

**CHHATTISGARH SWAMI VIVEKANAND TECHNICAL UNIVERSITY, BHILAI (C.G.)**

**Scheme of Teaching & Examination**

**M.TECH. (Civil) with Specialization in Transportation Engg.**

**I SEMESTER**

S. No.	Board of Study	Subject Code	Subject	Periods per Week			Scheme of Examination			Total Marks	Credit L+(T+P)/2
				L	T	P	Theory / Practical				
							ESE	CT	TA		
1.	Civil Engg.	598111 (20)	Geometric Design	3	1	-	100	20	20	140	4
2.	Civil Engg.	598112 (20)	Traffic Analysis	3	1	-	100	20	20	140	4
3.	Civil Engg.	598113 (20)	Highway Construction and Material	3	1	-	100	20	20	140	4
4.	Civil Engg.	598114 (20)	Sustainable Transportation	3	1	-	100	20	20	140	4
5.	Refer Table-I		Elective I	3	1	-	100	20	20	140	4
6.	Civil Engg.	598121 (20)	Advanced Transportation Lab-I	-	-	3	75		75	150	5
7.	Civil Engg.	598122 (20)	Traffic survey and Analysis Lab	-	-	3	75		75	150	5
<b>Total</b>				<b>15</b>	<b>5</b>	<b>6</b>	<b>650</b>	<b>100</b>	<b>250</b>	<b>1000</b>	<b>30</b>

L- Lecture

T- Tutorial

P- Practical ,

ESE- End Semester Exam

CT- Class Test

TA- Teacher's Assessment

**Table-I**

<b>ELECTIVE I</b>			
S.No.	Board of Study	Subject Code	Subject
1.	Civil Engg.	598131 (20)	Project Management
2.	Civil Engg.	598132 (20)	Probability and Statistics
3.	Civil Engg.	598133 (20)	Transportation Economics
4.	Civil Engg.	598134 (20)	Environmental Impact Assessment

Note (1) - 1/4<sup>th</sup> of total strength of students subject to minimum of twenty students is required to offer an elective in the college in a Particular academic session .

Note (2) - Choice of elective course once made for an examination cannot be changed in future examinations.

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**II SEMESTER**

S. No.	Board of Study	Subject Code	Subject	Periods per Week			Scheme of Examination			Total Marks	Credit L+(T+P)/2
				L	T	P	Theory / Practical				
				ESE	CT	TA					
1	Civil Engg.	598211 (20)	Traffic Engineering And Management	3	1	-	100	20	20	140	4
2	Civil Engg.	598212 (20)	Transportation System Planning	3	1	-	100	20	20	140	4
3	Civil Engg.	598213 (20)	Advanced Soil Mechanics in Highway engineering	3	1	-	100	20	20	140	4
4	Civil Engg.	598214 (20)	Road Safety Engineering	3	1	-	100	20	20	140	4
5	Refer Table – II		Elective II	3	1	-	100	20	20	140	4
6	Civil Engg.	598221 (20)	Advanced Transportation Lab II	-	-	3	75		75	150	5
7	Civil Engg.	598222 (20)	CAD for Transportation Engineering Lab	-	-	3	75		75	150	5
<b>Total</b>				<b>15</b>	<b>5</b>	<b>6</b>	<b>650</b>	<b>100</b>	<b>250</b>	<b>1000</b>	<b>30</b>

L- Lecture                      T- Tutorial  
P- Practical ,                    ESE- End Semester Exam  
CT- Class Test                    TA- Teacher's Assessment

Table -II

ELECTIVE II			
S.No.	Board of Study	Subject Code	Subject
1	Civil Engg.	598231 (20)	Remote Sensing and GIS and their Application
2	Civil Engg.	598232 (20)	Bridge Engineering
3	Civil Engg.	598233 (20)	Ground Improvement Technique
4	Civil Engg.	598234 (20)	Pavement Management System

Note (1) - 1/4<sup>th</sup> of total strength of students subject to minimum of twenty students is required to offer an elective in the college in a Particular academic session .

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**III SEMESTER**

S. No.	Board of Study	Subject Code	Subject	Periods per Week			Scheme of Examination			Total Marks	Credit L+(T+P)/2
				L	T	P	Theory / Practical				
							ESE	CT	TA		
1	Civil Engg.	598311 (20)	Traffic Flow Theory	3	1		100	20	20	140	4
2	Refer Table III		Elective III	3	1		100	20	20	140	4
3	Civil Engg.	598321 (20)	Preliminary work on Dissertation	-	-	28	100	-	100	200	14
4	Civil Engg.	598322 (20)	Seminar Based on Dissertation	-	-	3	-	-	20	20	2
<b>Total</b>				<b>6</b>	<b>2</b>	<b>31</b>	<b>300</b>	<b>40</b>	<b>160</b>	<b>500</b>	<b>24</b>

L- Lecture                      T- Tutorial  
P- Practical ,                    ESE- End Semester Exam  
CT- Class Test                  TA- Teacher's Assessment

Table III			
ELECTIVE III			
S.No.	Board of Study	Subject Code	Subject
1	Civil Engg.	598331 (20)	Airport Planning and Design
2	Civil Engg.	598332 (20)	Railway Engineering
3	Civil Engg.	598333 (20)	Pavement Analysis and Design

Note (1) - 1/4<sup>th</sup> of total strength of students subject to minimum of twenty students is required to offer an elective in the college in a Particular academic session .

