

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

**Scheme of Teaching & Examination**

**M.E.(Civil) with Specialization in Structural 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.	550111 (20)	Advanced Concrete Technology and Admixtures	3	1	-	100	20	20	140	4
2	Civil Engg.	550112 (20)	Matrix Methods of Structural Analysis	3	1	-	100	20	20	140	4
3	Civil Engg.	550113 (20)	Instrumentation and Experimental Techniques	3	1	-	100	20	20	140	4
4	Civil Engg.	550114 (20)	Advanced Construction Management	3	1	-	100	20	20	140	4
5	Refer Table –I		Elective I	3	1	-	100	20	20	140	4
6	Civil Engg.	550121 (20)	Advanced Concrete Technology and Admixtures Lab	-	-	10	75		75	150	5
7	Civil Engg.	550122 (20)	Matrix Methods of Structural Analysis Lab	-	-	10	75		75	150	5
<b>Total</b>				<b>15</b>	<b>5</b>	<b>20</b>	<b>650</b>	<b>100</b>	<b>250</b>	<b>1000</b>	<b>30</b>

L- Lecture  
P- Practical ,  
CT- Class Test

T- Tutorial  
ESE- End Semester Exam  
TA- Teacher's Assessment

**Table-I  
ELECTIVE I**

S.No.	Board of Study	Subject Code	Subject
1	Civil Engg.	550131 (20)	Limit State Design of Steel Structures
2	Civil Engg.	550132 (20)	Advanced Design of Steel Structures
3	Civil Engg.	550133 (20)	Theory of Elastic Stability
4	Civil Engg.	550134 (20)	Applied Fuzzy Logic and Fuzzy sets

**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.	550211 (20)	Advanced Design of Concrete Structures	3	1	-	100	20	20	140	4
2	Civil Engg.	550212 (20)	Earthquake Effects on Structures	3	1	-	100	20	20	140	4
3	Civil Engg.	550213 (20)	Finite Element Analysis of Structures	3	1	-	100	20	20	140	4
4	Civil Engg.	550214 (20)	Maintenance and Rehabilitation of Structures	3	1	-	100	20	20	140	4
5	Refer Table - II		Elective II	3	1	-	100	20	20	140	4
6	Civil Engg.	550221 (20)	Advanced Design of Structures Lab	-	-	10	75		75	150	5
7	Civil Engg.	550222 (20)	Structural Experimentation Lab	-	-	10	75		75	150	5
<b>Total</b>				<b>15</b>	<b>5</b>	<b>20</b>	<b>650</b>	<b>100</b>	<b>250</b>	<b>1000</b>	<b>30</b>

L- Lecture                      T- Tutorial  
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CT- Class Test                 TA- Teacher's Assessment

**Table -II**

<b>ELECTIVE II</b>			
S.No.	Board of Study	Subject Code	Subject
1	Civil Engg.	550231 (20)	Advance Foundation Engineering
2	Civil Engg.	550232 (20)	Design of Industrial Structures
3	Civil Engg.	550233 (20)	Fabrication and Erection of Structures
4	Civil Engg.	550234 (20)	Composite Construction using Structural Steel

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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.	550311 (20)	Structural Dynamics	3	1		100	20	20	140	4
2	Refer Table III		Elective III	3	1		100	20	20	140	4
3	Civil Engg.	550321 (20)	Preliminary work on Dissertation	-	-	28	100	-	100	200	14
4	Civil Engg.	550322 (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

<b>Table III</b>			
<b>ELECTIVE III</b>			
S.No.	Board of Study	Subject Code	Subject
1	Civil Engg.	550331 (20)	Optimization Techniques
2	Civil Engg.	550332 (20)	Theory of Plates and Shells
3	Civil Engg.	550333 (20)	Pre-Stressed Concrete

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**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.	550421 (20)	Dissertation + Seminar	6	-	34	300	-	200	500	23
<b>Total</b>				<b>6</b>	<b>-</b>	<b>34</b>	<b>300</b>	<b>-</b>	<b>200</b>	<b>500</b>	<b>23</b>

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 Marks allotment**

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