

**DEPARTMENT OF CIVIL ENGINEERING****Academic Year 2024-25****Semester- ODD**Structure of Course

Class	SY Civil semester III
Course Code and Course Title	BTCVC303, Building Construction & Drawing
Prerequisite/s	Basic Civil Engineering
Teaching Scheme: Lecture/Tutorial/Practical	02/01/00
Credits	3
Evaluation Scheme: CA/ESE	20/60

Course Outcomes:

Course Outcomes (COs):		Blooms
BTCVC303_1	Understand types of masonry structures	L2
BTCVC303_2	Comprehend components of building and there purposes.	L2
BTCVC303_3	Draw plan, elevation and section of various structures.	L3
BTCVC303_4	Apply the principles of planning and by laws used for building planning.	L3
BTCVC303_5	Prepare detailed working drawing for doors and windows.	L2

Mapping of CO's with PO's and PSO's:

Course Outcomes	Program Outcomes														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2	PSO3
BTCVC303_1	2							2			2	2	2	2	2
BTCVC303_2	3								2		3	2	2		
BTCVC303_3	3	2						2	2		2	2	2	2	2
BTCVC303_4	2	2					1		2		3	3	2		
BTCVC303_5	2							2	2				1		
Total	12	4						1	6	8		10	9	9	4
Average	2.4	2						1	2	2		2.5	2.25	1.8	2
BTCVC303	2	2						1	2	2		3	2	2	2

CO Attainment Targets:

CO	303_1	303_2	303_3	303_4	303_5
Previous Attainment					
Target for CAY					

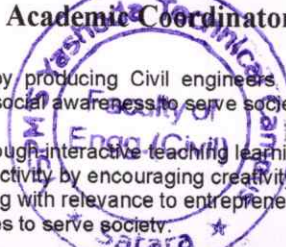
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Course Coordinator*Shahar*Verified by  
Academic Coordinator*Shahar*Approved by  
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**Department of Civil Engineering**  
Academic Year 2024-25

Semester- ODD

**Structure of Course**

Class	S.Y. Sem. -III
Course Code and Course Title	<b>Hydraulics I (BTCVC304)</b>
Prerequisite/s	Physics, Mathematics
Teaching Scheme: Lecture/Tutorial/Practical	03/01/02
Credits	04
Evaluation Scheme: CA / MSE / ESE	20/20/60

**Course Outcomes:**

Course Outcomes (COs): Upon successful completion of this course, the student will be able to:		Blooms Level
BTCVC304_1	Calibrate the various flow measuring devices.	L3
BTCVC304_2	Determine the properties of fluid and pressure and their measurement.	L3
BTCVC304_3	Understand fundamentals of pipe flow, losses in pipe and analysis of pipe network.	L2
BTCVC304_4	Visualize fluid flow phenomena observed in Civil Engineering systems.	L3
BTCVC304_5	Use dimensional analysis for solving problems of fluid flow	L3

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Programme Outcomes												PSO 1	PSO 2	PSO 3	
	1	2	3	4	5	6	7	8	9	10	11	12				
BTCVC304_1	2													2	2	2
BTCVC304_2	3											2		2	2	2
BTCVC304_3	3	2										2		2	2	2
BTCVC304_4	3	2										2		2	2	2
BTCVC304_5	3	2													2	2
Total	14	2										6		8	10	10
Average	2.8	2										2		2	2	2
BTCVC304	3	2										2		2	2	2

**CO Attainment Targets:**

CO	304_1	304_2	304_3	304_4	304_5
Previous Attainment					
Target for CAY					

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**DEPARTMENT OF CIVIL ENGINEERING**

Academic Year 2024-25

Semester- ODD

**Structure of Course**

Class	SY. Sem. – III
Course Code and Course Title	BTCVC305, Surveying
Prerequisite/s	Basic Civil Engineering, Mathematics
Teaching Scheme: Lecture/Tutorial/Practical	02/01/02
Credits	3
Evaluation Scheme: CA/ESE	20/60

**Course Outcomes:**

Course Outcomes (COs): Upon successful completion of this course, the student will be able to:		Blooms Level
BTCVC305_1	Apply chain surveying techniques for accurate measurement and mapping of land areas.	L3
BTCVC305_2	Apply compass and plane table surveying techniques for measuring bearings and areas in field surveys.	L3
BTCVC305_3	Measure accurately the ground elevations and areas using levelling techniques and planimeter tools.	L3
BTCVC305_4	Interpret angular measurements using a theodolite for precise surveying applications.	L2
BTCVC305_5	Understand the procedures in basic types of surveys for engineering projects.	L2

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Program Outcomes														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO	PSO	PSO
BTCVC305_1	3	2	2	2	2				2	2		2	3	2	
BTCVC305_2	3	3	2	2	2				2	2		2	3	2	2
BTCVC305_3	3	2	3	2	2				2	2		2	3	3	2
BTCVC305_4	3	2	2	3	2				2	2		2	3	3	2
BTCVC305_5	2	2	2	2	2				2	2		2	2	3	2
Total	14	11	11	11	10				10	10		10	14	13	08
Average	2.8	2.2	2.2	2.2	2				2	2		2	2.8	2.6	2
BTCVC305	3	2	2	2	2				2	2		2	3	3	2

