

**M.TECH CIVIL ENGINEERING**  
**(HIGHWAY ENGINEERING)**

**w.e.f**

**2014-15**

**KURUKSHETRA UNIVERSITY,**  
**KURUSKHETRA**

# SCHEME FOR M.TECH CIVIL ENGINEERING (HIGHWAY ENGINEERING)

## Semester-I

Sr. No.	Course No.	Subject	Teaching Schedule				Examination Schedule			Total	Duration of Exam
			L	T	P/D	Total	Sessional	Theory	Practical		
1	MCH-101	Traffic Engineering	3	1		4	40	60		100	3 Hours
2	MCH-102	Geometric Design of Highways	3	1		4	40	60		100	3 Hours
3	MCH-103	Pavement Materials	3	1		4	40	60		100	3 Hours
4		Elective-I	3	1		4	40	60		100	3 Hours
5	MCH-104	Traffic Lab	-	-	4	4	40		60	100	3 Hours
		<b>Total</b>	12	4	4	20	200	240	60	500	

## Semester-II

Sr. No.	Course No.	Subject	Teaching Schedule				Examination Schedule			Total	Duration of Exam
			L	T	P/D	Total	Sessional	Theory	Practical		
1	MCH-201	Pavement Analysis & Design	3	1		4	40	60		100	3 Hours
2	MCH-202	Pavement Construction ,Maintenance and Management	3	1		4	40	60		100	3 Hours
3	MCH-203	Public Transportation	3	1		4	40	60		100	3 Hours
4		Elective-II	3	1		4	40	60		100	3 Hours
5	MCH-204	Computational Lab	-	-	4	4	40		60	100	3 Hours
		<b>Total</b>	12	4	4	20	200	240	60	500	

### Semester-III

Sr. No.	Course No.	Subject	Teaching Schedule				Examination Schedule			Total	Duration of Exam
			L	T	P/D	Total	Sessional	Theory	Practical		
1	MCH-301	Highway Economics & Finance	3	1		4	40	60		100	3 Hours
2		Elective -III	3	1		4	40	60		100	3 Hours
3	MCH-302	Seminar	-	-	1	1	100			100	1 Hours
4		Dissertation/ Major Project Starts									
		<b>Total</b>	6	2	1	9	180	120	60	300	

### Semester-IV

Dissertation/ Major project Continued from III semester
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### List of Elective for M.Tech-Civil Engineering (Highway Engineering)

MCH-401	Statistics and Operation Research
MCH-402	Concrete Technology
MCH-403	Project Management
MCH-404	Bridge Engineering
MCH-405	Environment Impact Assessment
MCH-406	Highway Drainage Systems
MCH-407	Highway Planning
MCH-408	Transportation Safety and Environment

- The candidate will opt for one of these electives in each of I,II,III semesters in such a way so as not to opt the same elective more than once.

### Dissertation Grade

A>85%

B=75% - 85%

C=60% - 74%

D=50% - 59%

