

RASHTRASANT TUKDOJI MAHARAJ NAGPUR UNIVERSITY, NAGPUR
FACULTY OF SCIENCE & TECHNOLOGY
SCHEME OF EXAMINATION & EVALUATION
B. TECH CIVIL ENGINEERING (CHOICE BASED CREDIT SYSTEM)
SEMESTER: THIRD

Sr. No	Subject Code	Subject	Workload in Hours			Credit				Marks					Minimum passing marks	
			L	T/A	P	L	T/A	P	Total	Theory		Practical		Total	Theory	Practical
										Int	Uni	Int	Uni			
1	BTCVE301T	Mathematics-III	3	1	0	3	1	0	4	30	70	--	--	100	45	--
2	BTCVE302T	Fluid Mechanics	3	0	0	3	0	0	3	30	70	--	--	100	45	--
3	BTCVE302P	Fluid Mechanics (Practical)	0	0	2	0	0	1	1	--	--	25	25	50	--	25
4	BTCVE303T	Solid Mechanics	3	1	0	3	1	0	4	30	70	--	--	100	45	--
5	BTCVE303P	Solid Mechanics (Practical)	0	0	2	0	0	1	1	--	--	25	25	50	--	25
6	BTCVE304T	Geotechnical Engineering	3	0	0	3	0	0	3	30	70	--	--	100	45	--
7	BTCVE304P	Geotechnical Engineering (Practical)	0	0	2	0	0	1	1	--	--	25	25	50	--	25
8	BTCVE305T	Building Construction & Elementary Building Drawing	2	0	0	2	0	0	2	30	70	--	--	100	45	--
9	BTCVE305P	Building Construction & Elementary Building Drawing (Practical)	0	0	2	0	0	1	1	--	--	25	25	50	--	25
10	BTCVE306T	Effective Technical Communication	2	0	0	2	0	0	2	15	35	--	--	50	23	--
Total			16	2	8	16	2	4	22	165	385	100	100	750		

- L- Lecture , P-Practical, T- Tutorial , A- Activity (Half Credit per Hour)

Signature
Dr. A. N. Dashade

Signature
 (Dr. A. N. Dashade)
 BOS Member

Signature
 (Dr. Avinash N. Shrikhande,
 BOS (Civil Engg) chairman

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SEMESTER: FOURTH

Sr. No	Subject Code	Subject	Workload in Hours			Credit				Marks					Minimum passing marks	
			L	T/A	P	L	T	P	Total	Theory		Practical		Total	Theory	Practical
										Int	Uni	Int	Uni			
1	BTCVE401T	Concrete Technology	3	0	0	3	0	0	3	30	70	--	--	100	45	--
2	BTCVE402T	Structural Analysis	3	1	0	3	1	0	4	30	70	--	--	100	45	--
3	BTCVE402P	Structural Analysis (Practical)	0	0	2	0	0	1	1	--	--	25	25	50	--	25
4	BTCVE403T	Environmental Engineering	3	0	0	3	0	0	3	30	70	--	--	100	45	--
5	BTCVE403P	Environmental Engineering(Practical)	0	0	2	0	0	1	1	--	--	25	25	50	--	25
6	BTCVE404T	Transportation Engineering	3	0	0	3	0	0	3	30	70	--	--	100	45	--
7	BTCVE404P	Transportation Engineering (Practical)	0	0	2	0	0	1	1	--	--	25	25	50	--	25
8	BTCVE405T	Surveying & Geomatics	3	0	0	3	0	0	3	30	70	--	--	100	45	--
9	BTCVE405P	Surveying & Geomatics (Practical)	0	0	4	0	0	2	2	--	--	25	25	50	--	25
10	BTCVE406P	Mini Project (Practical)	0	0	2	0	0	1	1	--	--	25	25	50	--	25
TOTAL			15	1	12	15	1	6	22	150	350	125	125	750		

- L- Lecture , P-Practical, T- Tutorial , A- Activity (Half Credit per Hour)

Note: In Summer vacation after 4th Semester, students have to complete 2 to 3 weeks industrial / Government / NGO / MSME / Rural Internship / Innovation / Entrepreneurship training. In the beginning of 5th semester, students have to submit detailed report of summer vacation training to department.

Signature
Dr. A. N. Dabhadre

Signature
 (Dr. A. N. Dabhadre)
 BOS Member

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SEMESTER: FIFTH

Sr. No	Subject Code	Subject	Workload in Hours			Credit				Marks					Minimum passing marks	
			L	T/A	P	L	T	P	Total	Theory		Practical		Total	Theory	Practical
										Int	Uni	Int	Uni			
1	BTCVE501T	Hydraulic Engineering	3	0	0	3	0	0	3	30	70	--	--	100	45	--
2	BTCVE501P	Hydraulic Engineering (Practical)	0	0	2	0	0	1	1	--	--	25	25	50	--	25
3	BTCVE502T	Reinforced Cement Concrete (RCC) designs	3	1	0	3	1	0	4	30	70	--	--	100	45	--
4	BTCVE503T	Civil Engineering Materials, Testing & Evaluation	3	0	0	3	0	0	3	30	70	--	--	100	45	--
5	BTCVE503P	Civil Engineering Materials, Testing & Evaluation (Practical)	0	0	2	0	0	1	1	--	--	25	25	50	--	25
6	BTCVE504T	Professional Practice, Law & Ethics	3	0	0	3	0	0	3	30	70	--	--	100	45	--
7	BTCVE505T	Elective-I	3	0	0	3	0	0	3	30	70	--	--	100	45	--
8	BTCVE506T	Elective-II	3	0	0	3	0	0	3	30	70	--	--	100	45	--
9	BTCVE507P	Industrial Training (Already done in summer vacation after 4 th sem) & Professional Skill Training (Software Applications in Civil Engineering)	0	0	2	0	0	1	1	--	--	50	50	100	--	50
10	BTCVE508AU	Organizational Behavior	2	0	0	0	0	0	0	--	--	50	Audit	50	--	--
TOTAL			20	1	6	18	1	3	22	180	420	150	100	850		

