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Faculty of Engineering

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	02/01
Credits	3
Evaluation Scheme: CA/MSE/ESE	20/20/60

Course Outcomes:

Course Outcomes (COs): After successful completion of this course, the student will be able to:		**Blooms Level**
BTCVC501_1	Compute the design loads and the stresses developed in the steel member.	**L3**
BTCVC501_2	Analyze and design the various connections and identify the potential failure modes.	**L4**
BTCVC501_3	Analyze and design various tension, compression and flexural members.	**L4**
BTCVC501_4	Discuss 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	2	3	2
BTCVC501_2	3	2	2					1	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		2	1
Total	11	9	7					5	6	8		9	6	9	7
Average	2.75	2.25	2.33					1.67	2.00	2.00		2.25	2.00	2.25	1.75
BTCVC501	**2**	**2**	**2**					**2**	**2**	**2**		**2**	**2**	**2**	**2**

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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	03/01
Credits	4
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**
BTCVC502_1	Explain different soil properties and behavior.	**L3**
BTCVC502_2	Discuss 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**	**PS O3**
BTCVC502_1	3	3	2	2			2		2			3	2	2	2
BTCVC502_2	3	3	2	2			2		2			3	2	2	2
BTCVC502_3	3	3	2	2			2		2			3	2	2	2
BTCVC502_4	3	3	2	2			2		2			3	2	2	2
Total	12	12	8	8			8		8			12	8	8	8
Average	3	3	2	2			2		2			3	2	2	2
BTCVC502	**3**	**3**	**2**	**2**			**2**		**2**			**3**	**2**	**2**	**2**

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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	02/01
Credits	3
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**
BTCVC503_1	Analyze the determinant structure by matrix method.	**L4**
BTCVC503_2	Explain the principles and concepts related to finite element methods.	**L2**
BTCVC503_3	Analyze the determinant structure by influence line diagram.	**L4**
BTCVC503_4	Analyze cables, arches and suspension bridges	**L4**

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**
BTCVC503_1	3	3	2	2	3					2		2		3	2
BTCVC503_2	3	2	2	2	3					2		2		2	2
BTCVC503_3	3	3	2	3	3					2		2		3	2
BTCVC503_4	3	3	3	3	3		2			2		2	2	3	3
Total	12	11	9	10	12		2			8		8	2	11	9
Average	3	2.75	2.25	2.5	3		2			2		2	2	2.75	2.25
BTCVC503	**3**	**3**	**2**	**2**	**3**		**2**			**2**		**2**	**2**	**3**	**2**

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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	02/00
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	Discuss the various types and properties of ingredients of concrete.	**L3**
BTCVC504_2	Explain the effect of admixtures on the behavior of the concrete.	**L3**
BTCVC504_3	Prepare 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														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2	PSO3
BTCVC504_1	2	1							2	2		2		2	2
BTCVC504_2	2	2					2		2	2		2		1	1
BTCVC504_3	2	2			2		2		2	2		2	1	2	2
BTCVC504_4	2				2				2	2		2	1	2	2
Total	8	5			4		4		8	8		8	2	7	7
Average	2	1.67			2		2		2	2		2	1.33	1.75	1.75
BTCVC504	**2**	**2**			**2**		**2**		**2**	**2**		**2**	**1**	**2**	**2**

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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	03
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**
BTHM 505 _1	Explain various steps in project Management with different types of charts.	**L3**
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	Explain the concept of engineering economics, economic comparisons, and linear break-even analysis problems.	**L2**
BTHM 505_5	Explain 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**	**PSO1**	**PSO2**	**PSO3**
BTHM 505 _1	**3**	**2**									**3**	**3**	**2**	**2**	**2**
BTHM 505 _2	**3**	**2**									**3**	**2**	**2**	**3**	**2**
BTHM 505 _3	**3**	**2**									**3**	**2**	**2**	**3**	**2**
BTHM 505 _4	**2**										**3**	**2**	**2**	**2**	**2**
BTHM 505_5	**2**										**3**	**2**	**2**	**2**	**2**
Total	13	6									15	10	10	12	10
Average	2.6	2									3	2	2	2.4	2
BTHM 505	**3**	**2**									**3**	**2**	**2**	**3**	**2**

