three papers:

16MMA22D1 - QUALITY CONTROL TECHNIQUES

16MMA22D2 - FINITE ELEMENT METHODS

16MMA22D3 - ARTIFICIAL INTELLEGENCE IN MANUFACTURING

Open Elective: A candidate has to select this paper from the pool of Open Electives provided by the University.

Foundation Elective: A candidate has to select this paper from the pool of Foundation Electives provided by the University.

MCA Second Year

Semester-III

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
17MCA33C1	Computer Graphics	80	20	100	4:0:0
17MCA33C2	Operating Systems	80	20	100	4:0:0
17MCA33C3	Advance Database Systems	80	20	100	4:0:0
17MCA33C4	Data Communication and Computer Networks	80	20	100	4:0:0
17MCA33C5	Object Technology	80	20	100	4:0:0
17MCA33CL1	SoftwareLab-5 i) Graphics Programming Using C/C++. ii) UNIX /Shell Programming.	100*	----	100	0:0:3
17MCA33CL2	SoftwareLab-6 i) Java Programming ii)ADBMS (PL/SQL & MYSQL)	100*	----	100	0:0:3
					26 Credits

Semester-IV

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
17MCA34C1	Advanced Java Programming	80	20	100	4:0:0
17MCA34C2	Object Oriented Analysis and Design using UML	80	20	100	4:0:0
17MCA34DA1/ 17MCA34DA2/ 17MCA34DA3	i) Theory of Computation or ii) Software Engineering or iii) Multimedia and Its Applications	80	20	100	4:0:0
17MCA34DB1/ 17MCA34DB2/ 17MCA34DB3	i) Analysis and Design of Algorithms or ii) Computer Security or iii)Digital Image Processing	80	20	100	4:0:0
17MCA34C3	Artificial Intelligence and Expert System	80	20	100	4:0:0
17MCA34CL1	SoftwareLab-7 Advance Java Programming	100*	----	100	0:0:3
17MCA34CL2	Software Lab-8 i)Object Oriented Analysis and Design using UML ii) PROLOG	100*	----	100	0:0:3
17MCA34C4	Minor Project-I	-	100	100	0:2:0
	Total				28 Credits

Open Elective (O)	
To be Chosen from the pool of Open Electives provided by the University (excluding the open elective prepared by the Department of Comp Sc. & Appls.)	3

Total Credits= 31 Credits

*20 marks out of 100 will be based on the evaluation/assessment of the candidate in Test(s) and Assignment(s) during the semester, which will be forwarded by the Head of Dept./Director to the Examiner(s). Further, both practical exams of a semester may be conducted on the same day in 2 sittings each maximum of 3 hours.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

MCA Third Year

Semester-V

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
18MCA35C1	Advanced Technology	80	20	100	4:0:0
18MCA35C2	Soft Computing	80	20	100	4:0:0
18MCA35C3	Data Warehousing and Data Mining	80	20	100	4:0:0
18MCA35DA1/ 18MCA35DA2/ 18MCA35DA3	(i) Cloud Computing or (ii) Big Data Analytics or (iii) Software Testing and Quality Assurance	80	20	100	4:0:0
18MCA35DB1/ 18MCA35DB2/ 18MCA35DB3	(i) Internet of Things or (ii) Mobile Computing or (iii) Embedded Systems	80	20	100	4:0:0
18MCA35CL1	Software Lab-9 .NET Programming Using C#	100*	----	100	0:0:3
18MCA35CL2	Software Lab-10 Soft Computing	100*	----	100	0:0:3
18MCA35C6	Minor Project-II	-	100	100	0:2:0
	Total				**28 Credits**
Open Elective (O)					
To be Chosen from the pool of Open Electives provided by the University (excluding the open elective prepared by the Department of Comp Sc. & Appls.)					3

Total Credits= 31 Credits

* 20 marks out of 100 will be based on the evaluation/assessment of the candidate in Test(s) and Assignment(s) during the semester, which will be forwarded by the Head of Dept./Director to the Examiner(s). Further, both practical exams of a semester may be conducted on the same day in 2 sittings each maximum of 3 hours.

Semester-VI

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits
18MCA36C1	Major Project	400	100	500	20 Credits
	Grand Total of 3 Years/Credits				**162 Credits**

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

SECOND YEAR

Third Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN301	Cost and Management Accounting	80	20	-	100
BBAN302	Marketing Management	80	20	-	100
BBAN303	Capital Markets	80	20	-	100
BBAN304	Introduction to Information Technology	50	-	50	100
BBAN305	Environment Studies	80	20	-	100
BBAN306	Disaster Management	80	20	-	100
	TOTAL				600

Fourth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN401	Financial Management	80	20	-	100
BBAN402	Human Resource Management	80	20	-	100
BBAN403	Business Research Methods	80	20	-	100
BBAN404	Business Laws	80	20	-	100
BBAN405	Data Base Management System	50	-	50	100
BBAN406	Human Rights and Values	80	20	-	100
	TOTAL				600

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

THIRD YEAR

Fifth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN501	Production and Materials Management	80	20	-	100
BBAN502	Company Law	80	20	-	100
BBAN503	Indian Business Environment	80	20	-	100
BBAN504	Computer Networking & Internet	50	-	50	100
BBAN505	Presentation Skills and Personality Development	80	20	-	100
BBAN506	Cyber Security	80	20	-	100
BBAN507	Summer Training Report	100	-	-	100
	TOTAL				700

Sixth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN601	Income Tax	80	20	-	100
BBAN602	System Analysis & Design	80	20	-	100
BBAN603	Foundations of International Business	80	20	-	100
BBAN604	Consumer Protection	80	20	-	100
BBAN605	E-Commerce	50	-	50	100
BBAN606	Project Report	100	-	-	100
BBAN607	Comprehensive Viva-voce	100	-	-	100
	TOTAL				700

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT ★ HARYANA ★ DIRECTOR

CURRICULUM AND SCHEME OF EXAMINATIONS OF TWO YEAR MBA PROGRAMME

Second Year : 3rd Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA301	Strategic Management	80	20	-	100
MBA302	Management Information System	80	20	-	100
MBA303	Business Legislation	80	20	-	100
MBA304	Summer Training Report	100	-	-	100
Specialization Area I	Optional Paper - I				100
	Optional Paper - II				100
	Optional Paper - III				100
Specialization Area II	Optional Paper - I				100
	Optional Paper - II				100
	Optional Paper - III				100
	TOTAL				**1000**

Note:

1 Students are required to choose any three optional papers from each set of specialization areas offered under dual specialization scheme. The specialization area opted in 3rd Semester would remain same in 4th semester also.

2. The duration of the end term examination shall be 3 hours.

3. The following combinations of specializations shall be offered to the students of 2-Year MBA (General):
   a. Finance and Marketing
   b. Finance and Human Resource Management
   c. Human Resource Management and Marketing
   d. Finance and IT
   e. Finance and IB
   f. Marketing and IB
   g. Marketing and IT

CURRICULUM AND SCHEME OF EXAMINATIONS FOR TWO YEAR MBA PROGRAMME

Second Year: 4th Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA401	Entrepreneurship	80	20	-	100
MBA402	E-Commerce	50	-	50	100
MBA403	Project Report	100	-	-	100
MBA404	Comprehensive Viva-voce	100	-	-	100
Specialization Area I	Optional Paper – I				100
	Optional Paper – II				100
	Optional Paper – III				100
Specialization Area II	Optional Paper – I				100
	Optional Paper – II				100
	Optional Paper - III				100
	TOTAL				**1000**

Note:

1. Students are required to choose any three optional papers from each set of specialization areas offered under dual specialization scheme. The specialization area opted in 3rd Semester would remain same in 4th semester also.
2. The topic of the Project Report (Code MBA403) shall be finalized in 3rd semester by a Committee of the Faculty Members to be constituted by Director/Principal of the concerned Institute after presentation by the candidate before the Committee.
3. The duration of the end term examination shall be 3 hours.
4. The following combinations of specializations shall be offered to the students of 2-Year MBA (General):
   a. Finance and Marketing
   b. Finance and Human Resource Management
   c. Human Resource Management and Marketing
   d. Finance and IT
   e. Finance and IB
   f. Marketing and IB
   g. Marketing and IT

CURRICULUM AND SCHEME OF EXAMINATIONS FOR TWO YEAR MBA PROGRAMME

SPECIALISATIONS OFFERED IN 3RD AND 4TH SEMESTERS

HUMAN RESOURCE MANAGEMENT: Third Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA305	Performance Management	80	20	-	100
MBA307	Organisational Change and Development	80	20	-	100
MBA308	Compensation Management	80	20	-	100

Fourth Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA405	Talent Management	80	20	-	100
MBA406	Industrial Relations and Labour Legislations	80	20	-	100
MBA407	Strategic Human Resource Management	80	20	-	100

Note: The duration of the end term examination shall be 3 hours.

2018-19

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech 2nd YEAR CIVIL ENGINEERING,
3rd SEMESTER
Proposed 'F' Scheme w.e.f 2010

Subject Code	Subject Name	L	T	P	Total	Theory Marks	Class Marks	Practical Marks	Total Marks
MAT-201-F Or HUM-201-F	Mathematics-III Or Engineering Economics	3	1	0	4	100	50	0	150
HUM-203-F	Fundamental of Management	3	1	0	4	100	50	0	150
CE-201-F	Structural Analysis-I	3	1	0	4	100	50	0	150
CE-203-F	Building Construction Materials	3	1	0	4	100	50	0	150
CE-205-F	Fluid Mechanics-I	3	1	0	4	100	50	0	150
CE-207-F	Surveying-I	3	1	0	4	100	50	0	150
CE-209-F	Building Drawings	1	0	3	4	0	25	25	50
CE-211-F	Structural Analysis-I Lab	0	0	2	2	0	25	25	50
CE-213-F	Fluid Lab-I Lab	0	0	2	2	0	25	25	50
CE-215-F	Surveying-I Lab	0	0	2	2	0	50	50	100
	Total	19	7	9	35	600	425	125	1150

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS B.Tech
2nd YEAR CIVIL ENGINEERING,
4th SEMESTER
Proposed 'F' Scheme effective w.e.f 2010

Subject Code	Subject Name	L	T	P	Total	Theory Marks	Class Marks	Practical Marks	Total Marks
MAT-201- F Or HUM 201-F	Maths III Or Engg. Economics	3	1	0	4	100	50	-	150
CE-202-F	Structural Analysis-II	3	1	0	4	100	50	0	150
CE-204-F	Fluid Mechanics-II	3	1	0	4	100	50	0	150
CE-206-F	Design of Concrete Structures-I	3	1	0	4	100	50	0	150
CE-208-F	Surveying-II	3	1	0	4	100	50	0	150
CE-210-F	Construction and concrete technology	3	1	0	4	100	50	0	150
CE-212-F	Structural Analysis-II Lab	0	0	2	2	0	25	25	50
CE-214-F	Fluid mechanics Lab	0	0	2	2	0	25	25	50
CE-216-F	Surveying Lab	0	0	2	2	0	25	25	50
CE-218-F	Concrete Lab	0	0	2	2	0	25	25	50
GP-202-F	General Proficiency	-	-	2	2	50	-	-	50
Total		18	6	10	34	650	400	100	1150

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.

2.Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.

INSTITUTE OF TECHNOLOGY & ENGINEERING GANGA KABLANA DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR CIVIL ENGINEERING, SEMESTER- V
Proposed "F" Scheme effective from 2011-12

Subject Code	Subject Name	L	T	P	Total	Sessional Marks	Theory Marks	Sem Practical Marks	Total Marks
CE-301-F	Design of Steel Structure- I	3	1	-	4	50	100	0	150
CE-303-F	Transportation Engg.-I	3	1	0	4	50	100	0	150
CE-305-F	Water Supply-Treatment	3	1	0	4	50	100	0	150
CE-307-F	Soil Mechanics	3	1	0	4	50	100	0	150
CE-309-F	Numerical Methods And Computing Techniques	3	1	0	4	50	100	0	150
CE-311-F	Hydrology	3	1	0	4	50	100	0	150
CE-313 F	DSS-Drg.Lab	2	0	3	5	25	-	25	50
CE-315-F	Soil Mechanics Lab	0	0	2	2	25	0	25	50
CE-317 F	Transportation Lab-I	0	0	2	2	25	0	25	50
CE-319-F	Survey Camp	0	0	0	0	50	0	0	50
CE-321-F	Auto Cad Lab	0	0	2	2	25	0	25	50
	Total	20	6	9	35	450	600	100	1150

Note:

1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR CIVIL ENGINEERING, SEMESTER- VI
Proposed "F" Scheme effective from 2011-12

Subject Code	Subject Name	L	T	P	Total	Class Marks	Sem Theory Marks	Sem Practical Marks	Total Marks
CE-302-F	Design of Concrete Structures-II	4	2	0	6	50	100	0	150
CE-304-F	Irrigation Engineering-I	3	1	0	4	50	100	0	150
CE-306-F	Geotechnology	3	1	0	4	50	100	0	150
CE-308-F	Sewerage And Sewage Treatment	3	1	0	4	50	100	0	150
CE-310-F	Transportation Engg.-II	3	1	0	4	50	100	0	150
CE-312-F	Engineering Geology	3	1	0	4	50	100	0	150
CE-314-F	Geotechnology Lab	0	0	2	2	25	0	25	50
CE-316-F	Transportation Engg.-II Lab	0	0	2	2	25	0	25	50
CE-318-F	Engineering Geology Lab	0	0	2	2	25	0	25	50
CE-320-F	Environmental Engg. Lab	0	0	2	2	25	0	25	50
GPCE-318-F	General Proficiency	0	0	1	1	0	0	50	50
	Total	19	7	9	35	400	600	150	1150

NOTE:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B. Tech. 4th YEAR CIVIL ENGINEERING, SEMESTER- VII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

Subject Code	Subject Name	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
CE-401-F	Design of Steel Structure-II	3	1	-	4	50	100	-	150	3
CE-403-F	Disaster Mitigation and Management	3	1	-	4	50	100	-	150	4
CE-405-F	Estimating and Costing	3	1	-	4	50	100	-	150	3
CE-407-F	Irrigation Engg-II	3	1	-	4	50	100	-	150	3
----------	Elective	3	1	-	4	50	100	-	150	3
CE-451-F	Hydro Power Engg.	3	1	-	4	50	100	-	150	3
CE-453-F	Ground Water Engg	3	1	0	4	50	100	0	150	3
CE-455-F	Irrigation Drawing Lab	0	0	2	2	50	0	50	100	3
CE-457-F	Practical Training - II	-	-	2	-	-	-	-	-	-
GFCE-459-F	General Fitness for the Profession	-	-	-	-	-	-	50	50	3
	Total	21	7	4	32	400	700	100	1200	

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. **Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

ELECTIVES

1) CE -409 -F - Energy planning and management
2) CE -411-F - Environmental pollution and control
3) CE -417- F - Finite Element Methods
4) CE- 421 -F - Environmental impact and management
5) CE- 423- F - Elements of Earth Quake Engg.
6) CE- 433 -F - Hydraulic System Modeling

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech. 4th YEAR CIVIL ENGINEERING, SEMESTER- VIII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

		Subject	Internal Marks	External Marks	Total Marks
1.	CE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training in State/Central PWD, Railways and other Originations or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

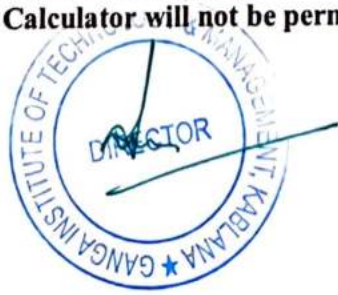
Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.TECH. II YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER III
'F' Scheme effective from 2010-11

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
1	MATH-201-F OR HUM-201-F	Mathematics III Common to (CSE,IT,ME,ECE,BME,EE,EEE,E&I,I&C) OR ENGG. ECONOMICS	3	2	-	5	50	100	-	150	3
2	CSE-201 F	Data Structures Using C (CSE,ECE,IT,EI)	3	1	-	4	50	100	-	150	3
3	CSE-203 F	Discrete Structures (CSE,IT)	3	1	-	4	50	100	-	150	3
4	EE-217 -F	Digital & Analog Communication (CSE,IT)	3	1	-	4	50	100	-	150	3
5	EE-204-F	Digital Electronics (Common with 4th Sem. – EE,EL,EI & IC)	3	1	-	4	50	100	-	150	3
6	HUM-203 F	Fundamental of Management (Common for all branches)	3	1	-	4	50	100	-	150	3
7	IT-201-F	PC Lab (CSE,IT)	-	-	3	3	50	-	50	100	3
8	CSE-205-F	Data Structures Using C Lab (CSE,ECE,IT,EI)	-	-	2	2	25	-	25	50	3
9	EE-224-F	Digital Electronics Lab (CSE,IT & Common with 4th Sem. – EE,EL,EI & IC)	-	-	3	3	50	-	50	100	3
		TOTAL	**18**	**7**	**8**	**33**	**425**	**600**	**125**	**1150**	

NOTE: 1.Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.

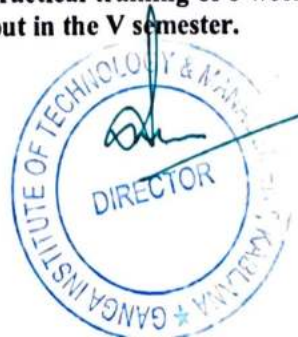


M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.TECH. II YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER - IV
'F' Scheme effective from 2010-11

Sl. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-202 F	Data Base Management Systems (CSE,IT)	3	1	-	4	50	100	-	150	3
2	CSE-204 F	Programming Languages	3	1	-	4	50	100	-	150	3
3	MATH-201-F OR HUM-201-F	Mathematics III Common to (CSE,IT,ME,ECE,BME,EE,EEE,E&I,I&C) OR ENGG. ECONOMICS	3	2	-	5	50	100	-	150	3
4	IT-202-F	Object-Oriented Programming using C++ (CSE,IT)	3	1	-	4	50	100	-	150	3
5	CSE-208 F	Internet Fundamentals (CSE,IT)	3	1	-	4	50	100	-	150	3
6	CSE-210 F	Computer Architecture and Organization (CSE,IT and Common with 5th Sem. EL,EI,IC)	3	1	-	4	50	100	-	150	3
7	CSE-212 F	Data Base Management Systems Lab. (CSE,IT)	-	-	3	3	50	-	50	100	3
8	IT-206-F	C++ Programming Lab. (CSE,IT)	-	-	2	2	25	-	25	50	3
9	CSE-214 F	Internet Lab. (CSE,IT)	-	-	2	2	25	-	25	50	3
10	GP-202 F	General Proficiency	-	-	2	2	50	-	-	50	
		TOTAL	**18**	**6**	**9**	**34**	**450**	**600**	**100**	**1150**	

Note:

1) **Students will be allowed to use non-programmable scientific calculator. However, sharing of**
2) **Calculator will not be permitted in the examination.**
3) **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.**



M. D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
Bachelor of Technology (Computer Science & Engineering)
Semester - V
'F' Scheme Effective from 2010-11

S. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-301 F	Principles of Operating System (CSE,IT)	3	1	-	4	50	100	-	150	3
2	EE-309-F	Microprocessors and Interfacing (EL,CSE,IT,EI, IC, EEE, AEI)	3	1	-	4	50	100	-	150	3
3	CSE-303-F	Computer Graphics (CSE,IT)	3	1	-	4	50	100	-	150	3
4	CSE-305-F	Theory of Automata Computation	3	1		4	50	100	-	150	3
5	CSE 307-F	Web Development (Common with IT – VI Sem)	3	1	-	4	50	100	-	150	3
6	IT-204-F	Multimedia Technologies (Common with IT- IV-Sem)	3	-	-	3	50	100	-	150	3
7	CSE-309-F	Computer Graphics Lab. (CSE,IT)	-	-	3	3	25	-	25	50	3
8	CSE-311-F	Web Development & Core JAVA Lab. (Common with 6th Sem.-IT)	-	-	2	2	25	-	25	50	3
9	IT-208-F	Multimedia Tech. Lab (Common with IT–IVSem)	-	-	2	2	25	-	25	50	3
10	EE-329-F	Microprocessors and Interfacing Lab. (EL,CSE,IT,EI, IC, EEE, AEI)	-	-	2	2	25	-	25	50	3
11.	CSE-313-F	O.S. Lab. (CSE, IT)	-	-	2	2	25	-	25	50	-
12	CSE-315-F	Practical Training-I	-	-	2	2	-	-	-	-	-
		TOTAL	18	5	13	36	425	600	125	1150	

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2. Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded „F" grade is required to repeat Practical Training.

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
Bachelor of Technology (Computer Science & Engineering)
Semester - VI
'F' Scheme Effective from 2010-11

S. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Marks of Class work	Total	Theory	Practical	Total	
1	CSE-302 F	Principles of Software Engineering (CSE,IT)	3	1	-	4	50	100	-	150	3
2	CSE-304 F	Intelligent Systems (CSE,IT)	3	1	-	4	50	100	-	150	3
3	IT-305 F	Computer Networks (CSE, EL & Common with 5 Sem. – IT, AEI)	3	1	-	4	50	100	-	150	3
4	IT-303 F	Systems Programming & System Administration (Common with 5 Sem. – IT)	3	1		4	50	100	-	150	3
5	CSE-306 F	Analysis & Design of Algorithms	3	1	-	4	50	100	-	150	3
6	EE-310-F	Digital System Design (EL,EE,CSE,EI, IC, AEI)	3	1	-	4	50	100	-	150	3
7	CSE-308 F	Intelligent Systems Lab. (CSE,IT)	-	-	3	3	25	-	25	50	3
8	EE-330-F	Digital System Design Lab. (EL,EI, IC,CSE, AEI)	-	-	3	3	25	-	25	50	3
9	CSE-310-F	Computer Network lab	-	-	2	2	25	-	25	50	3
	CSE-312-F	Visual Programming Lab.	-	-	2	2	25	-	25	50	3
9	GP-302-F	General Proficiency	-	-	-	-	50	-	-	50	3
		TOTAL	**18**	**6**	**10**	**34**	**450**	**600**	**100**	**1150**	-

Note:

1. Each student has to undergone practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.
2. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D.UNIVERSITY, ROHTAK
Scheme of Studies / Examination
Bachelor of Technology (Computer Science & Engineering)
SEMESTER VII
'F' Scheme Effective from 2012-13

Sl. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-401 F	Advanced Computer Architecture	3	1	-	4	50	100	-	150	3
2	CSE-403 F	Software Project Management (CSE,IT)	3	1	-	4	50	100	-	150	3
3	CSE-405 F	Compiler Design	3	1	-	4	50	100	-	150	3
4	CSE-407 F	Neural Networks	3	1	-	4	50	100	-	150	3
5	CSE-409 F	Advanced Java (CSE, IT)	3	1	-	4	50	100	-	150	3
6		Elective	3	1	-	4	50	100	-	150	3
7	CSE-411 F	Compiler Design Lab	-	-	2	2	25	-	50	75	3
8	CSE-413 F	Neural Networks Using MATLAB	-	-	2	2	25	-	50	75	3
9	CSE-415 F	Advanced JAVA Lab (CSE, IT)	-	-	3	3	50	--	100	150	3
10	CSE-417 F	PRATICAL TRAINING-II	-	-	-	-	-	-	-	-	-
		TOTAL	**18**	**6**	**7**	31	400	600	200	1200	

List of Electives

1.	CSE-423 F	Distributed Operating System
2.	IT-465F	Network Security & Management
3.	CSE-421 F	Real Time Systems
4.	CSE-435 F	Advanced Database Management Systems
5.	IT-467 F	Computer Software Testing
6.	IT-473 F	High Speed Networks

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. **Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva- voce and project report of the student. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech. 4th YEAR COMPUTER SC & ENGINEERING, SEMESTER- VIII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

		Subject	Internal Marks	External Marks	Total Marks
1.	CSE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ GANGA
DIRECTOR

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.Tech II YEAR (ELECTRICAL ENGINEERING)
SEMESTER III
'F' Scheme effective from 2010-11

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
HUM-203-F	FUNDAMENTALS OF MANAGEMENT (COMMON FOR ALL BRANCHES)	3	1	-	4	50	100	-	150	3
EE-201-F	ELECTRONIC DEVICES & CIRCUITS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-203-F	NETWORK THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-207-F	ELECTRICAL MACHINES-I (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-209-F	ELECTRICAL MEASUREMENTS & MEASURING INSTRUMENTS (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-223-F	NETWORK THEORY LAB. (ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-211-F	ELECTRICAL MEASUREMENTS & MEASURING INSTRUMENTS LAB. (EE, EEE)	-	-	2	2	25	-	25	50	3
EE-213-F	ELECTRICAL WORKSHOP (IC,EE, EEE)	-	-	2	2	25	-	25	50	3
EE-215-F	ELECTRICAL MACHINES-I LAB. (EE, EEE)	-	-	3	3	50	-	50	100	3
	TOTAL	**18**	**6 Or 7**	**9**	**33 Or 34**	**425**	**600**	**125**	**1150**	

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.**

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.Tech II YEAR (ELECTRICAL ENGINEERING)
SEMESTER – IV
'F' Scheme effective from 2010-11

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
EE-212-F	TRANSMISSION AND DISTRIBUTION (EE,EEE)	3	-	-	3	50	100	-	150	3
EE-202-F	ANALOG ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-204-F	DIGITAL ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-220-F	PRINCIPLES OF COMMUNICATION SYSTEMS (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-208-F	ELECTRO MAGNETIC THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-222-E	ANALOG ELECTRONICS LAB (ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-224-F	DIGITAL ELECTRONICS LAB (ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-230-F	PRINCIPLES OF COMMUNICATION SYSTEMS LAB (EE, EEE)	-	-	2	2	25	-	25	50	3
MATH-204-F	NUMERICAL METHODS LAB (ECE,EI,EE,EEE,IC)	1	1	2	4	25	-	25	50	3
GP-202-F	GENERAL PROFICIENCY (COMMON FOR ALL BRANCHES)	-	-	2	2	50	-	-	50	3
	TOTAL	**19**	**6 or 7**	**10**	**35 Or 36**	**450**	**600**	**100**	**1150**	

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.**
2. **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination

Bachelor of Technology (Electrical Engg.)

SEMESTER V

'F ' Scheme Effective from 2011–2012

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-311-F	Electrical Machines-II (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-303-F	Electronic Measurement And Instrumentation (EE,EEE,ECE,IC)	3	1	-	4	50	100	-	150	3
EE-305-F	Analog Electronics Circuits (EE,EEE,ECE,IC)	3	1	-	4	50	100	-	150	3
EE-315-F	Power Systems-I (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-317-F	Power Electronics (EE, EEE, Common with VI sem IC)	3	1	-	4	50	100	-	150	3
EE-309-F	Microprocessors And Interfacing (EE,EEE,ECE)	3	1	-	4	50	100	-	150	3
EE-323-F	Electronic Measurement & Instrumentation Lab (EE,EEE,ECE,IC)	-	-	2	2	25	-	25	50	3
EE-321-F	Power Electronics Lab. (EE, EEE Common with VI sem , IC)	-	-	2	2	25	-	25	50	3
EE-319-F	Microprocessor & Interfacing Lab. (EE,EEE)	-	-	2	2	25	-	25	50	3
EE-327-F	Electrical Machines-II LAB. (EE, EEE)	-	-	3	3	25	-	25	50	3
EE-333-F	Practical Training-I	-	-	2	2		-	-		-
	TOTAL	**18**	**6**	**11**	**35**	**400**	**600**	**100**	**1100**	

Note:

1) **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2) **Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D UNIVERSITY,ROHTAK
SCHEME OF STUDIES AND EXAMINATION
B.Tech. III YEAR (ELECTRICAL ENGINEERING)
SEMESTER - VI
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-312-F	Power Systems –II (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-314-F	Computer Added Electric Machines Design (EE, EEE)	3	1	-	4	50	10 0	-	150	3
EE-308-F	Micro-Controller And Embeded System(EE,ECE)	3	1	-	4	50	100	-	150	3
EE-304-F	Control systems engg. (EE, EEE,ECE)	3	1	-	4	50	100	-	150	3
EE-318-F	Electric Power Generation (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-310-F	Digital System Design (IC,EE,ECE,)	3	1	-	4	50	100	-	150	3
EE-324-F	Control system engg. Lab (EE, EEE,ECE)	-	-	2	2	25	-	25	50	3
EE-320-F	Micro-Controller And Embeded System LAB (EE,ECE)	-	-	2	2	25	-	25	50	3
EE-326-F	Computer Added Electric Machines Design Lab (EE, EEE)	-	-	2	2	25	-	25	50	3
EE-328-F	Power Systems Lab (EE, EEE)	-	-	2	2	25	-	25	50	3
GPEE-302-F	GENERAL PROFICIENCY	-	-	-	-	50	-	-	50	3
	TOTAL	**18**	**6**	**8**	**32**	**450**	**600**	**100**	**1150**	

Note:

1. **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.**
2. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electrical Engg.)

SEMESTER VII

F ' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-403-F	Electric Drives And Control	3	1	-	4	50	100	-	150	3
ECE-409-F	Digital Signal Processing	3	1	-	4	50	100	-	150	3
EE-405-F	Power System Operation And Control	3	1	-	4	50	100	-	150	3
	*Open Elective	3	1	-	4	50	100	-	150	3
	*Dept Elective	3	1	-	4	50	100	-	150	3
EE-409-F	Computer Applications To Power System Analysis	3	1	-	4	50	100	-	150	3
EE-413-F	Electric Drives And Control Lab.			3	3	50	-	50	100	3
ECE-429-F	Digital Signal Processing Lab	-	-	2	2	25	-	25	50	3
EE-419-F	Computer Applications To Power System Analysis Lab.	-	-	3	3	50	-	50	100	3
GFEE-401-F	General Fitness For The Profession	-	-	-	-		-	50	50	3
EE-401-F	Practical Training – II	-	-	-	-	-	-		-	-
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**175**	**1200**	

List of Open Electives

1.	HUM-451-F	Language Skills for Engineers
2.	HUM-453-F	Human Resource Management
3.	HUM-459-F	Renewable Energy Resources and Technology
4.	ME-451-F	Mechatronics Systems
5.	IC-455-F	Intelligent Instrumentation for Engineers
6.	OR-401-F	Operations Research

List of Dept Electives

1. EHV AC/DC (EE-432-F)
2. Fuzzy Logic Control (IC-404-F)
3. Recent Trends in De-regulated Power Systems (EE-438-F)
4. High Voltage Engineering (EE-442-F)
5. Electrical Power Quality (EE-444-F)
6. Power Management (EE-450-F)

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAHLANA ★ DIRECTOR

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. ***Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.**
4. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student from the industry. According to performance, letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination

B. Tech. (Electrical Engg.)

SEMESTER VIII

F ' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Sr. No	Course No	Subject	Internal Marks	External Marks	Total Marks
1.	EE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
B.Tech II YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER III
'F' Scheme effective from 2010-11

Sr No	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
HUM-203-F	FUNDAMENTALS OF MANAGEMENT (COMMON FOR ALL BRANCHES)	3	1	-	4	50	100	-	150	3
EE-201-F	ELECTRONICS DEVICES & CIRCUITS(ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-203-F	NETWORK THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-205-F	ELECTROMECHANICAL ENERGY CONVERSION(ECE,EI,IC)	3	1	-	4	50	100	-	150	3
CSE-201-F	DATA STRUCTURE USING ' C' (ECE,EI,CSE,IT)	3	1	-	4	50	100	-	150	3
EE-221-F	ELECTRONIC WORKSHOP, PCB DESIGN & CIRCUIT LAB(ECE,EI)	-	-	2	2	25	-	25	50	3
EE-223-F	NETWORK THEORY LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-225-F	ELETRICAL WORKSHOP & MACHINE LAB (ECE,EI)	-	-	3	3	50	-	50	100	3
CSE-205-F	DATA STRUCTURE USING 'C' Lab (ECE,EI,CSE,IT)		-	2	2	25	-	25	50	3
	TOTAL	**18**	**7**	**9**	**33 Or 34**	**425**	**600**	**125**	**1150**	

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, Sharing of Calculator and other material will not be permitted in the examination.**

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
BE. II YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER – IV
'F' Scheme effective from 2010-11

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
HUM-201-F OR MATH-201-F	ENGG. ECONOMICS OR MATHEMATICS - III	3 3	1 2	- -	4 5	50	100	-	150	3
EE-228-F	SIGNALS & SYSTEMS(ECE,EI)	3	-	-	3	50	100	-	150	3
EE-202-F	ANALOG ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-204-F	DIGITAL ELECTRONICS (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-206-F	COMMUNICATION SYSTEMS(ECE)	3	1	-	4	50	100	-	150	3
EE-208-F	ELECTRO MAGNETIC THEORY (ECE,EI,EE,EEE,IC)	3	1	-	4	50	100	-	150	3
EE-222-F	ANALOG ELECTRONICS LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-224-F	DIGITAL ELECTRONICS LAB(ECE,EI,EE,EEE,IC)	-	-	2	2	25	-	25	50	3
EE-226-F	COMMUNICATION SYSTEMS LAB (ECE)	-	-	2	2	25	-	25	50	3
MATH-204 –F	NUMERICAL METHODS OF COMPUTATIONAL PROGRAMMING LAB(ECE,EI,EE,EEE,IC)	1	1	2	4	25	-	25	50	3
GP-202-F	GENERAL PROFICIENCY (COMMON FOR ALL BRANCHES)	-	-	2	2	50	-	-	50	3
	TOTAL	**19**	**6 Or 7**	**10**	**35 Or 36**	**450**	**600**	**100**	**1150**	

Note:
1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.
2.Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the V semester.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
BTech. III YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER V
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-301-F	COMMUNICATION Engg.	3	1	-	4	50	100	-	150	3
EE-303-F	ELECTRONIC MEASUREMENT & INSTRUMENTATION (EL,EI,IC,EE,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-305-F	ANALOG ELECTRONIC CIRCUITS (EL,EI,IC,EE,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-307-F	ANTENNAS,WAVE PROPAGATION& TV Engg.	3	1	-	4	50	100	-	150	3
CSE-210-F	COMPUTER ARCHITECTURE AND ORGANISATION (EL,EI,IC,Common with IV sem. CSE,IT)	3	1	-	4	50	100	-	150	3
EE-309-F	MICROPROCESSORS AND INTERFACING (EL,EI,IC,CSE,IT,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-323-F	ELECTRONIC MEASUREMENT & INSTRUMENTATION LAB (EL,EI,IC,EE)	-	-	2	2	25	-	25	50	3
EE-325-F	ANALOG ELECTRONIC CIRCUITS LAB (EL,EI,IC)	-	-	2	2	25	-	25	50	3
EE-329-F	MICROPROCESSORS AND INTERFACING LAB (EL,EI,IC,CSE,IT,EEE,AEI)	-	-	2	2	25	-	25	50	3
EE-335-F	PRACTICAL TRAINING		-	2	2		-			
GPECE301-F	GERNERAL PROFICIENCY					50			50	3
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**75**	**1100**	

Note:

1) **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2) **Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D UNIVERSITY,ROHTAK
SCHEME OF STUDIES AND EXAMINATION
B.Tech. III YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER - VI
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-302-F	MICROWAVE AND RADAR ENGINEERING	3	1	-	4	50	100	-	150	3
EE-304--F	CONTROL SYTEMS ENGG. (EL,EE, EEE)	3	1	-	4	50	100	-	150	3
EE-306-F	VLSI Design	3	1	-	4	50	100	-	150	3
IT-305-F	COMPUTER NETWORKS	3	1	-	4	50	100	-	150	3
EE-310-F	DIGITAL SYSTEM DESIGN (EL,EI, IC,EE,CSE, AEI)	3	1	-	4	50	100	-	150	3
EE-308-F	MICROCONTROLLER & EMBEDDED SYSTEM	3	1	-	4	50	100	-	150	3
EE-328-F	MICROCONTROLLER & EMBEDDED SYSTEM LAB	-	-	2	2	25	-	25	50	3
EE-326-F	DIGITAL SYSTEM DESIGN LAB (EL,EI, IC,EE,CSE, AEI)	-	-	2	2	25	-	25	50	3
EE-322-F	MICROWAVE AND RADAR LAB	-	-	2	2	25	-	25	50	3
EE-324-F	CONTROL SYTEMS ENGG. LAB (EL,EE, EEE,AEI)		-	2	2	25	-	25	50	3
	TOTAL	**18**	**6**	**8**	**32**	**400**	**600**	**100**	**1100**	

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.**
2. **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electronics and Communication Engg.)

