MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous& NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Skill Enhancement Program (SEP) -2022

Name of Department	**Department of Civil Engineering**
Module Name	**Structural Design of a Two Storey RC Building**
Module Coordinator	**Dr. Sarvesh Kumar Jain & Prof. Gautam Bhadoria**
Pre requisite	Knowledge of Design of Reinforcement Concrete Building Elements
Module Content	The module consists of concepts and theories involved in understanding the building plan and structural planning; estimation of design loads on different elements; design and analysis of different building elements and preparing design details.
Module Outcome/ Impact	Upon completion of the program, the student will be able to: 1) Understand various aspects of Structural Design 2) Apply recommendations of Indian Standard Codes for estimating Design loads. 3) Design various elements for the estimated loads as per IS Code provisions
Duration	**20 days**

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Day Wise Schedule

	Date	Day	Module Contents	Faculty
Week 1	13/06/ 2022	Mon	Understanding the Building Plan and its Structural Planning	Dr. S. K. Jain & Prof. Gautam Bhadoria
	14/06/ 2022	Tue	Understanding the Building Plan and its Structural Planning	
	15/06/ 2022	Wed	Estimation of Design Loads on various Elements	
	16/06/ 2022	Thu	Estimation of Design Loads on various Elements	
	17/06/ 2022	Fri	Estimation of Design Loads on various Elements	
	18/06/ 2022	Sat	Estimation of Design Loads on various Elements	
Week 2	20/06/ 2022	Mon	Analysis of different elements for estimated design loads	
	21/06/ 2022	Tue	Analysis of different elements for estimated design loads	
	22/06/ 2022	Wed	Analysis of different elements for estimated design loads	
	23/06/ 2022	Thu	Analysis of different elements for estimated design loads	
	24/06/ 2022	Fri	Designing the building elements for design variables	
	25/06/ 2022	Sat	Designing the building elements for design variables	
Week 3	27/06/ 2022	Mon	Designing the building elements for design variables	
	28/06/ 2022	Tue	Designing the building elements for design variables	
	29/06/ 2022	Wed	Designing the building elements for design variables	
	30/06/ 2022	Thu	Designing the building elements for design variables	
	01/07/ 2022	Fri	Preparing design details	

	02/07/ 2022	Sat	Preparing design details	
Week 4	**04/07/ 2022**	Mon	Preparing design details	
	05/07 2022	Tue	Preparing design details	

Details	Total Lectures + Practical sessions = 20 hours Total hours of home assignment= 5 hours per day
Module Coordinator Email Id and Mobile Number	Dr. Sarvesh Kumar Jain Professor E-Mail: dr.skjain@mitsgwalior.in Mobile: +91 94798 02595 Prof. Gautam Bhadoria Assistant Professor E-mail: g.bhadoriya@mitsgwalior.in Mobile: 9303223323

Eligibility and Important Instructions

1. The Online Skill Enhancement Program (Online training/Internship) is designed only for Pre-final year students of Civil Engineering Department.
2. This module will be conducted under the Skills Enhancement Program (SEP) which will be considered equivalent to an Internship of Pre-final year students who could not get any Internship during this situation.
3. There is no fee for the participants of Pre-final year students of MITS, Gwalior.
4. Duration of this program will be of two weeks which is equivalent to summer Internship period as per AICTE and our Institute policy. Daily no. of hours of online training may be flexible.
5. Certificates will be issued to candidates who have *attendance 75%* or more and also *score more than 60% in the test.*