**CO Attainment Targets:**

CO	305_1	305_2	305_3	305_4	305_5
Previous Attainment					
Target for CAY					

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**Department of Civil Engineering**

Academic Year 2023-24

Semester- ODD

Structure of Course

Class	SY. Sem. –III
Course Code and Course Title	<b>BTCVL308 Hydraulics I LAB</b>
Prerequisite/s	BTCVL308
Teaching Scheme: Lecture/Tutorial/Practical	02/01/02
Credits	01
Evaluation Scheme: CA / MSE / ESE	20/30

Course Outcomes:

Course Outcomes (COs):		Blooms Level
Upon successful completion of this course, the student will be able to:		
BTCVL308_1	Analyze the properties of fluids and their verification.	L4
BTCVL308_2	Predict empirical behavior of fluids.	L3
BTCVL308_3	Apply principles of hydraulics while working in field.	L3
BTCVL308_4	Work effectively in team to perform and finding result	L2

Mapping of CO's with PO's and PSO's:

Course Outcomes	Programme Outcomes														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO 2	PSO 3
BTCVL 308.1	3	2	2									2	3	2	2
BTCVL 308.2	3	2	2									2	2	2	2
BTCVL 308.3	3	3	2									3	2	2	2
BTCVL 308.4								3	3			3	2	2	2
<b>Total</b>	9	7	6					3	3			10	9	8	8
<b>Average</b>	3	2.3	2					3	3			2.5	2.25	2	2
BTCVC405	3	2.5	2					3	3			2.5	2.5	2	2

CO Attainment Targets:

CO	308_1	308_2	308_3	308_4
Previous Attainment				
Target for CAY				

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**Department of Civil Engineering**

Academic Year 2024-25

Semester- ODD

**Structure of Course**

Class	SY. Sem. – I
Course Code and Course Title	BTCVL309, Surveying Laboratory
Prerequisite/s	Basic Civil Engineering, Mathematics
Teaching Scheme: Lecture/Tutorial/Practical	02/01/02
Credits	1
Evaluation Scheme: CA/ESE	20/30

**Course Outcomes:**

Course Outcomes (COs): Upon successful completion of this course, the student will be able to:		Blooms Level
BTCVL309_1	Use the theodolite along with chain/tape, compass on the field	L3
BTCVL309_2	Apply geometric and trigonometric principles of basic surveying calculations	L3
BTCVL309_3	Plan a survey, taking accurate measurements, field booking, and adjustment of errors	L3
BTCVL309_4	Apply field procedures in basic types of surveys, as part of a surveying team	L3
BTCVL309_5	Employ drawing techniques in the development of a topographic map	L3

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Program Outcomes														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO 1	PSO 2	PS O3
BTCVL309_1	3	2	2	2	2				3	2		2	3	2	2
BTCVL309_2	3	3	2	2	2				2	2		2	3	2	3
BTCVL309_3	3	3	3	2	3				3	2		2	3	3	2
BTCVL309_4	3	2	2	2	2				3	3		2	3	2	2
BTCVL309_5	2	2	2	2	3				3	3		2	3	3	2
<b>Total</b>	14	12	11	10	12				14	12		10	15	12	11
<b>Average</b>	2.8	2.4	2.2	2	2.4				2.8	2.4		2	3	2.4	2.2
BTCVC305	3	2	2	2	2				3	2		2	3	2	2

**CO Attainment Targets:**

CO	309_1	309_2	309_3	309_4	309_5
Previous Attainment					
Target for CAY					

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**DEPARTMENT OF CIVIL ENGINEERING**

**Academic Year 2024-25**

**Semester- ODD**

**Structure of Course**

Class	TY Civil semester V
Course Code and Course Title	BTCVC501, Design of Steel Structures
Prerequisite/s	Basic Civil Engineering, Mechanics of Solid
Teaching Scheme: Lecture/Tutorial/Practical	02/01/00
Credits	3
Evaluation Scheme: CA/ESE	20/60

**Course Outcomes:**

Course Outcomes (COs):		Blooms Level
After successful completion of this course, the student will be able to:		
BTCVC501_1	Identify and compute the design loads and the stresses developed in the steel member.	L2
BTCVC501_2	Analyze and design the various connections and identify the potential failure modes.	L3
BTCVC501_3	Analyze and design various tension, compression and flexural members.	L3
BTCVC501_4	Understand provisions in relevant BIS Codes.	L2

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Program Outcomes														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2	PSO3
BTCVC501_1	3	2							2	2		2	2	3	2
BTCVC501_2	3	2	2					2	2	2		2	2	2	2
BTCVC501_3	3	3	3					2	2	2		2	2	2	2
BTCVC501_4	2	2	2					2		2		3	3	2	1
<b>Total</b>	11	9	7					6	6	8		9	9	9	7
<b>Average</b>	2.75	2.25	2.33					2	2	2		2.25	2.25	2.25	1.75
<b>BTCVC501</b>	<b>3</b>	<b>3</b>	<b>2</b>					<b>2</b>	<b>2</b>	<b>2</b>		<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>

**CO Attainment Targets:**

CO	501_1	501_2	501_3	501_4
Previous Attainment				
Target for CAY				

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**DEPARTMENT OF CIVIL ENGINEERING****Academic Year 2024-25****Semester- ODD****Structure of Course**