SEMESTER VII

F ' Scheme Effective from 2012–2013

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ECE-405-F	WIRELESS COMMUNICATION	3	1	-	4	50	100	-	150	3
ECE-403-F	SATELITE COMMUNICATION ENGINEERING	3	1	-	4	50	100	-	150	3
ECE-407-F	DATA COMMUNICATION	3	1	-	4	50	100	-	150	3
ECE-415-F	OPTICAL COMMUNICATION SYSTEMS	3	1	-	4	50	100	-	150	3
	*Dept Elective-I	3	1	-	4	50	100	-	150	3
ECE-409-F	Digital Signal Processing	3	1	-	4	50	100	-	150	3
ECE-423-F	Wireless & Satellite Communication Lab			3	3	50	-	50	100	3
ECE-427-F	Digital Signal Processing Lab	-	-	2	2	25	-	25	50	3
ECE-429-F	Data Communication Lab	-	-	3	3	50	-	50	100	3
GFEE-401-F	General Fitness For The Profession	-	-	-	-		-	50	50	3
ECE-404-F	Practical Training II									
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**175**	**1200**	

List of Dept Electives-I

ECE-419-F	Mobile Communication
ECE-461-F	Genetic Algorithms & Applications
ECE-453-F	Radar and Sonar Engg.
ECE-411-F	Wireless Sensor Network
ECE-413-F	Fuzzy Control System

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. ***Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.**

NOTE:-

1. Assessment of Practical Training-II, (ECE-404F) carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student from the industry. According to performance letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electronics and Communication Engg.)

SEMESTER VIII

F ' Scheme Effective from 2012–2013

Training of Six Months

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ECE-402-F	Industrial Training /Institutional Project work	-	-	8	8	150	-	150	300	-
	Total			8	8					

Note:

1. **The students are required to undergo Industrial Training or Institutional Project work of duration not less than 4 months in a reputed organization or concerned institute. The student who wish to undergo industrial training, the industry chosen for should be a private limited company.**
2. **The final Viva-voca of the industrial training or Institutional Project work will be conducted by the external examiner and one internal examiner appointed by the institute. External examiner will be from penal of examiner.**
   Assessment of traing or project will be based on Seminar, viva-voca, report and certificate of Industrial Training or Institutional project work.
3. **The internal marks distribution for students who have undergone Industrial training consist of 50 marks from the Industry concern and 100 Marks by the committee members consisting of faculty members of concerned department of the present institute.**
4. **The teacher engaged for institutional project work shall have a workload of 2 hours per group (at least 4 students per work)**

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATIONS
B.Tech 2nd YEAR (FIRE TECHNOLOGY AND SAFETY)
3rd SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching Schedule				Marks for class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT 201F OR HUM 201 F	Mathematics-III or Engineering Economics	3 or 3	2 or	- -	5 or 4	50 50	100	-	150	3
HUM 203F	Fundamentals of Management	3	1	-	4	50	100	-	150	3
FT 201 F	Town Planning and Safety in Construction Industry	3	1	-	4	50	100	-	150	3
FT 203 F	Fire Engineering	3	1	-	4	50	100	-	150	3
FT 205 F	First Aid and Emergency Procedures	3	1	4	4	50	100	-	150	3
FT 207 F	Heavy Vehicle Automobile Engineering and Safety	3	1	-	4	50	100	-	150	3
FT 209 F	Machine Drawing and Design	1	-	3	4	50	-	50	100	3
FT 211 F	Heavy Vehicle Automobile Engineering and Safety Lab	-	-	2	2	25	-	25	50	3
FT 213 F	Fire Protection Workshop	-	-	2	2	25	-	25	50	3
FT 215 F	Fire Fighting and Field Training - I	-	-	2	2	25	-	25	50	3
	Total	**19**	**6/7**	**9**	**34/35**	**425**	**600**	**125**	**1150**	

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS

B.Tech. 2nd YEAR (FIRE TECHNOLOGY AND SAFETY)

4th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching Schedule				Marks for class	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT 201F or HUM 201 F	Mathematics-III or Engineering Economics	3 or 3	2 or 1	-	5 or 4	50	100	-	150	3
FT 202F	Safety Engineering and Management	3	1	-	4	50	100	-	150	3
FT 204 F	Energy Environment Ethics and Society	3	1	-	4	50	100	-	150	3
FT 206 F	Strength of Material	3	1	-	4	50	100	-	150	3
FT 208 F	Electrical Fire Safety	3	1	-	4	50	100	-	150	3
FT 210 F	Pumping Machinery and Fluid Mechanics	3	1	-	4	50	100	-	150	3
FT 212 F	Strength of Material Lab	-	-	2	2	25	-	25	50	3
FT 214 F	Electrical Fire Safety Lab	-	-	2	2	25	-	25	50	3
FT 216 F	Pumping Machinery and Fluid Mechanics	-	-	2	2	25	-	25	50	3
FT 218 F	Fire Fighting and Field Training - II	-	-	2	2	25	-	25	50	3
GP 202 F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	**18**	**6/7**	**9**	**34/35**	**450**	**600**	**100**	**1150**	

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS

B.Tech 3rd YEAR (FIRE TECHNOLOGY AND SAFETY)

5th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 301F	Rescue Equipments and Techniques	3	1	-	4	50	100	-	150	3
FT 303 F	Building Design and Drawing	3	1	-	4	50	100	-	150	3
FT 305 F	Salvage Evaluation of Fire Situation	3	1	-	4	50	100	-	150	3
FT 307 F	Environmental Engineering and Management	3	1	-	4	50	100	-	150	3
FT 309 F	Fire Prevention and Protection Measures	3	1	-	4	50	100	-	150	3
FT 311 F	Nuclear Safety and Radioactive Materials	3	1	-	4	50	100	-	150	3
FT 313 F	Environmental Engineering Lab	-	-	2	2	25	-	25	50	3
FT 315 F	Field Training in Fire Rescue	-	-	2	2	25	-	25	50	3
FT 317 F	AutoCAD and Fire Software Lab	-	-	2	2	25	-	25	50	3
FT 319F	Engineering Workshop Practice	-	-	2	2	25	-	25	50	3
	Total	18	6	8	32	400	600	100	1100	

Note:-

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

2. Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS

B.Tech 3rd YEAR (FIRE TECHNOLOGY AND SAFETY)

6th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 302F	Legal Aspect of Safety, Health and Environment	3	1	-	4	50	100	-	150	3
FT 304F	Fire Safety Codes and Standardization	3	1	-	4	50	100	-	150	3
FT 306F	Fire Fighting & Safety Equipments	3	1	-	4	50	100	-	150	3
FT 308F	Identification and Risk Assesmant	3	1	-	4	50	100	-	150	3
FT 310F	Applied Numerical Technique and Computing	3	1	-	4	50	100	-	150	3
FT 312F	Heat Transfer, Combustion and Explosives	3	1	-	4	50	100	-	150	3
FT 314F	Field Training Rescue (Chemical Hazards)	-	-	2	2	25	-	25	50	3
FT 316F	Applied Numerical Technique and Computing Lab	-	-	2	2	25	-	25	50	3
FT 318F	Heat Transfer, Combustion and Explosives Lab	-	-	2	2	25	-	25	50	3
FT 320 F	Industrial Hygiene Lab	-	-	2	2	25	-	25	50	3
FT 322F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	18	6	10	34	450	600	100	1150	

Note:-

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech 4th YEAR FIRE TECHNOLOGY & SAFETY,

7th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 401 F	Safety and Risk Management	3	1	-	4	50	100	-	150	3
FT 403 F	Industrial Engineering	3	1	-	4	50	100	-	150	3
FT 405 F	Operational Research	3	1	-	4	50	100	-	150	3
FT 407 F	Disaster Management	3	1	-	4	50	100	-	150	3
FT 409 F	Fire Fighting Installation and Automation	3	1	-	4	50	100	-	150	3
--------	Dept. Elective	3	1	-	4	50	100	-	150	3
FT 411 F	Fire Fighting Installation and Automation Lab	-	-	2	2	50	-	50	100	3
FT 413 F	Squad Drill	-	-	2	2	50	-	50	100	3
	Total	18	6	4	28	400	600	100	1100	-

Dept. Elective:

1. FT 417 F Process Instrumentation and Control Engineering
2. FT 419 F Automobile Engineering and Safety.
3. FT 421 F Advanced Safety Engineering and Management.
4. FT 423 F Environmental Protection and Waste Management.
5. FT 425 F Human Factor Engineering.
6. FT 427 F Simulation and Process Modeling
7. FT 429 F Total Quality management
8. FT 431 F Safety in Health Care waste Management
9. FT 433 F Safety in Construction

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech 4th YEAR FIRE TECHNOLOGY & SAFETY, 8th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Sl. No.	Course No.	Subject	Internal Marks	External Marks	Total Marks
1.	FT- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engineering and Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-101F	Essentials of Communication	3	1	0	4	50	100	-	150	3
C	MATH-101F	Mathematics-I	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-I	3	1	0	4	50	100	-	150	3
A	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
B	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
A	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
B	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
A	ME-101F	Basics of Mechanical Engineering	3	0	0	3	50	100	-	150	3
		OR									
B	ME-103F	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-103F	Physics Lab-I	0	0	2	2	25	-	25	50	3
A	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
B	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
A	ECE-103F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
B	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
A	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
B	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
A	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		22/19	4/5	9/11	400/425	600/500	100/200		1100/1125	

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES, SYLLABUS & EXAMINATIONS
B.Tech. Ist Year-2013-14
SEMESTER-I (Common For All Branches)

Course Notation	Course No.	Course Title	Teaching Schedule L	T	P	Marks Total	of class	Exam. Schedule Theory	Practical	Total Marks	Durati
C	HUM-102F	Communication Skills in English	3	1	0	4	50	100	-	150	3
		OR									
C	BTT- 102 F	Basics of Biotechnology	3	1	0	4	50	100	-	150	3
C	MATH-102F	Mathematics-II	4	1	0	5	50	100	-	150	3
C	PHY-101F	Physics-II	3	1	0	4	50	100	-	150	3
B	ECE-101F	Basics of Electronics	3	0	0	3	50	100	-	150	3
		OR									
A	CH-101F	Engineering Chemistry	3	1	0	4	50	100	-	150	3
B	CSE-101F	Fundamentals of Computer & Programming in C	3	1	0	4	50	100	-	150	3
		OR									
A	EE-101F	Electrical Technology	3	1	0	4	50	100	-	150	3
B	ME-101F	Basics of Mechanical Engineering	4	0	0	4	50	100	-	150	3
		OR									
A	ME-103	Engg. Graphics & Drawing	1	0	3	4	50	-	100	150	4
C	PHY-104F	Physics Lab-II	0	0	2	2	25	-	25	50	3
B	ECE-103 F	Basics of Electronics Lab	0	0	2	2	25	-	25	50	3
		OR									
A	CH-103F	Engineering Chemistry Lab	0	0	2	2	25	-	25	50	3
B	CSE-103 F	FCPC Lab	0	0	2	2	25	-	25	50	3
		OR									
A	EE-103F	Electrical Technology Lab	0	0	2	2	25	-	25	50	3
C	GP-102F	General Proficiency	-	-	-	-	50	-	-	50	
B	ME-107F	Basics of Mech. Engg. Lab	0	0	2	2	25	-	25	50	3
		OR									
A	ME-105 F	Workshop Technology	2	0	2	4	50	-	25	75	3
B	GES 106F	Environmental Studies	3	0	1	4	-	-	-	-	-
	Total		19/23	4/5	9/11	400/425	600/500	100/200		1100/1125	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAITHAL ★ DIRECTOR

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech 2nd YEAR MECHANICAL ENGINEERING,
3rd SEMESTER
Proposed 'F' Scheme w.e.f 2010-11

Course	Course Title	Teaching Schedule				Marks for class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT-201-F or HUM-201-F	Mathematics-III or Engineering Economics	3 or 3	2 or 1	- -	5 or 4	50	100	-	150	3
HUM-203-F	Fundamentals of Management	3	1	-	4	50	100	-	150	3
ME-201-F	Thermodynamics	3	1	-	4	50	100	-	150	3
ME-203-F	Computer Aided Design	3	1	-	4	50	100	-	150	3
ME-205-F	Engineering Mechanics	3	1	-	4	50	100	-	150	3
ME-207-F	Material Science	3	1	-	4	50	100		150	3
ME-209-F	Machine Drawing	1	-	3	4	50	-	50	100	4
ME-211-F	Computer Aided Design Lab	-	-	2	2	25	-	25	50	3
ME-213-F	Engineering Mechanics Lab	-	-	2	2	25	-	25	50	3
ME-215-F	Materials Science Lab	-	-	2	2	25	-	25	50	3
	Total	**19**	**6**	**10**	**34/35**	**425**	**600**	**125**	**1150**	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech 2nd YEAR MECHANICAL ENGINEERING,
4th SEMESTER
Proposed 'F' Scheme w.e.f 2010-11

Course	Course Title	Teaching Schedule				Marks for class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT-201-F or HUM-201-F	Mathematics-III or Engineering Economics	3 or 3	2 or 1	-	5 or 4	50	100	-	150	3
ME-202-F	Manufacturing Technology-I	3	1	-	4	50	100	-	150	3
ME-204-F	Kinematics of Machine	3	1	-	4	50	100	-	150	3
ME-206-F	Strength of Materials-I	3	1	-	4	50	100	-	150	3
ME-208-F	Fluid Mechanics	3	1	-	4	50	100	-	150	3
ME-210-F	Steam & Power Generation	3	1	-	4	50	100	-	150	3
ME-212-F	Kinematics of Machine Lab	-	-	2	2	25	-	25	50	3
ME-214-F	Strength of Materials Lab	-	-	2	2	25	-	25	50	3
ME-216-F	Fluid Mechanics Lab	-	-	2	2	25	-	25	50	3
ME-218-F	Steam & Power Generation Lab	-	-	2	2	25	-	25	50	3
GP-202-F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	**18**	**6**	**9**	**34/35**	**450**	**600**	**100**	**1150**	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR MECHANICAL ENGINEERING, SEMESTER- V
Proposed "F" Scheme effective from 2011-12

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-301-F	Dynamics Of Machines	3	1	-	4	50	100	-	150	3
ME-303-F	Mechanical Machine Design-1	3	2	-	5	50	100	-	150	4
ME-305-F	Fluid Machine	3	1	-	4	50	100	-	150	3
ME-307-F	Internal Combustion Engines & Gas Turbines	3	1	-	4	50	100	-	150	3
ME-309-F	Manufacturing Technology –II	3	1	-	4	50	100	-	150	3
ME-311-F	Applied Numerical Technique & Computing	3	-	-	3	50	100	-	150	3
ME-313-F	Dynamics Of Mechanics Lab	-	-	2	2	25	-	25	50	3
ME-315-F	Fluid Machine Lab	-	-	2	2	25	-	25	50	3
ME-317-F	Internal Combustion Engines & Gas Turbines Lab	-	-	2	2	25	-	25	50	3
ME-319-F	Manufacturing Technology –II Lab	-	-	2	2	25	-	25	50	3
ME-321-F	Applied Numerical Technique & Computing Lab	-	-	2	2	50	-	-	50	-
ME-323-F	Practical Training Viva-Voce	-	-	2	2	-	-	-	-	-
	Total	18	6	12	36	450	600	100	1150	

Note:

1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR MECHANICAL ENGINEERING, SEMESTER- VI
Proposed "F" Scheme effective from 2011-12

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-302-F	Automobile Engineering	3	1	-	4	50	100	-	150	3
ME-304-F	Mechanical Machine Design-II	3	2	-	5	50	100	-	150	4
ME-306-F	Heat Transfer	3	1	-	4	50	100	-	150	3
ME-308-F	Automatic Control	3	1	-	4	50	100	-	150	3
ME-310-F	Measurement & instrumentation	3	1	-	4	50	100	-	150	3
ME-312-F	Industrial Engineering	3	1	-	4	50	100	-	150	3
ME-314-F	Automobile Engineering Lab	-	-	2	2	25	-	25	50	3
ME-316-F	Heat Transfer Lab	-	-	2	2	25	-	25	25	3
ME-318-F	Measurement & instrumentation Lab	-	-	2	2	25	-	25	25	3
ME-320-F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	18	7	8	33	450	600	100	1050	

NOTE:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER- VII
(Scheme-F)
EFFECTIVE FROM THE SESSION 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-401-F	Strength of Material-II	3	1	-	4	50	100	-	150	3
ME-403-F	Refrigeration & Air-Conditioning	3	1	-	4	50	100	-	150	3
ME-405-F	Operation Research	3	1	-	4	50	100	-	150	3
ME-407-F	Power Plant Engineering	3	1	-	4	50	100	-	150	3
ME-409-F	Mechanical Vibration	3	1	-	4	50	100	-	150	3
----------	Elective	3	1	-	4	50	100	-	150	3
ME-411-F	Refrigeration & Air-Conditioning Lab	-	-	2	2	50	-	50	100	3
ME-413-F	Advanced CAD/CAM Lab	-	-	2	2	50	-	100	150	3
ME-415-F	Practical Training-II	-	-	2	2	-	-	-	-	-
GFME-435-F	General Fitness for the Profession	-	-	-	-	-	-	50	50	3
	Total	18	6	6	30	400	600	200	1200	

LIST OF ELECTIVES

S.NO.	SUBJECT CODE	DEPTT. ELECTIVE
1.	ME-417-F	QUALITY ENGINEERING
2.	ME 419-F	FINITE ELEMENT METHODS
3.	ME-421-F	ENERGY MANAGEMENT PRINCIPLES
4.	ME- 425-F	COMPUTER INTEGRATED MANUFACTURING
5.	ME- 429-F	RELIABILITY ENGINEERING
6.	ME-431-F	SOLAR ENERGY ENGINEERING

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER- VIII
(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

Sl. No.	Course No.	Subject	Internal Marks	External Marks	Total Marks
1.	ME- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

SECOND YEAR

Third Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN301	Cost and Management Accounting	80	20	-	100
BBAN302	Marketing Management	80	20	-	100
BBAN303	Capital Markets	80	20	-	100
BBAN304	Introduction to Information Technology	50	-	50	100
BBAN305	Environment Studies	80	20	-	100
BBAN306	Disaster Management	80	20	-	100
	TOTAL				600

Fourth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN401	Financial Management	80	20	-	100
BBAN402	Human Resource Management	80	20	-	100
BBAN403	Business Research Methods	80	20	-	100
BBAN404	Business Laws	80	20	-	100
BBAN405	Data Base Management System	50	-	50	100
BBAN406	Human Rights and Values	80	20	-	100
	TOTAL				600

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

THIRD YEAR

Fifth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN501	Production and Materials Management	80	20	-	100
BBAN502	Company Law	80	20	-	100
BBAN503	Indian Business Environment	80	20	-	100
BBAN504	Computer Networking & Internet	50	-	50	100
BBAN505	Presentation Skills and Personality Development	80	20	-	100
BBAN506	Cyber Security	80	20	-	100
BBAN507	Summer Training Report	100	-	-	100
	TOTAL				700

Sixth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN601	Income Tax	80	20	-	100
BBAN602	System Analysis & Design	80	20	-	100
BBAN603	Foundations of International Business	80	20	-	100
BBAN604	Consumer Protection	80	20	-	100
BBAN605	E-Commerce	50	-	50	100
BBAN606	Project Report	100	-	-	100
BBAN607	Comprehensive Viva-voce	100	-	-	100
	TOTAL				700

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT ★ HARYANA ★ DIRECTOR

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY

(CYBER FORENSICS AND INFORMATION SECURITY)

SEMESTER-III

EFFECTIVE FROM 2013-14

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTCF 301	Preserving & Recovering Digital Evidence	4	-	-	50	100	150	3
MTCF 302	Cyber Laws & Security Policy	4	-	-	50	100	150	3
	Elective-III	4	-	-	50	100	150	3
MTCF 307	Dissertation Phase 1	-	-	8	100	-	100	3
MTCF 308	Seminar & Technical Writing	-	-	2	50	-	50	-
TOTAL		12	-	10	300	300	600	

Elective- III

MTCF 303- Biometric Security
MTCF 304- Applied Cryptography
MTCF 305- Distributed Systems Security
MTCF 306- Secure Software Engineering

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY

(CYBER FORENSICS AND INFORMATION SECURITY)

SEMESTER-IV

EFFECTIVE FROM 2013-14

Course No.	Course Title	Teaching Schedule			Marks		Total
		L	T	P	Sessional	Exam.	
MTCF 401	Dissertation Phase- II	-	-	24	200	400	600
	Total		-	24	200	400	600

M.D. UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 1st
CBCS Scheme effective from 2016-17

Sr. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours/ week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16CSE21C1	Data Communication and Computer Networks	4	0	-	4	50	100	-	150	3	4
2	16CSE21C2	Advanced Operating Systems	4	0	-	4	50	100	-	150	3	4
3	16CSE21C3	Advanced Database Management System	4	0	-	4	50	100	-	150	3	4
4	16CSE21C4	Data Warehouse and Mining	4	0	-	4	50	100	-	150	3	4
5	16CSE21C5	Mathematical Foundation of Computer Science	4	0	-	4	50	100	-	150	3	4
6	16CSE21C6	Seminar	-		-	2	50	-	-	50		2
7	16CSE21CL1	Advanced Operating Systems Lab	-	-	2	2	50	-	50	100	3	2
8	16CSE21CL2	Advanced Database Management System Lab	-	-	2	2	50	-	50	100	3	2
		TOTAL	26									

NOTE:

Examiner will set nine question in total. Question one will be compulsory and will comprises of all section and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D. UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 2nd
CBCS Scheme effective from 2016-17

Sr. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours /week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16CSE22C1	Soft Computing	4	0	-	4	50	100	-	150	3	4
2	16CSE22C2	Algorithm Design	4	0	-	4	50	100	-	150	3	4
3	16CSE22C3	Seminar	-		2	2	50	-	-	50	-	2
4	16CSE22CL1	Soft Computing Lab	-	-	2	2	50	-	50	100	3	2
5	16CSE22CL2	Algorithm Design Lab	-	-	2	2	50	-	50	100	3	2
6	16CSE22D1 or 16CSE22D2 or 16CSE22D3 or 16CSE22D4	Elective-1	4	0	-	4	50	100	-	150	3	4
7		Open Elective				3						3
8		Foundation Elective				2						2
			23									

NOTE: Examiner will set nine question in total. Question One will be compulsory and will comprises of all section and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective 1 : Choose any one from the following papers

16CSE22D1 Mobile and Wireless Communication
16CSE22D2 Optimization Techniques
16CSE22D3 Discrete Mathematics
16CSE22D4 Internet and Web Development

Elective 2

A candidate has to select this paper from the pool of Open Electives provided by the University

Elective 3

A candidate has to select this paper from the pool of Foundation Electives provided by the University.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 3rd
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours/ week
			L	T	P	Total credits	Marks of Class works	Theory	Practical	Total		
1	17CSE23C1	Knowledge Based System	4	0	-	4	50	100	-	150	3	4
2	17CSE23C2	Network Security	4	0	-	4	50	100	-	150	3	4
3	17CSE23C3	Literature Survey (Dissertation Stage 1)	-	-	2	2	100	-	-	100		4
4	17CSE23C4	Seminar	-		2	2	50	-	-	50		2
5	17CSE23CL1	Knowledge Based System Lab	-	-	2	2	50	-	50	100		2
6	17CSE23CL2	Project	-	-	2	2	50	-	50	100		2
7		Open Elective				3						
		TOTAL	**21**									

NOTE:
Examiner will set nine questions in total. Question One will be compulsory and will comprises of all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

OPEN ELECTIVE
A candidate has to select this paper from the pool of open electives provided by the University.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 4th
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
1.	17CSE24C1	Dissertation and viva (Dissertation Stage 2)	-	-	-	-	250	-	500	750	**20**
		TOTAL	-	-	-	-					

NOTE:

1. **Students have to publish a research paper in a journal / conference of the research work done in the semester.**

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-III

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	Practical	
1	MTEPS301	Elective – III	3	1	0	50	100	-	150
2	MTEPS302	Elective – IV	3	1	0	50	100	-	150
3	MTEPS303	Seminar			2	50	-	50	100
4	MTEPS304	Dissertation-Phase I	0	0	4	150	-	-	150
		Grand Total	6	2	6	300	200	50	550

NOTE:

1. The paper setter shall set each theory paper of 100 marks covering entire syllabus. However the examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A^+ , A,B,C,D & E. The examination of practical courses shall also be evaluated on the basis of these grades.
2. The sessionals of theory , practical and Seminar courses shall also be evaluated in the basis of these grades.
3. The choice of student for any elective shall not be binding on the department to offer it.
4. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-IV

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	E.VIVA	
1	MTEPS401	Dissertation Final Phase	0	0	20	200	-	400	600
		Total			20	200	-	400	600

NOTE:

1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e A^+, A,B,C,D & E.
2. The Dissertation shall be evaluated by an examination committee consisting of the head of the department, Dissertation Supervisor and one External examiner. The evaluation should be based on above grades.
3. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 1
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours /week
			L	T	P	Total Credits	Marks of Class work	Theory	Practical	Total		
1	16ECE21C1	Advance Microprocessor & Microcontroller	4	0	-	4	50	100	-	150	3	4
2	16ECE21C2	Satellite and Space Communication	4	0	-	4	50	100	-	150	3	4
3	16ECE21C3	Information and Communication Theory	4	0	-	4	50	100	-	150	3	4
4	16ECE21C4	Advanced Digital Signal Processing	4	0	-	4	50	100	-	150	3	4
5	16ECE21C5	Data Communication Networks	4	0	-	4	50	100	-	150	3	4
6	16ECE21C6	Seminar	-		-	2	50	-	-	50		2
7	16ECE21CL1	Satellite Lab	-	-	2	2	50	-	50	100	3	4
8	16ECE21CL2	Advance Microprocessor & Microcontroller Lab	-	-	2	2	50	-	50	100	3	4
		TOTAL	26									

NOTE:

Examiner will set nine question in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (ELECTRONICS & COMMUNICATION) SEMESTER 2
CBCS Scheme effective from 2016-17

Sl. No	Course No.	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total	
1	16ECE22C1	Wireless Mobile Communication	4	0	-	4	50	100	-	150	3
2	16ECE22C2	Optical Communication	4	0	-	4	50	100	-	150	3
3	16ECE22C3	Seminar	-		-	2	50	-	-	50	
4	16ECE22CL1	VLSI Lab	-	-	2	2	50	-	50	100	3
5	16ECE22CL2	Optical Communication Lab	-	-	2	2	50	-	50	100	3
6	16ECE22D1 or 16ECE22D2 or 16ECE22D3 or 16ECE22D4	Elective-1	4	0	-	4	50	100	-	150	3
7		Open Elective				3					
8		Foundation Elective				2					
		TOTAL				23					

NOTE: Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective 1 : Choose any one from the following four papers:

16ECE22D1 - Electronic System Design
16ECE22D2 - Image Processing
16ECE22D3 - ADVANCED MATHEMATICS FOR ENGINEERS
16ECE22D4 - VLSI Design

Open Elective: A candidate has to select this paper from the pool of Open Electives provided by the University.

Foundation Elective: A candidate has to select this paper from the pool of Foundation Electives provided by the University.

M.DUNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 3rd
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total		
1	17ECE23C1	Neural Networks & Fuzzy Logics	4	0	-	4	50	100	-	150	3	4
2	17ECE23C2	CDMA	4	0	-	4	50	100	-	150	3	4
3	17ECE23C3	DISSERTATION (PHASE-I)	-	-	-	4	100	-	-	100		2
4	17ECE23C4	Seminar	-	-	-	2	50	-	-	50		2
5	17ECE23CL1	Project	-	-	2	2	50	-	50	100		2
6	17ECE23CL2	MATLAB Lab	-	-	2	2	50	-	50	100		2
7		OPEN ELECTIVE										3
		TOTAL										**21**

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.**
2. **Students have to publish a research paper in a journal / conference on the basis of literature survey done in the semester.**

OPEN ELECTIVE: A candidate has to select this paper from the pool of open electives provided by the University.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 4th
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
	17ECE24C1	Dissertation and viva	-	-	-	-	250	-	500	750	20
		TOTAL	-	-	-	-	**250**	-	**500**	**750**	
		GRAND TOTAL									

NOTE:

1. **Students have to publish a research paper in a journal / conference of the research work done in the semester.**

M. TECH. MECHANICAL ENGINEERING (MACHINE DESIGN)
COURSE SCHEME and DETAILED SYLLABUS

Semesterwise Course Scheme

FIRST SEMESTER

	Subject Code	Subject	Credit	L-T-P	Marks Weightage Theory	Sessional	Grand total
1.	M801A	Numerical Analysis and Optimization	3	3-0-0	100	50	
2.	M803A	Instrumentation and Measurement	3	3-0-0	100	50	
3.	M805A	Experimental Stress Analysis	3	3-0-0	100	50	
4.	M807A	Metal Forming Analysis	3	3-0-0	100	50	
5.	M809A	Mechatronics and Product Design	3	3-0-0	100	50	
					Ext.	**Int.**	
6.	M811A	Experimental Stress Analysis Lab	1	0-0-2	25	25	
7.	M813A	Mechanical Measurement Lab	1	0-0-2	25	25	
8.	M815A	Computational Lab	1	0-0-2	25	25	
		Total	**18**	**15-0-6**	**575**	**325**	**900**

SECOND SEMESTER

9.	M802A	Theory of Elasticity	3	3-0-0	100	50	
10.	M804A	Design of Mechanisms	3	3-0-0	100	50	
11.	M806A	Principles of Machine Design	3	3-0-0	100	50	
12.		General Elective – I	3	3-0-0	100	50	
13.		General Elective – II	3	3-0-0	100	50	
					Ext.	**Int.**	
14.	M812A	Seminar	1	0-0-2	25	25	
15.	M814A	CAD/CAM Lab	1	0-0-2	25	25	
16.	M816A	Design Practice Lab – I	1	0-0-2	25	25	
		Total	**18**	**15-0-6**	**575**	**325**	**900**

THIRD SEMESTER

17.	M821A	Mechanical Behavior of Materials	3	3-0-0	100	50	
18.	M823A	Mechanical Vibrations	3	3-0-0	100	50	
19.	M825A	General Elective III	3	3-0-0	100	50	
					Ext.	**Int.**	
20.	M827A	Design Practice Lab II	1	0-0-2	25	25	
21.	M829A	Materials Behavior and Vibration Lab	1	0-0-2	25	25	
22.	M831A	Minor Project	5	0-0-10	150	100	
		Total	**16**	**9-0-14**	**500**	**300**	**800**

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT ★ KABLANA
DIRECTOR

SEMESTER IV

Subject Code	Subject	Credit	L-T-P	Marks Weightage Ext.	Int.	
23. M822A	Dissertation	12	0-0-24	400	200	
	Total	**12**	**0-0-24**	**400**	**200**	**600**

ELECTIVES I

1. M837 Design of Bearings and Shaft
2. M838 Computer Aided Design
3. M839 Design of Pollution Control Equipments
4. M840 Design of Pressure Vessels

ELECTIVES II

1. M845 Fracture Mechanics
2. M846 Design and Metallurgy of Welded Joints
3. M847 Finite Element Methods
4. M848 Materials Management

ELECTIVE III

1. M849 Total Quality Management
2. M850 Robotic Engineering
3. M851 Computer Aided Vehicle Design
4. M852 Tribology

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 1
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours /week
			L	T	P	Total Credits	Marks of Class work	Theory	Practical	Total		
1	16MMA21C1	Metal Forming Analysis	4	0	-	4	50	100	-	150	3	4
2	16MMA21C2	Mechatronics & Product Design	4	0	-	4	50	100	-	150	3	4
3	16MMA21C3	Total Quality Management	4	0	-	4	50	100	-	150	3	4
4	16MMA21C4	Welding & Allied Processes	4	0	-	4	50	100	-	150	3	4
5	16MMA21CL1	Mechatronics Lab	-	-	2	2	50		50	100	3	4
6	16MMA21CL2	Welding Lab	-	-	2	2	50		50	100	3	4
7	16MMA21CL3	CAD/CAM Lab	-	-	2	2	50		50	100	3	4
8	16MMA21C5	Seminar	-		-	2	50	-	-	50		2
9	16MMA21D1 or 16MMA21D2 or 16MMA21D3 OR 16MMA21D4	Elective I	4	-		4	50	100		150	3	4
		TOTAL	28									

Elective I: Choose any one from the following three papers:
16MMA21D1 - INDUSTRIAL INSPECTION
16MMA21D2 - DESIGN AND METALLURGY OF WELDED
JOINTS 16MMA21D3 - FOUNDARY TECHNOLOGY
16MMA21D4-DESIGN PLANNING CONTORL AND PRODUCTION SYSTEM

NOTE:

Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 2
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours/ week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16MMA22C1	Mechanical Design-I	4	0	-	4	50	100	-	150	3	4
2	16MMA22C2	Diagnostic Maintenance & Monitoring	4	0	-	4	50	100	-	150	3	4
3	16MMA22C3	Seminar	-		-	2	50	-	-	50		2
4	16MMA22CL1	CIM Lab	-	-	2	2	50	-	50	100	3	4
5	16MMA22CL2	Diagnostic Maintenance & Monitoring Lab	-	-	2	2	50	-	50	100	3	4
6	16MMA22D1 or 16MMA22D2 or 16MMA22D3	Elective-II	4	0	-	4	50	100	-	150	3	4
7		Open Elective	3	0	-	3						
8		Foundation Elective	2	0	-	2						
	TOTAL					23						

NOTE: Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective II : Choose any one from the following three papers:

16MMA22D1 - QUALITY CONTROL TECHNIQUES

16MMA22D2 - FINITE ELEMENT METHODS

16MMA22D3 - ARTIFICIAL INTELLEGENCE IN MANUFACTURING

Open Elective: A candidate has to select this paper from the pool of Open Electives provided by the University.

