



**JYOTHY INSTITUTE OF TECHNOLOGY**  
 [AFFILIATED TO VTU BELAGAVI – 560019]  
 THATHAGUNI, OFF KANAKAPURA ROAD, BENGALURU – 590018  
 DEPARTMENT OF CIVIL ENGINEERING  
**2010 SCHEME OF TEACHING & EXAMINATION**  
**III SEMSTER**

Sl. No	Subject Code	Title	Teaching Dept.	Teaching hours /week		Examination			
				Th.	Pr.	Duration	I.A. Max. Marks	Theory/ Pract. Max. Marks	Total Marks Max. Marks
1	10 MAT 31	Engineering Mathematics –III	Maths	4	--	3	25	100	125
2	10 CV 32	Building Materials and Construction Technology	Civil	4	--	3	25	100	125
3	10 CV 33	Strength of Materials	Civil	4	--	3	25	100	125
4	10 CV 34	Surveying – I	Civil	4	--	3	25	100	125
5	10 CV 35	Fluid Mechanics	Civil	4	--	3	25	100	125
6	10 CV 36	Applied Engineering Geology	Civil/Geo.	4	--	3	25	100	125
7	10 CVL 37	Civil Engg. Material Testing Laboratory	Civil	---	3	3	25	50	75
8	10 CVL 38	Surveying Practice – I	Civil	---	3	3	25	50	75
			<b>Total</b>	<b>22</b>	<b>08</b>	<b>24</b>	<b>200</b>	<b>700</b>	<b>900</b>



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**IV SEMSTER**

S. No	Subject Code	Title	Teaching Dept.	Teaching hours /week		Examination			
				Th.	Pr.	Dur-ation	I.A. Max. Marks	Theory/ Pract. Max. Marks	Total Marks Max. Marks
1	10 MAT 41	Engineering Mathematics –IV	Maths	4	--	3	25	100	125
2	10 CV 42	Concrete Technology	Civil	4	--	3	25	100	125
3	10 CV 43	Structural Analysis – I	Civil	4	--	3	25	100	125
4	10 CV 44	Surveying – II	Civil	4	--	3	25	100	125
5	10 CV 45	Hydraulics and Hydraulic Machines	Civil	4	--	3	25	100	125
6	10 CV 46	Building Planning & Drawing	Civil	1	6	4	25	100	125
7	10 CVL 47	Surveying Practice-II Laboratory	Civil	---	3	3	25	50	75
8	10 CVL 48	Applied Engineering Geology Laboratory	Civil/Geo.	---	3	3	25	50	75
			<b>Total</b>	<b>21</b>	<b>12</b>	<b>25</b>	<b>200</b>	<b>700</b>	<b>900</b>



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**V SEMSTER**

Sl No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
1	10 AL 51	Management & Entrepreneurship	Any Dept.	04	-	03	25	100	125
2	10 CV 52	Design of RCC Structural Elements	Civil	04	--	03	25	100	125
3	10 CV 53	Structural Analysis – II	Civil	04	--	03	25	100	125
4	10 CV 54	Geotechnical Engineering. – I	Civil	04	--	03	25	100	125
5	10 CV 55	Hydrology and Irrigation Engineering	Civil	04	--	03	25	100	125
6	10 CV 56	Transportation Engineering – I	Civil	04	--	03	25	100	125
7	10 CVL 57	Hydraulics and Hydrsulic Machinery Lab.	Civil	--	03	03	25	50	75
8	10 CVL 58	Computer Aided Design Lab.	Civil	--	03	03	25	50	75
<b>TOTAL</b>				<b>24</b>	<b>06</b>	<b>24</b>	<b>200</b>	<b>700</b>	<b>900</b>



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**VI SEMSTER**

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
1	10 CV 61	Environmental Engineering - I	Civil	04	--	03	25	100	125
2	10 CV 62	Design & Drawing of RC structures	Civil	02	03	04	25	100	125
3	10 CV 63	Transportation Engineering – II	Civil	04	--	03	25	100	125
4	10 CV 64	Geotechnical Engineering. – II	Civil	04	--	03	25	100	125
5	10 CV 65	Hydraulic Structures and Irrigation Design-Drawing	Civil	02	03	04	25	100	125
6	10 CV 66x	Elective-I (Group A)	Civil	04	--	03	25	100	125
7	10 CVL 67	Geotechnical Engineering. Lab.	Civil	--	03	03	25	50	75
8	10 CVL 68	Extensive Survey Viva Voce	Civil	--	03	03	25	50	75
<b>TOTAL</b>				<b>20</b>	<b>12</b>	<b>25</b>	<b>200</b>	<b>700</b>	<b>900</b>

