

Annex I

**M.D. UNIVERSITY, ROHTAK**  
**SCHEME OF STUDIES & EXAMINATION**  
**MASTER OF TECHNOLOGY COURSE IN CIVIL ENGINEERING**  
**SPECIALIZATION: TRANSPORTATION ENGINEERING**  
**FIRST SEMESTER**      w.e.f. 2011-12

Sub. Code	Subjects	Teaching Schedule			Marks			Credits			Duration of Exam
		L	T	P	Sessional	Exam.	Total	Sessional	Exam.	Total	
CE 641	Transportation Systems Planning	3	1	0	50	100	150	2	4	6	3
CE 643	Highway and Airport Pavement Materials	3	1	0	50	100	150	2	4	6	3
	Professional Elective-I	3	1	0	50	100	150	2	4	6	3
	Professional Elective-II	3	1	0	50	100	150	2	4	6	3
	Professional Elective-III	3	1	0	50	100	150	2	4	6	3
CE 681	Computational Laboratory	0	0	3	50	50	100	2	2	4	3
CE 677	Transportation Engineering Laboratory	0	0	3	50	50	100	2	2	4	3
CE 685	Seminar & Technical Writing-I	0	0	3	50	50	100	2	2	4	3
<b>Total</b>		<b>15</b>	<b>5</b>	<b>9</b>	<b>400</b>	<b>650</b>	<b>1050</b>	<b>16</b>	<b>26</b>	<b>42</b>	

Note: 1. The 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, C, D and E. The Examination of practical courses shall also be evaluated on the basis of three grades.

2. The Sessionals of Theory/Practical 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.

**M.D. UNIVERSITY, ROHTAK**  
**SCHEME OF STUDIES & EXAMINATION**  
**MASTER OF TECHNOLOGY COURSE IN CIVIL ENGINEERING**  
**SPECIALIZATION: TRANSPORTATION ENGINEERING**  
**SECOND SEMESTER**

Sub. Code	Subjects	Teaching Schedule			Marks			Credits			Duration of Exam
		L	T	P	Sessional	Exam.	Total	Sessional	Exam.	Total	
CE 640	Analysis and Structural Design of Pavements	3	1	0	50	100	150	2	4	6	3
CE 604	Finite Element Method	3	1	0	50	100	150	2	4	6	3
	Professional Elective-IV	3	1	0	50	100	150	2	4	6	3
	Professional Elective-V	3	1	0	50	100	150	2	4	6	3
	Professional Elective-VI	3	1	0	50	100	150	2	4	6	3
CE 676	Transportation Engineering Design Practice	0	0	3	50	50	100	2	2	4	3
CE 686	Traffic & Transportation Engineering Laboratory	0	0	3	50	50	100	2	2	4	3
CE 689	Seminar & Technical Writing-II	0	0	3	50	50	100	2	2	4	3
<b>Total</b>		<b>15</b>	<b>5</b>	<b>9</b>	<b>400</b>	<b>650</b>	<b>1050</b>	<b>16</b>	<b>26</b>	<b>42</b>	

Note : 1. The 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, C, D and E. The Examination of practical courses shall also be evaluated on the basis of three grades.

2. The Sessionals of Theory/Practical 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

Signature

There is no change in paper code and nomenclature only Marks of Exam. & Sessional have been mentioned.

**MASTER OF TECHNOLOGY COURSE IN CIVIL ENGINEERING  
SPECIALIZATION: TRANSPORTATION ENGINEERING  
THIRD SEMESTER**

Sub. Code	Subjects	Teaching Schedule			Marks			Credits			Duration of Exam
		L	T	P	Sessional	Exam.	Total	Sessional	Exam.	Total	
CE 691	Seminar & Technical Writing - III	0	0	3	50	100	150	2	2	4	3
CE 693	Summer Research/Industrial Project	0	0	0	50	100	150	2	4	6	3
CE 695	Research Project Work -I	0	0	0	100	200	300	4	8	12	3
CE 697	Research Project Review -I	0	0	0	100	200	300	4	8	12	3
<b>Total</b>		<b>0</b>	<b>0</b>	<b>3</b>	<b>300</b>	<b>600</b>	<b>900</b>	<b>12</b>	<b>22</b>	<b>34</b>	

- Note : 1. The 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,C,D & E. The Examination of practical courses shall also be evaluated on the basis of three grades.  
 2. The Sessionals of Theory/Practical 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.