Foundation Elective: A candidate has to select this paper from the pool of Foundation Electives provided by the University.

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY (STRUCTURAL DESIGN)

SEMESTER-III

EFFECTIVE FROM 2012-13

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTSD 301	Design of Structures- III	4	-	-	50	100	150	3
MTSD 302	Professional Practices	4	-	-	50	100	150	3
	Elective-III	4	-	-	50	100	150	3
MTSD 303	Computational Laboratory-III	-	-	3	50	50	100	3
MTSD 304	Seminar & Technical Writing	-	-	2	50	-	50	
MTSD 305	Dissertation Phase-I	-	-	4	100	-	100	
TOTAL		12	-	9	350	350	700	

NOTE:

1. The paper setter shall set each theory paper of 100 marks covering entire syllabus. However the Examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A+, A, B, C, D & E. The examination of practical courses shall also be evaluated on the basis of these grades.
2. The sessionals of theory and practical courses shall also be evaluated in the basis of these grades.
3. The choice of student for any elective shall not be binding on the department to offer it.
4. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY (STRUCTURAL DESIGN)

SEMESTER-IV

EFFECTIVE FROM 2012-13

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTSD 401	Dissertation	-	-	24	200	400	600	3
TOTAL			-	24	200	400	600	

NOTE:

1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e A+,A,B,C,D & E.
2. The Dissertation shall be evaluated by an examination committee consisting of the head of the department, Dissertation Supervisor and one External examiner. The evaluation should be based on above grades.
3. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s)

List of Electives:

Elective- I

MTSD 107 - Composite Structures

MTSD 108 - Analysis and Design of Plates & Shells

MTSD 109 - Advanced Foundation Design and Geotechnics

MTSD 110 - Material Science

Elective- II

MTSD 207- Advanced Steel Design

MTSD 208 - Advanced Reinforced Concrete Design

MTSD 209- Earth Retaining Structures

MTSD 210- Construction Failures

Elective- III

MTSD 306- High Rise Structures

MTSD 307- Design of Hydraulic Systems

MTSD 308- Design Of Bridges

CURRICULUM AND SCHEME OF EXAMINATIONS OF TWO YEAR MBA PROGRAMME

Second Year : 3rd Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA301	Strategic Management	80	20	-	100
MBA302	Management Information System	80	20	-	100
MBA303	Business Legislation	80	20	-	100
MBA304	Summer Training Report	100	-	-	100
Specialization Area I	Optional Paper - I				100
	Optional Paper - II				100
	Optional Paper - III				100
Specialization Area II	Optional Paper - I				100
	Optional Paper - II				100
	Optional Paper - III				100
	TOTAL				**1000**

Note:

1 Students are required to choose any three optional papers from each set of specialization areas offered under dual specialization scheme. The specialization area opted in 3rd Semester would remain same in 4th semester also.

2. The duration of the end term examination shall be 3 hours.

3. The following combinations of specializations shall be offered to the students of 2-Year MBA (General):
   a. Finance and Marketing
   b. Finance and Human Resource Management
   c. Human Resource Management and Marketing
   d. Finance and IT
   e. Finance and IB
   f. Marketing and IB
   g. Marketing and IT

CURRICULUM AND SCHEME OF EXAMINATIONS FOR TWO YEAR MBA PROGRAMME

Second Year: 4th Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA401	Entrepreneurship	80	20	-	100
MBA402	E-Commerce	50	-	50	100
MBA403	Project Report	100	-	-	100
MBA404	Comprehensive Viva-voce	100	-	-	100
Specialization Area I	Optional Paper – I				100
	Optional Paper – II				100
	Optional Paper – III				100
Specialization Area II	Optional Paper – I				100
	Optional Paper – II				100
	Optional Paper - III				100
	TOTAL				**1000**

Note:

1. Students are required to choose any three optional papers from each set of specialization areas offered under dual specialization scheme. The specialization area opted in 3rd Semester would remain same in 4th semester also.
2. The topic of the Project Report (Code MBA403) shall be finalized in 3rd semester by a Committee of the Faculty Members to be constituted by Director/Principal of the concerned Institute after presentation by the candidate before the Committee.
3. The duration of the end term examination shall be 3 hours.
4. The following combinations of specializations shall be offered to the students of 2-Year MBA (General):
   a. Finance and Marketing
   b. Finance and Human Resource Management
   c. Human Resource Management and Marketing
   d. Finance and IT
   e. Finance and IB
   f. Marketing and IB
   g. Marketing and IT

CURRICULUM AND SCHEME OF EXAMINATIONS FOR TWO YEAR MBA PROGRAMME

SPECIALISATIONS OFFERED IN 3RD AND 4TH SEMESTERS

HUMAN RESOURCE MANAGEMENT: Third Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA305	Performance Management	80	20	-	100
MBA307	Organisational Change and Development	80	20	-	100
MBA308	Compensation Management	80	20	-	100

Fourth Semester

Paper No.	Title of the Paper(s)	External Marks	Internal Marks/ Workshop	Practical Marks	Total Marks
MBA405	Talent Management	80	20	-	100
MBA406	Industrial Relations and Labour Legislations	80	20	-	100
MBA407	Strategic Human Resource Management	80	20	-	100

Note: The duration of the end term examination shall be 3 hours.

MCA Second Year

Semester-III

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
17MCA33C1	Computer Graphics	80	20	100	4:0:0
17MCA33C2	Operating Systems	80	20	100	4:0:0
17MCA33C3	Advance Database Systems	80	20	100	4:0:0
17MCA33C4	Data Communication and Computer Networks	80	20	100	4:0:0
17MCA33C5	Object Technology	80	20	100	4:0:0
17MCA33CL1	SoftwareLab-5 i) Graphics Programming Using C/C++. ii) UNIX /Shell Programming.	100*	----	100	0:0:3
17MCA33CL2	SoftwareLab-6 i) Java Programming ii)ADBMS (PL/SQL & MYSQL)	100*	----	100	0:0:3
					26 Credits

Semester-IV

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
17MCA34C1	Advanced Java Programming	80	20	100	4:0:0
17MCA34C2	Object Oriented Analysis and Design using UML	80	20	100	4:0:0
17MCA34DA1/ 17MCA34DA2/ 17MCA34DA3	i) Theory of Computation or ii) Software Engineering or iii) Multimedia and Its Applications	80	20	100	4:0:0
17MCA34DB1/ 17MCA34DB2/ 17MCA34DB3	i) Analysis and Design of Algorithms or ii) Computer Security or iii)Digital Image Processing	80	20	100	4:0:0
17MCA34C3	Artificial Intelligence and Expert System	80	20	100	4:0:0
17MCA34CL1	SoftwareLab-7 Advance Java Programming	100*	----	100	0:0:3
17MCA34CL2	Software Lab-8 i)Object Oriented Analysis and Design using UML ii) PROLOG	100*	----	100	0:0:3
17MCA34C4	Minor Project-I	-	100	100	0:2:0
	Total				28 Credits

Open Elective (O)	
To be Chosen from the pool of Open Electives provided by the University (excluding the open elective prepared by the Department of Comp Sc. & Appls.)	3

Total Credits= 31 Credits

*20 marks out of 100 will be based on the evaluation/assessment of the candidate in Test(s) and Assignment(s) during the semester, which will be forwarded by the Head of Dept./Director to the Examiner(s). Further, both practical exams of a semester may be conducted on the same day in 2 sittings each maximum of 3 hours.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

MCA Third Year

Semester-V

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
18MCA35C1	Advanced Technology	80	20	100	4:0:0
18MCA35C2	Soft Computing	80	20	100	4:0:0
18MCA35C3	Data Warehousing and Data Mining	80	20	100	4:0:0
18MCA35DA1/ 18MCA35DA2/ 18MCA35DA3	(i) Cloud Computing or (ii) Big Data Analytics or (iii) Software Testing and Quality Assurance	80	20	100	4:0:0
18MCA35DB1/ 18MCA35DB2/ 18MCA35DB3	(i) Internet of Things or (ii) Mobile Computing or (iii) Embedded Systems	80	20	100	4:0:0
18MCA35CL1	Software Lab-9 .NET Programming Using C#	100*	----	100	0:0:3
18MCA35CL2	Software Lab-10 Soft Computing	100*	----	100	0:0:3
18MCA35C6	Minor Project-II	-	100	100	0:2:0
	Total				**28 Credits**
Open Elective (O)					
To be Chosen from the pool of Open Electives provided by the University (excluding the open elective prepared by the Department of Comp Sc. & Appls.)					3

Total Credits= 31 Credits

* 20 marks out of 100 will be based on the evaluation/assessment of the candidate in Test(s) and Assignment(s) during the semester, which will be forwarded by the Head of Dept./Director to the Examiner(s). Further, both practical exams of a semester may be conducted on the same day in 2 sittings each maximum of 3 hours.

Semester-VI

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits
18MCA36C1	Major Project	400	100	500	20 Credits
	Grand Total of 3 Years/Credits				**162 Credits**

2019-20

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATION

Bachelor of Technology (Civil Engineering) Scheme effective from 2019-20

SEMESTER 3rd

Sr. No.	Course Code	Course Title	Hours per week	Contact hours per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L-T-P			Class work	Theory	Practical	Total	
1.	HSMC-201-G	Economics For Engineers	2-0-0	2	2	25	75	-	100	3
2.	PCC-201-G	Introduction to Civil Engineering	2-0-0	2	2	25	75	-	100	3
3.	BSC-Math-205-G	Mathematics III	2-1-0	3	3	25	75	-	100	3
4.	PCC-203-G	Engineering Mechanics	3-1-0	4	4	25	75	-	100	3
5.	*MC-106-G	Environmental Science	3-0-1	4	0	25	75	-	--	3
6.	PCC-CE-205-G	Fluid Mechanics	2-1-0	3	3	25	75	-	100	3
7.	PCC-CE-207-G	Surveying	2-1-0	3	3	25	75	-	100	3
8.	LC-CE-209-G	Building Drawing lab	0-0-2	2	1	25	-	25	50	3
9.	LC-CE-211-G	Engineering Mechanics Lab.	0-0-2	2	1	25	-	25	50	3
10.	LC-CE-213-G	Fluid Mechanics Lab.	0-0-2	2	1	25	-	25	50	3
11.	LC-CE-215-G	Surveying Lab.	0-0-2	2	1	25	-	25	50	3
				TOTAL	21					

MC-106Gis a mandatory non –credit course in which the students will be required passing marks in theory.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATION

Bachelor of Technology (Civil Engineering) Scheme effective from 2019-20

SEMESTER 4th

Sr. No.	Course Code	Course Title	Hours per week	Contact hours per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L-T-P			Class work	Theory	Practical	Total	
1.	HSMC-202-G	Organization Behavior	3-0-0	3	3	25	75	-	100	3
2.	PCC-CE-202-G	Hydraulic engineering	3-1-0	4	4	25	75	-	100	3
3.	PCC-CE-204-G	Design of concrete structure	3-1-0	4	4	25	75	-	100	3
4.	PCC-CE-206-G	Structural Analysis	2-1-0	3	3	25	75	-	100	3
5.	PCC –CE-208-G	Geomatics & Aerial surveying	3-1-0	4	4	25	75	-	100	3
6.	PCC-CE-210-G	Material Testing & Evaluation	3-0-0	3	3	25	75	-	100	3
7.	LC-CE-212-G	Hydraulic engineering lab	0-0-2	2	1	25	-	25	50	3
8.	LC-CE-214-G	Structural Analysis Lab	0-0-2	2	1	25	-	25	50	3
9.	LC-CE-216-G	Geomatics & Arial surveying Lab.	0-0-2	2	1	25	-	25	50	3
10.	LC-CE-218-G	Material Testing & Evaluation Lab.	0-0-2	2	1	25	-	25	50	3
				TOTAL	**25**					

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.

2. (A) each student has to undergo practical training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc and its evaluation shall be carried out in the V semester on the basis of seminar, viva-voce, report and certificate of practical training obtained by the student.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR CIVIL ENGINEERING, SEMESTER- V
Proposed "F" Scheme effective from 2011-12

Subject Code	Subject Name	L	T	P	Total	Sessional Marks	Theory Marks	Sem Practical Marks	Total Marks
CE-301-F	Design of Steel Structure- I	3	1	-	4	50	100	0	150
CE-303-F	Transportation Engg.-I	3	1	0	4	50	100	0	150
CE-305-F	Water Supply-Treatment	3	1	0	4	50	100	0	150
CE-307-F	Soil Mechanics	3	1	0	4	50	100	0	150
CE-309-F	Numerical Methods And Computing Techniques	3	1	0	4	50	100	0	150
CE-311-F	Hydrology	3	1	0	4	50	100	0	150
CE-313 F	DSS-Drg.Lab	2	0	3	5	25	-	25	50
CE-315-F	Soil Mechanics Lab	0	0	2	2	25	0	25	50
CE-317 F	Transportation Lab-I	0	0	2	2	25	0	25	50
CE-319-F	Survey Camp	0	0	0	0	50	0	0	50
CE-321-F	Auto Cad Lab	0	0	2	2	25	0	25	50
	Total	20	6	9	35	450	600	100	1150

Note:

1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR CIVIL ENGINEERING, SEMESTER- VI
Proposed "F" Scheme effective from 2011-12

Subject Code	Subject Name	L	T	P	Total	Class Marks	Sem Theory Marks	Sem Practical Marks	Total Marks
CE-302-F	Design of Concrete Structures-II	4	2	0	6	50	100	0	150
CE-304-F	Irrigation Engineering-I	3	1	0	4	50	100	0	150
CE-306-F	Geotechnology	3	1	0	4	50	100	0	150
CE-308-F	Sewerage And Sewage Treatment	3	1	0	4	50	100	0	150
CE-310-F	Transportation Engg.-II	3	1	0	4	50	100	0	150
CE-312-F	Engineering Geology	3	1	0	4	50	100	0	150
CE-314-F	Geotechnology Lab	0	0	2	2	25	0	25	50
CE-316-F	Transportation Engg.-II Lab	0	0	2	2	25	0	25	50
CE-318-F	Engineering Geology Lab	0	0	2	2	25	0	25	50
CE-320-F	Environmental Engg. Lab	0	0	2	2	25	0	25	50
GPCE-318-F	General Proficiency	0	0	1	1	0	0	50	50
	Total	19	7	9	35	400	600	150	1150

NOTE:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B. Tech. 4th YEAR CIVIL ENGINEERING, SEMESTER- VII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

Subject Code	Subject Name	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
CE-401-F	Design of Steel Structure-II	3	1	-	4	50	100	-	150	3
CE-403-F	Disaster Mitigation and Management	3	1	-	4	50	100	-	150	4
CE-405-F	Estimating and Costing	3	1	-	4	50	100	-	150	3
CE-407-F	Irrigation Engg-II	3	1	-	4	50	100	-	150	3
----------	Elective	3	1	-	4	50	100	-	150	3
CE-451-F	Hydro Power Engg.	3	1	-	4	50	100	-	150	3
CE-453-F	Ground Water Engg	3	1	0	4	50	100	0	150	3
CE-455-F	Irrigation Drawing Lab	0	0	2	2	50	0	50	100	3
CE-457-F	Practical Training - II	-	-	2	-	-	-	-	-	-
GFCE-459-F	General Fitness for the Profession	-	-	-	-	-	-	50	50	3
	Total	21	7	4	32	400	700	100	1200	

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. **Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

ELECTIVES

1) CE -409 -F - Energy planning and management
2) CE -411-F - Environmental pollution and control
3) CE -417- F - Finite Element Methods
4) CE- 421 -F - Environmental impact and management
5) CE- 423- F - Elements of Earth Quake Engg.
6) CE- 433 -F - Hydraulic System Modeling

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech. 4th YEAR CIVIL ENGINEERING, SEMESTER- VIII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

		Subject	Internal Marks	External Marks	Total Marks
1.	CE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training in State/Central PWD, Railways and other Originations or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

B.Tech. (Computer Science and Engineering)

Common with B.Tech. (Information Technology) &

B.Tech. (Computer Science and Information Technology)

Scheme ofStudies/Examination w.e.f. 2019-20

Semester-3

Sr. No.	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P			Mark of Class work	Theory	Practical	Total	
1	PCC-CSE-201G	Database Management Systems	3	0	0	3	3	25	75		100	3
2	PCC-CSE-203G	Data Structures & Algorithms	3	0	0	3	3	25	75		100	3
3	PCC-CSE-205G	Digital Electronics	3	0	0	3	3	25	75		100	3
4	PCC-CSE-207G	Python Programming	2	0	0	2	2	25	75		100	3
5	BSC-MATH-203G	Mathematics - III (Multivariable Calculus and Differential Equations)	2	0	0	2	2	25	75		100	3
6	HSMC-01G	Economics for Engineers	3	0	0	3	3	25	75		100	3
7	LC-CSE-209G	Database Management Systems LAB	0	0	4	4	2	25		25	50	3
8	LC-CSE-211G	Digital Electronics LAB	0	0	4	4	2	25		25	50	3
9	LC-CSE-213G	Data Structures & Algorithms LAB Using C	0	0	4	4	2	25		25	50	3
10	LC-CSE-215G	Python Programming LAB	0	0	2	2	1	25		25	50	3
						Total	23				800	

B.Tech. (Computer Science and Engineering)

Common with B.Tech. (Information Technology) &

B.Tech. (Computer Science and Information Technology)

Scheme ofStudies/Examination w.e.f. 2019-20

Semester-4

Sr. No.	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P			Mark of Class work	Theory	Practical	Total	
1	PCC-CSE-202G	Discrete Mathematics	3	1	0	3	4	25	75		100	3
2	PCC-CSE-204G	Computer Organization&Architecture	3	0	0	3	3	25	75		100	3
3	PCC-CSE-206G	OperatingSystem	3	0	0	3	3	25	75		100	3
4	PCC-CSE-208G	ObjectOriented Programming	3	0	0	3	3	25	75		100	3
5	HSMC-02G	Organizational Behaviour	3	0	0	3	3	25	75		100	3
6	*MC-106G	Environmental Sciences	3	0	1	4	0	-	-	-	-	3
7	PCC-CSE-210G	Web Technologies	2	0	0	2	1	25	75		100	3
8	LC-CSE-212G	OperatingSystem LAB	0	0	4	4	2	25		25	50	3
9	LC-CSE-214G	ObjectOriented Programming LAB Using C++	0	0	4	4	2	25		25	50	3
10.	LC-CSE-216G	Web Technologies Lab	0	0	2	2	1	25		25	50	3
						Total	22				750	

*MC-106Gis a mandatory non –credit course in which the students will be required passing marks in theory.

NOTE: At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.

M. D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
Bachelor of Technology (Computer Science & Engineering)
Semester - V
'F' Scheme Effective from 2010-11

S. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-301 F	Principles of Operating System (CSE,IT)	3	1	-	4	50	100	-	150	3
2	EE-309-F	Microprocessors and Interfacing (EL,CSE,IT,EI, IC, EEE, AEI)	3	1	-	4	50	100	-	150	3
3	CSE-303-F	Computer Graphics (CSE,IT)	3	1	-	4	50	100	-	150	3
4	CSE-305-F	Theory of Automata Computation	3	1		4	50	100	-	150	3
5	CSE 307-F	Web Development (Common with IT – VI Sem)	3	1	-	4	50	100	-	150	3
6	IT-204-F	Multimedia Technologies (Common with IT- IV-Sem)	3	-	-	3	50	100	-	150	3
7	CSE-309-F	Computer Graphics Lab. (CSE,IT)	-	-	3	3	25	-	25	50	3
8	CSE-311-F	Web Development & Core JAVA Lab. (Common with 6th Sem.-IT)	-	-	2	2	25	-	25	50	3
9	IT-208-F	Multimedia Tech. Lab (Common with IT–IVSem)	-	-	2	2	25	-	25	50	3
10	EE-329-F	Microprocessors and Interfacing Lab. (EL,CSE,IT,EI, IC, EEE, AEI)	-	-	2	2	25	-	25	50	3
11.	CSE-313-F	O.S. Lab. (CSE, IT)	-	-	2	2	25	-	25	50	-
12	CSE-315-F	Practical Training-I	-	-	2	2	-	-	-	-	-
		TOTAL	18	5	13	36	425	600	125	1150	

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2. Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded „F" grade is required to repeat Practical Training.

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
Bachelor of Technology (Computer Science & Engineering)
Semester - VI
'F' Scheme Effective from 2010-11

S. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Marks of Class work	Total	Theory	Practical	Total	
1	CSE-302 F	Principles of Software Engineering (CSE,IT)	3	1	-	4	50	100	-	150	3
2	CSE-304 F	Intelligent Systems (CSE,IT)	3	1	-	4	50	100	-	150	3
3	IT-305 F	Computer Networks (CSE, EL & Common with 5 Sem. – IT, AEI)	3	1	-	4	50	100	-	150	3
4	IT-303 F	Systems Programming & System Administration (Common with 5 Sem. – IT)	3	1		4	50	100	-	150	3
5	CSE-306 F	Analysis & Design of Algorithms	3	1	-	4	50	100	-	150	3
6	EE-310-F	Digital System Design (EL,EE,CSE,EI, IC, AEI)	3	1	-	4	50	100	-	150	3
7	CSE-308 F	Intelligent Systems Lab. (CSE,IT)	-	-	3	3	25	-	25	50	3
8	EE-330-F	Digital System Design Lab. (EL,EI, IC,CSE, AEI)	-	-	3	3	25	-	25	50	3
9	CSE-310-F	Computer Network lab	-	-	2	2	25	-	25	50	3
	CSE-312-F	Visual Programming Lab.	-	-	2	2	25	-	25	50	3
9	GP-302-F	General Proficiency	-	-	-	-	50	-	-	50	3
		TOTAL	**18**	**6**	**10**	**34**	**450**	**600**	**100**	**1150**	-

Note:

1. Each student has to undergone practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.
2. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D.UNIVERSITY, ROHTAK
Scheme of Studies / Examination
Bachelor of Technology (Computer Science & Engineering)
SEMESTER VII
'F' Scheme Effective from 2012-13

Sl. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-401 F	Advanced Computer Architecture	3	1	-	4	50	100	-	150	3
2	CSE-403 F	Software Project Management (CSE,IT)	3	1	-	4	50	100	-	150	3
3	CSE-405 F	Compiler Design	3	1	-	4	50	100	-	150	3
4	CSE-407 F	Neural Networks	3	1	-	4	50	100	-	150	3
5	CSE-409 F	Advanced Java (CSE, IT)	3	1	-	4	50	100	-	150	3
6		Elective	3	1	-	4	50	100	-	150	3
7	CSE-411 F	Compiler Design Lab	-	-	2	2	25	-	50	75	3
8	CSE-413 F	Neural Networks Using MATLAB	-	-	2	2	25	-	50	75	3
9	CSE-415 F	Advanced JAVA Lab (CSE, IT)	-	-	3	3	50	--	100	150	3
10	CSE-417 F	PRATICAL TRAINING-II	-	-	-	-	-	-	-	-	-
		TOTAL	**18**	**6**	**7**	31	400	600	200	1200	

List of Electives

1.	CSE-423 F	Distributed Operating System
2.	IT-465F	Network Security & Management
3.	CSE-421 F	Real Time Systems
4.	CSE-435 F	Advanced Database Management Systems
5.	IT-467 F	Computer Software Testing
6.	IT-473 F	High Speed Networks

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. **Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva- voce and project report of the student. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech. 4th YEAR COMPUTER SC & ENGINEERING, SEMESTER- VIII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

		Subject	Internal Marks	External Marks	Total Marks
1.	CSE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ GANGA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
ELETRICAL ENGINEERING
B. Tech, 2nd year (IIIrd semester) w.e.f 2019-20

S. No.	Course Code	Course Title	Teaching Schedule			Marks of Class Work	Examination Marks		Total Marks	Credits	Duration of Examination (in hours)
			L	T	P		Theory	Practical			
1.	PCC-EE-201G	Electric Circuit Analysis	3	1	0	25	75	0	100	4	3
2.	PCC-EE-203G	Electric Circuit Analysis Laboratory	0	0	2	25	0	25	50	1	-
3.	PCC-EE-205G	Analog Electronics	3	0	0	25	75	0	100	3	3
4.	PCC-EE-207G	Analog Electronics Laboratory	0	0	2	25	0	25	50	1	-
5.	PCC-EE-209G	Electrical Machines-I	3	1	0	25	75	0	100	4	3
6.	PCC-EE-211G	Electrical Machines-I Laboratory	0	0	2	25	0	25	50	1	-
7.	PCC-EE-210G	Measurement and Instrumentation	3	0	0	25	75	0	100	3	3
8.	PCC-EE-212G	Measurement and Instrumentation Laboratory	0	0	2	25	0	25	50	1	-
9.	ESC-202-G	Engineering Mechanics	3	1	0	25	75	0	100	4	3
10.	MC-GES-106-G	Environmental Studies	3	0	1	25	75	0	100	0	3
Total									800	22	

L-Lecture, T-Tutorial, P-Practical

Note: The use of programmable devices such as programmable calculators etc. is not allowed during the exam. Sharing of materials will not be permitted during examination.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
ELECTRICAL ENGINEERING
B. Tech, 2nd year (IVth semester) w.e.f 2019-20

S. No.	Course Code	Course Title	Teaching Schedule			Marks of Class Work	Examination Marks		Total Marks	Credits	Duration of Examination (in hours)
			L	T	P		Theory	Practical			
1.	PCC-EE-202G	Digital Electronics	3	0	0	25	75	0	100	3	3
2.	PCC-EE-204G	Digital Electronics Laboratory	0	0	2	25	0	25	50	1	-
3.	PCC-EE-206G	Electrical Machines-II	3	1	0	25	75	0	100	4	3
4.	PCC-EE-208G	Electrical Machines-II Laboratory	0	0	2	25	0	25	50	1	-
5.	PCC-EE-210G	Transmission and Distribution	3	0	0	25	75	0	100	3	3
6.	PCC-EE-212G	Transmission and Distribution Laboratory	0	0	2	25	0	25	50	1	-
7.	PCC-EE-214G	Signals and Systems	3	0	0	25	75	0	100	3	3
8.	PCC-EE-216G	Electromagnetic Fields	3	1	0	25	75	0	100	4	3
9.	BSC-MATH-204G	Mathematics-III (Probability and Statistics)	3	1	0	25	75	0	100	4	3
10.		Indian Constitution	3	0	0	25	75	0	100	0	3
11.	BSC-BIO-201G	Biology-I	2	1	0	25	75	0	100	3	3
	TOTAL								850	27	

L-Lecture, T-Tutorial, P-Practical

Mandatory Course	Course Code	Course Title
		Indian Constitution
		Essence of Indian Traditional Knowledge

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination

Bachelor of Technology (Electrical Engg.)

SEMESTER V

'F ' Scheme Effective from 2011–2012

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-311-F	Electrical Machines-II (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-303-F	Electronic Measurement And Instrumentation (EE,EEE,ECE,IC)	3	1	-	4	50	100	-	150	3
EE-305-F	Analog Electronics Circuits (EE,EEE,ECE,IC)	3	1	-	4	50	100	-	150	3
EE-315-F	Power Systems-I (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-317-F	Power Electronics (EE, EEE, Common with VI sem IC)	3	1	-	4	50	100	-	150	3
EE-309-F	Microprocessors And Interfacing (EE,EEE,ECE)	3	1	-	4	50	100	-	150	3
EE-323-F	Electronic Measurement & Instrumentation Lab (EE,EEE,ECE,IC)	-	-	2	2	25	-	25	50	3
EE-321-F	Power Electronics Lab. (EE, EEE Common with VI sem , IC)	-	-	2	2	25	-	25	50	3
EE-319-F	Microprocessor & Interfacing Lab. (EE,EEE)	-	-	2	2	25	-	25	50	3
EE-327-F	Electrical Machines-II LAB. (EE, EEE)	-	-	3	3	25	-	25	50	3
EE-333-F	Practical Training-I	-	-	2	2		-	-		-
	TOTAL	**18**	**6**	**11**	**35**	**400**	**600**	**100**	**1100**	

Note:

1) **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2) **Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D UNIVERSITY,ROHTAK
SCHEME OF STUDIES AND EXAMINATION
B.Tech. III YEAR (ELECTRICAL ENGINEERING)
SEMESTER - VI
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-312-F	Power Systems –II (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-314-F	Computer Added Electric Machines Design (EE, EEE)	3	1	-	4	50	10 0	-	150	3
EE-308-F	Micro-Controller And Embeded System(EE,ECE)	3	1	-	4	50	100	-	150	3
EE-304-F	Control systems engg. (EE, EEE,ECE)	3	1	-	4	50	100	-	150	3
EE-318-F	Electric Power Generation (EE, EEE)	3	1	-	4	50	100	-	150	3
EE-310-F	Digital System Design (IC,EE,ECE,)	3	1	-	4	50	100	-	150	3
EE-324-F	Control system engg. Lab (EE, EEE,ECE)	-	-	2	2	25	-	25	50	3
EE-320-F	Micro-Controller And Embeded System LAB (EE,ECE)	-	-	2	2	25	-	25	50	3
EE-326-F	Computer Added Electric Machines Design Lab (EE, EEE)	-	-	2	2	25	-	25	50	3
EE-328-F	Power Systems Lab (EE, EEE)	-	-	2	2	25	-	25	50	3
GPEE-302-F	GENERAL PROFICIENCY	-	-	-	-	50	-	-	50	3
	TOTAL	**18**	**6**	**8**	**32**	**450**	**600**	**100**	**1150**	

Note:

1. **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.**
2. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electrical Engg.)

SEMESTER VII

F ' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-403-F	Electric Drives And Control	3	1	-	4	50	100	-	150	3
ECE-409-F	Digital Signal Processing	3	1	-	4	50	100	-	150	3
EE-405-F	Power System Operation And Control	3	1	-	4	50	100	-	150	3
	*Open Elective	3	1	-	4	50	100	-	150	3
	*Dept Elective	3	1	-	4	50	100	-	150	3
EE-409-F	Computer Applications To Power System Analysis	3	1	-	4	50	100	-	150	3
EE-413-F	Electric Drives And Control Lab.			3	3	50	-	50	100	3
ECE-429-F	Digital Signal Processing Lab	-	-	2	2	25	-	25	50	3
EE-419-F	Computer Applications To Power System Analysis Lab.	-	-	3	3	50	-	50	100	3
GFEE-401-F	General Fitness For The Profession	-	-	-	-		-	50	50	3
EE-401-F	Practical Training – II	-	-	-	-	-	-		-	-
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**175**	**1200**	

List of Open Electives

1.	HUM-451-F	Language Skills for Engineers
2.	HUM-453-F	Human Resource Management
3.	HUM-459-F	Renewable Energy Resources and Technology
4.	ME-451-F	Mechatronics Systems
5.	IC-455-F	Intelligent Instrumentation for Engineers
6.	OR-401-F	Operations Research

List of Dept Electives

1. EHV AC/DC (EE-432-F)
2. Fuzzy Logic Control (IC-404-F)
3. Recent Trends in De-regulated Power Systems (EE-438-F)
4. High Voltage Engineering (EE-442-F)
5. Electrical Power Quality (EE-444-F)
6. Power Management (EE-450-F)

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAHLANA ★ DIRECTOR

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. ***Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.**
4. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student from the industry. According to performance, letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination

B. Tech. (Electrical Engg.)

SEMESTER VIII

F ' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Sr. No	Course No	Subject	Internal Marks	External Marks	Total Marks
1.	EE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-III

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	Practical	
1	MTEPS301	Elective – III	3	1	0	50	100	-	150
2	MTEPS302	Elective – IV	3	1	0	50	100	-	150
3	MTEPS303	Seminar			2	50	-	50	100
4	MTEPS304	Dissertation-Phase I	0	0	4	150	-	-	150
		Grand Total	6	2	6	300	200	50	550

NOTE:

1. The paper setter shall set each theory paper of 100 marks covering entire syllabus. However the examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A^+ , A,B,C,D & E. The examination of practical courses shall also be evaluated on the basis of these grades.
2. The sessionals of theory , practical and Seminar courses shall also be evaluated in the basis of these grades.
3. The choice of student for any elective shall not be binding on the department to offer it.
4. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-IV

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	E.VIVA	
1	MTEPS401	Dissertation Final Phase	0	0	20	200	-	400	600
		Total			20	200	-	400	600

NOTE:

1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e A^+, A,B,C,D & E.
2. The Dissertation shall be evaluated by an examination committee consisting of the head of the department, Dissertation Supervisor and one External examiner. The evaluation should be based on above grades.
3. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.TECH (Electronics and Communication Engineering)

Common with

B.Tech (Electronics and Tele Communication)

SEMESTER –3rd w.e.f. 2019-20

S. No.	Course No.	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credit	Duration of Exam	Contact Hrs./wk.
			L	T	P		Theory	Practical				
1	PCC-ECE201G	Electronic Devices	3	0	-	25	75	-	100	3	3	3
2	LC-ECE203G	Electronic Devices lab	0	0	2	25	-	25	50	1	3	2
3	PCC-ECE206G	Analog Circuits	3	0	-	25	75	-	100	3	3	3
4	LC-ECE208G	Analog Circuits lab	0	0	2	25	-	25	50	1	3	2
5	PCC-ECE209G	Signals and Systems	3	0	-	25	75	-	100	3	3	3
6	PCC-ECE211G	Network Theory	3	1	-	25	75	-	100	3	3	3
7	LC-ECE-212G	Network Theory Lab	0	0	2	25	-	25	50	1	3	2
8	LC-ECE-213G	PCB & ELECTRONIC WORKSHOP LAB	0	0	2	25	-	25	50	1	3	2
9	HSMC-01G	Economics for Engineers (Common with CSE)	3	0	0	25	75	-	100	3	3	3
10	*MC-106G	Environmental Science	3	0	1	25	75	-	-	-	3	4
Total									**700**	**19**		27

***MC-106G** is a mandatory non –credit course in which the students will be required passing marks in theory.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS
B.TECH (Electronics and Communication Engineering)
Common with
B.Tech (Electronics and Tele Communication)
SEMESTER –4th w.e.f. 2019-20

S. No.	Course No.	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credit	Duration of Exam	Contact Hrs./wk.
			L	T	P		Theory	Practical				
1	PCC-ECE202G	Communication System	3	0	-	25	75	-	100	3	3	3
2	LC-ECE204G	Communication System lab	0	0	2	25	-	25	50	1	3	2
3	PCC-ECE205G	Digital Electronics	3	1	-	25	75	-	100	3	3	4
4	LC-ECE207G	Digital Electronics lab	0	0	2	25	-	25	50	1	3	2
5	PCC-ECE210G	Microcontrollers	3	1	-	25	75	-	100	3	3	4
6	LC-ECE-214G	Microcontrollers Lab	0	0	2	25	-	25	50	1	3	2
7	HSMC-02G	Organizational Behavior	3	0	0	25	75	-	100	3	3	3
8	BSC-MATH-202G	Mathematics-III (Partial differential equations and Numerical methods)	3	1	-	25	75	-	100	4	3	4
9	PCC-CSE-221G	Data Structures	3	0	0	25	75	-	100	3	3	3
Total									**750**	**22**		27

NOTE: At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
BTech. III YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER V
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-301-F	COMMUNICATION Engg.	3	1	-	4	50	100	-	150	3
EE-303-F	ELECTRONIC MEASUREMENT & INSTRUMENTATION (EL,EI,IC,EE,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-305-F	ANALOG ELECTRONIC CIRCUITS (EL,EI,IC,EE,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-307-F	ANTENNAS,WAVE PROPAGATION& TV Engg.	3	1	-	4	50	100	-	150	3
CSE-210-F	COMPUTER ARCHITECTURE AND ORGANISATION (EL,EI,IC,Common with IV sem. CSE,IT)	3	1	-	4	50	100	-	150	3
EE-309-F	MICROPROCESSORS AND INTERFACING (EL,EI,IC,CSE,IT,EEE,AEI)	3	1	-	4	50	100	-	150	3
EE-323-F	ELECTRONIC MEASUREMENT & INSTRUMENTATION LAB (EL,EI,IC,EE)	-	-	2	2	25	-	25	50	3
EE-325-F	ANALOG ELECTRONIC CIRCUITS LAB (EL,EI,IC)	-	-	2	2	25	-	25	50	3
EE-329-F	MICROPROCESSORS AND INTERFACING LAB (EL,EI,IC,CSE,IT,EEE,AEI)	-	-	2	2	25	-	25	50	3
EE-335-F	PRACTICAL TRAINING		-	2	2		-			
GPECE301-F	GERNERAL PROFICIENCY					50			50	3
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**75**	**1100**	

Note:

1) **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2) **Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D UNIVERSITY,ROHTAK
SCHEME OF STUDIES AND EXAMINATION
B.Tech. III YEAR (ELECTRONICS & COMMUNICATION ENGINEERING)
SEMESTER - VI
Modified 'F' Scheme effective from 2011-12

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-302-F	MICROWAVE AND RADAR ENGINEERING	3	1	-	4	50	100	-	150	3
EE-304--F	CONTROL SYTEMS ENGG. (EL,EE, EEE)	3	1	-	4	50	100	-	150	3
EE-306-F	VLSI Design	3	1	-	4	50	100	-	150	3
IT-305-F	COMPUTER NETWORKS	3	1	-	4	50	100	-	150	3
EE-310-F	DIGITAL SYSTEM DESIGN (EL,EI, IC,EE,CSE, AEI)	3	1	-	4	50	100	-	150	3
EE-308-F	MICROCONTROLLER & EMBEDDED SYSTEM	3	1	-	4	50	100	-	150	3
EE-328-F	MICROCONTROLLER & EMBEDDED SYSTEM LAB	-	-	2	2	25	-	25	50	3
EE-326-F	DIGITAL SYSTEM DESIGN LAB (EL,EI, IC,EE,CSE, AEI)	-	-	2	2	25	-	25	50	3
EE-322-F	MICROWAVE AND RADAR LAB	-	-	2	2	25	-	25	50	3
EE-324-F	CONTROL SYTEMS ENGG. LAB (EL,EE, EEE,AEI)		-	2	2	25	-	25	50	3
	TOTAL	**18**	**6**	**8**	**32**	**400**	**600**	**100**	**1100**	

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.**
2. **Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electronics and Communication Engg.)