Class	TY. Sem. – V
Course Code and Course Title	BTCVC502 , Geotechnical Engineering
Prerequisite/s	Engineering Geology
Teaching Scheme: Lecture/Tutorial/Practical	03/01/02
Credits	4
Evaluation Scheme: CA/ESE	20/60

**Course Outcomes:**

Course Outcomes (COs): Upon successful completion of this course, the student will be able to:		Blooms Level
BTCVC502_1	Understand different soil properties and behavior.	L2
BTCVC502_2	Understand stresses in soil and permeability and seepage aspects.	L2
BTCVC502_3	Develop ability to take up soil design of various foundations.	L3
BTCVC502_4	Apply Earth Pressure and Consolidation aspects for design of various foundations.	L3

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Program Outcomes														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO 1	PSO 2	PSO 3
BTCVC502_1	2	2	2									3	2		2
BTCVC502_2	2	2	2									3	2		2
BTCVC502_3	3	3	3									3	2		2
BTCVC502_4	3	3	3									3	2		2
Total	10	10	10									12	8		8
Average	2.5	2.5	2.5									3	2		2
BTCVC502	3	3	3									3	2		2

**CO Attainment Targets:**

CO	502_1	502_2	502_3	502_4
Previous Attainment				
Target for CAY				

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## Department of Civil Engineering

### Academic Year 2024-25

### Semester- ODD

#### Structure of Course

Class	TY. Sem. – V
Course Code and Course Title	BTCVC503, Structural mechanics II
Prerequisite/s	Strength of Material and Structural Mechanics I
Teaching Scheme: Lecture/Tutorial/Practical	02/01/00
Credits	3
Evaluation Scheme: CA/ESE	20/60

#### Course Outcomes:

Course Outcomes (COs):		Blooms Level
Upon successful completion of this course, the student will be able to:		
BTCVC503_1	Have a basic understanding of matrix method of analysis and will be able to analyze the determinant structure	L3
BTCVC503_2	Have a basic understanding of the principles and concepts related to finite difference and finite element methods	L2
BTCVC503_3	Have a basic understanding of concept of influence line and will be able to analyze the determinant structure	L3
BTCVC503_4	Analyze cables, arches and suspension bridges	L3

#### Mapping of CO's with PO's and PSO's:

Course Outcomes	Programme Outcomes												PSO	PSO	PSO	
	1	2	3	4	5	6	7	8	9	10	11	12				
BTCVC503_1	3	2	0	0	0	0	0	0	0	0	0	0	0	2	2	2
BTCVC503_2	3	2	0	0	0	0	0	0	0	0	0	0	0	2	2	2
BTCVC503_3	3	2	0	0	0	0	0	0	0	0	0	0	0	2	2	2
BTCVC503_4	3	2	0	0	0	0	0	0	0	0	0	0	0	2	2	2
Total	12	8	0	0	0	0	0	0	0	0	0	0	0	8	8	8
Average	3	2	0	0	0	0	0	0	0	0	0	0	0	2	2	2
BTCVC503	3	2	0	0	0	0	0	0	0	0	0	0	0	2	2	2

#### CO Attainment Targets:

CO	403_1	403_2	403_3	403_4	403_5
Previous Attainment					
Target for CAY					

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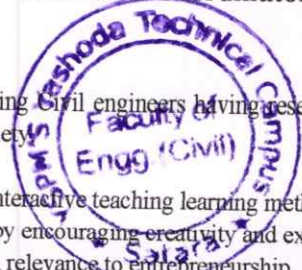
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**Department of Civil Engineering**

Academic Year 2024-25

Semester- ODD

**Structure of Course**

Class	T.Y. Sem. – V
Course Code and Course Title	BTCVC504 Concrete Technology
Prerequisite/s	Basic Civil Engineering
Teaching Scheme: Lecture/Tutorial/Practical	02/00/02
Credits	2
Evaluation Scheme: CA/MSE/ESE	20/20/60

**Course Outcomes:**

Course Outcomes (COs): Upon successful completion of this course, the student will be able to:		Blooms Level
BTCVC504_1	Understand the various types and properties of ingredients of concrete.	L1
BTCVC504_2	Understand the effect of admixtures on the behavior of the fresh and hardened concrete.	L1
BTCVC504_3	Formulate concrete design mix for various grades of concrete.	L3
BTCVC504_4	Describe the procedure of determining the properties of fresh and hardened concrete	L3

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Program Outcomes												PSO 1	PSO 2	PSO 3	
	1	2	3	4	5	6	7	8	9	10	11	12				
BTCVC504_1	2	1							2	2		2	2	2	2	
BTCVC504_2	2	2					2		2	2		2	2			1
BTCVC504_3	2	2			2		2		2	2		2	2			2
BTCVC504_4	2		0	0	2				2	2		2	2			2
<b>Total</b>	8	5	0	0	4	0	4	0	8	8	0	8	8	2		7
<b>Average</b>																
<b>BTCVC504</b>																

**CO Attainment Targets:**

CO	BTCVC504_1	BTCVC504_2	CO:504_3	CO:504_4
Previous Attainment				
Target for CAY				

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**Department of Civil Engineering**