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## Scheme of Teaching & Examination

### M.TECH. (Civil) with Specialization in Transportation Engg.

#### IV SEMESTER

S.No.	Board of Study	Subject Code	Subject	Periods per Week			Scheme of Examination			Total Marks	Credit L+ (T+P)/2
				L	T	P	Theory / Practical				
							ESE	CT	TA		
1	Civil Engg.	598421 (20)	Dissertation + Seminar	6	-	34	300	-	200	500	23
Total				6	-	34	300	-	200	500	23

Note (1) -  $1/4^{\text{th}}$  of total strength of students subject to minimum of twenty students is required to offer an elective in the college in a Particular academic session .

Note (2) - Choice of elective course once made for an examination cannot be changed in future examinations.

#### Scheme of Marks allotment

Semester	Total Marks	Grand Total
I	1000	3000
II	1000	
III	500	
IV	500	

## REFERENCES

### Semester-I

S.NO.	Board of Study	Subject Code	Subject	Reference with Subject Code of Different Institution.
1.	CIVIL ENGG.	598111 (20)	Geometric Design	CET 693 , OM Institute of Technology and Management, Jugalan ,Hisar
2.	CIVIL ENGG.	598112 (20)	Traffic System	CE 5601 , NIT Warangal
3.	CIVIL ENGG.	598113 (20)	Highway Construction and Material	TE 8101,ANNA University,Chennai
4.	CIVIL ENGG.	598114 (20)	Sustainable Transportation	CE 5618 , NIT Warangal
5.	CIVIL ENGG.	598131 (20)	Project Management	CE 5615 , NIT Warangal
6.	CIVIL ENGG.	598132 (20)	Probability and Statistics	MAN 506 ,IIT Roorkee
7.	CIVIL ENGG.	598133 (20)	Highway Economics	TE 8302,ANNA University,Chennai
8.	CIVIL ENGG	598134 (20)	Environmental Impact Assessment	TE 8003,ANNA University,Chennai
9.	CIVIL ENGG	598121 (20)	Advanced Transportation Lab I	CE 5654,NIT Warangal Rajasthan University TE 8111 , ANNA university,Chennai
10.	CIVIL ENGG	598122 (20)	Traffic Survey And Analysis Lab	CET 697 , OM Institute of Technology and Management, Jugalan ,Hisar

## Semester-II

S.NO.	Board of Study	Subject Code	Subject	Reference with Subject Code of Different Institution.
1.	CIVIL ENGG.	598211 (20)	Traffic Engineering And Management	TE 8103,ANNA University,Chennai
2.	CIVIL ENGG.	598212 (20)	Transportation System Planning	TE 8104,ANNA University,Chennai
3.	CIVIL ENGG.	598213 (20)	Advanced Soil Mechanics in Highway Engineering	METE 104 ,RGPV. Madhya Pradesh
4.	CIVIL ENGG.	598214 (20)	Road Safety Engineering	CE 5617 , NIT Warangal
5.	CIVIL ENGG.	598231 (20)	Remote sensing and GIS and their Application	TE 8008,ANNA University,Chennai
6.	CIVIL ENGG.	598232 (20)	Bridge Engineering	CET 715 , OM Institute of Technology and Management, Jugalan ,Hisar
7.	CIVIL ENGG.	598233 (20)	Ground Improvement Technique	CE 5114 ,I.I.T BHU,Varanasi
8.	CIVIL ENGG	598234 (20)	Pavement Management System	TE 8006,ANNA University,Chennai
9.	CIVIL ENGG	598221 (20)	Advanced Transportation Lab II	CE 5654, NIT Warangal
10.	CIVIL ENGG	598222 (20)	CAD for Transportation Engineering Lab	TE 8211,ANNA University,Chennai CE 608 ,NIT Tiruchirapalli

## Semester –III

S.NO.	Board of Study	Subject Code	Subject	Reference with Subject Code of Different Institution.
1.	CIVIL ENGG.	598311 (20)	Traffic Flow Theory	TE 8301,ANNA University,Chennai
2.	CIVIL ENGG.	598331 (20)	Airport Planning And Design	TE 8002,ANNA University,Chennai
3.	CIVIL ENGG.	598332 (20)	Railway Engineering	TE 8007,ANNA University,Chennai
4.	CIVIL ENGG.	598333 (20)	Pavement Analysis and Design	CE 632 , NIT Patna