

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

<b>Class</b>	Final Year Sem. – VIII
<b>Course Code and Course Title</b>	BTCVSS801D Maintenance and Repair of Concrete Structures
<b>Prerequisite/s</b>	Basic Civil Engineering, Building Construction Drawing, Concrete Technology
<b>Teaching Scheme: Lecture</b>	2
<b>Credits</b>	2
<b>Evaluation Scheme: CA/MSE/ESE</b>	20/20/60 or NPTEL Score

**Course Outcomes:**

<b>Course Outcomes (COs):</b> Upon successful completion of this course, the student will be able to:		<b>Blooms Level</b>
<b>BTCVSS801D _1</b>	Explain Importance of maintenance of concrete structures and corrosion of metal.	<b>L3</b>
<b>BTCVSS801D _2</b>	Illustrate durability parameters of concrete structure.	<b>L3</b>
<b>BTCVSS801D _3</b>	Explain methods of strength evaluation concrete structures.	<b>L3</b>
<b>BTCVSS801D _4</b>	Describe the significance of service/exposure properties of repair material and repair techniques.	<b>L3</b>
<b>BTCVSS801D _5</b>	Select suitability of strengthening techniques for concrete structure.	<b>L3</b>

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

<b>Course Outcomes</b>	<b>Program Outcomes</b>														
	1	2	3	4	5	6	7	8	9	10	11	12	PSO1	PSO2	PSO3
<b>BTCVSS801D _1</b>	2					2	21	2				2	1	2	2
<b>BTCVSS801D _2</b>	2	2	1			1	1	1				2	1	2	1
<b>BTCVSS801D _3</b>	2	1	2		2	1	12	2		1		2	1	2	2
<b>BTCVSS801D _4</b>	2	2	1			1	12					2	1	2	2
<b>BTCVSS801D _5</b>	2	1	1			1	12					2	1	2	2
<b>Total</b>	10	6	5		2	6	58	5		1		10	5	10	9
<b>Average</b>	2	1.5	1.25		2	1.2	11.6	1.67		1		2	1	2	1.8
<b>BTCVSS801D</b>	<b>2</b>	<b>2</b>	<b>1</b>		<b>2</b>	<b>1</b>	<b>1</b>	<b>2</b>		<b>1</b>		<b>2</b>	<b>1</b>	<b>2</b>	<b>2</b>

Prepared by  
Course CoordinatorVerified by  
Academic CoordinatorApproved by  
HOD  
H.O.D.

**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

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<b>Class</b>	Final Year Sem. – VIII
<b>Course Code and Course Title</b>	BTCVSS802C Remote Sensing Essentials
<b>Prerequisite/s</b>	Surveying
<b>Teaching Scheme: Lecture</b>	2
<b>Credits</b>	2
<b>Evaluation Scheme: CA/MSE/ESE</b>	20/20/60 or NPTEL Score

**Course Outcomes:**

<b>Course Outcomes (COs):</b>		<b>Blooms Level</b>
Upon successful completion of this course, the student will be able to:		
<b>BTCVSS802C _1</b>	Explain various remote sensing techniques and stages of remote sensing.	<b>L3</b>
<b>BTCVSS802C _2</b>	Discuss various types and platform of remote sensing	<b>L3</b>
<b>BTCVSS802C _3</b>	Explain process of digital image processing for supervised and unsupervised classification.	<b>L3</b>
<b>BTCVSS802C _4</b>	Describe application of remote sensing and GIS in civil engineering.	<b>L3</b>

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

<b>Course Outcomes</b>	<b>Program Outcomes</b>												<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>			
<b>BTCVSS802C</b>	2	2	1		2	1	1	1	1	1	1	2	2	2	2
<b>BTCVSS802C</b>	2	2			2	1	1	1		1		2	2	2	2
<b>BTCVSS802C</b>	2	2		2	2	1	1		1	1	1	2	2	2	2
<b>BTCVSS802C</b>	2	2		2	2	1	1		1	1	1	2	2	2	2
<b>Total</b>	8	8	1	4	8	4	4	2	3	4	3	8	8	8	8
<b>Average</b>	2	2	1	2	2	1	1	1	1	1	1	2	2	2	2
<b>BTCVSS802C</b>	2	2	1	2	2	1	1	1	1	1	1	2	2	2	2

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

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

**Course Outcomes:**

<b>Course Outcomes (COs):</b>		<b>Blooms Level</b>
After successful completion of this course, the student will be able to:		
<b>BTCEP803_1</b>	Identify thrust area in civil engineering and finalize problem statement.	<b>L2</b>
<b>BTCEP803_2</b>	Formulate the methodology and give conclusion on the basis of results.	<b>L2</b>
<b>BTCEP803_3</b>	Practice as an individual or in a team in development of technical projects.	<b>L3</b>
<b>BTCEP803_4</b>	Apply project management skills.	<b>L2</b>
<b>BTCEP803_5</b>	Summarize technical information by means of report and presentation.	<b>L5</b>

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

<b>Course Outcomes</b>	<b>Program Outcomes</b>												<b>PSO1</b>	<b>PSO2</b>	<b>PSO3</b>
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>			
<b>BTCVP803_1</b>	3	2	2	2	1	2	2	2	1	2		2	2	2	3
<b>BTCVP803_2</b>	2	2	2	2	2			2	1	2	1	2	2	2	2
<b>BTCVP803_3</b>	1							2	3	2	2	2	2	2	2
<b>BTCVP803_4</b>	2				2	2	1	2	2	2	3	2	2	2	2
<b>BTCVP803_5</b>					2	2	1		3	3		2		2	2
<b>Total</b>	8	4	4	4	7	6	4	8	10	11	6	10	8	10	11
<b>Average</b>	2.00	2.00	2.00	2.00	1.75	2.00	1.33	2.00	2.00	2.20	2.00	2.00	2.00	2.00	2.20
<b>BTCVP803</b>	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2

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HOD**H.O.D.****Civil Engineering**

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