**Elective-I (Group A)**

10 CV 661	Theory of Elasticity	10 CV 665	Ground Water Hydrology
10 CV 662	Alternative Building Materials and Technologies	10 CV 666	Rural Water Supply and Sanitation
10 CV 663	Ground Improvement Techniques	10 CV 667	Traffic Engineering
10 CV 664	Advanced Surveying		



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**VII SEMSTER**

Sl No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
1	10 CV 71	Environmental Engineering.-II	Civil	04	--	03	25	100	125
2	10 CV 72	Design of Steel Structures	Civil	04	--	03	25	100	125
3	10 CV 73	Estimation and Valuation	Civil	04	--	03	25	100	125
4	10 CV 74	Design of Pre Stressed Concrete Structures	Civil	04	--	03	25	100	125
5	10 CV 75x	Elective-II (Group B)	Civil	04	--	03	25	100	125
6	10 CV 76x	Elective-III (Group C)	Civil	04	--	03	25	100	125
7	10 CVL 77	Environmental Engineering. Lab	Civil	--	03	03	25	50	75
8	10 CVL 78	Concrete and Highway Materials lab.	Civil	--	03	03	25	50	75
<b>TOTAL</b>				<b>24</b>	<b>06</b>	<b>24</b>	<b>200</b>	<b>700</b>	<b>900</b>

**Elective-II (Group B)**

- 10 CV 751 Matrix Method of Structural Analysis
- 10 CV 752 Advanced Design of RC Structures
- 10 CV 753 Design of Masonry Structures
- 10 CV 754 Earth and Earth Retaining Structures
- 10 CV 755 Highway Geometric Design
- 10 CV 756 Open Channel Hydraulics
- 10 CV 757 Solid Waste Management

**Elective-III (Group C)**

- 10 CV 761 Numerical methods in Civil Engineering
- 10 CV 762 Rock Mechanics
- 10 CV 763 Pavement Materials and Construction
- 10 CV 764 Photogrammetry and Remote Sensing
- 10 CV 765 Air Pollution and Control
- 10 CV 766 Design and Drawing of Bridges.: \* (2 Hrs of Theory + 3 Hrs of Drawing) \* (Exam Duration : 4 Hrs)
- 10 CV 767 Structural Dynamics



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**VIII SEMSTER**

Sl. No.	Subject Code	Title of the Subject	Teaching Dept.	Teaching Hrs / Week		Examination			
				Theory	Practical	Duration (Hrs)	Marks		
							IA	Theory / Practical	Total
1	10 CV 81	Advanced Concrete Technology	Civil	04	--	03	25	100	125
2	10 CV 82	Design and Drawing of Steel Structures	Civil	02	03	04	25	100	125
3	10 CV 83x	Elective-IV (Group D)	Civil	04	--	03	25	100	125
4	10 CV 84x	Elective-V (Group E)	Civil	04	--	03	25	100	125
5	10 CV 85	Project Work	Civil	--	06	03	100	100	200
6	10 CV 86	Seminar	Civil	--	03	03	50	--	50
<b>TOTAL</b>				<b>14</b>	<b>12</b>	<b>19</b>	<b>250</b>	<b>500</b>	<b>750</b>

**Elective-IV (Group D)**

- 10 CV 831 Advanced Pre-stressed Concrete Structures
- 10 CV 832 Advanced Foundation Design
- 10 CV 833 Pavement Design
- 10 CV 834 Earthquake Resistant Design of Structures
- 10 CV 835 Industrial Waste Water Treatment
- 10 CV 836 Construction Management & Engineering Economics.

**Elective-V (Group E)**

- 10 CV 841 Finite Element Analysis
- 10 CV 842 Reinforced Earth Structures
- 10 CV 843 Urban Transport Planning
- 10 CV 844 Geographic Information System
- 10 CV 845 Advanced Design of Steel Structures
- 10 CV 846 Water Resources Engineering
- 10 CV 847 Environmental Impact Assessment