

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## IV B.Tech.(4YDC) CIVIL ENGINEERING

## SEMESTER - VII

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1		CE41001	Design of Advanced RCC Structures	3	-	2	3	1	70	30	40	60	200
2		CE41006	Design of Hydraulic Structure	3	-	2	3	1	70	30	40	60	200
3		CE41007	Geotechnical Engg. -II	3	-	2	3	1	70	30	40	60	200
4			Elective - III	3	-	-	3	-	70	30	-	-	100
5			Elective - IV	3	-	-	3	-	70	30	-	-	100
6		CE41498	Minor Project	-	-	4	-	2	-	-	40	60	100
<b>Total</b>				15	0	10	15	5	350	150	160	240	900

## SEMESTER - VIII

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1			Elective V	3	-	-	3	-	70	30	-	-	100
2			Elective VI	3	-	-	3	-	70	30	-	-	100
3		CE41882	Industrial Training/Internship/Seminar*	-	-	8	-	4	-	-	100	-	100
4		CE41997	Major Project	-	-	8	-	4	-	-	40	60	100
<b>Total</b>				6	0	16	6	8	140	60	140	60	400

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## IV B.Tech.(4YDC) CIVIL ENGINEERING

## List of Electives

Elective - III			Semester VII
S.No.	Subject Category	Subject Code	Subject
1		CE41281	Advanced Analysis of Structures
2		CE41282	Advanced Structural Design(Building)(CE4172)(CE41272)
3			Advanced Geology & Rock Mechanics
4		CE41284	Industrial Waste Water Treatment
5		CE41285	Transportation Planning
6			Planning and Management of Water Resources
7		<b>CE41286</b>	<b>Pavement Materials</b>
8		<b>CE41287</b>	<b>Integrated Waste Management for a Smart City</b>

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**SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE**  
**IV B.Tech.(4YDC) CIVIL ENGINEERING**  
 List of Electives

Elective IV			Semester VII
S.No.	Subject Category	Subject Code	Subject
1		CE41312	Bridge Engineering
2			Advanced Construction Planning & Management
3		CE41313	Pre-stressed Concrete Design
4			Instrumentation & Experimental Techniques
5			System Application to Water Resources
6		CE41311	Traffic Engineering(CE41301)
7		CE	Advance Fluid Mechanics
8		CE41314	Plastic Waste Management
9			MOOC/SWAYAM online course

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## IV B.Tech.(4YDC) CIVIL ENGINEERING

## List of Electives

Elective V			Semester VIII
S.No.	Subject Category	Subject Code	Subject
1		CE41674	Advanced Transportation Engineering(CE41684)
2		CE41678	Design of RCC and Prestressed Bridge(CE41608)
3			Remote Sensing and Geodesy
4			Air Quality Management
5		CE41675	Advanced Geotechnical Engineering
6		CE41677	Advanced Hydrological Analysis
7			

Elective VI			Semester VIII
S.No.	Subject Category	Subject Code	Subject
1		CE41774	Advanced Fluid Mechanics
2			Structural Dynamics
3		CE41773	Advanced Remote Sensing(CE41783)
4		CE41714	Highway Construction Practice
5		CE41711	Municipal Solid Waste Management(CE41701)
6			Finite Element Methods
7		CE	Design of Foundation Systems
8		CE41712	Advanced Construction Practices

## SHRI G S INSTITUTE OF TECHNOLOGY &amp; SCIENCE, INDORE

## III B.Tech.(4YDC) CIVIL ENGINEERING

## SEMESTER - V

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1		CE31006	Environmental Engineering	3	-	2	3	1	70	30	40	60	200
2		CE31003	Design of RCC Structures	3	-	2	3	1	70	30	40	60	200
3		CE31007	Structural Analysis-I	3	1	-	4	-	70	30	-	-	100
4		CE31010	Water Resource Engineering	3	-	2	3	1	70	30	40	60	200
5			Elective I	3	-	2	3	1	70	30	40	60	200
6		CE31490	Industrial Training / Seminar	-	-	4	-	2	-	-	50	-	50
<b>Total</b>				15	1	12	16	6	350	150	210	240	950

## SEMESTER - VI

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				
				L	T	P			Th.	CW	SW	Pr.	Total
1		CE31502	Design of Steel Structures	3	-	2	3	1	70	30	40	60	200
2		CE31505	Structural Analysis-II	3	1	-	4	-	70	30	-	-	100
3		CE31506	Construction Technology-II	3	-	2	3	1	70	30	40	60	200
4		CE31507	Geotechnical Engineering - I	3	-	2	3	1	70	30	40	60	200
5			Elective II	3	-	2	3	1	70	30	40	60	200
6		CE31902	Technical Visit	-	-	4	-	2	-	-	50	-	50
<b>Total</b>				15	1	12	16	6	350	150	210	240	950

**SHRI G S INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE****III B.Tech.(4YDC) CIVIL ENGINEERING****List of Electives**

<b>Elective I</b>			<b>Semester V</b>
<b>S.No.</b>	<b>Subject Category</b>	<b>Subject Code</b>	<b>Subject</b>
1		CE31201	Advance Highway and Airport Engineering
2		CE31202	Pavement Design Construction and Maintanance
3			MOOC/SWAYAM online course

<b>Elective II</b>			<b>Semester VI</b>
<b>S.No.</b>	<b>Subject Category</b>	<b>Subject Code</b>	<b>Subject</b>
1		CE31701	Decentralized Waste Water Management
2		CE31702	Environmental Auditing and Management Systems
3		CE31703	Water and Wastewater Treatment Technologies
4			Biological Processes for Contaminant Removal
5			MOOC/SWAYAM online course

**SHRI G. S. INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE**  
**II B.TECH.(4YDC) CIVIL ENGINEERING**

**Semester: III**

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				Total
				L	T	P			Th.	CW	SW	Pr.	
1		CE21007	Building Planning and Architecture	3	-	2	3	1	70	30	40	60	200
2		CE21002	Geodesy	3	-	2	3	1	70	30	40	60	200
3		CE21003	Strength of Materials	3	1	2	4	1	70	30	40	60	200
4		CE21004	Material Technology	3	-	2	3	1	70	30	40	60	200
5		MA21006	Mathematics III	3	1	-	4	-	70	30	-	-	100
6	HSMC	HU21481	Values, Humanity and Professional Ethics	-	2	-	2	-	-	100	-	-	100
7	MC	HUM2001	Constitution Of India*	2	-	-	-	-	-	50	-	-	50
<b>Total</b>				17	4	8	19	4	350	300	160	240	1050

**Semester: IV**

S.No.	Subject Category	Subject Code	Subject	Hours per Week			Th. Credit	Pr. Credit	Maximum Marks				Total
				L	T	P			Th.	CW	SW	Pr.	
1		CE21502	Construction Technology-I	3	-	2	3	1	70	30	40	60	200
2		CE21504	Transportation Engineering	3	-	2	3	1	70	30	40	60	200
3		HU21507	Economics for Engineers	3	-	-	3	-	70	30	-	-	100
4		CE21508	Engineering Geology	3	-	2	3	1	70	30	40	60	200
5		CE21554	Structural Mechanics	3	-	2	3	1	70	30	40	60	200
6		CE21557	Fluid Mechanics	3	-	2	3	1	70	30	40	60	200
7	MC	HUM2052	Essence Of Indian Knowledge Tradition*	2	-	-	-	-	-	50	-	-	50
<b>Total</b>				20	0	10	18	5	420	230	200	300	1150

\*Non Credit Mandatory Subject