**M.D. UNIVERSITY, ROHTAK  
SCHEME OF STUDIES & EXAMINATION  
MASTER OF TECHNOLOGY COURSE IN CIVIL ENGINEERING  
SPECIALIZATION: TRANSPORTATION ENGINEERING  
FOURTH SEMESTER**

Sub. Code	Subjects	Teaching Schedule			Marks			Credits			Duration of Exam
		L	T	P	Sessional	Exam.	Total	Sessional	Exam.	Total	
CE 692	Seminar & Technical Writing - IV	0	0	3	50	100	150	2	2	4	3
CE 694	Comprehensive Viva Voce	0	0	0	50	100	150	2	4	6	3
CE 696	Research Project Work -II	0	0	0	100	200	300	4	8	12	3
CE 698	Research Project Review -II	0	0	0	50	100	150	2	4	6	3
CE 699	Dissertation	0	0	0	100	200	300	4	8	12	3
<b>Total</b>		<b>0</b>	<b>0</b>	<b>3</b>	<b>350</b>	<b>700</b>	<b>1050</b>	<b>14</b>	<b>26</b>	<b>40</b>	

- Note : 1. Sessionals of Dissertation Course shall be evaluated on the basis of the grades out of A+, A,B,C,D & E.  
 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 & Examinations.

- 3 -  
M.D. UNIVERSITY, ROHTAK  
SCHEME OF STUDIES & EXAMINATION  
MASTER OF TECHNOLOGY COURSE IN CIVIL ENGINEERING  
SPECIALIZATION: TRANSPORTATION ENGINEERING

LIST OF ELECTIVE SUBJECTS

CE 617	Bridge Engineering	3-1-0	4
CE 642	Traffic Engineering & Traffic Flow Theory	3-1-0	4
CE 644	Planning & Design of Airports	3-1-0	4
CE 645	Geometric Design of Highways	3-1-0	4
CE 647	Transportation & Environment	3-1-0	4
CE 646	Evaluation and Strengthening of Pavements	3-1-0	4
CE 648	Transportation Systems, Analysis & Modelling	3-1-0	4
CE 649	Advanced Railway Engineering	3-1-0	4



*Signature*

**W.D. UNIVERSITY, RAIPUR**  
**SCHEME OF STUDIES & EXAMINATION**  
**MASTER OF TECHNOLOGY COURSE IN CIVIL ENGINEERING**  
**SPECIALIZATION: TRANSPORTATION ENGINEERING**

The performance of the student of M.Tech Civil Engineering Course shall be graded on the basis of percentage of marks and corresponding grades as mentioned below:

A)

Marks		Grade		Marks
85	<	A+	<	100
75	<	A	<	85
60	<	B	<	75
50	<	C	<	60
40	<	D	<	50
00	<	E	<	40

Letter Grades	Performance	Division
A+	Excellent	First
A	Very Good	First
B	Good	First
C	Fair	Second
D	Pass	Third
E	Repeat	Fail

**Note :** The candidate who have passed all the semesters examination in the first attempt obtaining at least 75% marks in aggregate shall be declared to have passed in the first division with Distinction mentioned in the degree.

B) Actual percentage of Marks Obtained and Corresponding grades should be mentioned on detailed marks certificate of student. To obtain 'D' grade a student must have secure at least 40% marks in each subject of the semester Examination.

C) Student who earned and 'E' grade or less than 40% marks in any subject shall have reappear in that subject.