SEMESTER VII

F ' Scheme Effective from 2012–2013

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ECE-405-F	WIRELESS COMMUNICATION	3	1	-	4	50	100	-	150	3
ECE-403-F	SATELITE COMMUNICATION ENGINEERING	3	1	-	4	50	100	-	150	3
ECE-407-F	DATA COMMUNICATION	3	1	-	4	50	100	-	150	3
ECE-415-F	OPTICAL COMMUNICATION SYSTEMS	3	1	-	4	50	100	-	150	3
	*Dept Elective-I	3	1	-	4	50	100	-	150	3
ECE-409-F	Digital Signal Processing	3	1	-	4	50	100	-	150	3
ECE-423-F	Wireless & Satellite Communication Lab			3	3	50	-	50	100	3
ECE-427-F	Digital Signal Processing Lab	-	-	2	2	25	-	25	50	3
ECE-429-F	Data Communication Lab	-	-	3	3	50	-	50	100	3
GFEE-401-F	General Fitness For The Profession	-	-	-	-		-	50	50	3
ECE-404-F	Practical Training II									
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**175**	**1200**	

List of Dept Electives-I

ECE-419-F	Mobile Communication
ECE-461-F	Genetic Algorithms & Applications
ECE-453-F	Radar and Sonar Engg.
ECE-411-F	Wireless Sensor Network
ECE-413-F	Fuzzy Control System

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. ***Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.**

NOTE:-

1. Assessment of Practical Training-II, (ECE-404F) carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student from the industry. According to performance letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electronics and Communication Engg.)

SEMESTER VIII

F ' Scheme Effective from 2012–2013

Training of Six Months

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ECE-402-F	Industrial Training /Institutional Project work	-	-	8	8	150	-	150	300	-
	Total			8	8					

Note:

1. **The students are required to undergo Industrial Training or Institutional Project work of duration not less than 4 months in a reputed organization or concerned institute. The student who wish to undergo industrial training, the industry chosen for should be a private limited company.**
2. **The final Viva-voca of the industrial training or Institutional Project work will be conducted by the external examiner and one internal examiner appointed by the institute. External examiner will be from penal of examiner.**
   Assessment of traing or project will be based on Seminar, viva-voca, report and certificate of Industrial Training or Institutional project work.
3. **The internal marks distribution for students who have undergone Industrial training consist of 50 marks from the Industry concern and 100 Marks by the committee members consisting of faculty members of concerned department of the present institute.**
4. **The teacher engaged for institutional project work shall have a workload of 2 hours per group (at least 4 students per work)**

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Examination for Semester III (Second Year)

B.TECH (FIRE TECHNOLOGY AND SAFETY) w.e.f. 2019-20

SN	Category	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Mark of Class work	TH	Pr	Total	
1	Basic Science Course	BSC-FT-201G	Mathematics-III	3	1	0	4	4	25	75		100	3
2	Professional Core Courses	PCC-FT-203G	Basics of Fire Science	3	0	0	3	3	25	75		100	3
3	Professional Core Courses	PCC-FT-205G	Fire Service Hydraulics-I	3	1	0	4	4	25	75		100	3
4	Engineering Science Course	ESC-FT-207G	Basics of Thermal Engineering	3	1	0	4	4	25	75		100	3
5	Professional Core Courses	PCC-FT-209G	Automobile Safety	3	1	0	4	4	25	75		100	3
6	Professional Core Courses	PCC-FT-211G	Fire Protection Workshop	0	0	2	2	1	25		25	50	3
7	Professional Core Courses	PCC-FT-213G	Automobile Safety Lab	0	0	2	2	1	25		25	50	3
8	Engineering Science Course	ESC-FT-215G	Basics Thermal Engineering Lab	0	0	2	2	1	25		25	50	3
9	Training	PT-FT-217 G	Fire Ground Operation-I	0	0	2	2	1	25		25	50	3
							TOTAL CREDIT	23				700	

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Examination for Semester IV (Second Year)

B.TECH (FIRE TECHNOLOGY AND SAFETY) w.e.f. 2019-20

SN	Category	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Marks of Class work	TH	Pr	Total	
1	Humanities and Social science including Management courses	HSMC-FT-202G	Principles of Management & Organisation Behaviour	3	0	0	3	3	25	75		100	3
2	Engineering Science Course	ESC-FT-204G	Basics of Safety Engineering	3	0	0	3	3	25	75		100	3
3	Professional Core Courses	PCC-FT-206G	First Aid & Paramedics	3	1	0	4	4	25	75		100	3
4	Professional Core Courses	PCC-FT-208G	Fire Service Hydraulics-II	3	1	0	4	4	25	75		100	3
5	Professional Core Courses	PCC-FT-210G	Safety in Construction	3	1	0	4	4	25	75		100	3
6	Professional Core Courses	PCC-FT-212G	First Aid & Paramedics Lab	0	0	2	2	1	25		25	50	3
7	Professional Core Courses	PCC-FT-214G	Fire Service Hydraulics Lab	0	0	2	2	1	25		25	50	3
8	Training	PT -FT-216 G	Fire Ground Operation-II	0	0	2	2	1	25		25	50	3
9	Mandatory Course	*MC-106 G	Environmental Science	3	0	1			25	75			4
							TOTAL CREDIT	21				650	

Abbreviations: TH- Theory , PR- Practical

MC-106 G is a mandatory non –credit course in which the students will be required passing marks in theory.

NOTE: At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS

B.Tech 3rd YEAR (FIRE TECHNOLOGY AND SAFETY)

5th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 301F	Rescue Equipments and Techniques	3	1	-	4	50	100	-	150	3
FT 303 F	Building Design and Drawing	3	1	-	4	50	100	-	150	3
FT 305 F	Salvage Evaluation of Fire Situation	3	1	-	4	50	100	-	150	3
FT 307 F	Environmental Engineering and Management	3	1	-	4	50	100	-	150	3
FT 309 F	Fire Prevention and Protection Measures	3	1	-	4	50	100	-	150	3
FT 311 F	Nuclear Safety and Radioactive Materials	3	1	-	4	50	100	-	150	3
FT 313 F	Environmental Engineering Lab	-	-	2	2	25	-	25	50	3
FT 315 F	Field Training in Fire Rescue	-	-	2	2	25	-	25	50	3
FT 317 F	AutoCAD and Fire Software Lab	-	-	2	2	25	-	25	50	3
FT 319F	Engineering Workshop Practice	-	-	2	2	25	-	25	50	3
	Total	18	6	8	32	400	600	100	1100	

Note:-

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.

2. Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS

B.Tech 3rd YEAR (FIRE TECHNOLOGY AND SAFETY)

6th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 302F	Legal Aspect of Safety, Health and Environment	3	1	-	4	50	100	-	150	3
FT 304F	Fire Safety Codes and Standardization	3	1	-	4	50	100	-	150	3
FT 306F	Fire Fighting & Safety Equipments	3	1	-	4	50	100	-	150	3
FT 308F	Identification and Risk Assesmant	3	1	-	4	50	100	-	150	3
FT 310F	Applied Numerical Technique and Computing	3	1	-	4	50	100	-	150	3
FT 312F	Heat Transfer, Combustion and Explosives	3	1	-	4	50	100	-	150	3
FT 314F	Field Training Rescue (Chemical Hazards)	-	-	2	2	25	-	25	50	3
FT 316F	Applied Numerical Technique and Computing Lab	-	-	2	2	25	-	25	50	3
FT 318F	Heat Transfer, Combustion and Explosives Lab	-	-	2	2	25	-	25	50	3
FT 320 F	Industrial Hygiene Lab	-	-	2	2	25	-	25	50	3
FT 322F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	18	6	10	34	450	600	100	1150	

Note:-

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech 4th YEAR FIRE TECHNOLOGY & SAFETY,

7th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 401 F	Safety and Risk Management	3	1	-	4	50	100	-	150	3
FT 403 F	Industrial Engineering	3	1	-	4	50	100	-	150	3
FT 405 F	Operational Research	3	1	-	4	50	100	-	150	3
FT 407 F	Disaster Management	3	1	-	4	50	100	-	150	3
FT 409 F	Fire Fighting Installation and Automation	3	1	-	4	50	100	-	150	3
--------	Dept. Elective	3	1	-	4	50	100	-	150	3
FT 411 F	Fire Fighting Installation and Automation Lab	-	-	2	2	50	-	50	100	3
FT 413 F	Squad Drill	-	-	2	2	50	-	50	100	3
	Total	18	6	4	28	400	600	100	1100	-

Dept. Elective:

1. FT 417 F Process Instrumentation and Control Engineering
2. FT 419 F Automobile Engineering and Safety.
3. FT 421 F Advanced Safety Engineering and Management.
4. FT 423 F Environmental Protection and Waste Management.
5. FT 425 F Human Factor Engineering.
6. FT 427 F Simulation and Process Modeling
7. FT 429 F Total Quality management
8. FT 431 F Safety in Health Care waste Management
9. FT 433 F Safety in Construction

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech 4th YEAR FIRE TECHNOLOGY & SAFETY, 8th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Sl. No.	Course No.	Subject	Internal Marks	External Marks	Total Marks
1.	FT- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engineering and Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Examination for Semester III (Second Year)

B.Tech (MECHANICAL ENGINEERING)w.e.f. 2019-20

Sr. No.	Category Course Notation	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Mark of Class work	Theory	Practical	Total	
1	Basic Science course	BSC-ME-201G	Physics II(Optics & Waves)	3	0	0	3	3	25	75		100	3
2	Basic Science course	BSC-ME-203G	Mathematics-III	3	1	0	4	4	25	75		100	3
3.	Basic Science course	BSC-BIO-205G	Biology	2	1	0	3	3	25	75		100	3
4.	Engineering Science course	ESC-ECE-207G	Basics of Electronics Engg.	2	0	0	2	2	25	75		100	3
5.	Engineering Science course	ESC-ME-209G	Engineering Mechanics	3	0	0	3	3	25	75		100	3
6.	Engineering Science course	ESC-ME-211G	Basics of Mechanical Engg.	2	0	0	2	2	25	75		100	3
7.	Professional Core courses	PCC-ME-213G	Thermodynamics	3	1	0	4	4	25	75		100	3
8.	Engineering Science course	LC-ME-215G	Basics of MechanicalEngg. lab	0	0	2	2	1	25		25	50	3
							TOTAL CREDIT	**22**				**750**	

INSTITUTE OF TECHNOLOGY & MANAGEMENT
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Examination for Semester IV (Second Year)

B.Tech.(MECHANICAL ENGINEERING)w.e.f. 2019-20

Sr. No.	Category Course Notation	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Mark of Class work	Theory	Practical	Total	
1	Professional Core courses	PCC-ME-202G	Applied Thermodynamics	3	1	0	4	4	25	75		100	3
2	Professional Core courses	PCC- ME-204G	Fluid Mechanics	3	1	0	4	4	25	75		100	3
3	Professional Core courses	PCC- ME-206G	Strength of materials	3	1	0	4	4	25	75		100	3
4	Professional Core courses	PCC- ME-208G	Materials Engineering	3	0	0	3	3	25	75		100	3
5	Professional Core courses	PCC- ME-210G	Instrumentation & Control	3	0	0	3	3	25	75		100	3
6	Professional Core courses	LC- ME-212G	Applied Thermodynamics Lab	0	0	2	2	1	25		25	50	3
7	Professional Core courses	LC- ME-214G	SOM Lab	0	0	2	2	1	25		25	50	3
8	Professional Core courses	LC- ME-216G	Fluid Mechanics Lab	0	0	2	2	1	25		25	50	3
9	Professional Core courses	LC- ME-218G	Materials Lab	0	0	2	2	1	25		25	50	3
10	Professional Core courses	LC- ME-220G	Instrumentation Lab	0	0	2	2	1	25		25	50	3
11	Mandatory course	*MC-106G	Environment Science	3	0	1	-		25	75		-	4
			TOTAL CREDIT					**23**				**750**	

*MC-106Gis a mandatory non –credit course in which the students will be required passing marks in theory.

NOTE: At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR MECHANICAL ENGINEERING, SEMESTER- V
Proposed "F" Scheme effective from 2011-12

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-301-F	Dynamics Of Machines	3	1	-	4	50	100	-	150	3
ME-303-F	Mechanical Machine Design-1	3	2	-	5	50	100	-	150	4
ME-305-F	Fluid Machine	3	1	-	4	50	100	-	150	3
ME-307-F	Internal Combustion Engines & Gas Turbines	3	1	-	4	50	100	-	150	3
ME-309-F	Manufacturing Technology –II	3	1	-	4	50	100	-	150	3
ME-311-F	Applied Numerical Technique & Computing	3	-	-	3	50	100	-	150	3
ME-313-F	Dynamics Of Mechanics Lab	-	-	2	2	25	-	25	50	3
ME-315-F	Fluid Machine Lab	-	-	2	2	25	-	25	50	3
ME-317-F	Internal Combustion Engines & Gas Turbines Lab	-	-	2	2	25	-	25	50	3
ME-319-F	Manufacturing Technology –II Lab	-	-	2	2	25	-	25	50	3
ME-321-F	Applied Numerical Technique & Computing Lab	-	-	2	2	50	-	-	50	-
ME-323-F	Practical Training Viva-Voce	-	-	2	2	-	-	-	-	-
	Total	18	6	12	36	450	600	100	1150	

Note:

1) Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.
2) Assessment of Practical Training-I, undergone at the end of IV semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 3rd YEAR MECHANICAL ENGINEERING, SEMESTER- VI
Proposed "F" Scheme effective from 2011-12

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-302-F	Automobile Engineering	3	1	-	4	50	100	-	150	3
ME-304-F	Mechanical Machine Design-II	3	2	-	5	50	100	-	150	4
ME-306-F	Heat Transfer	3	1	-	4	50	100	-	150	3
ME-308-F	Automatic Control	3	1	-	4	50	100	-	150	3
ME-310-F	Measurement & instrumentation	3	1	-	4	50	100	-	150	3
ME-312-F	Industrial Engineering	3	1	-	4	50	100	-	150	3
ME-314-F	Automobile Engineering Lab	-	-	2	2	25	-	25	50	3
ME-316-F	Heat Transfer Lab	-	-	2	2	25	-	25	25	3
ME-318-F	Measurement & instrumentation Lab	-	-	2	2	25	-	25	25	3
ME-320-F	General Proficiency	-	-	2	2	50	-	-	50	-
	Total	18	7	8	33	450	600	100	1050	

NOTE:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER- VII
(Scheme-F)
EFFECTIVE FROM THE SESSION 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-401-F	Strength of Material-II	3	1	-	4	50	100	-	150	3
ME-403-F	Refrigeration & Air-Conditioning	3	1	-	4	50	100	-	150	3
ME-405-F	Operation Research	3	1	-	4	50	100	-	150	3
ME-407-F	Power Plant Engineering	3	1	-	4	50	100	-	150	3
ME-409-F	Mechanical Vibration	3	1	-	4	50	100	-	150	3
----------	Elective	3	1	-	4	50	100	-	150	3
ME-411-F	Refrigeration & Air-Conditioning Lab	-	-	2	2	50	-	50	100	3
ME-413-F	Advanced CAD/CAM Lab	-	-	2	2	50	-	100	150	3
ME-415-F	Practical Training-II	-	-	2	2	-	-	-	-	-
GFME-435-F	General Fitness for the Profession	-	-	-	-	-	-	50	50	3
	Total	18	6	6	30	400	600	200	1200	

LIST OF ELECTIVES

S.NO.	SUBJECT CODE	DEPTT. ELECTIVE
1.	ME-417-F	QUALITY ENGINEERING
2.	ME 419-F	FINITE ELEMENT METHODS
3.	ME-421-F	ENERGY MANAGEMENT PRINCIPLES
4.	ME- 425-F	COMPUTER INTEGRATED MANUFACTURING
5.	ME- 429-F	RELIABILITY ENGINEERING
6.	ME-431-F	SOLAR ENERGY ENGINEERING

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER- VIII
(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

Sl. No.	Course No.	Subject	Internal Marks	External Marks	Total Marks
1.	ME- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

SECOND YEAR

Third Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN301	Cost and Management Accounting	80	20	-	100
BBAN302	Marketing Management	80	20	-	100
BBAN303	Capital Markets	80	20	-	100
BBAN304	Introduction to Information Technology	50	-	50	100
BBAN305	Environment Studies	80	20	-	100
BBAN306	Disaster Management	80	20	-	100
	TOTAL				600

Fourth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN401	Financial Management	80	20	-	100
BBAN402	Human Resource Management	80	20	-	100
BBAN403	Business Research Methods	80	20	-	100
BBAN404	Business Laws	80	20	-	100
BBAN405	Data Base Management System	50	-	50	100
BBAN406	Human Rights and Values	80	20	-	100
	TOTAL				600

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

THIRD YEAR

Fifth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN501	Production and Materials Management	80	20	-	100
BBAN502	Company Law	80	20	-	100
BBAN503	Indian Business Environment	80	20	-	100
BBAN504	Computer Networking & Internet	50	-	50	100
BBAN505	Presentation Skills and Personality Development	80	20	-	100
BBAN506	Cyber Security	80	20	-	100
BBAN507	Summer Training Report	100	-	-	100
	TOTAL				700

Sixth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN601	Income Tax	80	20	-	100
BBAN602	System Analysis & Design	80	20	-	100
BBAN603	Foundations of International Business	80	20	-	100
BBAN604	Consumer Protection	80	20	-	100
BBAN605	E-Commerce	50	-	50	100
BBAN606	Project Report	100	-	-	100
BBAN607	Comprehensive Viva-voce	100	-	-	100
	TOTAL				700

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT ★ HARYANA ★ DIRECTOR

M.D. UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 1st
CBCS Scheme effective from 2016-17

Sr. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours/ week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16CSE21C1	Data Communication and Computer Networks	4	0	-	4	50	100	-	150	3	4
2	16CSE21C2	Advanced Operating Systems	4	0	-	4	50	100	-	150	3	4
3	16CSE21C3	Advanced Database Management System	4	0	-	4	50	100	-	150	3	4
4	16CSE21C4	Data Warehouse and Mining	4	0	-	4	50	100	-	150	3	4
5	16CSE21C5	Mathematical Foundation of Computer Science	4	0	-	4	50	100	-	150	3	4
6	16CSE21C6	Seminar	-		-	2	50	-	-	50		2
7	16CSE21CL1	Advanced Operating Systems Lab	-	-	2	2	50	-	50	100	3	2
8	16CSE21CL2	Advanced Database Management System Lab	-	-	2	2	50	-	50	100	3	2
		TOTAL	26									

NOTE:

Examiner will set nine question in total. Question one will be compulsory and will comprises of all section and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D. UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 2nd
CBCS Scheme effective from 2016-17

Sr. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours /week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16CSE22C1	Soft Computing	4	0	-	4	50	100	-	150	3	4
2	16CSE22C2	Algorithm Design	4	0	-	4	50	100	-	150	3	4
3	16CSE22C3	Seminar	-		2	2	50	-	-	50	-	2
4	16CSE22CL1	Soft Computing Lab	-	-	2	2	50	-	50	100	3	2
5	16CSE22CL2	Algorithm Design Lab	-	-	2	2	50	-	50	100	3	2
6	16CSE22D1 or 16CSE22D2 or 16CSE22D3 or 16CSE22D4	Elective-1	4	0	-	4	50	100	-	150	3	4
7		Open Elective				3						3
8		Foundation Elective				2						2
			23									

NOTE: Examiner will set nine question in total. Question One will be compulsory and will comprises of all section and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective 1 : Choose any one from the following papers

16CSE22D1 Mobile and Wireless Communication
16CSE22D2 Optimization Techniques
16CSE22D3 Discrete Mathematics
16CSE22D4 Internet and Web Development

Elective 2

A candidate has to select this paper from the pool of Open Electives provided by the University

Elective 3

A candidate has to select this paper from the pool of Foundation Electives provided by the University.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 3rd
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours/ week
			L	T	P	Total credits	Marks of Class works	Theory	Practical	Total		
1	17CSE23C1	Knowledge Based System	4	0	-	4	50	100	-	150	3	4
2	17CSE23C2	Network Security	4	0	-	4	50	100	-	150	3	4
3	17CSE23C3	Literature Survey (Dissertation Stage 1)	-	-	2	2	100	-	-	100		4
4	17CSE23C4	Seminar	-		2	2	50	-	-	50		2
5	17CSE23CL1	Knowledge Based System Lab	-	-	2	2	50	-	50	100		2
6	17CSE23CL2	Project	-	-	2	2	50	-	50	100		2
7		Open Elective				3						
		TOTAL	**21**									

NOTE:
Examiner will set nine questions in total. Question One will be compulsory and will comprises of all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

OPEN ELECTIVE
A candidate has to select this paper from the pool of open electives provided by the University.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 4th
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
1.	17CSE24C1	Dissertation and viva (Dissertation Stage 2)	-	-	-	-	250	-	500	750	**20**
		TOTAL	-	-	-	-					

NOTE:

1. **Students have to publish a research paper in a journal / conference of the research work done in the semester.**

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY

(CYBER FORENSICS AND INFORMATION SECURITY)

SEMESTER-III

EFFECTIVE FROM 2013-14

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTCF 301	Preserving & Recovering Digital Evidence	4	-	-	50	100	150	3
MTCF 302	Cyber Laws & Security Policy	4	-	-	50	100	150	3
	Elective-III	4	-	-	50	100	150	3
MTCF 307	Dissertation Phase 1	-	-	8	100	-	100	3
MTCF 308	Seminar & Technical Writing	-	-	2	50	-	50	-
TOTAL		12	-	10	300	300	600	

Elective- III

MTCF 303- Biometric Security
MTCF 304- Applied Cryptography
MTCF 305- Distributed Systems Security
MTCF 306- Secure Software Engineering

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY

(CYBER FORENSICS AND INFORMATION SECURITY)

SEMESTER-IV

EFFECTIVE FROM 2013-14

Course No.	Course Title	Teaching Schedule			Marks		Total
		L	T	P	Sessional	Exam.	
MTCF 401	Dissertation Phase- II	-	-	24	200	400	600
	Total		-	24	200	400	600

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-III

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	Practical	
1	MTEPS301	Elective – III	3	1	0	50	100	-	150
2	MTEPS302	Elective – IV	3	1	0	50	100	-	150
3	MTEPS303	Seminar			2	50	-	50	100
4	MTEPS304	Dissertation-Phase I	0	0	4	150	-	-	150
		Grand Total	6	2	6	300	200	50	550

NOTE:

1. The paper setter shall set each theory paper of 100 marks covering entire syllabus. However the examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A^+ , A,B,C,D & E. The examination of practical courses shall also be evaluated on the basis of these grades.
2. The sessionals of theory , practical and Seminar courses shall also be evaluated in the basis of these grades.
3. The choice of student for any elective shall not be binding on the department to offer it.
4. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-IV

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	E.VIVA	
1	MTEPS401	Dissertation Final Phase	0	0	20	200	-	400	600
		Total			20	200	-	400	600

NOTE:

1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e A^+, A,B,C,D & E.
2. The Dissertation shall be evaluated by an examination committee consisting of the head of the department, Dissertation Supervisor and one External examiner. The evaluation should be based on above grades.
3. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 1
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours /week
			L	T	P	Total Credits	Marks of Class work	Theory	Practical	Total		
1	16ECE21C1	Advance Microprocessor & Microcontroller	4	0	-	4	50	100	-	150	3	4
2	16ECE21C2	Satellite and Space Communication	4	0	-	4	50	100	-	150	3	4
3	16ECE21C3	Information and Communication Theory	4	0	-	4	50	100	-	150	3	4
4	16ECE21C4	Advanced Digital Signal Processing	4	0	-	4	50	100	-	150	3	4
5	16ECE21C5	Data Communication Networks	4	0	-	4	50	100	-	150	3	4
6	16ECE21C6	Seminar	-		-	2	50	-	-	50		2
7	16ECE21CL1	Satellite Lab	-	-	2	2	50	-	50	100	3	4
8	16ECE21CL2	Advance Microprocessor & Microcontroller Lab	-	-	2	2	50	-	50	100	3	4
		TOTAL	26									

NOTE:

Examiner will set nine question in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (ELECTRONICS & COMMUNICATION) SEMESTER 2
CBCS Scheme effective from 2016-17

Sl. No	Course No.	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total	
1	16ECE22C1	Wireless Mobile Communication	4	0	-	4	50	100	-	150	3
2	16ECE22C2	Optical Communication	4	0	-	4	50	100	-	150	3
3	16ECE22C3	Seminar	-		-	2	50	-	-	50	
4	16ECE22CL1	VLSI Lab	-	-	2	2	50	-	50	100	3
5	16ECE22CL2	Optical Communication Lab	-	-	2	2	50	-	50	100	3
6	16ECE22D1 or 16ECE22D2 or 16ECE22D3 or 16ECE22D4	Elective-1	4	0	-	4	50	100	-	150	3
7		Open Elective				3					
8		Foundation Elective				2					
		TOTAL				23					

NOTE: Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective 1 : Choose any one from the following four papers:

16ECE22D1 - Electronic System Design
16ECE22D2 - Image Processing
16ECE22D3 - ADVANCED MATHEMATICS FOR ENGINEERS
16ECE22D4 - VLSI Design

Open Elective: A candidate has to select this paper from the pool of Open Electives provided by the University.

Foundation Elective: A candidate has to select this paper from the pool of Foundation Electives provided by the University.

M.DUNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 3rd
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total		
1	17ECE23C1	Neural Networks & Fuzzy Logics	4	0	-	4	50	100	-	150	3	4
2	17ECE23C2	CDMA	4	0	-	4	50	100	-	150	3	4
3	17ECE23C3	DISSERTATION (PHASE-I)	-	-	-	4	100	-	-	100		2
4	17ECE23C4	Seminar	-	-	-	2	50	-	-	50		2
5	17ECE23CL1	Project	-	-	2	2	50	-	50	100		2
6	17ECE23CL2	MATLAB Lab	-	-	2	2	50	-	50	100		2
7		OPEN ELECTIVE										3
		TOTAL										**21**

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.**
2. **Students have to publish a research paper in a journal / conference on the basis of literature survey done in the semester.**

OPEN ELECTIVE: A candidate has to select this paper from the pool of open electives provided by the University.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 4th
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
	17ECE24C1	Dissertation and viva	-	-	-	-	250	-	500	750	20
		TOTAL	-	-	-	-	**250**	-	**500**	**750**	
		GRAND TOTAL									

NOTE:

1. **Students have to publish a research paper in a journal / conference of the research work done in the semester.**

M. TECH. MECHANICAL ENGINEERING (MACHINE DESIGN)
COURSE SCHEME and DETAILED SYLLABUS

Semesterwise Course Scheme

FIRST SEMESTER

	Subject Code	Subject	Credit	L-T-P	Marks Weightage Theory	Sessional	Grand total
1.	M801A	Numerical Analysis and Optimization	3	3-0-0	100	50	
2.	M803A	Instrumentation and Measurement	3	3-0-0	100	50	
3.	M805A	Experimental Stress Analysis	3	3-0-0	100	50	
4.	M807A	Metal Forming Analysis	3	3-0-0	100	50	
5.	M809A	Mechatronics and Product Design	3	3-0-0	100	50	
					Ext.	**Int.**	
6.	M811A	Experimental Stress Analysis Lab	1	0-0-2	25	25	
7.	M813A	Mechanical Measurement Lab	1	0-0-2	25	25	
8.	M815A	Computational Lab	1	0-0-2	25	25	
		Total	**18**	**15-0-6**	**575**	**325**	**900**

SECOND SEMESTER

9.	M802A	Theory of Elasticity	3	3-0-0	100	50	
10.	M804A	Design of Mechanisms	3	3-0-0	100	50	
11.	M806A	Principles of Machine Design	3	3-0-0	100	50	
12.		General Elective – I	3	3-0-0	100	50	
13.		General Elective – II	3	3-0-0	100	50	
					Ext.	**Int.**	
14.	M812A	Seminar	1	0-0-2	25	25	
15.	M814A	CAD/CAM Lab	1	0-0-2	25	25	
16.	M816A	Design Practice Lab – I	1	0-0-2	25	25	
		Total	**18**	**15-0-6**	**575**	**325**	**900**

THIRD SEMESTER

17.	M821A	Mechanical Behavior of Materials	3	3-0-0	100	50	
18.	M823A	Mechanical Vibrations	3	3-0-0	100	50	
19.	M825A	General Elective III	3	3-0-0	100	50	
					Ext.	**Int.**	
20.	M827A	Design Practice Lab II	1	0-0-2	25	25	
21.	M829A	Materials Behavior and Vibration Lab	1	0-0-2	25	25	
22.	M831A	Minor Project	5	0-0-10	150	100	
		Total	**16**	**9-0-14**	**500**	**300**	**800**

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT ★ KABLANA
DIRECTOR

SEMESTER IV

Subject Code	Subject	Credit	L-T-P	Marks Weightage Ext.	Int.	
23. M822A	Dissertation	12	0-0-24	400	200	
	Total	**12**	**0-0-24**	**400**	**200**	**600**

ELECTIVES I

1. M837 Design of Bearings and Shaft
2. M838 Computer Aided Design
3. M839 Design of Pollution Control Equipments
4. M840 Design of Pressure Vessels

ELECTIVES II

1. M845 Fracture Mechanics
2. M846 Design and Metallurgy of Welded Joints
3. M847 Finite Element Methods
4. M848 Materials Management

ELECTIVE III

1. M849 Total Quality Management
2. M850 Robotic Engineering
3. M851 Computer Aided Vehicle Design
4. M852 Tribology

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 1
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours /week
			L	T	P	Total Credits	Marks of Class work	Theory	Practical	Total		
1	16MMA21C1	Metal Forming Analysis	4	0	-	4	50	100	-	150	3	4
2	16MMA21C2	Mechatronics & Product Design	4	0	-	4	50	100	-	150	3	4
3	16MMA21C3	Total Quality Management	4	0	-	4	50	100	-	150	3	4
4	16MMA21C4	Welding & Allied Processes	4	0	-	4	50	100	-	150	3	4
5	16MMA21CL1	Mechatronics Lab	-	-	2	2	50		50	100	3	4
6	16MMA21CL2	Welding Lab	-	-	2	2	50		50	100	3	4
7	16MMA21CL3	CAD/CAM Lab	-	-	2	2	50		50	100	3	4
8	16MMA21C5	Seminar	-		-	2	50	-	-	50		2
9	16MMA21D1 or 16MMA21D2 or 16MMA21D3 OR 16MMA21D4	Elective I	4	-		4	50	100		150	3	4
		TOTAL	28									

Elective I: Choose any one from the following three papers:
16MMA21D1 - INDUSTRIAL INSPECTION
16MMA21D2 - DESIGN AND METALLURGY OF WELDED
JOINTS 16MMA21D3 - FOUNDARY TECHNOLOGY
16MMA21D4-DESIGN PLANNING CONTORL AND PRODUCTION SYSTEM

NOTE:

Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 2
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours/ week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16MMA22C1	Mechanical Design-I	4	0	-	4	50	100	-	150	3	4
2	16MMA22C2	Diagnostic Maintenance & Monitoring	4	0	-	4	50	100	-	150	3	4
3	16MMA22C3	Seminar	-		-	2	50	-	-	50		2
4	16MMA22CL1	CIM Lab	-	-	2	2	50	-	50	100	3	4
5	16MMA22CL2	Diagnostic Maintenance & Monitoring Lab	-	-	2	2	50	-	50	100	3	4
6	16MMA22D1 or 16MMA22D2 or 16MMA22D3	Elective-II	4	0	-	4	50	100	-	150	3	4
7		Open Elective	3	0	-	3						
8		Foundation Elective	2	0	-	2						
	TOTAL					23						

NOTE: Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective II : Choose any one from the following three papers:

16MMA22D1 - QUALITY CONTROL TECHNIQUES

16MMA22D2 - FINITE ELEMENT METHODS

16MMA22D3 - ARTIFICIAL INTELLEGENCE IN MANUFACTURING

Open Elective: A candidate has to select this paper from the pool of Open Electives provided by the University.

