



Chhattisgarh Swami Vivekanand Technical University (CSVTV, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Honours) Civil Engineering (First Semester)

S.N.	Board of Studies	Courses (Subject)	Subject Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Basic Science	Engineering Mathematics-I	A144171(014)	3	1	0	100	20	20	140	4
2	Civil Engineering	Engineering Graphics and Design	A144172(020)	3	1	0	100	20	20	140	4
3	Computer Science Engineering	Learning Programming Concepts with C	A000173(022)	3	0	0	100	20	20	140	3
4	Civil Engineering	Environmental & Ecology	A144174(020)	3	1	0	100	20	20	140	4
5	Civil Engineering	Civil Engineering Materials and Construction	A144175(020)	3	0	0	100	20	20	140	3
6	Civil Engineering	Engineering Graphics and Design Lab	A144191(020)	0	0	3	40	-	20	60	2
7	Computer Science Engineering	Learning Programming Concepts with C Lab	A000192(022)	0	0	3	40	-	20	60	2
8	Civil Engineering	Civil Engineering Materials Testing Lab	A144193(020)	0	0	3	40	-	20	60	2
9	Humanities	Language & Writing Skills	A000177(046)	0	0	2	40	-	20	60	1
10	Humanities	NCC-1/NSS-1	A144194(046)	0	0	2	40	-	20	60	1
Total				15	3	13	700	100	200	1000	26

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



Chhattisgarh Swami Vivekanand Technical University (CSVTV, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Honours) Civil Engineering (Second Semester)

S.N.	Board of Studies	Courses (Subject)	Subject Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Basic Science	Engineering Mathematics-II	A144271(014)	3	1	0	100	20	20	140	4
2	Civil Engineering	Engineering Mechanics	A144272(020)	3	1	0	100	20	20	140	4
3	Computer Science Engineering	Object Oriented Programming	A000273(022)	3	0	0	100	20	20	140	3
4	Civil Engineering	Engineering Surveying	A144274(020)	3	1	0	100	20	20	140	4
5	Civil Engineering	Engineering Geology	A144275(020)	3	0	0	100	20	20	140	3
6	Civil Engineering	Engineering Surveying Lab	A144291(020)	0	0	2	40	-	20	60	2
7	Computer Science Engineering	Object Oriented Programming Lab	A000292(022)	0	0	2	40	-	20	60	2
8	Civil Engineering	Engineering Geology Lab	A144293(020)	0	0	2	40	-	20	60	2
9	Humanities	Entrepreneurship	A000276(046)	0	0	2	40	-	20	60	1
10	Humanities	Universal Human Values	A144294(046)	0	0	2	40	-	20	60	1
Total				15	3	10	700	100	200	1000	26

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Chhattisgarh Swami Vivekanand Technical University (CSVTV, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Honours) Civil Engineering (Third Semester)

S.N.	Board of Studies	Courses (Subject)	Subject Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Civil Engineering	Fluid Mechanics	B144371(020)	2	1	0	100	20	20	140	3
2	Civil Engineering	Mechanics of Solids	B144372(020)	2	1	0	100	20	20	140	3
3	Civil Engineering	Engineering Hydrology	B144373(020)	2	1	0	100	20	20	140	3
4	Civil Engineering	Structural Analysis-I	B144374(020)	2	1	0	100	20	20	140	3
5	Civil Engineering	Highway and Transportation Engineering	B144375(020)	2	1	0	100	20	20	140	3
6	Civil Engineering	Fluid Mechanics Lab	B144391(020)	0	0	3	40	-	20	60	2
7	Civil Engineering	Engineering Hydrology Lab	B144392(020)	0	0	3	40	-	20	60	2
8	Civil Engineering	Structural Mechanics Lab	B144393(020)	0	0	3	40	-	20	60	2
9	Civil Engineering	Transportation Engineering Lab	B144394(020)	0	0	3	40	-	20	60	2
10	Civil Engineering	IPR and Publication Ethics	B144395(020)	0	0	2	-	-	60	60	1
Total				10	5	14	660	100	240	1000	24

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



Chhattisgarh Swami Vivekanand Technical University (CSVTV, NEWAI (C.G.))

