

# School of Engineering & Technology

Course Structure for Postgraduate Programme of Master of Technology in Civil Engineering  
(M.Tech.-Transportation Engineering and Planning)

## Semester I

Sr. No.	Core Course	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs./Week)				Credits	Duration University Exam. (Hrs.)	CIA	Examination Scheme		Total Marks
				L	T	P	Total				T	P/O	
01	UC	17RDP101	Research Methodology	4	--	--	4	4	3	50	50	--	100
02	PC	PTR102	Transportation Economics and Evaluation	4	--	--	4	4	3	50	50	--	100
03	PC	PTR103	Highway Materials and Construction	4	--	--	4	4	3	50	50	--	100
04	PC	PTR104	Urban Transportation Planning	4	--	--	4	4	3	50	50	--	100
05	<b>Elective – I</b>												
	PE	PTRE01	Traffic Flow Theories	4	--	--	4	4	3	50	50	--	100
	PE	PTRE02	Bridge & Tunnel Engineering										
	PE	PTRE03	Decision Models in Management										
	PE	PTRE04	Transportation Software Laboratory.										
PE	PTRE05	Ground Improvement Techniques											
09	PC	PTR111	Lab practice-I			4	4	2	3	50	--	50	100
<b>Total</b>				<b>20</b>	<b>--</b>	<b>4</b>	<b>24</b>	<b>22</b>		<b>300</b>	<b>250</b>	<b>50</b>	<b>600</b>

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## Semester - II

Sr. No.	Core Course	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs./Week)			Credits	Duration University Exam. (Hrs.)	CIA	Examination Scheme			Total Marks
				T	P	Total				T	P/O	TW	
01	PC	PTR201	Traffic Engineering & Road Safety	4	--	4	4	3	50	50	--	--	100
02	PC	PTR202	Pavement Analysis & Design	4	--	4	4	3	50	50	--	--	100
03	PC	PTR203	Operation , Maintenance& Management of Pavements	4	--	4	4	3	50	50	--	--	100
04	PC	PTR204	Regional Transport System & Planning	4	--	4	4	3	50	50	--	--	100
05	Elective – I												
	PE	PTRE05	Railway and Airport engineering.	4	--	4	4	3	50	50	--	--	100
	PE	PTRE06	Transportation Network Analysis and Optimization										
	PE	PTRE07	Highway Soil mechanics										
	PE	PTRE08	Computer aided analysis and design										
06	PC	PTR211	Lab practice-II		4	4	2	3	50	--	50	--	100
<b>Total</b>				<b>20</b>	<b>4</b>	<b>24</b>	<b>22</b>		<b>200</b>	<b>300</b>	<b>50</b>	<b>50</b>	<b>600</b>



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### Semester – III

Sr. No.	Core Course	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs./Week)				Credits	Duration University Exam. (Hrs.)	CIA	Examination Scheme		Total Marks
				L	T	P	Total				T	P/O	
1	PE	PTR311	Presentation Stage -I	--	--	10	10	10	--	50	--	50	100
2	PE	PTR312	Presentation Stage -II	--	--	10	10	10	--	50	--	50	100
<b>Total</b>				--	--	--	<b>20</b>	<b>20</b>	--	<b>100</b>	--	<b>100</b>	<b>200</b>

### Semester – IV

Sr. No.	Core Course	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs./Week)				Credits	Duration University Exam. (Hrs.)	CIA	Examination Scheme		Total Marks
				L	T	P	Total				T	P/O	
1	PE	PTR411	Presentation Stage -III	--	--	10	10	10	--	50	--	50	100
2	PE	PTR412	Final Presentation and Viva Voce	--	--	10	10	10	--	100	--	100	200
<b>Total</b>				--	--	--	<b>20</b>	<b>20</b>	--	<b>150</b>	--	<b>150</b>	<b>300</b>

Document Ref.	Rev. No./ Date	Issue No./ Date	Prepared by	Approved by
SUN/SOET/CIVIL/_____/_____/2017				