Foundation Elective: A candidate has to select this paper from the pool of Foundation Electives provided by the University.

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY (STRUCTURAL DESIGN)

SEMESTER-III

EFFECTIVE FROM 2012-13

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTSD 301	Design of Structures- III	4	-	-	50	100	150	3
MTSD 302	Professional Practices	4	-	-	50	100	150	3
	Elective-III	4	-	-	50	100	150	3
MTSD 303	Computational Laboratory-III	-	-	3	50	50	100	3
MTSD 304	Seminar & Technical Writing	-	-	2	50	-	50	
MTSD 305	Dissertation Phase-I	-	-	4	100	-	100	
TOTAL		12	-	9	350	350	700	

NOTE:

1. The paper setter shall set each theory paper of 100 marks covering entire syllabus. However the Examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A+, A, B, C, D & E. The examination of practical courses shall also be evaluated on the basis of these grades.
2. The sessionals of theory and practical courses shall also be evaluated in the basis of these grades.
3. The choice of student for any elective shall not be binding on the department to offer it.
4. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY (STRUCTURAL DESIGN)

SEMESTER-IV

EFFECTIVE FROM 2012-13

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTSD 401	Dissertation	-	-	24	200	400	600	3
TOTAL			-	24	200	400	600	

NOTE:

1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e A+,A,B,C,D & E.
2. The Dissertation shall be evaluated by an examination committee consisting of the head of the department, Dissertation Supervisor and one External examiner. The evaluation should be based on above grades.
3. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s)

List of Electives:

Elective- I

MTSD 107 - Composite Structures

MTSD 108 - Analysis and Design of Plates & Shells

MTSD 109 - Advanced Foundation Design and Geotechnics

MTSD 110 - Material Science

Elective- II

MTSD 207- Advanced Steel Design

MTSD 208 - Advanced Reinforced Concrete Design

MTSD 209- Earth Retaining Structures

MTSD 210- Construction Failures

Elective- III

MTSD 306- High Rise Structures

MTSD 307- Design of Hydraulic Systems

MTSD 308- Design Of Bridges

Second Year: Third Semester

Course Code	Title of the Course (s)	External Marks	Sessional Marks	Practical Marks	Total Marks	Credits (L-T-P)
Core Courses						
17IMG23C1	Strategic Management	80	20	-	100	3-1-0
17IMG23C2	Management Information Systems	80	20	-	100	3-1-0
17IMG23C3	Entrepreneurship	80	20	-	100	3-1-0
17IMG23C4	Summer Vacation Training Report	100	-	-	100	4
Open Elective Course						
Each student will opt one course from the pool of Open Elective Courses provided by the University, excluding the Open Elective Courses prepared by the Institute of Management Studies and Research.						3
Discipline Specific Elective Courses (specialization areas offered under dual specialization scheme)						
Human Resource Management						
17IMG23GH1	Performance Management	80	20	-	100	3-1-0
17IMG23GH2	Organizational Change and Development	80	20	-	100	3-1-0
Finance						
17IMG23GF1	Management of Financial Services and Institutions	80	20	-	100	3-1-0
17IMG23GF2	Project Management and Infrastructure Finance	80	20	-	100	3-1-0
Information Technology						
17IMG23GT1	Object Oriented Analysis and Design	50	-	50	100	3-0-1
17IMG23GT2	Programming in Oracle	50	-	50	100	3-0-1
International Business						
17IMG23GI1	Foreign Exchange Management	80	20	-	100	3-1-0
17IMG23GI2	International Trade Theory and Practice	80	20	-	100	3-1-0
Marketing						
17IMG23GM1	Brand Management	80	20	-	100	3-1-0
17IMG23GM2	Consumer Behavior	80	20	-	100	3-1-0
Total Credits						**35**

Note:

1. Students are required to choose any two specialization areas offered under dual specialization scheme. The specialization area opted in 3rd Semester would remain same in 4th semester also.

2. Only the following combinations of specializations shall be offered to the students of Two Year MBA Programme:
   a. Finance and Marketing
   b. Finance and Human Resource Management
   c. Human Resource Management and Marketing
   d. Finance and Information Technology
   e. Finance and International Business
   f. Marketing and International Business
   g. Marketing and Information Technology

Session: 2016-17

Second Year: Fourth Semester

Course Code	Title of the Course (s)	External Marks	Sessional / Internal Marks	Practical Marks	Total Marks	Credits (L-T-P)
Core Courses						
17IMG24C1	E-Commerce	50	-	50	100	3-0-1
17IMG24C2	Project Report	100	100	-	200	8
17IMG24C3	Comprehensive Viva-voce	100	-	-	100	4
Discipline Specific Elective Courses (specialization areas offered under dual specialization scheme)						
Human Resource Management						
17IMG24GH1	Industrial Relations and Labour Legislations	80	20	-	100	3-1-0
17IMG24GH2	Strategic Human Resource Management	80	20	-	100	3-1-0
Finance						
17IMG24GF1	Management of Banking and Insurance	80	20	-	100	3-1-0
17IMG24GF2	Security Analysis and Portfolio Management	80	20	-	100	3-1-0
Information Technology						
17IMG24GT1	Systems Analysis and Design	80	20	-	100	3-1-0
17IMG24GT2	Programming in JAVA	50	-	50	100	3-0-1
International Business						
17IMG24GI1	International Financial Management	80	20	-	100	3-1-0
17IMG24GI2	International Logistics	80	20	-	100	3-1-0
Marketing						
17IMG24GM1	Integrated Marketing Communication	80	20	-	100	3-1-0
17IMG24GM2	Service Marketing	80	20	-	100	3-1-0
Total Credits						32

Note:

1. Students are required to choose any two specialization areas offered under dual specialization scheme. The specialization area opted in 3rd Semester would remain same in 4th semester also.

2. Only the following combinations of specializations shall be offered to the students of Two Year MBA Programme:
   a. Finance and Marketing
   b. Finance and Human Resource Management
   c. Human Resource Management and Marketing
   d. Finance and Information Technology
   e. Finance and International Business
   f. Marketing and International Business
   g. Marketing and Information Technology

3. The topic of the Project Report (Code 16IMG24C2) shall be finalized in 3rd semester by a Committee of the faculty members to be constituted by Director/Principal of the concerned Institute after presentation by candidate before the Committee.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

SCHEME OF EXAMINATIONS

FOR

TWO YEAR MBA PROGRAMME FROM THE SESSION 2019-20

FIRST YEAR: FIRST SEMESTER

Course Code	Title of the Course (s)	External Marks	Sessional Marks	Practical Marks	Total Marks	Credits (L-T-P)
CORE COURSES						
19IMG21C1	Management Concepts and Organizational Behavior	80	20	-	100	3-1-0
19IMG21C2	Managerial Economics	80	20	-	100	3-1-0
19IMG21C3	Accounting for Managers	80	20	-	100	3-1-0
19IMG21C4	Business Statistics and Analytics	80	20	-	100	3-1-0
19IMG21C5	Operations Management	80	20	-	100	3-1-0
19IMG21C6	Computer Fundamentals and Office Automation Tools	50	-	50	100	3-0-1
19IMG21C7	Business Environment	80	20	-	100	3-1-0
Discipline Specific Elective Courses (Each student will opt one course)						
19IMG21D1	Business Communication Skills	80	20	-	100	3-1-0
19IMG21D2	Event Management	80	20	-	100	3-1-0
Total Credits in 1st Semester						32

FIRST YEAR: SECOND SEMESTER

Course Code	Title of the Course (s)	External Marks	Sessional Marks	Practical Marks	Total Marks	Credits (L-T-P)
CORE COURSES						
19IMG22C1	Financial Management	80	20	-	100	3-1-0
19IMG22C2	Marketing Management	80	20	-	100	3-1-0
19IMG22C3	Human Resource Management	80	20	-	100	3-1-0
19IMG22C4	Business Research Methods	80	20	-	100	3-1-0
19IMG22C5	IT Infrastructure Management	50	-	50	100	3-0-1
19IMG22C6	Comprehensive Viva-voce	100	-	-	100	4

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT KABLANA ★ DIRECTOR

MCA Second Year

Semester-III

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
17MCA33C1	Computer Graphics	80	20	100	4:0:0
17MCA33C2	Operating Systems	80	20	100	4:0:0
17MCA33C3	Advance Database Systems	80	20	100	4:0:0
17MCA33C4	Data Communication and Computer Networks	80	20	100	4:0:0
17MCA33C5	Object Technology	80	20	100	4:0:0
17MCA33CL1	SoftwareLab-5 i) Graphics Programming Using C/C++. ii) UNIX /Shell Programming.	100*	----	100	0:0:3
17MCA33CL2	SoftwareLab-6 i) Java Programming ii)ADBMS (PL/SQL & MYSQL)	100*	----	100	0:0:3
					26 Credits

Semester-IV

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
17MCA34C1	Advanced Java Programming	80	20	100	4:0:0
17MCA34C2	Object Oriented Analysis and Design using UML	80	20	100	4:0:0
17MCA34DA1/ 17MCA34DA2/ 17MCA34DA3	i) Theory of Computation or ii) Software Engineering or iii) Multimedia and Its Applications	80	20	100	4:0:0
17MCA34DB1/ 17MCA34DB2/ 17MCA34DB3	i) Analysis and Design of Algorithms or ii) Computer Security or iii)Digital Image Processing	80	20	100	4:0:0
17MCA34C3	Artificial Intelligence and Expert System	80	20	100	4:0:0
17MCA34CL1	SoftwareLab-7 Advance Java Programming	100*	----	100	0:0:3
17MCA34CL2	Software Lab-8 i)Object Oriented Analysis and Design using UML ii) PROLOG	100*	----	100	0:0:3
17MCA34C4	Minor Project-I	-	100	100	0:2:0
	Total				28 Credits

Open Elective (O)	
To be Chosen from the pool of Open Electives provided by the University (excluding the open elective prepared by the Department of Comp Sc. & Appls.)	3

Total Credits= 31 Credits

*20 marks out of 100 will be based on the evaluation/assessment of the candidate in Test(s) and Assignment(s) during the semester, which will be forwarded by the Head of Dept./Director to the Examiner(s). Further, both practical exams of a semester may be conducted on the same day in 2 sittings each maximum of 3 hours.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

MCA Third Year

Semester-V

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
18MCA35C1	Advanced Technology	80	20	100	4:0:0
18MCA35C2	Soft Computing	80	20	100	4:0:0
18MCA35C3	Data Warehousing and Data Mining	80	20	100	4:0:0
18MCA35DA1/ 18MCA35DA2/ 18MCA35DA3	(i) Cloud Computing or (ii) Big Data Analytics or (iii) Software Testing and Quality Assurance	80	20	100	4:0:0
18MCA35DB1/ 18MCA35DB2/ 18MCA35DB3	(i) Internet of Things or (ii) Mobile Computing or (iii) Embedded Systems	80	20	100	4:0:0
18MCA35CL1	Software Lab-9 .NET Programming Using C#	100*	----	100	0:0:3
18MCA35CL2	Software Lab-10 Soft Computing	100*	----	100	0:0:3
18MCA35C6	Minor Project-II	-	100	100	0:2:0
	Total				**28 Credits**
Open Elective (O)					
To be Chosen from the pool of Open Electives provided by the University (excluding the open elective prepared by the Department of Comp Sc. & Appls.)					3

Total Credits= 31 Credits

* 20 marks out of 100 will be based on the evaluation/assessment of the candidate in Test(s) and Assignment(s) during the semester, which will be forwarded by the Head of Dept./Director to the Examiner(s). Further, both practical exams of a semester may be conducted on the same day in 2 sittings each maximum of 3 hours.

Semester-VI

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits
18MCA36C1	Major Project	400	100	500	20 Credits
	Grand Total of 3 Years/Credits				**162 Credits**

2020-21

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATION

Bachelor of Technology (Civil Engineering) Scheme effective from 2019-20

SEMESTER 3rd

Sr. No.	Course Code	Course Title	Hours per week	Contact hours per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L-T-P			Class work	Theory	Practical	Total	
1.	HSMC-201-G	Economics For Engineers	2-0-0	2	2	25	75	-	100	3
2.	PCC-201-G	Introduction to Civil Engineering	2-0-0	2	2	25	75	-	100	3
3.	BSC-Math-205-G	Mathematics III	2-1-0	3	3	25	75	-	100	3
4.	PCC-203-G	Engineering Mechanics	3-1-0	4	4	25	75	-	100	3
5.	*MC-106-G	Environmental Science	3-0-1	4	0	25	75	-	--	3
6.	PCC-CE-205-G	Fluid Mechanics	2-1-0	3	3	25	75	-	100	3
7.	PCC-CE-207-G	Surveying	2-1-0	3	3	25	75	-	100	3
8.	LC-CE-209-G	Building Drawing lab	0-0-2	2	1	25	-	25	50	3
9.	LC-CE-211-G	Engineering Mechanics Lab.	0-0-2	2	1	25	-	25	50	3
10.	LC-CE-213-G	Fluid Mechanics Lab.	0-0-2	2	1	25	-	25	50	3
11.	LC-CE-215-G	Surveying Lab.	0-0-2	2	1	25	-	25	50	3
				TOTAL	21					

MC-106Gis a mandatory non –credit course in which the students will be required passing marks in theory.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATION

Bachelor of Technology (Civil Engineering) Scheme effective from 2019-20

SEMESTER 4th

Sr. No.	Course Code	Course Title	Hours per week	Contact hours per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L-T-P			Class work	Theory	Practical	Total	
1.	HSMC-202-G	Organization Behavior	3-0-0	3	3	25	75	-	100	3
2.	PCC-CE-202-G	Hydraulic engineering	3-1-0	4	4	25	75	-	100	3
3.	PCC-CE-204-G	Design of concrete structure	3-1-0	4	4	25	75	-	100	3
4.	PCC-CE-206-G	Structural Analysis	2-1-0	3	3	25	75	-	100	3
5.	PCC –CE-208-G	Geomatics & Aerial surveying	3-1-0	4	4	25	75	-	100	3
6.	PCC-CE-210-G	Material Testing & Evaluation	3-0-0	3	3	25	75	-	100	3
7.	LC-CE-212-G	Hydraulic engineering lab	0-0-2	2	1	25	-	25	50	3
8.	LC-CE-214-G	Structural Analysis Lab	0-0-2	2	1	25	-	25	50	3
9.	LC-CE-216-G	Geomatics & Arial surveying Lab.	0-0-2	2	1	25	-	25	50	3
10.	LC-CE-218-G	Material Testing & Evaluation Lab.	0-0-2	2	1	25	-	25	50	3
				TOTAL	**25**					

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.

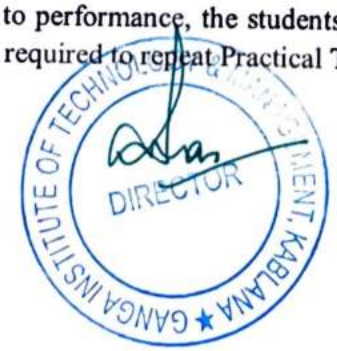
2. (A) each student has to undergo practical training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc and its evaluation shall be carried out in the V semester on the basis of seminar, viva-voce, report and certificate of practical training obtained by the student.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
Bachelor of Technology (Civil Engineering) Scheme effective from 2020-21
SEMESTER 5th

Sr. No.	Course Code	Course Title	Hours per Week	Contact Hours per Week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L-T-P			Class work	Theory	Practical	Total	
1.	PCC-CE-301-G	Hydrology and Water Resource Engineering	2-1-0	3	3	25	75	-	100	3
2.	PCC-CE- 303-G	Highway Engineering-I	2-1-0	3	3	25	75	-	100	3
3.	PCC-CE-305-G	Soil Mechanics	3-1-0	4	4	25	75	-	100	3
4.	PCC-CE-307-G	Water Supply and Treatment	2-1-0	3	3	25	75	-	100	3
5.	PCC-CE-309-G	Design of Steel Structure	3-1-0	4	4	25	75	-	100	3
6.	PCC-CE-311-G	Engineering Geology	2-1-0	3	3	25	75	-	100	3
7.	LC-CE-313-G	Highway Engineering –I Lab.	0-0-2	2	1	25	-	25	50	3
8.	LC -CE-315-G	Soil Mechanics Lab.	0-0-2	2	1	25	-	25	50	3
9.	LC -CE-317-G	Design of Steel Structure Drawing lab	0-0-2	2	1	25	-	25	50	3
10.	LC -CE-319-G	Engineering Geology Lab.	0-0-2	2	1	25	-	25	50	3
11.	PROJ-CE-301-G	Survey camp	-	-	2	25	-	25	50	-
12.	PROJ-CE-303-G	*Practical Training- I	-	-	-	-	-	-	* Refer note 2	
		TOTAL			**26**					

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.
2. The evaluation of Practical Training-I will be based on seminar, viva-voce, report submitted by the students. According to performance, the students are awarded to grades A, B, C, F. A student who is awarded 'F' grade is required to repeat Practical Training.



MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
Bachelor of Technology (Civil Engineering) Scheme effective from 2020-21
SEMESTER 6th

Sr. No.	Course Code	Course Title	Hours per Week	Contact Hours per Week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L-T-P			Class work	Theory	Practical	Total	
1.	PCC-CE-302-G	Irrigation Engineering	3-1-0	4	4	25	75	-	100	3
2.	PCC-CE- 304-G	Foundation Engineering	3-1-0	4	4	25	75	-	100	3
3.	PCC-CE-306-G	Highway Engineering-II	3-1-0	4	4	25	75	-	100	3
4.	-	*Elective-I	2-1-0	3	3	25	75	-	100	3
5.	-	**Elective-II	3-1-0	4	4	25	75	-	100	3
6.	LC-CE-308-G	Environmental Engineering Lab.	0-0-2	2	1	25	-	25	50	3
7.	LC -CE-310-G	Foundation Engineering lab	0-0-2	2	1	25	-	25	50	3
8.	LC -CE-312-G	Highway Engineering-II Lab.	0-0-2	2	1	25	-	25	50	3
9.	ESC-302-G	Computer aided Civil Engineering Design	1-0-2	3	2	25	-	25	50	3
		TOTAL			24					

	Course Title	Course Code
*Elective -I	1. Waste Water Treatment	PEC-CEEL -302 G
	2. Air & Noise Pollution Control	PEC-CEEL -304 G
	3. Environmental Impact Assessment	PEC-CEEL -306 G
**Elective –II	1. Advanced Concrete Structure	PEC-CEEL -308 G
	2. Pre-Stressed Concrete	PEC-CEEL -310 G
	3. Repair & Rehabilitation Of Structure	PEC-CEEL -312 G

Note:

1. Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator and other materials will not be permitted in the examination.
2. Each student has to undergo practical training of 6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B. Tech. 4th YEAR CIVIL ENGINEERING, SEMESTER- VII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

Subject Code	Subject Name	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
CE-401-F	Design of Steel Structure-II	3	1	-	4	50	100	-	150	3
CE-403-F	Disaster Mitigation and Management	3	1	-	4	50	100	-	150	4
CE-405-F	Estimating and Costing	3	1	-	4	50	100	-	150	3
CE-407-F	Irrigation Engg-II	3	1	-	4	50	100	-	150	3
----------	Elective	3	1	-	4	50	100	-	150	3
CE-451-F	Hydro Power Engg.	3	1	-	4	50	100	-	150	3
CE-453-F	Ground Water Engg	3	1	0	4	50	100	0	150	3
CE-455-F	Irrigation Drawing Lab	0	0	2	2	50	0	50	100	3
CE-457-F	Practical Training - II	-	-	2	-	-	-	-	-	-
GFCE-459-F	General Fitness for the Profession	-	-	-	-	-	-	50	50	3
	Total	21	7	4	32	400	700	100	1200	

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. **Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

ELECTIVES

1) CE -409 -F - Energy planning and management
2) CE -411-F - Environmental pollution and control
3) CE -417- F - Finite Element Methods
4) CE- 421 -F - Environmental impact and management
5) CE- 423- F - Elements of Earth Quake Engg.
6) CE- 433 -F - Hydraulic System Modeling

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech 2nd YEAR MECHANICAL ENGINEERING,
3rd SEMESTER
Proposed 'F' Scheme w.e.f 2010-11

Course	Course Title	Teaching Schedule				Marks for class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
MAT-201-F or HUM-201-F	Mathematics-III or Engineering Economics	3 or 3	2 or 1	- -	5 or 4	50	100	-	150	3
HUM-203-F	Fundamentals of Management	3	1	-	4	50	100	-	150	3
ME-201-F	Thermodynamics	3	1	-	4	50	100	-	150	3
ME-203-F	Computer Aided Design	3	1	-	4	50	100	-	150	3
ME-205-F	Engineering Mechanics	3	1	-	4	50	100	-	150	3
ME-207-F	Material Science	3	1	-	4	50	100		150	3
ME-209-F	Machine Drawing	1	-	3	4	50	-	50	100	4
ME-211-F	Computer Aided Design Lab	-	-	2	2	25	-	25	50	3
ME-213-F	Engineering Mechanics Lab	-	-	2	2	25	-	25	50	3
ME-215-F	Materials Science Lab	-	-	2	2	25	-	25	50	3
	Total	**19**	**6**	**10**	**34/35**	**425**	**600**	**125**	**1150**	

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT KABLANA
DIRECTOR

B.Tech. (Computer Science and Engineering)

Common with B.Tech. (Information Technology) &

B.Tech. (Computer Science and Information Technology)

Scheme ofStudies/Examination w.e.f. 2019-20

Semester-3

Sr. No.	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P			Mark of Class work	Theory	Practical	Total	
1	PCC-CSE-201G	Database Management Systems	3	0	0	3	3	25	75		100	3
2	PCC-CSE-203G	Data Structures & Algorithms	3	0	0	3	3	25	75		100	3
3	PCC-CSE-205G	Digital Electronics	3	0	0	3	3	25	75		100	3
4	PCC-CSE-207G	Python Programming	2	0	0	2	2	25	75		100	3
5	BSC-MATH-203G	Mathematics - III (Multivariable Calculus and Differential Equations)	2	0	0	2	2	25	75		100	3
6	HSMC-01G	Economics for Engineers	3	0	0	3	3	25	75		100	3
7	LC-CSE-209G	Database Management Systems LAB	0	0	4	4	2	25		25	50	3
8	LC-CSE-211G	Digital Electronics LAB	0	0	4	4	2	25		25	50	3
9	LC-CSE-213G	Data Structures & Algorithms LAB Using C	0	0	4	4	2	25		25	50	3
10	LC-CSE-215G	Python Programming LAB	0	0	2	2	1	25		25	50	3
						Total	23				800	

B.Tech. (Computer Science and Engineering)

Common with B.Tech. (Information Technology) &

B.Tech. (Computer Science and Information Technology)

Scheme ofStudies/Examination w.e.f. 2019-20

Semester-4

Sr. No.	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P			Mark of Class work	Theory	Practical	Total	
1	PCC-CSE-202G	Discrete Mathematics	3	1	0	3	4	25	75		100	3
2	PCC-CSE-204G	Computer Organization&Architecture	3	0	0	3	3	25	75		100	3
3	PCC-CSE-206G	OperatingSystem	3	0	0	3	3	25	75		100	3
4	PCC-CSE-208G	ObjectOriented Programming	3	0	0	3	3	25	75		100	3
5	HSMC-02G	Organizational Behaviour	3	0	0	3	3	25	75		100	3
6	*MC-106G	Environmental Sciences	3	0	1	4	0	-	-	-	-	3
7	PCC-CSE-210G	Web Technologies	2	0	0	2	1	25	75		100	3
8	LC-CSE-212G	OperatingSystem LAB	0	0	4	4	2	25		25	50	3
9	LC-CSE-214G	ObjectOriented Programming LAB Using C++	0	0	4	4	2	25		25	50	3
10.	LC-CSE-216G	Web Technologies Lab	0	0	2	2	1	25		25	50	3
						Total	22				750	

*MC-106Gis a mandatory non –credit course in which the students will be required passing marks in theory.

NOTE: At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.

Scheme of Studies and Examination
B.TECH (Computer Science & Engineering) – 5th Semester
w.e.f. 2020-21

Sr. No.	Category	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Mark of Class work	Theory	Practical	Total	
1	Engineering Science Course	ESC-CSE-301G	Microprocessor	3	0	0	3	3	25	75		100	3
2	Professional Core Course	PCC-CSE-303G	Computer Networks	3	0	0	3	3	25	75		100	3
3	Professional Core Course	PCC-CSE-305G	Formal Languages & Automata	3	0	0	3	3	25	75		100	3
4	Professional Core Course	PCC-CSE-307G	Design & Analysis of Algorithms	3	0	0	3	3	25	75		100	3
5	Professional Core Course	PCC-CSE-309G	Programming in Java	3	0	0	3	3	25	75		100	3
6	Professional Elective Course	Refer to Annexure I	Elective–I	3	0	0	3	3	25	75		100	3
7	Engineering Science Course	LC-ESC-321G	Microprocessor Lab	0	0	2	2	1	25	-	25	50	3
8	Professional Core Course	LC-CSE-323G	Computer Networks Lab	0	0	3	3	1.5	25	-	25	50	3
9	Professional Core Course	LC-CSE-325G	Design & Analysis of Algorithms Using C++	0	0	3	3	1.5	25	-	25	50	3
10	Professional Core Course	LC-CSE-327G	Programming in Java Lab	0	0	3	3	1.5	25	-	25	50	3
11	Training	PT-CSE-329G	Practical Training-1	-	-	-	-	-	-	-	* Refer Note 1		
		TOTAL CREDIT						23.5				800	

Note:

1. The evaluation of Practical Training-I will be based on seminar, viva-voce, report submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat Practical Training.
2. Choose any one from Elective-1

Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F.

DIRECTOR

Scheme of Studies and Examination
B.TECH (Computer Science & Engineering) – 6th Semester
w.e.f. 2020-21

Sr. No.	Category	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Mark of Class work	Theory	Practical	Total	
1	Professional Core Course	PCC-CSE-302G	Compiler Design	3	0	0	3	3	25	75		100	3
2	Professional Core Course	PCC-CSE-304G	Artificial Intelligence	3	0	0	3	3	25	75		100	3
3	Professional Core Course	PCC-CSE-306G	Advanced Java	3	0	0	3	3	25	75		100	3
4	Engineering Science Course	ESC-CSE-308G	Mobile and Wireless Communication	3	0	0	3	3	25	75		100	3
5	Professional Elective Course	Refer to Annexure II	Elective-II	3	0	0	3	3	25	75		100	3
6	Professional Elective Course	Refer to Annexure III	Elective-III	3	0	0	3	3	25	75		100	3
7	Project	PROJ-CSE-322G	Project-I	0	0	4	4	2	25		25	50	3
8	Professional Core Course	LC-CSE-324G	Compiler Design Lab	0	0	3	3	1.5	25		25	50	3
9	Professional Core Course	LC-CSE-326G	Artificial Intelligence Lab using python	0	0	3	3	1.5	25		25	50	3
10	Professional Core Course	LC-CSE-328G	Advanced Java Lab	0	0	2	2	1	25		25	50	3
11.	Mandatory Courses	MC-317G	Constitution of India	2	0	0							
		TOTAL						24				800	

*MC-317G is a mandatory non – credit course in which the students will be required passing marks in theory.

NOTE:

1. At the end of 6th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 7th Semester.
2. Choose any one from Elective-II
3. Choose any one from Elective-III

Annexure I

Elective –I (Professional Elective Course)

1. PEC-CSE-311G:Software Engineering
2. PEC-CSE-313G : System Programming and System Administration
3. PEC-CSE-315G :Digital Image Processing

Annexure II

Elective –II (Professional Elective Course)

1. PEC-CSE-310G:Advanced Database Management System
2. PEC-CSE-312G :Mobile Application Development
3. PEC-CSE-314G:Computer Graphics
4. PEC-CSE-330G :Communication Engineering

Annexure III

Elective –III (Professional Elective Course)

1. PEC-CSE-316G: Distributed System
2. PEC-CSE-318G :Information Technology & Industry Business Skills
3. PEC-CSE-320G : Data Science
4. PEC-CSE-332G :VHDL and Digital Design

M.D.UNIVERSITY, ROHTAK
Scheme of Studies / Examination
Bachelor of Technology (Computer Science & Engineering)
SEMESTER VII
'F' Scheme Effective from 2012-13

Sl. No.	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total	Marks of Class work	Theory	Practical	Total	
1	CSE-401 F	Advanced Computer Architecture	3	1	-	4	50	100	-	150	3
2	CSE-403 F	Software Project Management (CSE,IT)	3	1	-	4	50	100	-	150	3
3	CSE-405 F	Compiler Design	3	1	-	4	50	100	-	150	3
4	CSE-407 F	Neural Networks	3	1	-	4	50	100	-	150	3
5	CSE-409 F	Advanced Java (CSE, IT)	3	1	-	4	50	100	-	150	3
6		Elective	3	1	-	4	50	100	-	150	3
7	CSE-411 F	Compiler Design Lab	-	-	2	2	25	-	50	75	3
8	CSE-413 F	Neural Networks Using MATLAB	-	-	2	2	25	-	50	75	3
9	CSE-415 F	Advanced JAVA Lab (CSE, IT)	-	-	3	3	50	--	100	150	3
10	CSE-417 F	PRATICAL TRAINING-II	-	-	-	-	-	-	-	-	-
		TOTAL	**18**	**6**	**7**	31	400	600	200	1200	

List of Electives

1.	CSE-423 F	Distributed Operating System
2.	IT-465F	Network Security & Management
3.	CSE-421 F	Real Time Systems
4.	CSE-435 F	Advanced Database Management Systems
5.	IT-467 F	Computer Software Testing
6.	IT-473 F	High Speed Networks

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. **Student will be permitted to opt for any one elective run by the department. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva- voce and project report of the student. According to performance letter grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech. 4th YEAR COMPUTER SC & ENGINEERING, SEMESTER- VIII

(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

		Subject	Internal Marks	External Marks	Total Marks
1.	CSE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ GANGA
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
ELETRICAL ENGINEERING
B. Tech, 2nd year (IIIrd semester) w.e.f 2019-20

S. No.	Course Code	Course Title	Teaching Schedule			Marks of Class Work	Examination Marks		Total Marks	Credits	Duration of Examination (in hours)
			L	T	P		Theory	Practical			
1.	PCC-EE-201G	Electric Circuit Analysis	3	1	0	25	75	0	100	4	3
2.	PCC-EE-203G	Electric Circuit Analysis Laboratory	0	0	2	25	0	25	50	1	-
3.	PCC-EE-205G	Analog Electronics	3	0	0	25	75	0	100	3	3
4.	PCC-EE-207G	Analog Electronics Laboratory	0	0	2	25	0	25	50	1	-
5.	PCC-EE-209G	Electrical Machines-I	3	1	0	25	75	0	100	4	3
6.	PCC-EE-211G	Electrical Machines-I Laboratory	0	0	2	25	0	25	50	1	-
7.	PCC-EE-210G	Measurement and Instrumentation	3	0	0	25	75	0	100	3	3
8.	PCC-EE-212G	Measurement and Instrumentation Laboratory	0	0	2	25	0	25	50	1	-
9.	ESC-202-G	Engineering Mechanics	3	1	0	25	75	0	100	4	3
10.	MC-GES-106-G	Environmental Studies	3	0	1	25	75	0	100	0	3
Total									800	22	

L-Lecture, T-Tutorial, P-Practical

Note: The use of programmable devices such as programmable calculators etc. is not allowed during the exam. Sharing of materials will not be permitted during examination.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
ELECTRICAL ENGINEERING
B. Tech, 2nd year (IVth semester) w.e.f 2019-20

S. No.	Course Code	Course Title	Teaching Schedule			Marks of Class Work	Examination Marks		Total Marks	Credits	Duration of Examination (in hours)
			L	T	P		Theory	Practical			
1.	PCC-EE-202G	Digital Electronics	3	0	0	25	75	0	100	3	3
2.	PCC-EE-204G	Digital Electronics Laboratory	0	0	2	25	0	25	50	1	-
3.	PCC-EE-206G	Electrical Machines-II	3	1	0	25	75	0	100	4	3
4.	PCC-EE-208G	Electrical Machines-II Laboratory	0	0	2	25	0	25	50	1	-
5.	PCC-EE-210G	Transmission and Distribution	3	0	0	25	75	0	100	3	3
6.	PCC-EE-212G	Transmission and Distribution Laboratory	0	0	2	25	0	25	50	1	-
7.	PCC-EE-214G	Signals and Systems	3	0	0	25	75	0	100	3	3
8.	PCC-EE-216G	Electromagnetic Fields	3	1	0	25	75	0	100	4	3
9.	BSC-MATH-204G	Mathematics-III (Probability and Statistics)	3	1	0	25	75	0	100	4	3
10.		Indian Constitution	3	0	0	25	75	0	100	0	3
11.	BSC-BIO-201G	Biology-I	2	1	0	25	75	0	100	3	3
	TOTAL								850	27	

L-Lecture, T-Tutorial, P-Practical

Mandatory Course	Course Code	Course Title
		Indian Constitution
		Essence of Indian Traditional Knowledge

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

Scheme of Studies and Examination
B.TECH (Electrical Engineering) – 5th Semester
w.e.f. 2020-21

Sl. No.	Course Code	Course Title	Teaching Schedule L	T	P	Marks of class work	Examination marks Theory	Practical	Total Marks	Credit	Duration of examination in hour
1.	PCC-EE-301G	Power Systems–I	3	0	0	25	75	0	100	3	3
2.	LC -EE-303G	Power Systems–I Laboratory	0	0	2	25	0	25	50	1	2
3.	PCC - EE305G	Control System	3	0	0	25	75	0	100	3	3
4.	LC-EE-307G	Control System LAB	0	0	2	25	0	25	50	1	2
5.	PCC - EE-309G	Microprocessor& Microcontroller	3	0	0	25	75	0	100	3	3
6.	LC -EE-311G	Microprocessor & Microcontroller Lab	0	0	2	25	0	25	50	1	2
7.	PCC-EE-313G	Computer Aided Electrical Machine Design	3	1	0	25	75	0	100	3	3
8.	LC-EE-315G	Computer Aided Electrical Machine Design Lab	0	0	2	25	0	25	50	1	2
9.	PEC-I	Professional Elective Courses (PEC): Refer List-I	3	0	0	25	75	0	100	3	3
10.	OEC-I	Open Elective Courses: Refer List –II	3	0	0	25	75	0	100	3	3
11.	HSMC-01G	Economics for Engineers	3	0	0	25	75	0	100	3	3
12.	PT-EE317G	Practical Training-I	-	-	-	-	-	-	* Refer Note 1		
	Total								900	25	

Note:

1. The evaluation of Practical Training-I will be based on seminar, viva-voce, report submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat Practical Training.
2. Choose any one from Professional Elective
3. Choose any one from Open Elective

Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F.

