



## Chhattisgarh Swami Vivekanand Technical University, Bhilai (C.G.)

### Scheme of Teaching & Examination M.Tech (Civil) with Specialization in Geotechnical Engineering

#### Semester - I

S. No.	Board of Study	Subject Code	Name of Subject	Periods per Week			Scheme of Examination			Total Marks	Credit L+(T+P)/2
				L	T	P	Theory / Practical				
				ESE	CT	TA					
1	Civil Engineering	5110111 (020)	Geotechnical Earthquake Engineering	3	1	0	100	20	20	140	4
2	Civil Engineering	5110112 (020)	Geo Mechanics	3	1	0	100	20	20	140	4
3	Civil Engineering	5110113 (020)	Rock Mechanics	3	1	0	100	20	20	140	4
4	Civil Engineering	5110114 (020)	Geotechnical Behaviour of Earth Materials	3	1	0	100	20	20	140	4
5	<b>Refer Table – I</b>		<b>Elective – I</b>	3	1	0	100	20	20	140	4
6	Civil Engineering	5110121 (020)	Numerical Computational (Lab)	-	-	3	75	-	75	150	2
7	Civil Engineering	5110121 (020)	Geotech Field Testing-I (Lab)	-	-	3	75	-	75	150	2
<b>Total</b>				<b>15</b>	<b>05</b>	<b>06</b>	<b>650</b>	<b>100</b>	<b>250</b>	<b>1000</b>	<b>24</b>

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

*\*\*Student can opt any one elective subject from the subject mentioned below.*

**Table – I**

<b>Elective – I</b>			
S. No.	Board of Study	Subject Code	Name of Subject
1	Civil Engineering	5110131(020)	Geodynamics and Machine Foundations
2	Civil Engineering	5110132(020)	Foundation Engineering
3	Civil Engineering	5110133(020)	Geo-technics of dam
4	Civil Engineering	5110134(020)	Advance Soil Mechanics

**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.**



## Chhattisgarh Swami Vivekanand Technical University, Bhilai (C.G.)

### Scheme of Teaching & Examination

### M.Tech (Civil) with Specialization in Geotechnical Engineering

#### Semester - II

S. No.	Board of Study	Subject Code	Name of Subject	Periods per Week			Scheme of Examination			Total marks	Credit L+(T+P)/2
				L	T	P	ESE	CT	TA		
1	Civil Engineering	5110211 (020)	Geosynthetics and Reinforced Earth	3	1	0	100	20	20	140	4
2	Civil Engineering	5110212 (020)	Soil Structure Interaction	3	1	0	100	20	20	140	4
3	Civil Engineering	5110213 (020)	Soil Improvement Techniques	3	1	0	100	20	20	140	4
4	Civil Engineering	5110214 (020)	Soil Dynamic & Machine Foundation	3	1	0	100	20	20	140	4
5	<b>Refer Table – II</b>		<b>Elective-II</b>	3	1	0	100	20	20	140	4
6	Civil Engineering	5110221 (020)	Advance Geotech (Lab)	-	-	3	75	-	75	150	2
7	Civil Engineering	5110222 (020)	Geotech Field Testing-II (Lab)	-	-	3	75	-	75	150	2
<b>Total</b>				<b>15</b>	<b>05</b>	<b>06</b>	<b>650</b>	<b>100</b>	<b>250</b>	<b>1000</b>	<b>24</b>

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

*\*\*student can opt any one elective subject from the subject mentioned below.*

**Table- II**

<b>Elective- II</b>			
S. No.	Board of Study	Subject Code	Name of Subject
1	Civil Engineering	5110231(020)	Measurement Techniques in Geotechnical Engineering
2	Civil Engineering	5110232(020)	Tunnel Engineering
3	Civil Engineering	5110233(020)	Environmental Geotechnology
4	Civil Engineering	5110234(020)	Foundation in Difficult Sub Soil

**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.**



## Chhattisgarh Swami Vivekanand Technical University, Bhilai (C.G.)

### Scheme of Teaching & Examination M.Tech (Civil) with Specialization in Geotechnical Engineering

#### Semester - III

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 Engineering	5110311 (020)	Ground Improvement Techniques	3	1	-	100	20	20	140	4
2	Refer Table- III		Elective-III	3	1	-	100	20	20	140	4
3	Civil Engineering	5110321 (020)	Preliminary work on Dissertation	-	-	28	100	-	100	200	14
4	Civil Engineering	5110322 (020)	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

*\*\*student can opt any one elective subject from the subject mentioned below.*

**Table- III**

Elective- III			
S. No.	Board of Study	Subject Code	Name of Subject
1	Civil Engineering	5110331(020)	Analysis and Design of Foundation Structures
2	Civil Engineering	5110332(020)	Traffic Engineering
3	Civil Engineering	5110333(020)	FEM in Geotech Engineering

**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.



## Chhattisgarh Swami Vivekanand Technical University, Bhilai (C.G.)

### Scheme of Teaching & Examination

#### M.Tech (Civil) with Specialization in Geotechnical Engineering

#### Semester - IV

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 Engineering	5110421 (020)	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>

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

#### Scheme of Marks Allotment

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