Yashoda Shikshan Prsarak Mandal's
Yashoda Technical Campus
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Faculty of Engineering

DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2024-25 **Semester- EVEN**

Structure of Course

Class	SY Civil semester IV
Course Code and Course Title	**BTCVC403,** Structural Mechanics I
Prerequisite/s	Mechanics of Solid
Teaching Scheme: Lecture/Tutorial/Practical	02/01/00
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**
BTCVC403_1	**Describe** the concept of structural analysis, degree of indeterminacy.	L2
BTCVC403_2	**Calculate** slopes and deflection at various locations for different types of beams.	L3
BTCVC403_3	**Identify** determinate and indeterminate trusses and calculate forces in the members of trusses	L3
BTCVC403_4	**Perform** the distribution of the moments the in continuous beam and frame	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**
BTCVC403_1	2											2	2	2	2
BTCVC403_2	3	2	2									2	2	2	2
BTCVC403_3	3	2	2									2	2	2	2
BTCVC403_4	3	2	2									2	2	2	2
Total	11	6	6									8	8	8	8
Average	2.75	2	2									2	2	2	2
BTCVC403	**3**	**2**	**2**									**2**	**2**	**2**	**2**

CO Attainment Targets:

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

Prepared by
Course Coordinator

Verified by
Academic Coordinator

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Academic Year 2023-24 **Semester- EVEN**

Structure of Course

Class	SY. Sem. –IV
Course Code and Course Title	**BTCVC405 Hydraulics II**
Prerequisite/s	BTCVC304
Teaching Scheme: Lecture/Tutorial/Practical	02/01/02
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**
BTCVC405_1	Design open channel sections in a most economical way.	**L3**
BTCVC405_2	Know about the non-uniform flows in open channel and the characteristics of hydraulic jump.	**L3**
BTCVC405_3	Understand application of momentum principle of impact of jets on plane	**L2**
BTCVC405_4	To analyze and select the pumps and turbines as per requirements	**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**	**PSO1**	**PSO 2**	**PSO 3**
BTCVC405_1	**3**	**2**	**2**									**3**	**2**		**2**
BTCVC405_2	**3**	**2**										**2**	**2**		**2**
BTCVC405_3	**3**	**2**										**2**	**2**		**2**
BTCVC405_4	**3**	**2**	**2**									**3**	**3**		**2**
Total	12	8	4									10	9		8
Average	3	2	2									2.5	2.25	2	2
BTCVC405	**3**	**2**	**2**									**3**	**2.5**	**2**	**2**

CO Attainment Targets:

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

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Academic Year 2023-24 **Semester- EVEN**

Structure of Course

Class	SY. Sem. –IV
Course Code and Course Title	**BTCVC406 Engineering Geology**
Prerequisite/s	Basic Civil Engineering
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**
BTCVC406_1	Recognize the different land forms which are formed by various geological agents.	**L3**
BTCVC406_2	Identify the origin, texture and structure of various rocks and physical properties of mineral.	**L3**
BTCVC406_3	Emphasize distinct geological structures which have influence on the civil engineering structure.	**L3**
BTCVC406_4	Understand how the various geological conditions affect the design parameters of structures.	**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**	**PSO**
BTCVC406_1	**2**	**2**				**2**	**2**					**2**	**2**	**2**	**2**
BTCVC406_2	**2**	**2**				**2**	**2**					**2**	**2**	**2**	**2**
BTCVC406_3	**2**	**2**				**2**	**2**					**2**	**2**	**2**	**2**
BTCVC406_4	**2**	**2**				**2**	**2**					**2**	**2**	**2**	**2**
Total	8	8				8	8					8	8	8	8
Average	2	2				2	2					2	2	2	2
BTCVC406	**2.5**	**2.**				**2.**	**2.**					**2.5**	**2.5**	**2.5**	**2.5**

CO Attainment Targets:

CO	**406_1**	**406_2**	**406_3**	**406_4**
Previous Attainment				
Target for CAY				

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Academic Year 2023-24 **Semester- EVEN**

Structure of Course

Class	SY. Sem. –IV
Course Code and Course Title	**BTCVL409 Hydraulics II LAB**
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): Upon successful completion of this course, the student will be able to:		**Blooms Level**
BTCVL409_1	**Understand** various properties of fluids and measurement techniques.	**L2**
BTCVL409_2	**Carry out** calibrations of various flow measuring devices.	**L3**
BTCVL409_3	**Understand** mechanism of hydraulic jump, various jets and pumps.	**L2**
BTCVL409_4	Work effectively in team to perform and findings the results.	**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**
BTCVL409.1	3							2	2			2	3	2	2
BTCVL409.2	3							2	2			2	2	2	2
BTCVL409.3	3							2	2			2	2	2	2
BTCVL409.4								2	2			2	2	2	2
Total	9							8	8			8	9	8	8
Average	3							2	2			2	2.25	2	2
BTCVC405	**3**							**2**	**2**			**2**	**2.5**	**2**	**2**

CO Attainment Targets:

CO	**409_1**	**409_2**	**409_3**	**409_4**
Previous Attainment				
Target for CAY				