List-I

Sr. No	Code	Subject	Credit
1	PEC-EE-01G	Wind and Solar Energy System	3
2	PEC-EE-03G	Electrical Drives	3
3	PEC-EE-05G	HVDC Transmission System	3
4	PEC-EE-07G	High Voltage Engineering	3

List-II

Sr.No	Code	Subject	Credit
1	OEC-EE01G	Electrical Engineering Materials	3
2	OEC-EE03G	Nano Electronics	3
3	OEC-EE05G	Intelligent Instrumentation	3
4	OEC-EE07G	Power Plant Engineering	3

Scheme of Studies and Examination
B.TECH (Electrical Engineering) – 6th Semester
w.e.f. 2020-21

Sl. No.	Course Code	Course Title	Teaching Schedule L	T	P	Marks of class work	Examination marks Theory	Practical	Total Marks	Credit	Duration of examination in hour
1.	PCC - EE-302G	Power Systems–II	3	0	0	25	75	0	100	3	3
2.	LC -EE-304G	Power Systems–II Laboratory	0	0	2	25	0	25	50	1	2
3.	PCC - EE-306G	Power Electronics	3	0	0	25	75	0	100	3	3
4.	LC -EE-308G	Power Electronics Laboratory	0	0	2	25	0	25	50	1	2
5.	LC -EE-310G	Electronics Design Laboratory	1	0	4	25	50	25	100	3	3
6.	PEC-II	Professional Elective Courses (PEC): Refer List-III	3			25	75	0	100	3	3
7.	PEC-III	Professional Elective Courses (PEC): Refer List-IV	3			25	75	0	100	3	3
8.	OEC-II	Open Elective Courses: Refer List –V	3			25	75	0	100	3	3
9.	HSMC - 02G	Organisational Behaviour	3			25	75	0	100	3	3
	Total								800	23	

Note:

1. Each student has to undergo practical training of 6 weeks during summer vacation after 6th semester and its evaluation shall be carried out in 7th Semester.
2. Choose any one from Professional Elective
3. Choose any one from Open Elective

List-III

PROGRAMME ELECTIVE (Semester-VI)			
Sr. No	**Code**	**Subject**	**Credit**
1.	PEC-EE-04G	Digital Signal Processing	3
2.	PEC-EE-06G	Power System Protection	3

List-IV

PROGRAMME ELECTIVE (Semester-VI)			
3.	PEC-EE-18G	Advance Electric Drives	3
4.	PEC-EE-08G	Power Quality and FACTS	3

List-V

OPEN ELECTIVE-I [Semester-VI]			
Sr.No	Code	Subject	Credit
1.	OEC-EE-04G	VHDL and DIGITAL DESIGN	3
2.	OEC-EE-06G	Distributed Energy Integration	3
3.	OEC-EE-08G	Conventional and Renewable Energy Resources	3
4.	OEC-EE-10G	Soft Computing	3

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electrical Engg.)

SEMESTER VII

F ' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
EE-403-F	Electric Drives And Control	3	1	-	4	50	100	-	150	3
ECE-409-F	Digital Signal Processing	3	1	-	4	50	100	-	150	3
EE-405-F	Power System Operation And Control	3	1	-	4	50	100	-	150	3
	*Open Elective	3	1	-	4	50	100	-	150	3
	*Dept Elective	3	1	-	4	50	100	-	150	3
EE-409-F	Computer Applications To Power System Analysis	3	1	-	4	50	100	-	150	3
EE-413-F	Electric Drives And Control Lab.			3	3	50	-	50	100	3
ECE-429-F	Digital Signal Processing Lab	-	-	2	2	25	-	25	50	3
EE-419-F	Computer Applications To Power System Analysis Lab.	-	-	3	3	50	-	50	100	3
GFEE-401-F	General Fitness For The Profession	-	-	-	-		-	50	50	3
EE-401-F	Practical Training – II	-	-	-	-	-	-		-	-
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**175**	**1200**	

List of Open Electives

1.	HUM-451-F	Language Skills for Engineers
2.	HUM-453-F	Human Resource Management
3.	HUM-459-F	Renewable Energy Resources and Technology
4.	ME-451-F	Mechatronics Systems
5.	IC-455-F	Intelligent Instrumentation for Engineers
6.	OR-401-F	Operations Research

List of Dept Electives

1. EHV AC/DC (EE-432-F)
2. Fuzzy Logic Control (IC-404-F)
3. Recent Trends in De-regulated Power Systems (EE-438-F)
4. High Voltage Engineering (EE-442-F)
5. Electrical Power Quality (EE-444-F)
6. Power Management (EE-450-F)

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KAHLANA ★ DIRECTOR

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. ***Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.**
4. **Assessment of Practical Training-II, carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student from the industry. According to performance, letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.**

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination

B. Tech. (Electrical Engg.)

SEMESTER VIII

F ' Scheme

EFFECTIVE FROM THE SESSION 2012-13

Sr. No	Course No	Subject	Internal Marks	External Marks	Total Marks
1.	EE- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.TECH (Electronics and Communication Engineering)

Common with

B.Tech (Electronics and Tele Communication)

SEMESTER –3rd w.e.f. 2019-20

S. No.	Course No.	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credit	Duration of Exam	Contact Hrs./wk.
			L	T	P		Theory	Practical				
1	PCC-ECE201G	Electronic Devices	3	0	-	25	75	-	100	3	3	3
2	LC-ECE203G	Electronic Devices lab	0	0	2	25	-	25	50	1	3	2
3	PCC-ECE206G	Analog Circuits	3	0	-	25	75	-	100	3	3	3
4	LC-ECE208G	Analog Circuits lab	0	0	2	25	-	25	50	1	3	2
5	PCC-ECE209G	Signals and Systems	3	0	-	25	75	-	100	3	3	3
6	PCC-ECE211G	Network Theory	3	1	-	25	75	-	100	3	3	3
7	LC-ECE-212G	Network Theory Lab	0	0	2	25	-	25	50	1	3	2
8	LC-ECE-213G	PCB & ELECTRONIC WORKSHOP LAB	0	0	2	25	-	25	50	1	3	2
9	HSMC-01G	Economics for Engineers (Common with CSE)	3	0	0	25	75	-	100	3	3	3
10	*MC-106G	Environmental Science	3	0	1	25	75	-	-	-	3	4
Total									**700**	**19**		27

***MC-106G** is a mandatory non –credit course in which the students will be required passing marks in theory.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS
B.TECH (Electronics and Communication Engineering)
Common with
B.Tech (Electronics and Tele Communication)
SEMESTER –4th w.e.f. 2019-20

S. No.	Course No.	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credit	Duration of Exam	Contact Hrs./wk.
			L	T	P		Theory	Practical				
1	PCC-ECE202G	Communication System	3	0	-	25	75	-	100	3	3	3
2	LC-ECE204G	Communication System lab	0	0	2	25	-	25	50	1	3	2
3	PCC-ECE205G	Digital Electronics	3	1	-	25	75	-	100	3	3	4
4	LC-ECE207G	Digital Electronics lab	0	0	2	25	-	25	50	1	3	2
5	PCC-ECE210G	Microcontrollers	3	1	-	25	75	-	100	3	3	4
6	LC-ECE-214G	Microcontrollers Lab	0	0	2	25	-	25	50	1	3	2
7	HSMC-02G	Organizational Behavior	3	0	0	25	75	-	100	3	3	3
8	BSC-MATH-202G	Mathematics-III (Partial differential equations and Numerical methods)	3	1	-	25	75	-	100	4	3	4
9	PCC-CSE-221G	Data Structures	3	0	0	25	75	-	100	3	3	3
Total									**750**	**22**		27

NOTE: At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.

Scheme of Studies and Examination
B.TECH (Electronics & Communication Engineering) – 5th Semester
w.e.f. 2020-21

Sr. No.	Category	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Internal Assessment	External Examination	Practical	Total	
1	Professional Core Course	PCC-ECE301G	Electromagnetic Waves	3	1	0	4	4	25	75		100	3
2	Professional Core Course	PCC-ECE303G	Computer Organization & Architecture	3	0	0	3	3	25	75		100	3
3	Professional Core Course	PCC-ECE305G	Communication Engineering	3	1	0	4	4	25	75		100	3
4	Professional Core Course	PCC-ECE307G	Digital Signal Processing	3	1	0	4	4	25	75		100	3
5	Program Elective Course	Refer to Annexure I	Program Elective –I	3	1	0	4	4	25	75		100	3
6	Open Elective Course	Refer to Annexure I	Open Elective-I	3	0	0	3	3	25	75		100	3
7	Professional Core Course	LC-ECE323G	Electromagnetic Waves Lab	0	0	3	3	1.5	25		25	50	3
8	Professional Core Course	LC-ECE325G	Digital Signal Processing Lab	0	0	3	3	1.5	25		25	50	3
9	Training	PT-ECE327G	Practical Training – 1	-	-	-	-	-	-	-	* Refer Note 1		
		TOTAL CREDIT						25				700	

Note:

1. The evaluation of Practical Training-I will be based on seminar, viva-voce, report submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat Practical Training.
2. Choose any one from Elective-I
3. Choose any one from open Elective-I

Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT KABLANA ★ DIRECTOR

Annexure I

Elective –I

PEC-ECE309G	Power Electronics
PEC-ECE311G	Nano electronics
PEC-ECE313G	Linear IC Applications
PEC-ECE315G	Scientific computing

Open Elective-I

OEC-ECE317G	Object Oriented Programming with C++
OEC-ECE319G	Additive Manufacturing
OEC-ECE321G	Measurements and Instrumentation

Scheme of Studies and Examination
B.TECH (Electronics & Communication Engineering) – 6th Semester
w.e.f. 2020-21

Sr. No.	Category	Course Code	Course Title	Hours per week			Total Contact Hrs. per week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Internal Assessment	External Examination	Practical	Total	
1	Professional Core Course	PCC-ECE302G	Control Systems	3	1	0	4	4	25	75		100	3
2	Professional Core Course	PCC-ECE304G	Computer Network	3	1	0	4	4	25	75		100	3
3	Humanities/ Basic Science	HUM-ECE-306G	Engineering Ethics	3	0	0	3	3	25	75		100	3
4	Professional Core Course	PCC-ECE308G	CMOS Design	3	1	0	4	4	25	75		100	3
5	Program Elective Course	Refer to Annexure II	Program Elective –II	3	1	0	4	4	25	75		100	3
6	Open Elective Course	Refer to Annexure II	Open Elective-II	3	0	0	3	3	25	75		100	3
7	Professional Core Course	LC-ECE322G	Computer Network Lab	0	0	4	4	2	25		25	50	3
8	Professional Core Course	LC-ECE324G	Control System Lab	0	0	3	3	1.5	25		25	50	3
9	Professional Core Course	LC-ECE326G	Mini Project/Electronic Design workshop	0	0	4	4	2	25		25	50	3
		TOTAL CREDIT						**27.5**				**750**	

Note:

1. Each student has to undergo practical training of 6 weeks during summer vacation after 6th semester and its evaluation shall be carried out in 7th Semester.
2. Choose any one from Elective-II
3. Choose any one from Open Elective-II

INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ GANGA DIRECTOR

Annexure II

Elective –II

PEC-ECE310G	Bio-Medical Electronics
PEC-ECE312G	VHDL and Digital Design
PEC-ECE314G	Introduction to MEMS
PEC-ECE316G	Speech and Audio Processing

Open Elective-II

OEC-ECE318G	Python Programming
OEC-ECE320G	Probability and Stochastic Processes

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electronics and Communication Engg.)

SEMESTER VII

F ' Scheme Effective from 2012–2013

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ECE-405-F	WIRELESS COMMUNICATION	3	1	-	4	50	100	-	150	3
ECE-403-F	SATELITE COMMUNICATION ENGINEERING	3	1	-	4	50	100	-	150	3
ECE-407-F	DATA COMMUNICATION	3	1	-	4	50	100	-	150	3
ECE-415-F	OPTICAL COMMUNICATION SYSTEMS	3	1	-	4	50	100	-	150	3
	*Dept Elective-I	3	1	-	4	50	100	-	150	3
ECE-409-F	Digital Signal Processing	3	1	-	4	50	100	-	150	3
ECE-423-F	Wireless & Satellite Communication Lab			3	3	50	-	50	100	3
ECE-427-F	Digital Signal Processing Lab	-	-	2	2	25	-	25	50	3
ECE-429-F	Data Communication Lab	-	-	3	3	50	-	50	100	3
GFEE-401-F	General Fitness For The Profession	-	-	-	-		-	50	50	3
ECE-404-F	Practical Training II									
	TOTAL	**18**	**6**	**8**	**32**	**425**	**600**	**175**	**1200**	

List of Dept Electives-I

ECE-419-F	Mobile Communication
ECE-461-F	Genetic Algorithms & Applications
ECE-453-F	Radar and Sonar Engg.
ECE-411-F	Wireless Sensor Network
ECE-413-F	Fuzzy Control System

Note:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of calculator will not be permitted in the examination.**
2. ***Student will be permitted to opt for any one elective run by the other departments. However, the departments will offer only those electives for which they have expertise. The choice of the students for any elective shall not be a binding for the department to offer, if the department does not have expertise.**
3. **A team consisting of Principal/Director, HOD of concerned department and external examiner appointed by University shall carry out the evaluation of the student for his/her General Fitness for the Profession.**

NOTE:-

1. Assessment of Practical Training-II, (ECE-404F) carried out at the end of VI semester, will be based on seminar, viva-voce and project report of the student from the industry. According to performance letter Grades A, B, C, F are to be awarded. A student who is awarded 'F' grade is required to repeat Practical Training.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

M.D. UNIVERSITY, ROHTAK

Scheme of studies & Examination
B. Tech. (Electronics and Communication Engg.)

SEMESTER VIII

F ' Scheme Effective from 2012–2013

Training of Six Months

Course No.	Course Title	Teaching Schedule				Marks of Class Work	Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ECE-402-F	Industrial Training /Institutional Project work	-	-	8	8	150	-	150	300	-
	Total			8	8					

Note:

1. **The students are required to undergo Industrial Training or Institutional Project work of duration not less than 4 months in a reputed organization or concerned institute. The student who wish to undergo industrial training, the industry chosen for should be a private limited company.**
2. **The final Viva-voca of the industrial training or Institutional Project work will be conducted by the external examiner and one internal examiner appointed by the institute. External examiner will be from penal of examiner.**
   Assessment of traing or project will be based on Seminar, viva-voca, report and certificate of Industrial Training or Institutional project work.
3. **The internal marks distribution for students who have undergone Industrial training consist of 50 marks from the Industry concern and 100 Marks by the committee members consisting of faculty members of concerned department of the present institute.**
4. **The teacher engaged for institutional project work shall have a workload of 2 hours per group (at least 4 students per work)**

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Examination for Semester III (Second Year)

B.TECH (FIRE TECHNOLOGY AND SAFETY) w.e.f. 2019-20

SN	Category	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Mark of Class work	TH	Pr	Total	
1	Basic Science Course	BSC-FT-201G	Mathematics-III	3	1	0	4	4	25	75		100	3
2	Professional Core Courses	PCC-FT-203G	Basics of Fire Science	3	0	0	3	3	25	75		100	3
3	Professional Core Courses	PCC-FT-205G	Fire Service Hydraulics-I	3	1	0	4	4	25	75		100	3
4	Engineering Science Course	ESC-FT-207G	Basics of Thermal Engineering	3	1	0	4	4	25	75		100	3
5	Professional Core Courses	PCC-FT-209G	Automobile Safety	3	1	0	4	4	25	75		100	3
6	Professional Core Courses	PCC-FT-211G	Fire Protection Workshop	0	0	2	2	1	25		25	50	3
7	Professional Core Courses	PCC-FT-213G	Automobile Safety Lab	0	0	2	2	1	25		25	50	3
8	Engineering Science Course	ESC-FT-215G	Basics Thermal Engineering Lab	0	0	2	2	1	25		25	50	3
9	Training	PT-FT-217 G	Fire Ground Operation-I	0	0	2	2	1	25		25	50	3
							TOTAL CREDIT	23				700	

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Examination for Semester IV (Second Year)

B.TECH (FIRE TECHNOLOGY AND SAFETY) w.e.f. 2019-20

SN	Category	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Marks of Class work	TH	Pr	Total	
1	Humanities and Social science including Management courses	HSMC-FT-202G	Principles of Management & Organisation Behaviour	3	0	0	3	3	25	75		100	3
2	Engineering Science Course	ESC-FT-204G	Basics of Safety Engineering	3	0	0	3	3	25	75		100	3
3	Professional Core Courses	PCC-FT-206G	First Aid & Paramedics	3	1	0	4	4	25	75		100	3
4	Professional Core Courses	PCC-FT-208G	Fire Service Hydraulics-II	3	1	0	4	4	25	75		100	3
5	Professional Core Courses	PCC-FT-210G	Safety in Construction	3	1	0	4	4	25	75		100	3
6	Professional Core Courses	PCC-FT-212G	First Aid & Paramedics Lab	0	0	2	2	1	25		25	50	3
7	Professional Core Courses	PCC-FT-214G	Fire Service Hydraulics Lab	0	0	2	2	1	25		25	50	3
8	Training	PT -FT-216 G	Fire Ground Operation-II	0	0	2	2	1	25		25	50	3
9	Mandatory Course	*MC-106 G	Environmental Science	3	0	1			25	75			4
							TOTAL CREDIT	21				650	

Abbreviations: TH- Theory , PR- Practical

MC-106 G is a mandatory non –credit course in which the students will be required passing marks in theory.

NOTE: At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.

Scheme of Studies and Examination
B.TECH (Fire Technology and Safety) – 5th Semester
w.e.f. 2020-21

SN	Category	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Internal Assessment	External Examination	Pr	Total	
1	Professional Core Courses	PCC-FT-301 G	Building Construction & Urban Planning	3	1	0	4	4	25	75		100	3
2	Professional Core Courses	PCC-FT-303 G	Mechanics of Structure	3	1	0	4	4	25	75		100	3
3	Professional Core Courses	PCC-FT-305 G	Passive Measures for Fire Safety	3	1	0	4	4	25	75		100	3
4	Professional Elective Courses	____	Elective-I	3	0	0	3	3	25	75		100	3
5	Professional Elective Courses	____	Elective -II	3	0	0	3	3	25	75		100	3
6	Professional Core Courses	PCC-FT-307G	Mechanics of Structure Lab	0	0	2	2	1	25		25	50	3
7	Seminar	PR-FT-309G	Industrial Seminar-I	0	0	2	2	1	50			50	3
8	Training	PR-FT -311G	Fire Ground Operation-III	0	0	2	2	1	25		25	50	3
9	Mandatory Course	MC-315-G	Essence of Indian Traditional Knowledge	2	0	0							3
							TOTAL	21				650	

Note:

1. Choose any one from Elective-I
2. Choose any one from Elective-II

Scheme of Studies and Examination
B.TECH (Fire Technology and Safety) – 6th Semester
w.e.f. 2020-21

S N	Category	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Internal Assessment	External Examination	Pr	Total	
1	Professional Core Courses	PCC-FT-302 G	Rescue Equipment and Techniques	3	1	0	4	4	25	75		100	3
2	Professional Core Courses	PCC-FT-304G	Fire Protection and Salvage Operation	3	0	0	3	3	25	75		100	3
3	Professional Elective Courses	____	Elective-III	3	0	0	3	3	25	75		100	3
4	Professional Elective Courses	____	Elective-IV	3	0	0	3	3	25	75		100	3
5	Open Elective Courses	____	Open Elective-I	3	0	0	3	3	25	75		100	3
6	Open Elective Courses	____	Open Elective -II	3	0	0	3	3	25	75		100	3
7	Professional Core Courses	PCC-FT-306 G	Computer Applications and CAD Lab	0	0	2	2	1	25		25	50	3
8	Training	PR-FT-308 G	Fire Ground Operation-IV (Rescue Operations)	0	0	2	2	1	25		25	50	3
							TOTAL	21				700	

NOTE:

1. At the end of 6th semester each student has to undergo Practical Training based on Fire and Safety/ Fire and Safety equipments installation, care and maintenance/Fire and Safety Audits/Any Certificate Course related to Fire and Safety (Min Contact Hours must be 30 Hrs) of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ Training Centre/ other building Occupancy etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 7th Semester.
2. Choose any one from Elective-III
3. Choose any one from Elective-IV
4. Choose any one from Open Elective-I
5. Choose any one from Open Elective-II

GANGA INSTITUTE OF ... MANAGEMENT, KABLANA ★ DIRECTOR

Professional Elective Courses (Third Year)

Sr. No.	Course Code	Course Title	Total Contact Hrs	Credit
1	PEC-FTEL321	Fire Safety Codes and Standards	3	3
2	PEC-FTEL322	Nuclear Safety and Radioactive Materials	3	3
3	PEC-FTEL323	Fire Risk Calculations	3	3
4	PEC-FTEL324	Salvage Evaluation of Fire Situation	3	3
5	PEC-FTEL325	Special Hazards and Protection	3	3
6	PEC-FTEL326	Building Design and Drawing	3	3
7	PEC-FTEL327	Fire Modeling	3	3
8	PEC-FTEL328	Electrical Systems and Safety in Design	3	3
9	PEC-FTEL329	Safety in Petroleum and Petrochemical Industries	3	3
10	PEC-FTEL330	Design of Pipe, Pressure Vessels and Machine Elements	3	3

Open Elective Courses (Third Year)

Sr. No.	Course Code	Course Title	Total Contact Hrs	Credit
1	OEC-FTEL-331	Materials and Metrology	3	3
2	OEC-FTEL-332	Power Plant Engineering	3	3
3	OEC-FTEL-333	Computer Applications, and CAD-CAM	3	3
4	OEC-FTEL-334	Process Instrumentation and Control Engineering	3	3
5	OEC-FTEL-335	Operation Research	3	3
6	OEC-FTEL-336	Industrial Noise and Vibrations	3	3
7	OEC-FTEL-337	Engineering Economics	3	3
8	OEC-FTEL-338	Artificial Intelligence	3	3
9	OEC-FTEL-339	Environmental Engineering and Management	3	3
10	OEC-FTEL-340	Robotics and Robot Applications	3	3

Note: A Student can not choose the same subject as Professional Elective Courses and Open Elective Courses in Sem V and Sem VI

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

Professional Elective – V

Sr. No.	Code	Subject
1	PEC-FT-419G	Industrial, Rural and Forest Development
2	PEC-FT-421G	Fire and Smoke Dynamics
3	PEC-FT-423G	Fires in Common Commercial Goods -I
4	PEC-FT-425G	Fire Service Communication and Mobilizing
5	PEC-FT-427G	Safety Provisions and Precautions in Industry

Open Elective – III

Sr. No.	Code	Subject
1	OEC-FT-429G	Environment Protection and Waste Management
2	OEC-FT-431G	Safety Engineering and its Industrial Applications
3	OEC-FT-433G	Transportation Engineering and Safety
4	OEC-FT-435G	Tribology and Maintenance
5	OEC-FT-437G	Total Quality Management

Professional Elective – VI

Sr. No.	Code	Subject
1	PEC-FT-418G	Fire Service Operations
2	PEC-FT-420G	Fire and Arson Investigation
3	PEC-FT-422G	Structure's Behavior under Fire
4	PEC-FT-424G	Practical Firemanship
5	PEC-FT-426G	Fires in Common Commercial Goods -II

Open Elective – IV

Sr. No.	Code	Subject
1	OEC-FT-428G	Entrepreneurship
2	OEC-FT-430G	Safety in Mines
3	OEC-FT-432G	Environment and Sustainable Development
4	OEC-FT-434G	Cyber Laws and Ethics
5	OEC-FT-436G	Industrial Engineering and Safety Management

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech 4th YEAR FIRE TECHNOLOGY & SAFETY,

7th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
FT 401 F	Safety and Risk Management	3	1	-	4	50	100	-	150	3
FT 403 F	Industrial Engineering	3	1	-	4	50	100	-	150	3
FT 405 F	Operational Research	3	1	-	4	50	100	-	150	3
FT 407 F	Disaster Management	3	1	-	4	50	100	-	150	3
FT 409 F	Fire Fighting Installation and Automation	3	1	-	4	50	100	-	150	3
--------	Dept. Elective	3	1	-	4	50	100	-	150	3
FT 411 F	Fire Fighting Installation and Automation Lab	-	-	2	2	50	-	50	100	3
FT 413 F	Squad Drill	-	-	2	2	50	-	50	100	3
	Total	18	6	4	28	400	600	100	1100	-

Dept. Elective:

1. FT 417 F Process Instrumentation and Control Engineering
2. FT 419 F Automobile Engineering and Safety.
3. FT 421 F Advanced Safety Engineering and Management.
4. FT 423 F Environmental Protection and Waste Management.
5. FT 425 F Human Factor Engineering.
6. FT 427 F Simulation and Process Modeling
7. FT 429 F Total Quality management
8. FT 431 F Safety in Health Care waste Management
9. FT 433 F Safety in Construction

MAHRASHSI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES & EXAMINATIONS

B.Tech 4th YEAR FIRE TECHNOLOGY & SAFETY, 8th SEMESTER

Proposed 'F' Scheme w.e.f 2012-13

Sl. No.	Course No.	Subject	Internal Marks	External Marks	Total Marks
1.	FT- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engineering and Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Examination for Semester III (Second Year)

B.Tech (MECHANICAL ENGINEERING)w.e.f. 2019-20

Sr. No.	Category Course Notation	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Mark of Class work	Theory	Practical	Total	
1	Basic Science course	BSC-ME-201G	Physics II(Optics & Waves)	3	0	0	3	3	25	75		100	3
2	Basic Science course	BSC-ME-203G	Mathematics-III	3	1	0	4	4	25	75		100	3
3.	Basic Science course	BSC-BIO-205G	Biology	2	1	0	3	3	25	75		100	3
4.	Engineering Science course	ESC-ECE-207G	Basics of Electronics Engg.	2	0	0	2	2	25	75		100	3
5.	Engineering Science course	ESC-ME-209G	Engineering Mechanics	3	0	0	3	3	25	75		100	3
6.	Engineering Science course	ESC-ME-211G	Basics of Mechanical Engg.	2	0	0	2	2	25	75		100	3
7.	Professional Core courses	PCC-ME-213G	Thermodynamics	3	1	0	4	4	25	75		100	3
8.	Engineering Science course	LC-ME-215G	Basics of MechanicalEngg. lab	0	0	2	2	1	25		25	50	3
							TOTAL CREDIT	**22**				**750**	

INSTITUTE OF TECHNOLOGY & MANAGEMENT
DIRECTOR

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

Scheme of Examination for Semester IV (Second Year)

B.Tech.(MECHANICAL ENGINEERING)w.e.f. 2019-20

Sr. No.	Category Course Notation	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
				L	T	P			Mark of Class work	Theory	Practical	Total	
1	Professional Core courses	PCC-ME-202G	Applied Thermodynamics	3	1	0	4	4	25	75		100	3
2	Professional Core courses	PCC- ME-204G	Fluid Mechanics	3	1	0	4	4	25	75		100	3
3	Professional Core courses	PCC- ME-206G	Strength of materials	3	1	0	4	4	25	75		100	3
4	Professional Core courses	PCC- ME-208G	Materials Engineering	3	0	0	3	3	25	75		100	3
5	Professional Core courses	PCC- ME-210G	Instrumentation & Control	3	0	0	3	3	25	75		100	3
6	Professional Core courses	LC- ME-212G	Applied Thermodynamics Lab	0	0	2	2	1	25		25	50	3
7	Professional Core courses	LC- ME-214G	SOM Lab	0	0	2	2	1	25		25	50	3
8	Professional Core courses	LC- ME-216G	Fluid Mechanics Lab	0	0	2	2	1	25		25	50	3
9	Professional Core courses	LC- ME-218G	Materials Lab	0	0	2	2	1	25		25	50	3
10	Professional Core courses	LC- ME-220G	Instrumentation Lab	0	0	2	2	1	25		25	50	3
11	Mandatory course	*MC-106G	Environment Science	3	0	1	-		25	75		-	4
			TOTAL CREDIT					**23**				**750**	

*MC-106Gis a mandatory non –credit course in which the students will be required passing marks in theory.

NOTE: At the end of 4th semester each student has to undergo Practical Training of 4/6 weeks in an Industry/ Institute/ Professional Organization/ Research Laboratory/ training centre etc. and submit typed report along with a certificate from the organization & its evaluation shall be carried out in the 5th Semester.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

Scheme of Studies and Examination
B.TECH (Mechanical Engineering) – 5th Semester
w.e.f. 2020-21

S. N.	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P			Internal Assessment	External Examination	Practical	Total	
1	PCC-ME-301G	Computer Aided Design & Manufacturing	3	0	0	0	3	25	75		100	3
2	PCC- ME-303G	Solid Mechanics	3	1	0	4	4	25	75		100	3
3	PCC- ME-305G	Manufacturing Technology-I	3	0	0	3	3	25	75		100	3
4	PCC- ME-307G	Kinematics of Machine	3	0	0	3	3	25	75		100	3
5	PCC- ME-309G	Fluid Machines	3	0	0	3	3	25	75		100	3
6	**OEC/HSMC-I**	Refer List -I	2	0	0	2	2	25	75		100	3
7	LC-ME-311G	Computer Aided Design & Manufacturing Lab	0	0	2	2	1	25		25	50	3
8	LC-ME-313G	Fluid Machines Lab	0	0	2	2	1	25		25	50	3
9	LC-ME-315G	Kinematics of Machine Lab	0	0	2	2	1	25		25	50	3
10	PT-ME-317G	Practical Training-I	0	0	2	2	0					3
11	MC-315G	Essence of Indian Traditional knowledge										
	TOTAL						**21**				**750**	

Note:

1. The evaluation of Practical Training-I will be based on seminar, viva-voce, report submitted by the students. According to performance, the students are awarded grades A, B, C, F. A student who is awarded 'F' grade is required to repeat Practical Training.

Excellent: A; Good : B; Satisfactory: C; Not Satisfactory: F.

OPEN ELECTIVE COURSES (OEC)/ HUMANITIES AND SOCIAL SCIENCES INCLUDING MANAGEMENT COURSES (HSMC)-LIST-I

LIST-I (Semester -V)

S. No.	Code	Name of Course	No. of Contact Hours	Credits
1.	HSMC-01G	Economics For Engineers	2	2
2.	HSMC-03G	Finance and Accounting	2	2
3.	OEC –ME-301G	Air and Noise Pollution and Control	2	2
4.	OEC –ME-303G	Installation Testing & Maintenance of Electrical Equipments	2	2
5.	OEC –ME-305G	Microprocessor and Interfacing	2	2

Note: Students have to select any one subject from the above list of courses.

Scheme of Studies and Examination
B.TECH (Mechanical Engineering) – 6th Semester
w.e.f. 2020-21

S. N.	Course Code	Course Title	Hours per week			Total Contact hrs/week	Credit	Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P			Internal Assessment	External Examination	Practical	Total	
1	PCC-ME-302G	Manufacturing Technology-II	3	0	0	3	3	25	75		100	
2	PCC- ME-304G	Design of machine element-I	3	0	0	3	3	25	75		100	
3	PCC- ME-306G	Heat Transfer	3	1	0	4	4	25	75		100	
4	PCC- ME-308G	Dynamics of Machines	3	0	0	3	3	25	75		100	
5	LC-ME-310G	Workshop Lab-I	0	0	3	3	1.5	25		25	50	
6	LC-ME-312G	Workshop Lab-II	0	0	2	2	1	25		25	50	
7	LC-ME-314G	Heat Transfer Lab	0	0	2	2	1	25		25	50	
8	LC-ME-316G	Dynamics of Machines Lab	0	0	2	2	1	25		25	50	
9	PCC-ME-318G	Seminar	0	0	2	2	1	50			50	
10	PEC	Professional Elective Courses(PEC): Refer List -I	3	0	0	3	3	25	75		100	
11	HSMC-II	Refer List -II	2	0	0	2	2	25	75		100	
	TOTAL						23.5				850	

NOTE:

1. Each student has to undergo practical training of 4/6 weeks during summer vacation and its evaluation shall be carried out in the VII semester.

2. Assessment of Practical Training-II, undergone at the end of VI semester, will be based on seminar, viva-voce, report and certificate of practical training obtained by the student from the industry/ Professional organization/ Research Laboratory etc. According to performance letter grades A, B, C, F are to be awarded:

   Excellent: A; Good : B; Satisfactory:C; notsatisfactory: F.

A student who has been awarded 'F' grade will be required to repeat the practical training.

PROFESSIONAL ELECTIVE COURSES (PEC) (Semester-VI) LIST-I

S. No.	Code	Name of Course	No. of Contact Hours	Credits
1.	PEC-ME-320G	Internal Combustion Engines & Gas Turbines	3	3
2.	PEC-ME-322G	Welding Technology	3	3
3.	PEC-ME-324G	Air Craft Technology	3	3
4.	PEC-ME-326G	Reliability, Availability & Maintainability	3	3

Note: Students will have to select any one out of the list.

HUMANITIES AND SOCIAL SCIENCES INCLUDING MANAGEMENT COURSES (HSMC)-LIST-II.

List-II (Semester-VI)

S. No.	Code	Name of Course	No. of Contact Hours	Credits
1.	HSMC -02G	Organizational Behaviour	2	2
2.	HSMC -04G	Human Resource Management	2	2
3.	HSMC -06G	Industrial Psychology	2	2
4.	HSMC -08G	Fundamentals of Management	2	2

Note: Students have to select any one subject from the above list of courses.