Academic Year 2024-25

Semester- ODD

**Structure of Course**

Class	T.Y. Sem. -V
Course Code and Course Title	BTHM 505 Project management
Prerequisite/s	Mathematics
Teaching Scheme: Lecture/Tutorial/Practical	03/00/00
Credits	03
Evaluation Scheme: CA / MSE / ESE	20/20/60

**Course Outcomes:**

Course Outcomes (COs):		Blooms Level
Upon successful completion of this course, the student will be able to:		
BTHM 505_1	Understand various steps in project Management, different types of charts.	L2
BTHM 505_2	Construct network by using CPM and PERT method	L3
BTHM 505_3	Determine the optimum duration of project with the help of various time estimates	L3
BTHM 505_4	Know the concept of engineering economics, economic comparisons, and linear break even analysis problems	L2
BTHM 505_5	Understand the concept of total quality Management including Juran and Deming's philosophy	L2

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Programme Outcomes														
	1	2	3	4	5	6	7	8	9	10	11	12	PS	PSO	PSO
BTHM 505_1	3	2									3	3	2	2	2
BTHM 505_2	3	2									3	2	2	2	2
BTHM 505_3	3	2									3	2	2	2	2
BTHM 505_4	2										3	2	2	2	2
BTHM 505_5	2										3	3	3	2	2
Total	13	6									15	12	11	10	10
Average	2.6	2									3	2.4	2.2	2	2
BTHM 505	3	2									3	2	2	2	2

**CO Attainment Targets:**

CO	505_1	505_2	505_3	505_4	505_5
Previous Attainment	3.0	2.89	3.0	3.0	3.0
Target for CAY	3.0	3.0	3.0	3.0	3.0

  
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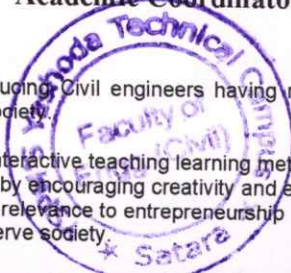
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**Department of Civil Engineering**  
**Academic Year 2024-25****Semester- ODD****Structure of Course**

Class	TY. Sem. – V
Course Code and Course Title	BTCVES507, Software Applications in Civil Engineering
Prerequisite/s	Computer Skills, Engineering graphics
Teaching Scheme: Lecture/Tutorial/Practical	02/00/00
Credits	Audit
Evaluation Scheme: CA/ESE	50/0

**Course Outcomes:**

Course Outcomes (COs): Upon successful completion of this course, the student will be able to:		Blooms Level
BTCVES507_1	Analyze and design determinant structure	L3
BTCVES507_2	Understand & Analyse civil engineering softwares	L3
BTCVES507_3	Use applications of various softwares in specialized works of	L3
BTCVES507_4	Application of problems in hydraulics	L3
BTCVES507_5	Application of problems in Geotechnical engineering	L3

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Programme Outcomes												PSO 1	PSO 2	PSO 3
	1	2	3	4	5	6	7	8	9	10	11	12			
BTCVES507_1	3	2	2	0	0	0	0	0	0	0	0	0	2	2	2
BTCVES507_2	3	2	2	0	3	0	0	0	0	0	0	2	2	2	2
BTCVES507_3	3	2	2	0	3	0	0	0	0	0	0	2	2	2	2
BTCVES507_4	3	2	0	0	0	0	0	0	0	0	0	0	2	2	2
BTCVES507_5	3	2	0	0	0	0	0	0	0	0	0	0	2	2	2
Total	15	10	6	0	6	0	0	0	0	0	0	4	10	10	10
Average	3	2	2	0	3	0	0	0	0	0	0	2	2	2	2
BTCVES507	3	3	2	0	3	0	0	0	0	0	0	2	2	2	2

**CO Attainment Targets:**

CO	403_1	403_2	403_3	403_4	403_5
Previous Attainment					
Target for CAY					

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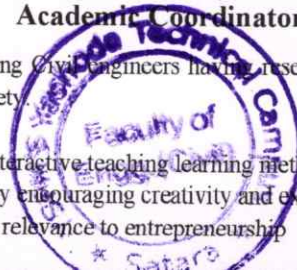
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**DEPARTMENT OF CIVIL ENGINEERING**

**Academic Year 2024-25**

**Semester- ODD**

**Structure of Course**

Class	TY Civil semester V
Course Code and Course Title	BTCVC508, SDD of Steel Structures Lab
Prerequisite/s	Mechanics of Solid, Design of Steel Structures
Teaching Scheme:	00/00/02
Credits	1
Evaluation Scheme: CA/ESE	20/30

**Course Outcomes:**

Course Outcomes (COs):		Blooms Level
After successful completion of this course, the student will be able to:		
BTCVL508_1	calculate different loads and perform load combination analysis for different Steel Structures as per codal provisions.	L3
BTCVL508_2	apply the principles, procedures and current code requirements for the design of Compression, Tension members	L3
BTCVL508_3	work in a group for design oriented task related to project.	L2
BTCVL508_4	develop skills of technical report writing and comprehension of results etc.	L2