SCHEME OF TEACHING AND EXAMINATION

B.Tech (Honours) Civil Engineering (Fourth Semester)

S.N.	Board of Studies	Courses (Subject)	Subject Code	Period per Week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Civil Engineering	Water Resources Engineering-I	B144471(020)	2	1	0	100	20	20	140	3
2	Civil Engineering	Structural Analysis-II	B144472(020)	2	1	0	100	20	20	140	3
3	Civil Engineering	Open Channel Flow and Hydraulic Machines	B144473(020)	2	1	0	100	20	20	140	3
4	Civil Engineering	Soil Mechanics	B144474(020)	2	1	0	100	20	20	140	3
5	Civil Engineering	Design of Reinforced Concrete Structures	B144475(020)	2	1	0	100	20	20	140	3
6	Civil Engineering	Structural Analysis Lab	B144491(020)	0	0	3	40	-	20	60	2
7	Civil Engineering	Hydraulic Engineering Lab	B144492(020)	0	0	3	40	-	20	60	2
8	Civil Engineering	Soil Mechanics Lab	B144493(020)	0	0	3	40	-	20	60	2
9	Civil Engineering	Structural Engineering Design Lab-I	B144494(020)	0	0	3	40	-	20	60	2
10	Civil Engineering	Scientific Writing	B144495(020)	0	0	2	-	-	60	60	1
Total				10	5	14	660	100	240	1000	24

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SCHEME OF TEACHING AND EXAMINATION

B Tech Honours Civil Engineering (Fifth Semester)

S.N	Board of Studies	Courses (Subject)	Subject Code	Period per week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Civil Engineering	RS & GIS in Civil Engg.	C144571(020)	2	1	0	100	20	20	140	3
2	Civil Engineering	Environmental Engineering - I	C144572(020)	2	1	0	100	20	20	140	3
3	Civil Engineering	Concrete Technology	C144573(020)	2	1	0	100	20	20	140	3
4	Civil Engineering	Design of Steel Structures	C144574(020)	2	1	0	100	20	20	140	3
5	Civil Engineering	Professional Elective - I	Refer Table Below	2	1	0	100	20	20	140	3
6	Civil Engineering	RS & GIS Lab	C144591(020)	0	0	3	40	0	20	60	2
7	Civil Engineering	Environmental Engineering Lab - I	C144592(020)	0	0	3	40	0	20	60	2
8	Civil Engineering	Concrete Technology Lab	C144593(020)	0	0	3	40	0	20	60	2
9	Civil Engineering	Vocational / Industrial Training Evaluation	C144594(020)	0	0	6	0	0	120	120	3
			Total	10	5	15	620	100	280	1000	24

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

5th Sem Professional Elective - I

S.N	Board of Studies	Courses (Subject)	Course Code	Period per week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Civil Engineering	Engineering Economics Estimation and Costing	C144531(020)	2	1	-	100	20	20	140	3
2	Civil Engineering	Seismic Design of Structures	C144532(020)	2	1	-	100	20	20	140	3
3	Civil Engineering	Construction Equipment and Techniques	C144533(020)	2	1	-	100	20	20	140	3
4	Civil Engineering	Hydropower Engineering	C144534(020)	2	1	-	100	20	20	140	3
5	Civil Engineering	Advanced Building Construction	C144535(020)	2	1	-	100	20	20	140	3



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SCHEME OF TEACHING AND EXAMINATION

B Tech Honours Civil Engineering (Sixth Semester)

S.N	Board of Studies	Courses (Subject)	Subject Code	Period per week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Civil Engineering	Water Resources Engineering - II	C144671(020)	2	1	0	100	20	20	140	3
2	Civil Engineering	Structural Analysis -III	C144672(020)	2	1	0	100	20	20	140	3
3	Civil Engineering	Foundation Engineering	C144673(020)	2	1	0	100	20	20	140	3
4	Civil Engineering	Professional Elective - II	Refer Table	2	1	0	100	20	20	140	3
5	-	Open Elective -I	Refer Table	2	1	0	100	20	20	140	3
6	Civil Engineering	Water Resources Engineering Lab	C144691(020)	0	0	3	40	0	20	60	2
7	Civil Engineering	Structural Engineering Design Lab -II	C144692(020)	0	0	3	40	0	20	60	2
8	Civil Engineering	Civil Engineering Drawing Lab	C144693(020)	0	0	3	40	0	20	60	2
9	Civil Engineering	Foundation Engineering Lab	C144694(020)	0	0	3	40	0	20	60	2
10	Civil Engineering	Technical Report Writing	C144695(020)	0	0	2	0	0	60	60	1
			Total	10	5	14	660	100	240	1000	24

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6th sem Professional Elective - II