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER- VII
(Scheme-F)
EFFECTIVE FROM THE SESSION 2012-13

Course	Course Title	Teaching schedule				Marks For class work	Marks for Examination		Total Marks	Duration of Exam
		L	T	P	Total		Theory	Practical		
ME-401-F	Strength of Material-II	3	1	-	4	50	100	-	150	3
ME-403-F	Refrigeration & Air-Conditioning	3	1	-	4	50	100	-	150	3
ME-405-F	Operation Research	3	1	-	4	50	100	-	150	3
ME-407-F	Power Plant Engineering	3	1	-	4	50	100	-	150	3
ME-409-F	Mechanical Vibration	3	1	-	4	50	100	-	150	3
----------	Elective	3	1	-	4	50	100	-	150	3
ME-411-F	Refrigeration & Air-Conditioning Lab	-	-	2	2	50	-	50	100	3
ME-413-F	Advanced CAD/CAM Lab	-	-	2	2	50	-	100	150	3
ME-415-F	Practical Training-II	-	-	2	2	-	-	-	-	-
GFME-435-F	General Fitness for the Profession	-	-	-	-	-	-	50	50	3
	Total	18	6	6	30	400	600	200	1200	

LIST OF ELECTIVES

S.NO.	SUBJECT CODE	DEPTT. ELECTIVE
1.	ME-417-F	QUALITY ENGINEERING
2.	ME 419-F	FINITE ELEMENT METHODS
3.	ME-421-F	ENERGY MANAGEMENT PRINCIPLES
4.	ME- 425-F	COMPUTER INTEGRATED MANUFACTURING
5.	ME- 429-F	RELIABILITY ENGINEERING
6.	ME-431-F	SOLAR ENERGY ENGINEERING

MAHARSHI DAYANAND UNIVERSITY, ROHTAK
SCHEME OF STUDIES & EXAMINATIONS
B.Tech. 4th YEAR MECHANICAL ENGINEERING, SEMESTER- VIII
(Scheme-F)

EFFECTIVE FROM THE SESSION 2012-13

Sl. No.	Course No.	Subject	Internal Marks	External Marks	Total Marks
1.	ME- 402-F	Industrial Training/Institutional Project Work	150	150	300

Note:

The students are required to undergo Industrial Training or Institutional Project Work of duration not less than 4 months in a reputed organization or concerned institute. The students who wish to undergo industrial training, the industry chosen for undergoing the training should be at least a private limited company. The students shall submit and present the mid-term progress report at the Institute. The presentation will be attended by a committee. Alternately, the teacher may visit the Industry to get the feedback of the students.

The final viva-voce of the Industrial Training or Institutional Project Work will be conducted by an external examiner and one internal examiner appointed by the Institute. External examiner will be from the panel of examiners submitted by the concerned institute approved by the Board of Studies in Engg. & Technology. Assessment of Industrial Training or Institutional Project Work will be based on seminar, viva-voce, report and certificate of Industrial Training or Institutional Project Work obtained by the student from the industry or Institute.

The internal marks distributions for the students who have undergone Industrial Training consist of 50 marks from the industry concern and 100 marks by the committee members consisting of faculty members of concerned department of the parent institute.

The teachers engaged for Institutional Project work shall have a workload of 2 hours per group (at least 4 students) per week.

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

SECOND YEAR

Third Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN301	Cost and Management Accounting	80	20	-	100
BBAN302	Marketing Management	80	20	-	100
BBAN303	Capital Markets	80	20	-	100
BBAN304	Introduction to Information Technology	50	-	50	100
BBAN305	Environment Studies	80	20	-	100
BBAN306	Disaster Management	80	20	-	100
	TOTAL				600

Fourth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN401	Financial Management	80	20	-	100
BBAN402	Human Resource Management	80	20	-	100
BBAN403	Business Research Methods	80	20	-	100
BBAN404	Business Laws	80	20	-	100
BBAN405	Data Base Management System	50	-	50	100
BBAN406	Human Rights and Values	80	20	-	100
	TOTAL				600

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

CURRICULUM AND SCHEME OF EXAMINATIONS OF BBA PROGRAMME FROM THE SESSION 2014-15

THIRD YEAR

Fifth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN501	Production and Materials Management	80	20	-	100
BBAN502	Company Law	80	20	-	100
BBAN503	Indian Business Environment	80	20	-	100
BBAN504	Computer Networking & Internet	50	-	50	100
BBAN505	Presentation Skills and Personality Development	80	20	-	100
BBAN506	Cyber Security	80	20	-	100
BBAN507	Summer Training Report	100	-	-	100
	TOTAL				700

Sixth Semester

Paper No	Title of Paper(s)	External Marks	Internal Assessment/ Work-shop Marks	Practical Marks	Total Marks
BBAN601	Income Tax	80	20	-	100
BBAN602	System Analysis & Design	80	20	-	100
BBAN603	Foundations of International Business	80	20	-	100
BBAN604	Consumer Protection	80	20	-	100
BBAN605	E-Commerce	50	-	50	100
BBAN606	Project Report	100	-	-	100
BBAN607	Comprehensive Viva-voce	100	-	-	100
	TOTAL				700

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT ★ HARYANA ★ DIRECTOR

M.D. UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 1st
CBCS Scheme effective from 2016-17

Sr. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours/ week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16CSE21C1	Data Communication and Computer Networks	4	0	-	4	50	100	-	150	3	4
2	16CSE21C2	Advanced Operating Systems	4	0	-	4	50	100	-	150	3	4
3	16CSE21C3	Advanced Database Management System	4	0	-	4	50	100	-	150	3	4
4	16CSE21C4	Data Warehouse and Mining	4	0	-	4	50	100	-	150	3	4
5	16CSE21C5	Mathematical Foundation of Computer Science	4	0	-	4	50	100	-	150	3	4
6	16CSE21C6	Seminar	-		-	2	50	-	-	50		2
7	16CSE21CL1	Advanced Operating Systems Lab	-	-	2	2	50	-	50	100	3	2
8	16CSE21CL2	Advanced Database Management System Lab	-	-	2	2	50	-	50	100	3	2
		TOTAL	26									

NOTE:

Examiner will set nine question in total. Question one will be compulsory and will comprises of all section and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D. UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 2nd
CBCS Scheme effective from 2016-17

Sr. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours /week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16CSE22C1	Soft Computing	4	0	-	4	50	100	-	150	3	4
2	16CSE22C2	Algorithm Design	4	0	-	4	50	100	-	150	3	4
3	16CSE22C3	Seminar	-		2	2	50	-	-	50	-	2
4	16CSE22CL1	Soft Computing Lab	-	-	2	2	50	-	50	100	3	2
5	16CSE22CL2	Algorithm Design Lab	-	-	2	2	50	-	50	100	3	2
6	16CSE22D1 or 16CSE22D2 or 16CSE22D3 or 16CSE22D4	Elective-1	4	0	-	4	50	100	-	150	3	4
7		Open Elective				3						3
8		Foundation Elective				2						2
			23									

NOTE: Examiner will set nine question in total. Question One will be compulsory and will comprises of all section and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective 1 : Choose any one from the following papers

16CSE22D1 Mobile and Wireless Communication
16CSE22D2 Optimization Techniques
16CSE22D3 Discrete Mathematics
16CSE22D4 Internet and Web Development

Elective 2

A candidate has to select this paper from the pool of Open Electives provided by the University

Elective 3

A candidate has to select this paper from the pool of Foundation Electives provided by the University.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 3rd
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of hours/ week
			L	T	P	Total credits	Marks of Class works	Theory	Practical	Total		
1	17CSE23C1	Knowledge Based System	4	0	-	4	50	100	-	150	3	4
2	17CSE23C2	Network Security	4	0	-	4	50	100	-	150	3	4
3	17CSE23C3	Literature Survey (Dissertation Stage 1)	-	-	2	2	100	-	-	100		4
4	17CSE23C4	Seminar	-		2	2	50	-	-	50		2
5	17CSE23CL1	Knowledge Based System Lab	-	-	2	2	50	-	50	100		2
6	17CSE23CL2	Project	-	-	2	2	50	-	50	100		2
7		Open Elective				3						
		TOTAL	**21**									

NOTE:
Examiner will set nine questions in total. Question One will be compulsory and will comprises of all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

OPEN ELECTIVE
A candidate has to select this paper from the pool of open electives provided by the University.

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (COMPUTER SCIENCE & ENGINEERING)
SEMESTER 4th
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
1.	17CSE24C1	Dissertation and viva (Dissertation Stage 2)	-	-	-	-	250	-	500	750	**20**
		TOTAL	-	-	-	-					

NOTE:

1. **Students have to publish a research paper in a journal / conference of the research work done in the semester.**

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY

(CYBER FORENSICS AND INFORMATION SECURITY)

SEMESTER-III

EFFECTIVE FROM 2013-14

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTCF 301	Preserving & Recovering Digital Evidence	4	-	-	50	100	150	3
MTCF 302	Cyber Laws & Security Policy	4	-	-	50	100	150	3
	Elective-III	4	-	-	50	100	150	3
MTCF 307	Dissertation Phase 1	-	-	8	100	-	100	3
MTCF 308	Seminar & Technical Writing	-	-	2	50	-	50	-
TOTAL		12	-	10	300	300	600	

Elective- III

MTCF 303- Biometric Security
MTCF 304- Applied Cryptography
MTCF 305- Distributed Systems Security
MTCF 306- Secure Software Engineering

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY

(CYBER FORENSICS AND INFORMATION SECURITY)

SEMESTER-IV

EFFECTIVE FROM 2013-14

Course No.	Course Title	Teaching Schedule			Marks		Total
		L	T	P	Sessional	Exam.	
MTCF 401	Dissertation Phase- II	-	-	24	200	400	600
	Total		-	24	200	400	600

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-III

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	Practical	
1	MTEPS301	Elective – III	3	1	0	50	100	-	150
2	MTEPS302	Elective – IV	3	1	0	50	100	-	150
3	MTEPS303	Seminar			2	50	-	50	100
4	MTEPS304	Dissertation-Phase I	0	0	4	150	-	-	150
		Grand Total	6	2	6	300	200	50	550

NOTE:

1. The paper setter shall set each theory paper of 100 marks covering entire syllabus. However the examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A^+ , A,B,C,D & E. The examination of practical courses shall also be evaluated on the basis of these grades.
2. The sessionals of theory , practical and Seminar courses shall also be evaluated in the basis of these grades.
3. The choice of student for any elective shall not be binding on the department to offer it.
4. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

SCHEME OF STUDIES AND EXAMINATIONS FOR MASTER OF TECHNOLOGY IN ELECTRICAL ENGINEERING
(Specialization: Electrical Power Systems)
SEMESTER-IV

S.No.	Course Code	Course Title	Teaching Schedule			Class Work	Examination		Total
			L	T	P		Theory	E.VIVA	
1	MTEPS401	Dissertation Final Phase	0	0	20	200	-	400	600
		Total			20	200	-	400	600

NOTE:

1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e A^+, A,B,C,D & E.
2. The Dissertation shall be evaluated by an examination committee consisting of the head of the department, Dissertation Supervisor and one External examiner. The evaluation should be based on above grades.
3. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 1
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours /week
			L	T	P	Total Credits	Marks of Class work	Theory	Practical	Total		
1	16ECE21C1	Advance Microprocessor & Microcontroller	4	0	-	4	50	100	-	150	3	4
2	16ECE21C2	Satellite and Space Communication	4	0	-	4	50	100	-	150	3	4
3	16ECE21C3	Information and Communication Theory	4	0	-	4	50	100	-	150	3	4
4	16ECE21C4	Advanced Digital Signal Processing	4	0	-	4	50	100	-	150	3	4
5	16ECE21C5	Data Communication Networks	4	0	-	4	50	100	-	150	3	4
6	16ECE21C6	Seminar	-		-	2	50	-	-	50		2
7	16ECE21CL1	Satellite Lab	-	-	2	2	50	-	50	100	3	4
8	16ECE21CL2	Advance Microprocessor & Microcontroller Lab	-	-	2	2	50	-	50	100	3	4
		TOTAL	26									

NOTE:

Examiner will set nine question in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION M.TECH 1st YEAR (ELECTRONICS & COMMUNICATION) SEMESTER 2
CBCS Scheme effective from 2016-17

Sl. No	Course No.	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total	
1	16ECE22C1	Wireless Mobile Communication	4	0	-	4	50	100	-	150	3
2	16ECE22C2	Optical Communication	4	0	-	4	50	100	-	150	3
3	16ECE22C3	Seminar	-		-	2	50	-	-	50	
4	16ECE22CL1	VLSI Lab	-	-	2	2	50	-	50	100	3
5	16ECE22CL2	Optical Communication Lab	-	-	2	2	50	-	50	100	3
6	16ECE22D1 or 16ECE22D2 or 16ECE22D3 or 16ECE22D4	Elective-1	4	0	-	4	50	100	-	150	3
7		Open Elective				3					
8		Foundation Elective				2					
		TOTAL				23					

NOTE: Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective 1 : Choose any one from the following four papers:

16ECE22D1 - Electronic System Design
16ECE22D2 - Image Processing
16ECE22D3 - ADVANCED MATHEMATICS FOR ENGINEERS
16ECE22D4 - VLSI Design

Open Elective: A candidate has to select this paper from the pool of Open Electives provided by the University.

Foundation Elective: A candidate has to select this paper from the pool of Foundation Electives provided by the University.

M.DUNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 3rd
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total		
1	17ECE23C1	Neural Networks & Fuzzy Logics	4	0	-	4	50	100	-	150	3	4
2	17ECE23C2	CDMA	4	0	-	4	50	100	-	150	3	4
3	17ECE23C3	DISSERTATION (PHASE-I)	-	-	-	4	100	-	-	100		2
4	17ECE23C4	Seminar	-	-	-	2	50	-	-	50		2
5	17ECE23CL1	Project	-	-	2	2	50	-	50	100		2
6	17ECE23CL2	MATLAB Lab	-	-	2	2	50	-	50	100		2
7		OPEN ELECTIVE										3
		TOTAL										**21**

NOTE:

1. **Students will be allowed to use non-programmable scientific calculator. However, sharing of Calculator will not be permitted in the examination.**
2. **Students have to publish a research paper in a journal / conference on the basis of literature survey done in the semester.**

OPEN ELECTIVE: A candidate has to select this paper from the pool of open electives provided by the University.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

M.D UNIVERSITY
SCHEME OF STUDIES AND EXAMINATION
M.TECH 2nd YEAR (ELECTRONICS & COMMUNICATION)
SEMESTER 4th
CBCS Scheme effective from 2017-18

Sl. No	Course No.	Subject	Teaching Schedule				Examination Schedule (Marks)				No of Credits
			L	T	P	Total	Marks of Class works	Theory	Practical	Total	
	17ECE24C1	Dissertation and viva	-	-	-	-	250	-	500	750	20
		TOTAL	-	-	-	-	**250**	-	**500**	**750**	
		GRAND TOTAL									

NOTE:

1. **Students have to publish a research paper in a journal / conference of the research work done in the semester.**

M. TECH. MECHANICAL ENGINEERING (MACHINE DESIGN)
COURSE SCHEME and DETAILED SYLLABUS

Semesterwise Course Scheme

FIRST SEMESTER

	Subject Code	Subject	Credit	L-T-P	Marks Weightage Theory	Sessional	Grand total
1.	M801A	Numerical Analysis and Optimization	3	3-0-0	100	50	
2.	M803A	Instrumentation and Measurement	3	3-0-0	100	50	
3.	M805A	Experimental Stress Analysis	3	3-0-0	100	50	
4.	M807A	Metal Forming Analysis	3	3-0-0	100	50	
5.	M809A	Mechatronics and Product Design	3	3-0-0	100	50	
					Ext.	**Int.**	
6.	M811A	Experimental Stress Analysis Lab	1	0-0-2	25	25	
7.	M813A	Mechanical Measurement Lab	1	0-0-2	25	25	
8.	M815A	Computational Lab	1	0-0-2	25	25	
		Total	**18**	**15-0-6**	**575**	**325**	**900**

SECOND SEMESTER

9.	M802A	Theory of Elasticity	3	3-0-0	100	50	
10.	M804A	Design of Mechanisms	3	3-0-0	100	50	
11.	M806A	Principles of Machine Design	3	3-0-0	100	50	
12.		General Elective – I	3	3-0-0	100	50	
13.		General Elective – II	3	3-0-0	100	50	
					Ext.	**Int.**	
14.	M812A	Seminar	1	0-0-2	25	25	
15.	M814A	CAD/CAM Lab	1	0-0-2	25	25	
16.	M816A	Design Practice Lab – I	1	0-0-2	25	25	
		Total	**18**	**15-0-6**	**575**	**325**	**900**

THIRD SEMESTER

17.	M821A	Mechanical Behavior of Materials	3	3-0-0	100	50	
18.	M823A	Mechanical Vibrations	3	3-0-0	100	50	
19.	M825A	General Elective III	3	3-0-0	100	50	
					Ext.	**Int.**	
20.	M827A	Design Practice Lab II	1	0-0-2	25	25	
21.	M829A	Materials Behavior and Vibration Lab	1	0-0-2	25	25	
22.	M831A	Minor Project	5	0-0-10	150	100	
		Total	**16**	**9-0-14**	**500**	**300**	**800**

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT ★ KABLANA
DIRECTOR

SEMESTER IV

Subject Code	Subject	Credit	L-T-P	Marks Weightage Ext.	Int.	
23. M822A	Dissertation	12	0-0-24	400	200	
	Total	**12**	**0-0-24**	**400**	**200**	**600**

ELECTIVES I

1. M837 Design of Bearings and Shaft
2. M838 Computer Aided Design
3. M839 Design of Pollution Control Equipments
4. M840 Design of Pressure Vessels

ELECTIVES II

1. M845 Fracture Mechanics
2. M846 Design and Metallurgy of Welded Joints
3. M847 Finite Element Methods
4. M848 Materials Management

ELECTIVE III

1. M849 Total Quality Management
2. M850 Robotic Engineering
3. M851 Computer Aided Vehicle Design
4. M852 Tribology

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA
DIRECTOR

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 1
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours /week
			L	T	P	Total Credits	Marks of Class work	Theory	Practical	Total		
1	16MMA21C1	Metal Forming Analysis	4	0	-	4	50	100	-	150	3	4
2	16MMA21C2	Mechatronics & Product Design	4	0	-	4	50	100	-	150	3	4
3	16MMA21C3	Total Quality Management	4	0	-	4	50	100	-	150	3	4
4	16MMA21C4	Welding & Allied Processes	4	0	-	4	50	100	-	150	3	4
5	16MMA21CL1	Mechatronics Lab	-	-	2	2	50		50	100	3	4
6	16MMA21CL2	Welding Lab	-	-	2	2	50		50	100	3	4
7	16MMA21CL3	CAD/CAM Lab	-	-	2	2	50		50	100	3	4
8	16MMA21C5	Seminar	-		-	2	50	-	-	50		2
9	16MMA21D1 or 16MMA21D2 or 16MMA21D3 OR 16MMA21D4	Elective I	4	-		4	50	100		150	3	4
		TOTAL	28									

Elective I: Choose any one from the following three papers:
16MMA21D1 - INDUSTRIAL INSPECTION
16MMA21D2 - DESIGN AND METALLURGY OF WELDED
JOINTS 16MMA21D3 - FOUNDARY TECHNOLOGY
16MMA21D4-DESIGN PLANNING CONTORL AND PRODUCTION SYSTEM

NOTE:

Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

M.D.UNIVERSITY, ROHTAK
SCHEME OF STUDIES AND EXAMINATION
M.TECH 1st YEAR (MANUFACTURING & AUTOMATION)
SEMESTER 2
CBCS Scheme effective from 2016-17

Sl. No	Course Code	Subject	Credit Pattern				Examination Schedule (Marks)				Duration of Exam (Hours)	No of Hours/ week
			L	T	P	Total Credits	Marks of Class works	Theory	Practical	Total		
1	16MMA22C1	Mechanical Design-I	4	0	-	4	50	100	-	150	3	4
2	16MMA22C2	Diagnostic Maintenance & Monitoring	4	0	-	4	50	100	-	150	3	4
3	16MMA22C3	Seminar	-		-	2	50	-	-	50		2
4	16MMA22CL1	CIM Lab	-	-	2	2	50	-	50	100	3	4
5	16MMA22CL2	Diagnostic Maintenance & Monitoring Lab	-	-	2	2	50	-	50	100	3	4
6	16MMA22D1 or 16MMA22D2 or 16MMA22D3	Elective-II	4	0	-	4	50	100	-	150	3	4
7		Open Elective	3	0	-	3						
8		Foundation Elective	2	0	-	2						
	TOTAL					23						

NOTE: Examiner will set nine questions in total. Question One will be compulsory and will comprise short answer type questions from all sections and remaining eight questions to be set by taking two questions from each unit. The students have to attempt five questions in total, first being compulsory and selecting one from each Unit.

Elective II : Choose any one from the following three papers:

16MMA22D1 - QUALITY CONTROL TECHNIQUES

16MMA22D2 - FINITE ELEMENT METHODS

16MMA22D3 - ARTIFICIAL INTELLEGENCE IN MANUFACTURING

Open Elective: A candidate has to select this paper from the pool of Open Electives provided by the University.

Foundation Elective: A candidate has to select this paper from the pool of Foundation Electives provided by the University.

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY (STRUCTURAL DESIGN)

SEMESTER-III

EFFECTIVE FROM 2012-13

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTSD 301	Design of Structures- III	4	-	-	50	100	150	3
MTSD 302	Professional Practices	4	-	-	50	100	150	3
	Elective-III	4	-	-	50	100	150	3
MTSD 303	Computational Laboratory-III	-	-	3	50	50	100	3
MTSD 304	Seminar & Technical Writing	-	-	2	50	-	50	
MTSD 305	Dissertation Phase-I	-	-	4	100	-	100	
TOTAL		12	-	9	350	350	700	

NOTE:

1. The paper setter shall set each theory paper of 100 marks covering entire syllabus. However the Examiner shall evaluate the performance of the student in the theory paper finally by assigning one of the grades out of A+, A, B, C, D & E. The examination of practical courses shall also be evaluated on the basis of these grades.
2. The sessionals of theory and practical courses shall also be evaluated in the basis of these grades.
3. The choice of student for any elective shall not be binding on the department to offer it.
4. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s).

Maharshi Dayanand University, Rohtak

SCHEME OF STUDIES & EXAMINATION

MASTER OF TECHNOLOGY (STRUCTURAL DESIGN)

SEMESTER-IV

EFFECTIVE FROM 2012-13

Course No.	Course Title	Teaching Schedule			Marks		Total	Duration of Exam (Hrs)
		L	T	P	Sessional	Exam.		
MTSD 401	Dissertation	-	-	24	200	400	600	3
TOTAL			-	24	200	400	600	

NOTE:

1. The sessionals of Dissertation shall be evaluated on the basis of grades i.e A+,A,B,C,D & E.
2. The Dissertation shall be evaluated by an examination committee consisting of the head of the department, Dissertation Supervisor and one External examiner. The evaluation should be based on above grades.
3. The grading system is define at the end of scheme of studies & examinations and will be supplied by the University to the examiner(s)

List of Electives:

Elective- I

MTSD 107 - Composite Structures

MTSD 108 - Analysis and Design of Plates & Shells

MTSD 109 - Advanced Foundation Design and Geotechnics

MTSD 110 - Material Science

Elective- II

MTSD 207- Advanced Steel Design

MTSD 208 - Advanced Reinforced Concrete Design

MTSD 209- Earth Retaining Structures

MTSD 210- Construction Failures

Elective- III

MTSD 306- High Rise Structures

MTSD 307- Design of Hydraulic Systems

MTSD 308- Design Of Bridges

SCHEME OF EXAMINATIONS

FOR

TWO YEAR MBA PROGRAMME FROM THE SESSION 2019-20

FIRST YEAR: FIRST SEMESTER

Course Code	Title of the Course (s)	External Marks	Sessional Marks	Practical Marks	Total Marks	Credits (L-T-P)
CORE COURSES						
19IMG21C1	Management Concepts and Organizational Behavior	80	20	-	100	3-1-0
19IMG21C2	Managerial Economics	80	20	-	100	3-1-0
19IMG21C3	Accounting for Managers	80	20	-	100	3-1-0
19IMG21C4	Business Statistics and Analytics	80	20	-	100	3-1-0
19IMG21C5	Operations Management	80	20	-	100	3-1-0
19IMG21C6	Computer Fundamentals and Office Automation Tools	50	-	50	100	3-0-1
19IMG21C7	Business Environment	80	20	-	100	3-1-0
Discipline Specific Elective Courses (Each student will opt one course)						
19IMG21D1	Business Communication Skills	80	20	-	100	3-1-0
19IMG21D2	Event Management	80	20	-	100	3-1-0
Total Credits in 1st Semester						32

FIRST YEAR: SECOND SEMESTER

Course Code	Title of the Course (s)	External Marks	Sessional Marks	Practical Marks	Total Marks	Credits (L-T-P)
CORE COURSES						
19IMG22C1	Financial Management	80	20	-	100	3-1-0
19IMG22C2	Marketing Management	80	20	-	100	3-1-0
19IMG22C3	Human Resource Management	80	20	-	100	3-1-0
19IMG22C4	Business Research Methods	80	20	-	100	3-1-0
19IMG22C5	IT Infrastructure Management	50	-	50	100	3-0-1
19IMG22C6	Comprehensive Viva-voce	100	-	-	100	4

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT KABLANA ★ DIRECTOR

SECOND YEAR: THIRD SEMESTER

Course Code	Title of the Course (s)	External Marks	Sessional Marks	Practical Marks	Total Marks	Credits (L-T-P)
CORE COURSES						
20IMG23C1	Strategic Management	80	20	-	100	3-1-0
20IMG23C2	Corporate Laws	80	20	-	100	3-1-0
20IMG23C3	Operations Research	80	20	-	100	3-1-0
20IMG23C4	Summer Training Report	100	-	-	100	4
Open Elective Course						
Each student will opt one course from the pool of Open Elective Courses provided by the University, excluding the Open Elective Courses prepared by the Institute of Management Studies and Research.						3
Discipline Specific Elective Courses (specialization areas offered under dual specialization scheme) Students will opt two papers in each of the two SAME specialization areas in III as well as IV semester.						
HUMAN RESOURCE MANAGEMENT						
20IMG23GH1	Compensation and Benefits Management	80	20	-	100	3-1-0
20IMG23GH2	Organizational Change and Intervention Strategies	80	20	-	100	3-1-0
20IMG23GH3	Human Resource Metrics and Analytics	80	20	-	100	3-1-0
20IMG23GH4	Management of Industrial Relations	80	20	-	100	3-1-0
20IMG23GH5	Strategic Human Resource Management	80	20	-	100	3-1-0
FINANCE MANAGEMENT						
20IMG23GF1	Indian Financial System and Financial Markets	80	20	-	100	3-1-0
20IMG23GF2	Project Management	80	20	-	100	3-1-0
20IMG23GF3	Business Taxation	80	20	-	100	3-1-0
20IMG23GF4	Investment Management	80	20	-	100	3-1-0
20IMG23GF5	Bank Management	80	20	-	100	3-1-0
INFORMATION TECHNOLOGY MANAGEMENT						
20IMG23GT1	E-Commerce and Applications	50	-	50	100	3-0-1
20IMG23GT2	Data Ware Housing and Data Mining	80	20	-	100	3-1-0
20IMG23GT3	E-Governance and Framework of ICT	80	20	-	100	3-1-0

INSTITUTE OF TECHNOLOGY & MANAGEMENT KAITHAL
DIRECTOR

SECOND YEAR: FOURTH SEMESTER

Course Code	Title of the Course (s)	External Marks	Sessional / Internal Marks	Practical Marks	Total Marks	Credits (L-T-P)
Core Courses						
20IMG24C1	B2B Marketing	80	20	-	100	3-1-0
20IMG24C2	CSR and Business Ethics	80	20	-	100	3-1-0
20IMG24C3	Project Report	100	100	-	200	8
20IMG24C4	Comprehensive Viva-voce	100	-	-	100	4
Discipline Specific Elective Courses (specialization areas offered under dual specialization scheme)						
HUMAN RESOURCE MANAGEMENT						
20IMG24GH1	Business Negotiations and Employee Relations	80	20	-	100	3-1-0
20IMG24GH2	Training and Development	80	20	-	100	3-1-0
20IMG24GH3	Managing Interpersonal and Group Processes	80	20	-	100	3-1-0
20IMG24GH4	International Human Resource Management	80	20	-	100	3-1-0
20IMG24GH5	Performance Management Systems	80	20	-	100	3-1-0
FINANCE MANAGEMENT						
20IMG24GF1	Insurance and Risk Management	80	20	-	100	3-1-0
20IMG24GF2	Management of Financial Services	80	20	-	100	3-1-0
20IMG24GF3	Financial and Commodity Derivatives	80	20	-	100	3-1-0
20IMG24GF4	International Financial Management	80	20	-	100	3-1-0
20IMG24GF5	Financial Decision Analysis	80	20	-	100	3-1-0
INFORMATION TECHNOLOGY MANAGEMENT						
20IMG24GT1	Knowledge Management	80	20	-	100	3-1-0
20IMG24GT2	Information Security and Cyber Laws	80	20	-	100	3-1-0

Scheme of Examinations and Syllabus
for
MCA 2- year programme
With effect from the Session 2020-21

Programme Specific Outcomes:
The students upon completion of Regular **MCA 2-year Programme** will be able:

PSO1 To apply knowledge of computing fundamentals, computing specialization and domain knowledge for the abstraction and conceptualization of computing models from defined problems and requirements.

PSO2 To have the ability to understand and analyze a given real-world problem and propose feasible computing solutions. Also analyze customer requirements, create high level design, implement and document robust and reliable software systems.

PSO3 To transform complex business scenarios and contemporary issues into problems, investigate, understand and propose integrated solutions using emerging technologies.

PSO4 To use the latest technologies like IoT, AI, Machine Learning, Big Data Analytics, Cyber Security and modern hardware and software tools necessary for innovative software solutions and to possess leadership and managerial skills with best professional ethical practices and social concern

PSO5 To master fundamental project management skills, concepts and techniques, set attainable objectives and ensure positive results, meeting scope, time and budget constraints

PSO6 To recognize the need for self-motivation to engage in lifelong learning, the social, professional, cultural and ethical issues involved in the use of computer technology and give them due consideration in developing software systems

PSO7 To assess the need for innovation and initiate the process through entrepreneurship or otherwise and to work collaboratively as a member or leader in multidisciplinary teams

PSO8 To select their career after acquiring necessary eligibility requirement and the skill-set.

MCA First Year

Semester-I

Paper Code	Course	External Marks	Internal Marks	Total Marks	Credits
20MCA21C1	Object Oriented Programming Using JAVA	80	20	100	4:0:0
20MCA21C2	Compiler Design	80	20	100	4:0:0
20MCA21C3	Computer Graphics & Multimedia	80	20	100	4:0:0
20MCA21C4	Digital Design & Computer Architecture	80	20	100	4:0:0
20MCA21C5	Advance Data Structures Using C++/Java	80	20	100	4:0:0
20MCA21CL1	Software Lab -1 Based on 20MCA21C1, 20MCA21C2 & 20MCA21C3	100*	----	100	0:0:3
20MCA21CL2	Software Lab -2 Based on 20MCA21C4 & 20MCA21C5	100*	----	100	0:0:3
Total					Credits 26

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

Semester-II

Paper Code	Course	External Marks	Internal Marks	Total Marks	Credits
20MCA22C1	Advance Object Technology	80	20	100	4:0:0
20MCA22C2	Advance Database Systems & Data Warehouse	80	20	100	4:0:0
20MCA22C3	Operating Systems & Shell Programming	80	20	100	4:0:0
	Elective-I				
20MCA22DA1/	i) Theory of Computation	80	20	100	4:0:0
20MCA22DA2/	ii) Computer Networks & Distributed Systems	80	20	100	4:0:0
20MCA22DA3/	iii) Web Technologies	80	20	100	4:0:0
	Elective-II				
20MCA22DB1/	i) Cloud Computing	80	20	100	4:0:0
20MCA22DB2/	ii) Software Engineering	80	20	100	4:0:0
20MCA22DB3/	iii) Advance Computer Architecture & Quantum Computing	80	20	100	4:0:0
20MCA22CL1	Software Lab-3 Based on 20MCA22C1 & Elective I and/or II	100*	----	100	0:0:3
20MCA22CL2	Software Lab-4 Based on 20MCA22C2 & 20MCA22C3	100*	----	100	0:0:3
20MCA22C4	Industry Internship Report/ Project Report/Dissertation –I	100**	----	100	0:3:0
Total					Credits 29
	Foundation Electives (O)				
	To be Chosen from the pool of Foundation Electives provided by the university.				2

Total Credits= 31 Credits

*20 marks out of 100 will be based on the attendance, evaluation/assessment of the candidate in Test(s) and Assignment(s) during the semester, which will be forwarded by the Head of Dept./Director to the Examiner(s). Further, both practical exams of a semester may be conducted on the same day in 2 sittings each maximum of 3 hours.

**20 marks out of 100 will be based on evaluation/assessment of the candidate by the internal supervisor.

MCA Second Year

Semester-III

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
17MCA33C1	Computer Graphics	80	20	100	4:0:0
17MCA33C2	Operating Systems	80	20	100	4:0:0
17MCA33C3	Advance Database Systems	80	20	100	4:0:0
17MCA33C4	Data Communication and Computer Networks	80	20	100	4:0:0
17MCA33C5	Object Technology	80	20	100	4:0:0
17MCA33CL1	SoftwareLab-5 i) Graphics Programming Using C/C++. ii) UNIX /Shell Programming.	100*	----	100	0:0:3
17MCA33CL2	SoftwareLab-6 i) Java Programming ii)ADBMS (PL/SQL & MYSQL)	100*	----	100	0:0:3
					26 Credits

Semester-IV

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
17MCA34C1	Advanced Java Programming	80	20	100	4:0:0
17MCA34C2	Object Oriented Analysis and Design using UML	80	20	100	4:0:0
17MCA34DA1/ 17MCA34DA2/ 17MCA34DA3	i) Theory of Computation or ii) Software Engineering or iii) Multimedia and Its Applications	80	20	100	4:0:0
17MCA34DB1/ 17MCA34DB2/ 17MCA34DB3	i) Analysis and Design of Algorithms or ii) Computer Security or iii)Digital Image Processing	80	20	100	4:0:0
17MCA34C3	Artificial Intelligence and Expert System	80	20	100	4:0:0
17MCA34CL1	SoftwareLab-7 Advance Java Programming	100*	----	100	0:0:3
17MCA34CL2	Software Lab-8 i)Object Oriented Analysis and Design using UML ii) PROLOG	100*	----	100	0:0:3
17MCA34C4	Minor Project-I	-	100	100	0:2:0
	Total				28 Credits

Open Elective (O)	
To be Chosen from the pool of Open Electives provided by the University (excluding the open elective prepared by the Department of Comp Sc. & Appls.)	3

Total Credits= 31 Credits

*20 marks out of 100 will be based on the evaluation/assessment of the candidate in Test(s) and Assignment(s) during the semester, which will be forwarded by the Head of Dept./Director to the Examiner(s). Further, both practical exams of a semester may be conducted on the same day in 2 sittings each maximum of 3 hours.