**Mapping of CO's with PO's and PSO's:**

Course	Program Outcomes												PSO1	PSO2	PSO3
	1	2	3	4	5	6	7	8	9	10	11	12			
BTCVL508_1	3	2	2					2				2	2	2	2
BTCVL508_2	3	2	2					2				2	2	2	
BTCVL508_3	3	3							3		2	3	2	2	2
BTCVL508_4										3	2	3	2	2	2
<b>Total</b>	9	7	4					4	3	3	4	10	8	8	6
<b>Average</b>	3	2.33	2					2	3	3	2	2.5	2	2	2
BTCVC508	3	2	2					2	3	3	2	3	2	2	2

**CO Attainment Targets:**

CO	508_1	508_2	508_3	508_4
Previous Attainment				
Target for CAY				

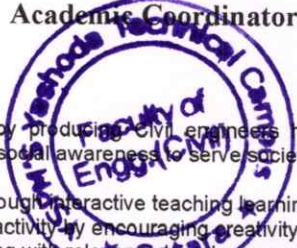
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**DEPARTMENT OF CIVIL ENGINEERING**

**Academic Year 2024-25**

**Semester- ODD**

**Structure of Course**

Class	TY. Sem. – V
Course Code and Course Title	BTCVL509 , Geotechnical Engineering Lab
Prerequisite/s	Engineering Geology
Teaching Scheme: Lecture/Tutorial/Practical	00/00/02
Credits	1
Evaluation Scheme: CA/ESE	20/30

**Course Outcomes:**

Course Outcomes (COs): Upon successful completion of this course, the student will be able to:		Blooms Level
<b>BTCVL509_1</b>	Determine different engineering properties of soil.	L2
<b>BTCVL509_2</b>	Identify and classify soils based on standard geotechnical engineering practices.	L3
<b>BTCVL509_3</b>	Perform Laboratory compaction and in-place density tests.	L3
<b>BTCVL509_4</b>	Perform and interpret direct shear tests and estimate shear strength parameters.	L4

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Program Outcomes												PSO 1	PSO 2	PSO 3
	1	2	3	4	5	6	7	8	9	10	11	12			
<b>BTCVL509_1</b>	3	2	2	2			2					2	2	2	2
<b>BTCVL509_2</b>	3	2	2	2			2					2	2	2	2
<b>BTCVL509_3</b>	3	2	2	2			2					2	2	2	2
<b>BTCVL509_4</b>	3	2	2	2			2					2	2	2	2
<b>Total</b>	12	8	8	8			8					8	8	8	8
<b>Average</b>	3	2	2	2			2					2	2	2	2
<b>BTCVL509</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>2</b>			<b>2</b>					<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>

**CO Attainment Targets:**

CO	509_1	509_2	509_3	509_4
Previous Attainment				
Target for CAY				

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**Department of Civil Engineering**

Academic Year 2024-25

Semester- ODD

**Structure of Course**

Class	T.Y. Sem. – V
Course Code and Course Title	BTCVL510 Concrete Technology Lab.
Prerequisite/s	Basic Civil Engineering
Teaching Scheme: Lecture/Tutorial/Practical	00/00/02
Credits	1
Evaluation Scheme: CA/MSE/ESE	20/00/30

**Course Outcomes:**

Course Outcomes (COs):	Blooms Level
Upon successful completion of this course, the student will be able to:	
BTCVL510_1 Perform tests on Cement.	L3
BTCVL510_2 Perform tests on Aggregates.	L3
BTCVL510_3 Perform tests on Fresh concrete.	L3
BTCVL510_4 Perform tests on Hardened Concrete.	L3
BTCVL510_5 Design trial mixes by various methods	L4
BTCVL510_6 Understand Non-Destructive Test.	L2

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Program Outcomes														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO	PSO	PSO
BTCVL510_1	3	2						2	2	2		2	2	2	2
BTCVL510_2	2	2			2	2		2	3	2		2	2	2	2
BTCVL510_3	3	2	2			2	2	2	2	2		2	2	2	2
BTCVL510_4	2	2			2	2		2	2	2		2	2	2	2
BTCVL510_5	3	2						2	2	2		2	2	2	2
BTCVL510_6	2	2			2	2		2	3	2		2	2	2	2
<b>Total</b>															
<b>Average</b>															
BTCVL510															

**CO Attainment Targets:**

CO	510_1	510_2	510_3	510_4	510_5	510_6
Previous Attainment						
Target for CAY						

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**DEPARTMENT OF CIVIL ENGINEERING**

**Academic Year 2024-25**  
**Semester- ODD**

Structure of Course

Class	Final Year Civil semester VII
Course Code and Course Title	BTCVC701, Design of RC & PSC Structures
Prerequisite/s	Mechanics of Solid, Design of RC Structures
Teaching Scheme:	03/01/00
Credits	3
Evaluation Scheme: CA/ESE	20/20/60

Course Outcomes:

Course Outcomes (COs):		Blooms Level
After successful completion of this course, the student will be able to:		
BTCVC701_1	Identify the behavior, analyze and design of the beam sections subjected to torsion.	L2
BTCVC701_2	Analyze and design of axially and eccentrically loaded column and construct the interaction diagram for them.	L3
BTCVC701_3	Understand various concepts, systems and losses in pre-stressing.	L2
BTCVC701_4	Analyze and design the rectangular and symmetrical I-section pre-stressed beam / girders.	L3

Mapping of CO's with PO's and PSO's:

Course Outcomes	Program Outcomes												PSO1	PSO2	PSO3
	1	2	3	4	5	6	7	8	9	10	11	12			
BTCVC701_1	3	2	2					2		2		2	2	2	2
BTCVC701_2	3	2	2					2				2	3	2	2
BTCVC701_3	2	2						2		2		2	2	2	2
BTCVC701_4	3	2	2					2				2	2	2	2
Total	11	8	6					8		4		8	9	8	8
Average	2.75	2	2					2		2		2	2.25	2	2
BTCVC701	3	2	2					2		2		2	2	2	2

CO Attainment Targets:

CO	701_1	701_2	701_3	701_4
Previous Attainment				
Target for CAY				

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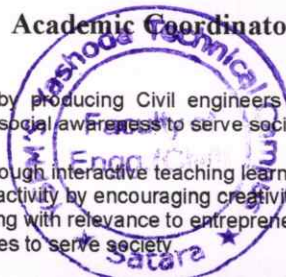
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**Department of Civil Engineering**

Academic Year 2024-25

Semester- ODD

**Structure of Course**

Class	Final Year Sem. – VII
Course Code and Course Title	BTCVC702 Infrastructure Engineering
Prerequisite/s	Basic Civil Engineering
Teaching Scheme: Lecture/Tutorial/Practical	03/00/00
Credits	3
Evaluation Scheme: CA/MSE/ESE	20/20/60

**Course Outcomes:**

Course Outcomes (COs):		Blooms Level
Upon successful completion of this course, the student will be able to:		
BTCVC702_1	Know about the basics and design of various components of railway	L2
BTCVC702_2	Understand the types and functions of tracks, junctions and railway stations.	L2
BTCVC 702_3	Understand Airport engineering.	L1
BTCVC 702_4	Understand Docks and Harbors.	L1
BTCVC 702_5	Know about the aircraft characteristics, planning and components of airport	L1
BTCVC 702_6	Understand the types and components of docks and harbors.	L1
BTCVC 702_7	Understand the Tunnel Engineering.	L1
BTCVC 702_8	Understand Mass rapid transit system.	L1

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Program Outcomes												PSO	PSO	PSO
	1	2	3	4	5	6	7	8	9	10	11	12			
CO: 702_1	2								2	2		2	2	2	2
CO: 702_2	2	2	2						2	2		2	2	2	2
CO: 702_3	1												1		1
CO: 702_4	1											1	1		1
CO: 702_5	2		2				2					1	1		1
CO: 702_6	1											1	1		1
CO: 702_7	2												2	2	2
CO: 702_8	2												2		2
<b>Total</b>													2		2
<b>Average</b>															
<b>BTCVC702</b>															

**CO Attainment Targets:**

CO	702_1	702_2	702_3	702_4	702_5	702_6	702_7	702_8
<b>Previous Attainment</b>								
<b>Target for CAY</b>								

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**DEPARTMENT OF CIVIL ENGINEERING**

Academic Year 2024-25

Semester- ODD

**Structure of Course**

Class	B. Tech. Sem. -VI
Course Code and Course Title	<b>BTCVC703 Construction Techniques</b>
Prerequisite/s	BTCVC406, BTCVC502, BTCVC504
Teaching Scheme: Lecture/Tutorial/Practical	03/00/00
Credits	03
Evaluation Scheme: CA / MSE / ESE	20/20/60

**Course Outcomes:**


Course Outcomes (COs): Upon successful completion of this course, the student will be able to:		Blooms Level
BTCVC703_1	Understand the planning of new project with site accessibility and services required.	L2
BTCVC703_2	Comprehend the various civil construction equipment's.	L3
BTCVC703_3	Familiar with layout of RMC plant, production, capacity and operation process..	L2
BTCVC703_4	Recognize various aspect of road construction, construction of diaphragm walls, railway track construction etc.	L3

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Programme Outcomes															
	1	2	3	4	5	6	7	8	9	10	11	12	PSO 1	PSO 2	PSO 3	
BTCVC703_1	2							2			2	2	2			
BTCVC703_2	3							2			2	2	2			
BTCVC703_3	2							2				2	2			
BTCVC703_4	3							2					2			
Total	10							8			4	6	8			
Average	2.5							2			2	2	2			
BTCVC703	3							2			2	2	2			

**CO Attainment Targets:**

CO	703_1	703_2	703_3	703_4
Previous Attainment				
Target for CAY				

  
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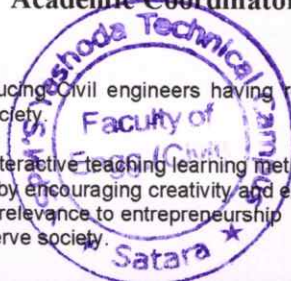
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**Department of Civil Engineering**  
**Academic Year 2024-25**                      **Semester- ODD**

**Structure of Course**

Class	Final year . Sem. – VII
Course Code and Course Title	<b>BTCVE705I, Bridge Engineering</b>
Prerequisite/s	Steel Structure Design, Design of Reinforced Concrete Structures, Transportation Engineering
Teaching Scheme: Lecture/Tutorial/Practical	03/00/00
Credits	3
Evaluation Scheme: CA/ESE	20/60