S.N	Board of Studies	Courses (Subject)	C144691(020)	Period per week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Civil Engineering	Pre-stressed concrete	C144631(020)	2	1	-	100	20	20	140	3
2	Civil Engineering	Maintenance and Rehabilitation of Structures	C144632(020)	2	1	-	100	20	20	140	3
3	Civil Engineering	Railway, Airport and Harbour Engineering	C144633(020)	2	1	-	100	20	20	140	3
4	Civil Engineering	Construction Planning and Management	C144634(020)	2	1	-	100	20	20	140	3
5	Civil Engineering	Advanced Design of Concrete Structures	C144635(020)	2	1	-	100	20	20	140	3

6th sem Open Elective - I

S.N	Board of Studies	Courses (Subject)	Course Code	Period per week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Civil Engineering	Disaster Management	D000671(020)	2	1	-	100	20	20	140	3
2	Management	Technology Management	D000672(076)	2	1	-	100	20	20	140	3
3	Mechanical Engg.	Energy Conservation & Management	D000673(037)	2	1	-	100	20	20	140	3
4	Computer Science &	Numerical Methods in Computer Programming	D000674(022)	2	1	-	100	20	20	140	3
5	Civil Engineering	Ecology and Sustainable Development	D000675(020)	2	1	-	100	20	20	140	3
6	Management	Project Planning, Management & Evaluation	D000676(076)	2	1	-	100	20	20	140	3
7	Computer Science &	Internet & Web Technology	D000677(022)	2	1	-	100	20	20	140	3
8	Mechanical Engg.	Managing Innovation & Entrepreneurship	D000678(037)	2	1	-	100	20	20	140	3
9	Information Technol	Decision Support & Executive Information system	D000679(033)	2	1	-	100	20	20	140	3



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SCHEME OF TEACHING AND EXAMINATION

B Tech Honours Civil Engineering (Seventh Semester)

S.N	Board of Studies	Courses (Subject)	Subject Code	Period per week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Civil Engineering	Environmental Engineering - II	D144771(020)	2	1	0	100	20	20	140	3
2	Civil Engineering	Traffic Engineering and Management	D144772(020)	2	1	0	100	20	20	140	3
3	Civil Engineering	Professional Elective - III	Refer Table	2	1	0	100	20	20	140	3
4		Open Elective - II	Refer Table	2	1	0	100	20	20	140	3
5	Civil Engineering	Environmental Engineering Lab - II	D144791(020)	0	0	3	40	0	20	60	2
6	Civil Engineering	Transportation Engineering Lab - II	D144792(020)	0	0	3	40	0	20	60	2
7	Civil Engineering	Minor Project	D144793(020)	0	0	6	0	0	200	200	6
8	Civil Engineering	Vocational / Industrial Training Evaluation	D144794(020)	0	0	6	0	0	120	120	3
			Total	8	4	18	480	80	440	1000	25

7th Sem Professional Elective - III

S.N	Board of Studies	Courses (Subject)	Subject Code	Period per week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Civil Engineering	Environmental Pollution and Management	D144731(020)	2	1	-	100	20	20	140	3
2	Civil Engineering	Finite Element Analysis of Structures	D144732(020)	2	1	-	100	20	20	140	3
3	Civil Engineering	Environmental Impact Assessment	D144733(020)	2	1	-	100	20	20	140	3
4	Civil Engineering	Flood & Drought Management	D144734(020)	2	1	-	100	20	20	140	3
5	Civil Engineering	Climate Change Implication and Remedial Measures	D144735(020)	2	1	-	100	20	20	140	3

7th Sem Open Elective - II

S.N	Board of Studies	Courses (Subject)	Subject Code	Period per week			Theory/Lab			Total Marks	Credits
				L	T	P	ESE	CT	TA		
1	Civil Engineering	Construction Management	D000771(020)	2	1	-	100	20	20	140	3
2	Management	Intellectual Property Rights	D000772(076)	2	1	-	100	20	20	140	3
3	Electrical& Electronics Engg.	Non Conventional Energy Sources	D000773(025)	2	1	-	100	20	20	140	3
4	Computer Science & Engg.	Software Technology	D000774(022)	2	1	-	100	20	20	140	3
5	Civil Engineering	Air Pollution and Control Measures	D000775(020)	2	1	-	100	20	20	140	3
6	Management	Finance Management	D000776(076)	2	1	-	100	20	20	140	3
7	Mechanical Engg.	Value Engineering	D000777(037)	2	1	-	100	20	20	140	3
8	Information Technology	Information Theory & Coding	D000778(033)	2	1	-	100	20	20	140	3
9	Computer Science & Engg.	Supply Chain Management	D000779(022)	2	1	-	100	20	20	140	3

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