GANGA INSTITUTE OF TECHNOLOGY & MANAGEMENT, KABLANA ★ DIRECTOR

MCA Third Year

Semester-V

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits (L:T:P)
18MCA35C1	Advanced Technology	80	20	100	4:0:0
18MCA35C2	Soft Computing	80	20	100	4:0:0
18MCA35C3	Data Warehousing and Data Mining	80	20	100	4:0:0
18MCA35DA1/ 18MCA35DA2/ 18MCA35DA3	(i) Cloud Computing or (ii) Big Data Analytics or (iii) Software Testing and Quality Assurance	80	20	100	4:0:0
18MCA35DB1/ 18MCA35DB2/ 18MCA35DB3	(i) Internet of Things or (ii) Mobile Computing or (iii) Embedded Systems	80	20	100	4:0:0
18MCA35CL1	Software Lab-9 .NET Programming Using C#	100*	----	100	0:0:3
18MCA35CL2	Software Lab-10 Soft Computing	100*	----	100	0:0:3
18MCA35C6	Minor Project-II	-	100	100	0:2:0
	Total				**28 Credits**
Open Elective (O)					
To be Chosen from the pool of Open Electives provided by the University (excluding the open elective prepared by the Department of Comp Sc. & Appls.)					3

Total Credits= 31 Credits

* 20 marks out of 100 will be based on the evaluation/assessment of the candidate in Test(s) and Assignment(s) during the semester, which will be forwarded by the Head of Dept./Director to the Examiner(s). Further, both practical exams of a semester may be conducted on the same day in 2 sittings each maximum of 3 hours.

Semester-VI

Paper Code	Course	University Exams	Internal Assessment	Total Marks	Credits
18MCA36C1	Major Project	400	100	500	20 Credits
	Grand Total of 3 Years/Credits				**162 Credits**

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

(Established under Haryana Act No. XXV of 1975)

'A' Grade University accredited by NAAC

No.ACS-II/F-87/2017/ 1178-1217

Dated 19/1/17

To

All the Heads of the University Teaching Departments,
M.D.University,
Rohtak

Sub:- Minutes of the meeting of the CBCS Board- List of Syllabi of Foundation Elective and Open Elective Courses for the session 2016-17

Sir/Madam,

I am directed to enclose herwith the minutes of the meeting of CBCS Board held on 10.01.2017 on the subject cited above duly approved by the Vice-Chancellor under Section 9A(5) of MDU Act for your information and taking further necessary action in the matter.

The Syllabi of Foundation Elective courses and Open Elective Courses under CBCS are available on the University Website which may be got downloaded and instructions to the students may be imparted accordingly.

Yours faithfully,

Superintendent (Academic)
for REGISTRAR

Encl: As above

Endst. No.ACS-II/F-87/2017/ 1218-28 Dated:19.01.2017

Copy of the above is forwarded to the following for information and necessary action.

1. Director, IQAC, M.D.University, Rohtak
2. Controller of Examinations, M.D.University, Rohtak
3. Assistant Registrar(R-1,R-II/R-III/R-IV/Conduct/ Secrecy), M.D.University, Rohtak
4. P.A. to Dean,Academic Affiars, M.D.University, Rohtak
5. P.A. to Registrar, M.D.University, Rohtak

Superintendent (Academic)

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

(Established under Haryana Act No. XXV of 1975)

'A' Grade University accredited by NAAC

MINUTES FOR THE MEETING OF CBCS BOARD COMPRISING THE FOLLOWING CONSTITUTED BY THE VICE-CHANCELLOR HELD ON 10.01.2017 AT 4:00 P.M. IN THE OFFICE OF THE DEAN, ACADEMIC AFFAIRS, M.D. UNIVERSITY, ROHTAK TO CONSIDER THE MATTER REGARDING VARIOUS ISSUES RELATING TO SYLLABUS AND SOES OF FOUNDATION ELECTIVE AND OPEN ELECTIVE PAPERS OF PG COURSES UNDER CBCS FOR THE SESSION 2016-17.

Members present:

1. Dr. N.R. Garg, Dean - Chairman
2. Dr. P.K. Jaiwal
3. Dr. (Mrs.) Promila Batra
4. Dr. Surender Kumar
5. Prof. Hukum Chand
6. Dr. Narender Kumar
7. Dr. Bhagat Singh
8. Dr. Gulshan Taneja
9. Dr. Jitender Kumar
10. Dr. B.S. Sindhu

The following decisions were taken:-

1. Approved the following list of papers and Syllabi for the Foundation elective and Open Elective courses offered by various departments of the University under CBCS w.e.f. the session 2016-17 for the students of 2-year & 3-year programmes studying in the university teaching departments, UILMS, Gurgaon and affiliated colleges of the University:

A) Foundation Elective Courses (Each of 2 Credits)

Students of all PG programmes under CBCS (w.e.f. 2016-17) are required to study one foundation elective course in 2nd semester for 2 years Programmes and in 4th Semester for 3 years Programmes. They may choose any one of the following courses irrespective of their subjects of study.

Sr. No.	Nomenclature of the course	Course Code	Offered by the Department of
1	Basics of Accounting	16COMF1	Commerce
2	Basics of E-Commerce	16COMF2	Commerce
3	Elements of Banking	16COMF3	Commerce
4	Computer Fundamentals	16CSAF1	Computer Science & Applications
5	Appreciation of Short	16ENGF1	English & Foreign Languages

	Stories		
6	Appreciation of Poetry & Prose	16ENGF2	English & Foreign Languages
7	Appreciation of Fiction	16ENGF3	English & Foreign Languages
8	Appreciation of Drama	16ENGF4	English & Foreign Languages
9	Moral Education	16GENF1	Genetics
10	Geography in Everyday Life	16GEOF1	Geography
11	Hindi Language and Communication Skill	16HNDF1	Hindi
12	Entrepreneurship Development	16IMSF1	IMSAR
13	Communication and Soft Skills	16IMSF2	IMSAR
14	Media law	16LAWF1	Law
15	Appreciation of Indian Music	16MUSF1	Music
16	Psychology for Everyday Living	16PSYF1	Psychology

B) Open Elective Courses (Each of 3 Credits)

Students of all PG programmes under CBCS (w.e.f. 2016-17) are required to study one open elective course in each of the 2nd and 3rd Semesters for 2-Years Programmes and in each of the 4th and 5th semesters for 3-Years Programmes. They may choose any one of the following courses (excluding the courses offered by the departments of their own subjects, if not stated otherwise).

Sr. No.	Nomenclature of the course	Course Code	Offered by the Department	Offered for Semester
1	Principles and Applications of Agriculture Biotechnology-I	16CBTO1	Biotechnology	2nd Sem
2	Principles and Applications of Agriculture Biotechnology-II	16CBTO2	Biotechnology	3rd Sem
3	Principles and Applications of Biotechnology-I	16CBTO3	Biotechnology	2nd Sem
4	Principles and Applications of Biotechnology-II	16CBTO4	Biotechnology	3rd Sem
5	Basic Biochemistry	16BCHO1	Bio-Chemistry	2nd Sem
6	Human Health & Nutritional Disorders	16BCHO2	Bio-Chemistry	3rd Sem
7	Plant Resource Utilization	16BOTO1	Botany	2nd / 3rd Sem
8	Fundamental of Income Tax	16COMO1	Commerce	2nd / 3rd Sem
9	Cyber Forensic & Security	16CSAO1	Computer Science	2nd / 3rd Sem
10	National Security of India	16DSSO1	Defence & Strategic Studies	2nd / 3rd Sem
11	Fundamental Aspects of Education	16EDUO1	Education	2nd Sem

12	Trends and Concerns of Teacher Education	16EDUO2	Education	3rd Sem
13	Environmental Issues	16ENVO1	Environmental Science	2nd Sem
14	Disaster Management	16ENVO2	Environmental Science	3rd Sem
15	Food Adulteration	16FTEO1	Food Technology	2nd / 3rd Sem
16	Genetics & Society	16GENO1	Genetics	2nd Sem
17	Forensic Science	16GENO2	Genetics	3rd Sem
18	Basics of Geoinformatics	16GEOO1	Geography	2nd / 3rd Sem
19	Bhartiya Sahitya	16HNDO1	Hindi	2nd / 3rd Sem
20	Fundamentals of Management	16IMSO1	IMSAR	2nd Sem
21	Fundamentals of Marketing	16IMSO2	IMSAR	3rd Sem
22	Family Law	16LAWO1	Law	2nd Sem
23	Constitutional Law	16LAWO2	Law	3rd Sem
24	Academic Integrity & Plagiarism	16LISO1	Library & Information Science	2nd Sem
25	Information Sources and Literacy	16LISO2	Library & Information Science	3rd Sem
26	Mathematical Techniques and Applications	16MATO1	Mathematics	2nd Sem
27	Parametric & Non-Parametric Tests	16MATO2	Mathematics	2nd Sem
28	Statistical Tools using SPSS	16MATO3	Mathematics	3rd Sem
29	MATLAB	16MATO4	Mathematics	3rd Sem
30	Microbial World-Diversity and Applications	16MCBO1	Microbiology	2nd Sem
31	Microbial Technology for Entrepreneurship	16MCBO2	Microbiology	3rd Sem
32	Sources of Energy-I	16PHYO1	Physics	2nd Sem
33	Sources of Energy-II	16PHYO2	Physics	3rd Sem
34	Media & Society	16JRMO1	Journalism	2nd / 3rd Sem
35	Ancient Indian Culture & Philosophy	16SKTO1	Sanskrit	2nd / 3rd Sem
36	Quantitative Techniques	16STAO1	Statistics	2nd Sem
37	Sampling & Estimation Techniques	16STAO2	Statistics	3rd Sem
38	Optimization Techniques	16STAO3	Statistics	2nd / 3rd Sem
39	Applied Zoology	16ZOOO1	Zoology	2nd Sem
40	Wild Life and Conservation	16ZOOO2	Zoology	3rd Sem

2. The Board considered the Syllabus of Bhartiya Sahitya recommended by the PG Board of Studies in Hindi and resolved that the Syllabus be reconsidered by the local members of PGBOS upto 11.01.2017 positively for minor changes. Dr. (Mrs.) Promila Batra, Dean, Faculty of Social Sciences and Dr. Surender Kumar, Dean, Faculty of Humanities be invited in the meeting for the suggestions. The Board authorizes the DAA to approve the revised syllabus.

3. The Board deleted the papers of "Communication skills" offered by the Departments of Biotechnology, Environmental Science and Zoology from the list of the Foundation Elective Papers.

Following Departments agreed to prepare the papers on Communication / Soft Skills for including the same in the list of foundation elective courses:

- Department of Psychology
- IMSAR

These departments are requested to prepare the syllabi of the said papers at the earliest so that the same be uploaded on the website of the University without any further dealy.

4. The board decided that the classes of foundation/open elective papers be held from 8:45 A.M. to 9:45 AM on the following days:

Foundation Elective	Monday & Tuesday
Open Elective	Wednesday to Friday/Saturday

Sd/-

DEAN ACADEMIC AFFAIRS

Sd/-

DIRECTOR, IQAC

MINUTES OF THE MEETING OF THE BOARD OF STUDIES IN ENGINEERING AND TECHNOLOGY HELD ON 12.04.2018 AT 11.30 PM IN THE OFFICE OF THE CHAIRMAN, B.O.S., UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY, ROHTAK

A meeting of Board of Studies in Engineering & Technology was held on 12.04.2018 at 11.30 PM in the office of the Chairman, B.O.S. University Institute of Engineering & Technology, M.D. University, Rohtak.

The following members attended the meeting: -

1. Dr. Rahul Rishi, Dean & Director, UIET	Chairman
2. Dr. Yudhvir Singh, Professor, CSE, UIET	Member
3. Dr. Vineet Kumar, Professor, ME, UIET	Member
4. Dr. Sonia, Professor, Biotech, UIET	Member
5. Dr. Manvender Singh, Professor, Biotech, UIET	Member
6. Dr. (Col.) Suresh Kumar, AP, ECE, UIET	Member
7. Dr. Manjeet Kaur, AP, Biotech, UIET	Member
8. Mrs. Meena Kumari, AP, EE, UIET	Member
9. Mrs. Manju Bala, AP, Applied Sciences, UIET	Member
10. Mr. Jitender Narwal (on behalf of Dr. Aman Aggarwal)	Member
11. Dr. J.S. Saini, Professor, DCRUST, Murthal	Outside Expert
12. Dr. C.C. Tripathi, Professor, UIET, KUK	Outside Expert

At the outset, the Chairman B.O.S in Engineering & Technology welcomed all the members of BOS who attended the meeting.

Item No. 1

Ph.D Registration cases:-

Following students have successfully presented their cases for Ph.D Registration before the Departmental Committee and Departmental Research Committee. DRC has recommended the cases to B.O.S.

S.N.	Name of Candidate	Topic of Research	Name of Supervisor / Co-Supervisor	Subject
1	Mr. Amit Kumar S/o Sh. Kaptan Singh	DEVELOPMENT OF ALUMINIUM MATRIX COMPOSITE USING FRICTION STIR PROCESSING FOR ITS SURFACE MODIFICATION	Dr. Vineet Kumar, Professor, Dept of Mechanical Engineering, UIET, M.D. University, Rohtak	Mechanical Engineering
2	Mr. Omdev S/o Sh. Vedanand	DESIGN AND DEVELOPMENT OF EFFECTIVE REGRESSION TEST CASE PRIORITIZATION	Dr. Kamna, Assistant Professor, Dept. of Computer Science & Engineering, UIET, M.D. University, Rohtak	Computer Science & Engineering

Scanned by CamScanner

		TECHNIQUE		
3	Mr. Sunil Duhan S/o Sh. Karan Singh	EXPERIMENTAL ANALYSIS ON MECHANICAL BEHAVIOUR OF FRICTION STIR WELDED ALUMINUM	Dr. Prabhakar Kaushik, Associate Professor, Dept. of Mechanical Engineering, UIET, M.D. University, Rohtak	Mechanical Engineering
4	Mr. Dhiraj Khurana S/o Sh. Sudarshan Khurana	HYBRID MODEL FOR RECOMMENDER SYSTEM USING EFFECTIVE LEARNING METHODS	Dr. Sunita Dhingra, Assistant Professor, Dept. of Computer Science & Engineering, UIET, M.D. University, Rohtak	Computer Science & Engineering
5	Mr. Sachin S/o Sh. Subhash Chander	NEW DATA HIDING MODEL FOR COVERT COMMUNICATION	Dr. Kamaldeep, Assistant Professor, Dept. of Computer Science & Engineering, UIET, M.D. University, Rohtak / Dr. Ashok Kumar Yadav, Assistant Professor, Dept. of Computer Science & Engineering, Amity School of Engg. & Tech., New Delhi	Computer Science & Engineering
6	Mr. Lalit Gandhi S/o Sh. Mohinder Pal Gandhi	DESIGN OF AN ENHANCED MODEL FOR TEMPORAL DATA MANAGEMENT	Dr. Rahul Rishi, Professor, Dept. of Computer Science & Engineering, UIET, M.D. University, Rohtak	Computer Science & Engineering
7	Mr. Sandeep S/o Sh. Ranbir Singh Deswal	PROCESS PARAMETERS OPTIMIZATION OF 3D PRINTING FDM PROCESS USING COMPOSITE MATERIALS FOR PERFORMANCE ANALYSIS OF END-USE PARTS APPLICATIONS THROUGH EVOLUTIONARY ALGORITHMS.	Dr. Deepak Chhabra, Assistant Professor, Dept. of Mechanical Engineering, UIET, M.D. University, Rohtak	Mechanical Engineering
8	Mr. Rajan S/o Sh. Amarnath	EXPERIMENTAL INVESTIGATIONS AND RECUPERATING MECHANICAL PROPERTIES & SURFACE TOPOLOGY OF 3D PRINTED PARTS BY USING HYBRID TECHNIQUES	Dr. Deepak Chhabra, Assistant Professor, Dept. of Mechanical Engineering, UIET, M.D. University, Rohtak	Mechanical Engineering
9	Mr. Manoj S/o Sh. Narender Singh	SYNTHESIS AND CHARACTERISATION OF NOVEL LIGHT EMITTING RARE EARTHS METAL COMPLEXES FOR ORGANIC LIGHT EMITTING DIODES	Dr. Rajesh Kumar Lather, Assistant Professor, Applied Sciences (Chemistry), UIET, M.D. University, Rohtak	Applied Sciences (Chemistry)
10	Mrs. Savita D/o Rajpal Singh	SYNTHESIS, CHARACTERISATION AND PHOTOLUMINESCENCE PROPERTIES OF ORGANIC METAL COMPLEXES FOR DISPLAY DEVICES	Dr. Rajesh Kumar Lather, Assistant Professor, Applied Sciences (Chemistry), UIET, M.D. University, Rohtak	Applied Sciences (Chemistry)

Scanned by CamScanner

After detailed deliberations, B.O.S recommends the above cases for Ph.D registrations.

Item No. 2

S.O.E and syllabus of B.Tech 1st year as per AICTE Model Curriculum w.e.f the session 2018-19

Board of Studies in Engineering & Technology considered and approved the S.O.E and syllabus of B.Tech 1st year (Common to all branches) as per AICTE Model Curriculum w.e.f session 2018-19 along with mandatory induction programme.

Item No. 3

The panel of examiners to evaluate the Ph.D thesis of the following students have been approved.

1. Mr. Sanjay Singla

The meeting ended with a Vote of thanks to the Chair.

23-4-18

Director
Chairman (B.O.S.)/
U.I.E.T. M.D. University,
DIRECTOR (UIET)
ROHTAK

Endst. No. UIET/2018/ 579-603 **Dated:** 23/4/18

Copy of the above is forwarded to the following for information and further necessary action: -

1. All the members of the Board of Studies in Engineering & Technology, MDUR
2. The A.R. (R&S), M.D. University, Rohtak along with all relevant record (For item No. 1)
3. The A.R. (Academic), M.D. University, Rohtak along with S.O.E & syllabus in the shape of hard copy as well as soft copy. (For item no. 2)
4. The A.R. (Secy.), M.D. University, Rohtak along with panel of Examiners. (For item no. 3)

23-4-18

Chairman (B.O.S.)/
U.I.E.T. M.D. University,
DIRECTOR (UIET)
ROHTAK

Encl: As above

Scanned by CamScanner

MINUTES OF THE MEETING OF THE BOARD OF STUDIES IN ENGINEERING AND TECHNOLOGY HELD ON 18/07/2019 AT 10.300 AM IN THE OFFICE OF THE CHAIRMAN, B.O.S., UNIVERSITY INSTITUTE OF ENGINEERING AND TECHNOLOGY, ROHTAK

A meeting of Board of Studies in Engineering & Technology was held on 18/07/2019 at 10.30 am in the office of the Chairman, B.O.S. University Institute of Engineering & Technology, M.D. University, Rohtak.

The following members attended the meeting: -

1. Dr. Rahul Rishi, Director, UIET	Chairman
2. Dr. Vineet Kumar, Professor, ME, UIET	Member
3. Dr. Yudhvir Singh, Professor, CSE, UIET	Member
4. Dr. Sonia, Professor, Biotech, UIET	Member
5. Dr. Manvender Singh, Biotech, UIET	Member
6. Dr. Ashwani Dhingra, Associate Professor, ME, UIET	Member
7. Dr. (Col.) Suresh Kumar, AP, ECE, UIET	Member
8. Mrs. Meena Kumari, AP, EE, UIET	Member
9. Dr. Shamsher Singh, AP, ECE	Member
10. Ms. Manju Bala, AP, Physics	Member
11. Mr. Jitender Kumar	Special Invitee
12. Mr. Jitender Singh	Special Invitee
13. Mr. Ankit Bansal	Special Invitee

At the outset, the Chairman B.O.S in Engineering & Technology welcomed all the members of BOS who attended the meeting.

Item No. 1

S.O.E and syllabus of B.Tech 2nd year (B.Tech. (ECE), B.Tech. (ETE), B.Tech. (EE) and B.Tech. (Fire Technology & Safety) w.e.f the session 2019-20

Board of Studies in Engineering & Technology considered and approved the S.O.E and syllabus of B.Tech 2nd year for the following programmes w.e.f session 2019-20:

1. B.Tech (Electronics and Communication Engineering)
2. B.Tech (Electronics and Tele Communication)
3. B.Tech (ELECTRICAL ENGINEERING)
4. B.Tech (Fire Technology and Safety)

Director 7.19
U.I.E.T, M.D. University,

Scanned by CamScanner

Item No. 2

The panel of examiners to evaluate the Ph.D thesis of the following students have been approved.

1. Ms. Usha Bhocal
2. Mr. M. K. Datta

Item No. 3

Change of Ph.D. Supervisor of Mr. Ashish Bhardwaj

B.O.S. considered the approval the change of Ph.D. Supervisor from Prof. A. K. Patra to Dr. Ajit Kumar Pattanayak. Prof. A. K. Patra shall act as co-supervisor for which consent has been given.

The meeting ended with a Vote of thanks to the Chair.

18.7.19

Director
Chairman (B.O.S.)/
U.I.E.T., M.D. University,
ROHTAK
DIRECTOR (UIET)

Endst. No. UIET/2019/....824-827 **Dated:** ....18/7/19.....

Copy of the above is forwarded to the following for information and further necessary action: -

1. All the members of the Board of Studies in Engineering & Technology, MDUR
2. The A.R. (Academic), M.D. University, Rohtak along with S.O.E & syllabus in the shape of hard copy as well as soft copy. (For item no. 1)
3. The A.R. (Secy.), M.D. University, Rohtak along with panel of Examiners. (For item no. 2)
4. The A.R. (R&S), MDU, Rohtak along with all relevant documents (For Item No. 3)

18.7.19

Chairman (B.O.S.)/
DIRECTOR (UIET)
Director
U.I.E.T., M.D. University,
ROHTAK

Encl: As above

Scanned by CamScanner

MINUTES OF THE MEETING OF THE FACULTY IN ENGINEERING AND TECHNOLOGY HELD ON 13.08.2018 AT 11.00 AM IN THE OFFICE OF DIRECTOR, UIET, M.D. UNIVERSITY, ROHTAK

A meeting of the Faculty in Engineering and Technology was held on 13.08.2018 at 11.00 AM in the office of Director, UIET, M.D. University, Rohtak. The following attended the meeting: -

1. Dr. Rahul Rishi, Dean & Director, UIET	Chairman
2. Dr. Yudhvir Singh, Prof., CSE	Member
3. Dr. Manvender, Prof., Biotech	Member
4. Dr. Ashwani Dhingra, Assoc. Prof., ME	Member
5. Mrs. Amita Dhankhar, AP, CSE	Member
6. Mr. Pardeep Gahlot, AP, ME	Member
7. Dr. Vipin Kumar, AP, EE	Member
8. Dr. Anil Sangwan, AP, ECE	Member
9. Mrs. Savita, AP, Chemistry	Member

At the outset, the Dean, Faculty of Engineering & Technology welcomed all the members who attended the meeting.

Item No. 1

Considered the recommendations of BOS in Engineering & Technology made vide Reso. No. 2 of its meeting held on 24.07.2018 that the component of tutorial of 1 hour duration be introduced in the subject of English (HSM-ENG-101G) and minor changes in SOE for B.Tech 1st year (Common for all branches) w.e.f. 2018-19 be made as per Annexre-1 Pages 1-7. (Already circulated)

RESOLVED THAT THE SCHEME OF EXAMINATIONS OF THE ABOVE COURSE BE RECOMMENDED TO ACADEMIC COUNCIL FOR APPROVAL. SINCE THE MEETING OF ACADEMIC COUNCIL IS NOT GOING TO BE HELD IN NEAR FUTURE AND THE CLASSES SHALL COMMENCE SHORTLY, THE SCHEME OF EXAMINATION MAY BE GOT APPROVED FROM THE VICE-CHANCELLOR IN ANTICIPATION OF THE APPROVAL OF ACADEMIC COUNCIL.

Item No. 2

Considered the recommendations of BOS in Engineering & Technology made vide Reso. No. 5 of its meeting held on 06.10.2017 that in other department the open and foundation electives under CBCS and have SOE such that open elective is of 100 marks (80 theory + 20 sessional) and foundation elective is of 50 marks (40 theory + 10 sessional).

IT WAS RESOLVED THAT THE COURSE OFFERED BY UIET UNDER OPEN AND FOUNDATION ELECTIVE UNDER CBCS ALSO CARRY THE SAME DISTRIBUTION OF MARKS w.e.f. 2016-17.

14.8.18

Dean

Faculty of Engg. &
Technology.

MAHARSHI DAYANAND UNIVERSITY ROHTAK

(Established under Haryana Act No. XXV of 1975)
'A+' Grade University accredited by NAAC

No. ACS-III/2020/ 1454-91
Dated: 06.02.2020

To

All the Heads of the Departments,
M. D. University,
Rohtak.

Sub.: Supply the syllabus of U.G courses under CBCS from the session 2020-21

Sir/Madam,

Kindly refer to this office letter dated 20.01.2020 on the subject cited above (copy enclosed).

In this connection, I am directed to request you that syllabus and SOE of U.G courses under CBCS from the session 2020-21 may be got recommended from UG Board of Studies upto 28.02.2020 positively, so that the matter may be placed before the concerned Faculties for consideration. The guidelines for U.G programmes under CBCS have already been sent by this office vide letter under reference. It is also requested that the syllabus prepared by the UGC, New Delhi of U.G courses available on its website may be consulted.

This may be treated as most urgent.

Yours faithfully,

7/2/20

Encls. As above.

Asstt. Registrar (Academic)
For Registrar

Endst. No. ACS-III/2020/ 1492-94 Dated 07-02-2020

Copy of the above is forwarded to the following for information and taking further necessary action:

1. O.S.D to Registrar, M. D. University, Rohtak.
2. P.A to Dean Academic Affairs, M. D. University, Rohtak (for kind information of D.A.A).
3. Director, UCC, M. D. University, Rohtak.

7/2/20.

Asstt. Registrar (Academic)
For Registrar

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

(Established under Haryana Act No. XXV of 1975)

'A+' Grade University accredited by NAAC

No.ACS-II/F-101/2020/ 630-80
Dated: 20-01-2020

To

1. All the Dean of the Faculties, M.D.University, Rothak
2. All the Heads of the Departments, M.D.University, Rohtak

Sub: **Minutes of the meeting of the committee held on 18.12.2019**

Sir/Madam,

Please find enclosed herewith a copy of minutes of the meeting of the committee held on 18.12.2019 in the Committee Room adjacent to Registrar's Office to recommend the guidelines/ordinance under CBCS for UG Programmes from the Session 2020-21 duly approved by the Vice-Chancellor.

Further, regarding point No. 3 of the minutes, it is intimated that the Vice-Chancellor has passed orders that learning outcomes be first prepared by the concerned HODs along with concerned DC/UGBOS

This is for your information and taking further necessary action accordingly.

Yours faithfully,

23.01.2020

Superintendent (Academic)
For Registrar

Encl.: As above.

Copy to:

P.A. to Dean Academic Affairs (for kind information of the Dean Academic Affairs)

MAHARSHI DAYANAND UNIVERSITY, ROHTAK

(Established under Haryana Act No. XXV of 1975)
'A' Grade University accredited by NAAC

MINUTES OF THE MEETING OF COMMITTEEE TO RECOMMEND THE GUIDELINES/ORDINANCE UNDER CBCS FOR U.G. PROGRAMME FROM THE SESSION 2020-21 IN THE COMMITTEE ROOM ADJACENT TO REGISTRAR OFFICE, M.D.UNIVERSITY, ROHTAK HELD ON 18-12-19.

The following Members were present:-

1. Prof. Ajak. K.Rajan, Dean, Academic Affairs	Chairman
2. Prof. Nina singh, Dean, Faculty of Social Sciences	Member
3. Prof. Surender Kumar, Dean, Faculty of Humanities	Member
4. Prof. Raj Kumar, Dean, Faculty of Management Sciences	Member
5. Prof. R.R. Saini, Dean, Faculty of Commerce	Member
6. Prof. Pushpa Dahiya, Dean, Faculty of Life Sciences	Member
7. Prof. A.S. Maan, Dean, Faculty of Physical Sciences	Member
8. Prof. Vineet Kumar, Dean, Faculty of Engineering & Technology	Member
9. Prof. Sushma Singh, Dean, Faculty of Performing & Visual Arts	Member
10. Assistant Registrar, Academic	Member

1. The Committee perused the minutes of earlier meeting dated 18.05.2019 and deliberated upon the issue at length and recommended that as per UGC guidelines with regard to Choice Based Credit System at UG level total credits for B.A., B. Com. and B.Sc. be kept as 132. (Annexure- I pages 1-2.)
2. The detailed guidelines for B.A., B.Sc. and B.Com. (Hons.) be framed later on.
3. Graduate attributes and learning outcomesof B.A., B.Com., B.Sc. and B.B.A. be prepared by the concerned Deans of the Faculties as under:

Name of the course	Name of the members
1. B.A.	i) Dean, Faculty of Social Sciences ii) Dean, Faculty of Humanities
2. B.Sc. & BCA	i) Dean, Faculty of Physical Sciences ii) Dean, Faculty of Life Sciences
3. B.Com.	Dean, Faculty of Commerce
4. B.B.A.	Dean, Faculty of Management Sciences

(Note: Some other member/(s) may be associated with the Committee by the concerned Dean of the Faculties.)

4. The above job be completed within two weeks times

(Ajay K. Rajan)

(Nina Singh)
18.12.2019

(Surender Kumar)

(Raj Kumar)

(R.R. Saini)

Agree with the observation made by Prof. Nina Singh
(Pushpa Dahiya)

Agree with observation given below
(A.S.Maan)

(Vineet Kumar)

(Sushma Singh)

(M.L. Batra)

Reg. point no. 3: Framing learning outcomes can be dealt appropriately by respective HODs alongwith concerned DC | UGBOS only.

18.12.2019

MAHARSHI DAYANAND UNIVERSITY ROHTAK

(A State University established under Haryana Act No. XXV of 1975)
'A+' Grade University Accredited by NAAC

Minutes of the meeting of the Committee comprising the following held on 08.05.2019 at 3:00 P.M. in Committee Room adjacent to the Registrar's office, M.D.University, Rohtak to discuss the issues pertaining the introductions of CBCS in UG programmes from Session 2019-20.

Members present:-

1. Dr.A.K Rajan, Dean Academic Affairs — Chairman
2. Dr. Surender Kumar, Dean, Faculty of Humanities
3. Dr. (Mrs.) Priti Jain, Dean, Faculty of Physical Sciences
4. Dr. Pushpa Dahiya, Dean, Faculty of Life Sciences
5. Prof. Hukam Chand, Dean, Faculty of Performing & Visual Arts
6. Dr. Munish Garg, Dean, Faculty of Pharmaceutical Sciences
7. Dr. R.R. Saini, Dean, Faculty of Commerce
8. Dr. Vineet Kumar, Dean, Faculty of Engg. & Tech.
9. Dr. Gulshan Taneja, Registrar
10. Dr. G.P. Saroha, Director, UCC
11. Dr. B.S. Sindhu, Controller of Examinations
12. Sh. Rajeev Sharma, Deputy Registrar (Academic)

Dr. Nina Singh, Dean, Faculty of Social Sciences could not attend the meeting.
Dr. Raj Kumar, Dean, Faculty of Management Sciences could not attend the meeting.

The committee considered the UGC guidelines for CBCS at UG level and Instructional template facilitating implementation of Choice Based Credit System (CBCS) and recommended the Schemes B.A /B.Com and B.Sc. under CBCS from the Session 2019-20 as under:-

Annexure - I

SCHEME FOR CHOICE BASED CREDIT SYSTEM IN B.A/B.COM

	CORE COURSE (12)/ Credit Paper+Pr:- 12*4=48 12*2=24 Paper+Tut. 12*5=60 12*1=12	Ability Enhancement Compulsory Course (AECC) (4)/ Credit Credit of each Paper=04	Skill Enhancement Course (SEC) (4) Credit of each Paper=04	Discipline Specific Elective DSE (4) Credit of each Paper=06	Generic Elective GE (2) Credit of each Paper=06
I	English/Hindi/ MIL-I 18 DSC-1 A DSC-2 A	(English/Hindi/MIL Communication) 04 Environmental Science	Nil		
II	Hindi/MIL/ English-I 18 DSC -1 B DSC-2 B	Environmenal Science /(English/Hindi/MIL Communication) 04	Nil		
III	English/Hindi/ MIL-2 18 DSC-1 C DSC- 2 C	(English/Hindi/MIL Communication) Environmental Science 04	SEC-1 04		
IV	Hindi/MIL/ English-2 18 DSC- 1 D DSC-2 D	Environmental Science /(English/Hindi/MIL Communication) 04	SEC-2 04		
V	Nil	Nil	SEC-3 04	DSE-1A 06 DSE-2A 06	GE-I 6
VI	Nil	Nil	SEC-4 04	DSE-1B 06 DSE-2B 06	GE-II 6
Total Credit	72	16	16	24	12
				Total Credits	140

SCHEME FOR CHOICE BASED CREDIT SYSTEM IN B.Sc.

	CORE COURSE (12) Paper+Pr:- 12*4=48 12*2=24 Paper+Tut. 12*5=60 12*1=12	Ability Enhancement Compulsory Course (AECC) (2)/Credit of each paper=4	Skill Enhancement Course (SEC) (4))/Credit of each paper=4	Discipline Specific E DSE (9))/Credit o each paper=6
I	DSC-1 A 18	(English/Hindi/MIL Communication) Environmental Science 04		
	DSC-2 A			
	DSC-3 A			
II	DSC-1 B 18	Environmental Science /(English/Hindi/MIL Communication) 04		DSE-1 A 18
	DSC-2 B			DSE-2 A
	DSC-3 B			DSE-3 A
III	DSC- 1C 18		SEC-1 04	
	DSC-2 C			
	DSC- 3 C			
IV	DSC-1 D 18		SEC-2 04	
	DSC- 2 D			
	DSC-3 D			
V	–		SEC-3 04	DSE-1 B 18
				DSE-2 B
				DSE-3 B
VI	–		SEC-4 04	DSE-1 C 18
				DSE-2 C
				DSE-3 C
	72	08	16	54
		Total Credits	150	

However, above Scheme need to be reconsidered, since as per UGC Guidelines total credit score earned will not exceed 140 for UG courses.

(Dr. A.K Rajan)

(Dr. Surender Kumar)

(Dr. (Mrs.) Priti Jain)

(Dr. Pushpa Dahiya)

(Dr. Nina Singh)

(Prof. Hukam Chand)

(Dr. Munish Garg)

(Dr. R.R. Saini)

(Dr. Raj Kumar)

(Dr. Vineet Kumar)

(Dr. Gulshan Taneja)

(Dr. G.P. Saroha)

(Dr. B.S. Sindhu)

(Sh. Rajeev Sharma)