- L- Lecture , P-Practical, T- Tutorial , A- Activity (Half Credit per Hour)

Signature
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SEMESTER: SIXTH

Sr. No	Subject Code	Subject	Workload in Hours			Credit				Marks					Minimum passing marks	
			L	T/A	P	L	T	P	Total	Theory		Practical		Total	Theory	Practical
										Int	Uni	Int	Uni			
1	BTCVE601T	Estimating & Costing	3	1	0	3	1	0	4	30	70	--	--	100	45	--
2	BTCVE601P	Estimating & Costing (Practical)	0	0	2	0	0	1	1	--	--	25	25	50	--	25
3	BTCVE602T	Construction Engineering & Management	2	1	0	2	1	0	3	30	70	--	--	100	45	--
4	BTCVE603T	Water Resource Engineering	3	0	0	3	0	0	3	30	70	--	--	100	45	--
5	BTCVE604T	Elective-III	3	0	0	3	0	0	3	30	70	--	--	100	45	--
6	BTCVE605T	Open Elective-I	3	0	0	3	0	0	3	30	70	--	--	100	45	--
7	BTCVE606P	Computer Aided Civil Engineering Drawing (Practical)	0	0	2	0	0	1	1	--	--	50	50	100	--	50
TOTAL			14	2	4	14	2	2	18	150	350	75	75	650	--	--

- L- Lecture , P-Practical, T- Tutorial , A- Activity (Half Credit per Hour)

Note: In summer vacation after 6th Semester, student have to complete 3 to 4 weeks industrial / Government / NGO / MSME / Rural Internship / Innovation / Entrepreneurship training. In the beginning of 7th semester, student have to submit detailed report of summer vacation training to department.

(Signature)
 Carlos L. Shinde

(Signature)
 (Dr. A.N. Dabhadre)
 BOS Member

(Signature)
 (Dr. Avinash N Shrikhande,
 BOS (Civil Engg) chairman

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SEMESTER: SEVENTH

Sr. No	Subject Code	Subject	Workload in Hours			Credit				Marks					Minimum passing marks	
			L	T/A	P	L	T	P	Total	Theory		Practical		Total	Theory	Practical
										Int	Uni	Int	Uni			
1	BTCVE701T	Design of Steel Structure	3	1	0	3	1	0	4	30	70	--	--	100	45	--
2	BTCVE702T	Elective IV	3	0	0	3	0	0	3	30	70	--	--	100	45	--
3	BTCVE703T	Elective V	3	0	0	3	0	0	3	30	70	--	--	100	45	--
4	BTCVE704T	Elective VI	3	0	0	3	0	0	3	30	70	--	--	100	45	--
5	BTCVE705T	Open Elective-II	3	0	0	3	0	0	3	30	70	--	--	100	45	--
6	BTCVE706P	Project Work Phase-I	0	0	6	0	0	3	3	--	--	50	50	100	--	50
Total			15	1	6	15	1	3	19	150	350	50	50	600		

- L- Lecture , P-Practical, T- Tutorial , A- Activity (Half Credit per Hour)

Note:

1. Project Work Phase-I shall consist of detailed report of “**Internship report**” of 3 to 4 weeks underwent after 6th semester and “**SeminarReport**” shall consist of Topic selected for Project work
2. Equal weightage shall be given to the components of “**Internship Report**” and “**Seminar Report**”

Signature
Chaitan G. Shinde

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SEMESTER: EIGHTH

Sr. No	Subject Code	Subject	Workload in Hours			Credit				Marks					Minimum passing marks	
			L	T/A	P	L	T	P	Total	Theory		Practical		Total	Theory	Practical
										Int	Uni	Int	Uni			
1	BTCVE801T	Construction Methods And Equipment Management #	3	0	0	3	0	0	3	30	70	--	--	100	45	--
2	BTCVE802T	Digital Land Surveying And Mapping (DLS&M) #	3	0	0	3	0	0	3	30	70	--	--	100	45	--
3	BTCVE803T	Open Elective-III	3	0	0	3	0	0	3	30	70	--	--	100	45	--
4	BTCVE804P	Project Work Phase-II	0	0	12	0	0	6	6	--	--	100	100	200	--	100
TOTAL			9	0	12	9	0	6	15	90	210	100	100	500		

Note:

- These # subjects (**BTCVE801T and BTCVE802T**) should be undertaken through online mode by using NPTEL/SWAYAM /MOOCS Platforms **OR** through regular classroom teaching in Department of Civil Engineering of affiliated Colleges. Examinations will be conducted by RTMNU.
- Project Work Phase-II shall consist of detailed report of continued project work from 7th Semester or internship in industry or at appropriate work place.

(Signature)
 Dr. A. N. Dabhadre

(Signature)
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