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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	BTCVPE506G Material Testing & Evaluation
Prerequisite/s	Basic Civil Engineering, Building Construction Drawing
Teaching Scheme: Lecture	3
Credits	3
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**
BTCVPE506G_1	Explain various types, uses, advantages and disadvantages of basic construction materials.	**L3**
BTCVPE506G_2	Describe the concrete materials as per IS standards.	**L2**
BTCVPE506G_3	Discuss various composite materials used in construction.	**L2**
BTCVPE506G_4	Explain various types of construction techniques, admixtures, epoxy, in various types of concretes.	**L3**
BTCVPE506G_5	Interpret various concrete testing techniques used in construction.	**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	PSO1	PSO2	PSO3
BTCVPE506G_1	2					1	1	1			1	2	1	2	2
BTCVPE506G_2	2					1	1	1				2	1	2	1
BTCVPE506G_3	2					1	12				1	2	1	2	2
BTCVPE506G_4	2					1	12				1	2	1	2	2
BTCVPE506G_5	2					1	12				1	2	1	2	2
Total	10					5	4	2				8	5	8	7
Average	2					1	2	1			1	2	1	2	1.75
BTCVPE506G	2					1	2	1			1	2	1	2	2

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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	--
Teaching Scheme: Lecture	02
Credits	Audit
Evaluation Scheme: CA	50

Course Outcomes:

Course Outcomes (COs): Upon successful completion of this course, the student will be able to:		**Blooms Level**
BTCVES507_1	Analyze and design RCC structure components.	**L4**
BTCVES507_2	Explain several software's used in civil engineering.	**L3**
BTCVES507_3	Apply different software's for various issues in civil engineering	**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**
BTCVES507_1	3	3	2	2	2			2	2	2	2	2	2	2	2
BTCVES507_2	3	3	2	2	2			2	2	2	2	2	2	2	2
BTCVES507_3	3	3	2	2	2			2	2	2	2	2	2	2	2
Total	9	9	6	6	6			6	6	6	6	6	6	6	6
Average	3	3	2	2	2			2	2	2	2	2	2	2	2
BTCVP610	**3**	**3**	**2**	**2**	**2**			**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**

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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: Practical	02
Credits	1
Evaluation Scheme: CA/ESE	20/30

Course Outcomes:

Course Outcomes (COs): After successful completion of this course, the student will be able to:		**Blooms Level**
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	Practice in a group for design-oriented task related to project.	**L3**
BTCVL508_4	Develop skills of technical report writing and comprehension of results.	**L3**

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

Course	**Program Outcomes**														
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**PSO1**	**PSO2**	**PSO3**
BTCVL508_1	2	2	2	2		1	1	2	2			2	1	2	2
BTCVL508_2	2	2	2					2				2	2	2	
BTCVL508_3	3	3							3	2	2	3		2	2
BTCVL508_4										3	2	3		2	2
Total	7	7	4	2		1	1	4	5	5	4	10	3	8	6
Average	2.33	2.33	2.00	2.00		1	1	2.00	2.50	2.50	2.00	2.50	1.50	2.00	2.00
BTCVC508	**2**	**2**	**2**	**2**		**1**	**1**	**1**	**3**	**3**	**2**	**3**	**2**	**2**	**2**

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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: Practical	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**
BTCVL509_1	Examine different engineering properties of soil.	L3
BTCVL509_2	Classify soils based on standard geotechnical engineering practices.	L4
BTCVL509_3	Demonstrate Laboratory compaction and in-place density tests.	L4
BTCVL509_4	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**														
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**PSO 1**	**PSO 2**	**PSO 3**
BTCVL509_1	3	3	2	2			2		2	2		2	2	2	2
BTCVL509_2	3	3	2	2			2		2	2		2	2	2	2
BTCVL509_3	3	3	2	2			2		2	2		2	2	2	2
BTCVL509_4	3	3	2	2			2		2	2		2	2	2	2
Total	12	12	8	8			8		8	8		8	8	8	8
Average	3	3	2	2			2		2	2		2	2	2	2
BTCVL509	**3**	**3**	**2**	**2**			**2**		**2**	**2**		**2**	**2**	**2**	**2**

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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: Practical	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**
BTCVL510	Examine tests on ingredients of concrete.	**L3**
BTCVL510	Examine tests on fresh and hardened concrete.	**L3**
BTCVL510	Practice trial concrete mixes by various methods.	**L3**
BTCVL510	Compute Non-Destructive Test on concrete structural members.	**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	PSO1	PSO2	PSO3
BTCVL510	3	2						2	2	2		2		2	2
BTCVL510	2	2			2	2		2	3	2		2	2	2	2
BTCVL510	3	2				2	2	2	2	2		2		2	2
BTCVL510	2	2			2	2		2	2	2		2		2	2
Total	10	8			4	6	2	8	9	8		8	2	8	8
Average	2.5	2			2	2	2	2	2.25	2		2	2	2	2
BTCVL510	**3**	**2**			**2**	**2**	**2**	**2**	**2**	**2**		**2**	**2**	**2**	**2**

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