



GUJARAT TECHNOLOGICAL UNIVERSITY

Civil Engineering

Course Title:	2 weeks UG Internship on Civil Engineering
Duration [contact hours]:	02 weeks [05 Days/week, Min. 30 hours]
Mode:	Offline
Fee:	Rs. 2360 /-[Rs 2000 course fee + Rs. 360 (18% GST)]
Max batch size:	10 students.

Rationale:

The course provide an insight for concepts of RS & GIS.

The course also provide an insight for concepts of design and analysis of structures

Course Content:

Module	Content	No of Hours	Faculty/Instructor
1.	Fundamentals of RS	3	Day 1: Prof. M. S. Seth Assistant Professor
	Fundamentals of GIS	3	Day 2: Prof. M. S. Seth Assistant Professor & Prof. J. A. Amin Professor, Civil
2.	Introduction to Auto-CAD & 2D Command.	3	Day 3: Prof. M. S. Seth Assistant Professor
	Hands on Practice for 2D Drawings	3	Day 4: Dr. Apurva Dave Assistant Professor
3.	Introduction to STAAD.Pro Starting STAAD.Pro, Introduction to GUI, Starting New Project	3	Day 5: Dr. Apurva Dave Assistant Professor
	Hands on practice for GUI. How to Start New Project? Introduction to Space, Plane, Floor, Truss File Name, Location of file, Length unit, force unit.	3	Day 6: Dr. Apurva Dave Assistant Professor
4.	Analysis & design of various structural Elements.	3	Day 7: Dr. Apurva Dave Assistant Professor
	Node cursor, Beam cursor, Support Cursor, Property, Load Definition,	3	Day 8: Prof. J. A. Amin Professor
5.	3D render view, Run Analysis and result interpretation	3	Day 9: : Dr. Apurva Dave Assistant Professor
	Analysis & Design of RCC and Steel structures. (Residential & Industrial)	3	Day 10: : Dr. Apurva Dave Assistant Professor



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Learning Outcome:

After completion of the Internship, Students will be able to:

No	Course Outcomes	RBT Level*
01	Basic understanding of the remote sensing technology.	UN
02	Basic understanding of GIS technology.	UN
03	Object-oriented instinctive 2D/3D graphic model generation using rectangular or polar coordinate systems	AP
04	Analysis of Beams, 2-D Trusses and 2D Frames	AN
05	To develop a capstone project based on the learning of various topics.	EL

*RM: Remember, UN: Understand, AP: Apply, AN: Analyze, EL: Evaluate, CR: Create.