**Course Outcomes:**

Course Outcomes (COs):		Blooms Level
Upon successful completion of this course, the student will be able to:		
<b>BTCVE705I_1</b>	Understand components of bridges and its various types..	L2
<b>BTCVE705I_2</b>	Understand site selection criteria	L2
<b>BTCVE705I_3</b>	Comprehend various forces acting on bridges	L2
<b>BTCVE705I_4</b>	Analyze bridge structures using different analysis techniques.	L3
<b>BTCVE705I_5</b>	Understand importance of different types of bridge bearings.	L3

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Programme Outcomes													PSO	PSO	PS
	1	2	3	4	5	6	7	8	9	10	11	12				
<b>BTCVE705I_1</b>	3	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
<b>BTCVE705I_2</b>	3	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
<b>BTCVE705I_3</b>	3	2	0	0	0	0	0	0	0	0	0	0	0	2	2	2
<b>BTCVE705I_4</b>	3	2	2	0	0	0	0	0	0	0	0	0	0	2	2	2
<b>BTCVE705I_5</b>	3	2	2	0	0	0	0	0	0	0	0	0	0	2	2	2
<b>Total</b>	15	6	4	0	0	0	0	0	0	0	0	0	0	10	10	10
<b>Average</b>	3	2	2	0	0	0	0	0	0	0	0	0	0	2	2	2
<b>BTCVE705I</b>	3	3	2	0	0	0	0	0	0	0	0	0	0	2	2	2

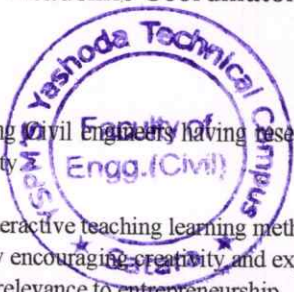
**CO Attainment Targets:**

CO	403_1	403_2	403_3	403_4	403_5
Previous Attainment					
Target for CAY					

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**DEPARTMENT OF CIVIL ENGINEERING****Academic Year 2024-25****Semester- ODD****Structure of Course**

Class	TY. Sem. – VII
Course Code and Course Title	BTCVOE706G , Bamboo Construction Technology
Prerequisite/s	Material Testing and Evaluation
Teaching Scheme: Lecture/Tutorial/Practical	03/00/00
Credits	Audit
Evaluation Scheme: CA/ESE	-

**Course Outcomes:**

Course Outcomes (COs):		Blooms Level
Upon successful completion of this course, the student will be able to:		
<b>BTCVOE706G_1</b>	Understand need of Bamboo in construction.	L2
<b>BTCVOE706G_2</b>	Understand bamboo as a construction material	L2
<b>BTCVOE706G_3</b>	Develop construction techniques in bamboo	L3
<b>BTCVOE706G_4</b>	Apply knowledge of Bamboo anatomy and Properties in Practical design of Bamboo Projects.	L3

**Mapping of CO's with PO's and PSO's:**

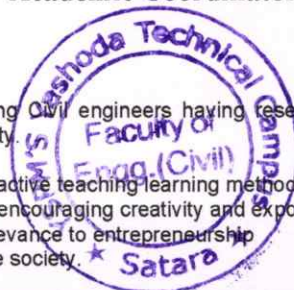
Course Outcomes	Program Outcomes														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO 1	PSO 2	PSO 3
<b>BTCVOE706G_1</b>	2	2	2	3		3	3		2			3	2	2	
<b>BTCVOE706G_2</b>	2	2	2	3		3	3		2			3	2	2	
<b>BTCVOE706G_3</b>	3	3	3	3		3	3		2		2	3	3	2	
<b>BTCVOE706G_4</b>	3	3	3	3		3	3		2		3	3	2	2	2
<b>Total</b>	10	10	10	12		12	12		8		5	12	9	8	2
<b>Average</b>	2.5	2.5	2.5	3		3	3		2		1.25	3	2.25	2	1
<b>BTCVOE706G</b>	3	3	3	3		3	3		2		1	3	2	2	1

**CO Attainment Targets:**

CO	706_1	706_2	706_3	706s_4
<b>Previous Attainment</b>				
<b>Target for CAY</b>				

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**DEPARTMENT OF CIVIL ENGINEERING****Academic Year 2024-25****Semester- ODD**Structure of Course

Class	Final Year Civil semester VII
Course Code and Course Title	BTCVC708, Design & Drawing of Prestressed Concrete
Prerequisite/s	Mechanics of Solid, Design of RC & PSC Structures
Teaching Scheme: Lecture/Tutorial/Practical	00/00/02
Credits	1
Evaluation Scheme: CA/ESE	30/20

Course Outcomes:

Course Outcomes (COs):		Blooms Level
After successful completion of this course, the student will be able to:		
BTCVL708_1	Understand different types of losses.	L2
BTCVL708_2	Understand various concepts, systems and in pre-stressing.	L2
BTCVL708_3	Identify the behavior of the beam sections subjected to torsion.	L2
BTCVL708_4	Design and drawing of slab and girders.	L3
BTCVL708_5	Communicate technical information by means of report and presentation.	L2

Mapping of CO's with PO's and PSO's:

Course Outcomes	Program Outcomes														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2	PSO3
BTCVL708_1	3							2	2		2	2	2	2	2
BTCVL708_2	3	2					2	2	2		2	2	2	2	
BTCVL708_3	3	2	2					2	2		2	2	2	2	2
BTCVL708_4	2	2	2					2	2		2	2	2	2	
BTCVL708_5								2	3		2	2	3		
<b>Total</b>	11	6	4					2	10	11		10	10	11	4
<b>Average</b>	2.75	2	2					2	2	2.2		2	2	2.2	2
<b>BTCVC708</b>	<b>3</b>	<b>2</b>	<b>2</b>					<b>2</b>	<b>2</b>	<b>2</b>		<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>

CO Attainment Targets:

CO	708_1	708_2	708_3	708_4	708_5
Previous Attainment					
Target for CAY					

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**Department of Civil Engineering**  
**Academic Year 2024-25 Semester- ODD****Structure of Course**

Class	Final year Sem – VII
Course Code and Course Title	BTCVS710, Seminar
Prerequisite/s	Transportation Engineering
Teaching Scheme: Lecture/Tutorial/Practical	00/00/02
Credits	1 (Audit)
Evaluation Scheme: CA/ESE	50/00

**Course Outcomes:**

Course Outcomes (COs):		Blooms
BTCVS710_1	Understanding Road Components and Materials	L2
BTCVS710_2	Identify and understand Construction Machinery and Their Functions	L2
BTCVS710_3	Understanding Road Construction Phases and Their Purpose	L2
BTCVS710_4	Apply Road Construction Knowledge to Site Visits	L2

**Mapping of CO's with PO's and PSO's:**

Course Outcomes	Programme Outcomes												PSO 1	PSO 2	PS O3
	1	2	3	4	5	6	7	8	9	10	11	12			
BTCVS710_1	3	0	0	0	0	0	0	2	3	2	0	2	2	2	2
BTCVS710_2	3	0	0	0	0	0	0	2	3	2	0	2	2	2	2
BTCVS710_3	3	0	0	0	0	0	0	2	3	2	0	2	2	2	2
BTCVS710_4	3	0	0	0	0	0	0	2	3	2	0	2	2	2	2
<b>Total</b>	12	0	0	0	0	0	0	8	12	8	0	8	8	8	8
<b>Average</b>	3	0	0	0	0	0	0	2	3	2	0	2	2	2	2
<b>BTCVS710</b>	3	0	0	0	0	0	0	2	3	2	0	2	2	2	2

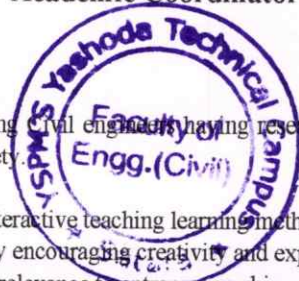
**CO Attainment Targets:**

CO	403_1	403_2	403_3	403_4	403_5
Previous Attainment					
Target for CAY					

*stake*  
Prepared by  
Course Coordinator

*stake*  
Verified by  
Academic Coordinator

*stake*  
Approved by  
HOD



**Vision:** To become centre of excellence by producing civil engineers having research and development activity, sound technical knowledge, professional skills and social awareness to serve society.

**Mission:**

M1: To impart quality technical education through interactive teaching learning method.

M2: To promote research and development activity by encouraging creativity and exposure to real world problem.

M3: To mentor students for innovating thinking with relevance to entrepreneurship



Yashoda Shikshan Prsarak Mandals  
**Yashoda Technical Campus**

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Faculty of Engineering

**DEPARTMENT OF CIVIL ENGINEERING**

**Academic Year 2024-25**

**Semester- ODD**

Structure of Course

Class	Final Year Civil semester VII
Course Code and Course Title	BTCVP711, Project Stage I
Prerequisite/s	Basic Civil Engineering, Mini Project, Seminar
Teaching Scheme: Lecture/Tutorial/Practical	00/00/02
Credits	3
Evaluation Scheme: CA/ESE	50/50

Course Outcomes:

Course Outcomes (COs):		Blooms Level
After successful completion of this course, the student will be able to:		
BTCEP711_1	Identify thrust area in civil engineering and finalize problem statement.	L2
BTCEP711_2	Review the literature to search for technical information from various	L2
BTCEP711_3	Work as an individual or in a team in development of technical projects.	L2
BTCEP711_4	Apply project management skills (scheduling work and working within the	L2
BTCEP711_5	Communicate technical information by means of report and presentation.	L2

Mapping of CO's with PO's and PSO's:

Course Outcomes	Program Outcomes														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2	PSO3
BTCVP711_1	3	3	2	2	2	3	2					3	3		
BTCVP711_2	3	3	2	2								2	2	2	2
BTCVP711_3	3	3	3		2							3	3	2	2
BTCVP711_4								3	3	3	3	3	3		2
BTCVP711_5					2	3		3	3	3	3	3	2		
Total	9	9	7	4	6	6	2	6	6	6	6	14	13	4	6
Average	3	3	2.33	2	2	3	2	3	3	3	3	2.8	2.6	2	2
BTCVP711	3	3	2	2	2	3	2	2	3	3	3	3	3	2	2

CO Attainment Targets:

CO	711_1	711_2	711_3	711_4	711_5
Previous Attainment					
Target for CAY					

*[Signature]*

Prepared by

Course Coordinator

*[Signature]*

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*[Signature]*

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M4: To develop social awareness in graduates to serve society.