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DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2024-25 **Semester- EVEN**

Structure of Course

Class	TY Civil semester VI
Course Code and Course Title	**BTCVC601,** Design of RC Structures
Prerequisite/s	Mechanics of Solid
Teaching Scheme: Lecture/Tutorial/Practical	02/01/00
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**
BTCVC601_1	**Comprehend** to the various design philosophies used for design of reinforced concrete.	L2
BTCVC601_2	**Analyze and design** the reinforced concrete slab using limit state and working state method.	L3
BTCVC601_3	**Analyze and design** the reinforced concrete beam using limit state and working state method.	L3
BTCVC601_4	**Analyze and design** the reinforced concrete column using limit state and working state method.	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
BTCVC601_1	2											2	2	2	2
BTCVC601_2	3	3	2			2						2	2	2	2
BTCVC601_3	3	3	2			2						2	2	2	2
BTCVC601_4	3	3	2			2						2	2	2	2
Total	11	9	6			6						8	8	8	8
Average	2.75	3	2			2						2	2	2	2
BTCVC601	**3**	**2**	**2**									**2**	**2**	**2**	**2**

CO Attainment Targets:

CO	601_1	601_2	601_3	601_4	601_5
Previous Attainment					
Target for CAY					

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Academic Year 2024-25 **Semester- EVEN**

Structure of Course

Class	T.Y. Sem. –V
Course Code and Course Title	**BTCVC603 Transportation Engineering**
Prerequisite/s	BTCVC305
Teaching Scheme: Lecture/Tutorial/Practical	03/00/02
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**
BTCVC603_1	Comprehend various types of transportation systems and their history of the development.	**L2**
BTCVC603_2	Design highway geometrics.	**L3**
BTCVC603_3	Determine the quality of Materials used for pavements.	**L2**
BTCVC603_4	Comprehend to various types of pavements	**L2**
BTCVC603_5	Design the pavements by considering various aspects associated with traffic safety measures.	**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**	**PS**	**PSO**	**PSO**
BTCVC603_1	**3**											**3**	**2**	**2**	**2**
BTCVC603_2	**3**	**2**	**2**									**2**	**3**	**2**	**2**
BTCVC603_3	**3**	**2**										**2**	**2**	**2**	**2**
BTCVC603_4	**3**	**2**										**2**	**2**	**2**	**2**
BTCVC603_5	**3**	**2**	**2**									**3**	**3**	**2**	**2**
Total	15	8	4									12	12	10	10
Average	3	2	2									2.4	2.4	2	2
BTCVC 603	**3**	**2**	**2**									**2.5**	**2.5**	**2**	**2**

CO Attainment Targets:

CO	**603_1**	**603_2**	**603_3**	**603_4**	**603_5**
Previous Attainment					
Target for CAY					

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Academic Year 2024-25 Semester- EVEN

Structure of Course

Class	TY Civil semester VI
Course Code and Course Title	**BTCVPE604F,** Structural Audit
Prerequisite/s	Concrete Technology, Material Testing &
Teaching Scheme: Lecture/Tutorial/Practical	03/00/00
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**
BTCVC604F_1	**Gain** the knowledge of Bye laws, procedure of Structural audit and study the typical problems in structures	L2
BTCVC604F_2	**Aware** of causes and types of deterioration in structures.	L2
BTCVC604F_3	**Develop** skills for use of various Non-destructive tests required during auditing of structures.	L3
BTCVC604F_4	Strength evaluation of existing structures.	L2
BTCVC604F_5	Acquire knowledge of legal procedure to conduct structural audits.	L2
BTCVC604F_6	Prepare a Structural audit report	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
BTCVPE604F_1	3			2		2	3	2				3	2	2	2
BTCVPE604F_2	3					2	2					3			
BTCVPE604F_3	3	3		2	3							2	3	2	2
BTCVPE604F_4	3	2				2	2					2	2		
BTCVPE604F_5	2	2				2	2	2			2	3	2		
BTCVPE604F_6	3	2				2	2		2	2	2	2	2		
Total	17	9		4	3	10	11	4	2	2	4	15	11	4	4
Average	2.83	2.25		2	3	2	2.2	2	2	2	2	2.5	2.2	2	2
BTCVPE604F	**3**	**2**		**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**	**2**

CO Attainment Targets:

CO	604_1	604_2	604_3	604_4	604_5
Previous Attainment					
Target for CAY					

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Academic Year 2024-25 **Semester- EVEN**

Structure of Course

Class	TY Civil semester V|
Course Code and Course Title	**BTCVC607,** SDD of RC Structures Lab
Prerequisite/s	Mechanics of Solid, Design of RC Structures
Teaching Scheme: Lecture/Tutorial/Practical	00/00/02
Credits	1
Evaluation Scheme: CA/ESE	20/30

Course Outcomes:

Course Outcomes (COs):		**Blooms**
BTCVL607_1	Calculate different loads and perform load combination analysis for different RC buildings as per codal provisions.	L3
BTCVL607_2	Apply the principles, procedures and current code requirements for the design of RC beams, columns, slab, Footings.	L3
BTCVL607_3	Work in a group for design oriented task related to project.	L2
BTCVL607_4	Develop skills of technical report writing and comprehension of results etc.	L2
BTCVL607_5	Apply the knowledge in real life problems	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**
BTCVL607_1	3	3						3				3	2	2	
BTCVL607_2	3	3										3	2	2	
BTCVL607_3	3	3										3	2	2	2
BTCVL607_4									3	3		3	2		2
BTCVL607_5									3	3		3	2		
Total	9	9	0	0	0	0	0	3	6	6	0	15	10	6	4
Average	3	3						3	3	3		3	2	2	2
BTCVL607	3	3						3	3	3		3	2	2	2

CO Attainment Targets:

CO	**607_1**	**607_2**	**607_3**	**607_4**	**607_5**
Previous Attainment					
Target for CAY					

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Academic Year 2023-24 **Semester- EVEN**

Structure of Course

Class	T.Y. Sem. –VI
Course Code and Course Title	**BTCVL608Transportation Engineering LAB**
Prerequisite/s	
Teaching Scheme: Lecture/Tutorial/Practical	03/00/02
Credits	01
Evaluation Scheme: CA / MSE / ESE	20/30

Course Outcomes:

Course Outcomes (COs): Upon successful completion of this course, the student will be able to:		**Blooms Level**
BTCVL608_1	Perform tests on various road construction materials.	**L3**
BTCVL608_2	Perform CBR tests on local soils to determine subgrade properties needed for roadways.	**L3**
BTCVL608_3	Communicate effectively about laboratory work in both orally and writing	**L2**
BTCVL608_4	Work effectively in team to perform and findings the results.	**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 608.1	3	2										2	3	2	2
BTCVL 608.2	3	2	2									2	2	2	2
BTCVL 608.3									2	3		2			
BTCVL 608.4									3	3		2			
Total	6	4	2									8	5	4	4
Average	3	2	2									2	2.5	2	2
BTCVC 603	**3**	**2**	**2**									**2**	**2.5**	**2**	**2**

CO Attainment Targets:

CO	**608_1**	**608_2**	**608_3**	**608_4**
Previous Attainment	**3**	**3**	**3**	**3**
Target for CAY	**3**	**3**	**3**	**3**

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Academic Year 2024-25 **Semester- EVEN**

Structure of Course

Class	TY Civil semester V
Course Code and Course Title	**BTCVP609,** Mini Project
Prerequisite/s	Basic Civil Engineering
Teaching Scheme: Lecture/Tutorial/Practical	00/00/02
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**
BTCVP609_1	**Identify** thrust area in civil engineering and finalize problem statement.	L2
BTCVP609_2	**Work** and complete the methodology and give conclusion on the basis of results.	L2
BTCVP609_3	**Work** as an individual or in a team in development of technical projects.	L2
BTCVP609_4	**Apply** project management skills (scheduling work and working within the confines of a deadline).	L2
BTCVP609_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
BTCVP609_1	3	3		2			2	3				3	2	2	
BTCVP609_2	3	3		2	2							3	2	2	2
BTCVP609_3	3	3				2						3	2	2	2
BTCVP609_4						2			3	3	2	3	2		
BTCVP609_5									3	3		3	2		
Total	9	9		4	2	4	2	3	6	6	2	15	10	6	4
Average	3	3		2	2	2	2	3	3	3	2	3	2	2	2
BTCVP609	3	3		2	2	2	2	3	3	3	2	3	2	2	2

CO Attainment Targets:

CO	609_1	609_2	609_3	609_4	609_5
Previous Attainment					
Target for CAY					

Prepared by
Course Coordinator

Verified by
Academic Coordinator

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

Yashoda Shiskshan Prsarak Mandal's
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Faculty of Engineering

DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2024-25 **Semester- EVEN**

Structure of Course

Class	Final Year Civil semester VIII
Course Code and Course Title	BTCVP803, Project Stage II
Prerequisite/s	Basic Civil Engineering, Mini Project, Project Phase I
Teaching Scheme: Lecture/Tutorial/Practical	00/00/02
Credits	12
Evaluation Scheme: CA/ESE	100/100

Course Outcomes:

Course Outcomes (COs): After successful completion of this course, the student will be able to:		**Blooms Level**
BTCEP803_1	**Identify** thrust area in civil engineering and finalize problem statement.	L2
BTCEP803_2	**Work and complete** the methodology and give conclusion on the basis of results.	L2
BTCEP803_3	**Work** as an individual or in a team in development of technical projects.	L2
BTCEP803_4	**Apply** project management skills (scheduling work and working within the confines of a deadline).	L2
BTCEP803_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
BTCVP803_1	3	3	2	2	2	3	2					3	3		
BTCVP803_2	3	3	2	2								2	2	2	2
BTCVP803_3	3	3	3		2							3	3	2	2
BTCVP803_4								3	3	3	3	3	3		2
BTCVP803_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
BTCVP803	3	2	2	2	2	3	2	3	3	3	3	3	3	2	2

CO Attainment Targets:

CO	803_1	803_2	803_3	803_4	803_5
Previous Attainment					
Target for CAY					

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