

**Hindustan College of Science & Technology, Farah, Mathura**  
**Department of Civil Engineering**

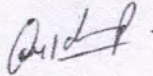
HCST/CE/ ODD/2022-23

Date: 26.08.2022

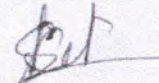
**NOTICE**

All the students are hereby informed that the department of Civil Engineering is going to organize a training course in "STAAD Pro" (30 hrs. teaching+ practice session) in the department from 03-09-2022.

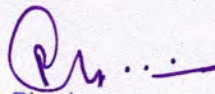
All students of the 2nd and 3rd years are required to register themselves before the commencement of the course. For any queries, you can talk to the course coordinator.



Mr. Kuldeep Kushwaha  
Course Coordinator



Mr. Saket Bihari  
HOD, Civil Engg. Deptt.  
Department of Civil Engg.  
Hindustan College of Science & Technology  
Farah



Director  
Hindustan College of  
Science & Technology  
FARAH (MATHURA)



# HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH -MATHURA



DEPARTMENT OF CIVIL ENGINEERING

*Value Added Course*

*VCE 2203 - Introduction to STAAD Pro.V8i*

*3<sup>rd</sup> September 2022 – 17<sup>th</sup> December 2022 - Every Saturday: 9:40 PM – 11:20 PM*



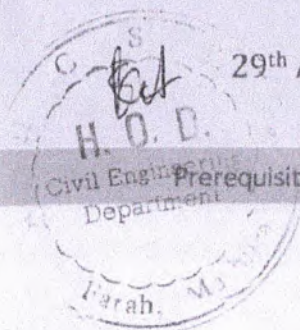
By

*Mr. Kuldeep Kushwaha  
Assistant Professor, Civil Engineering  
Hindustan College of Science & Technology, Farah (Mathura)*

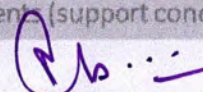


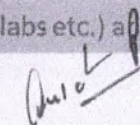
Registration Dates  
29<sup>th</sup> August 2022 – 1<sup>st</sup> September 2022

For Registration: Please contact  
Mr. Anil Kashyap, Office Staff, Department of CE



Prerequisites: Basic computer knowledge, knowledge about structural elements (support conditions, beams, columns, slabs etc.) and IS codes.

  
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# HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH - MATHURA



## DEPARTMENT OF CIVIL ENGINEERING

### Value Added Course

#### VCE 2203 - Introduction to STAAD Pro.V8i

3<sup>rd</sup> September 2022 – 17<sup>th</sup> December 2022 - Every Saturday: 9:40 PM – 11:20 PM

### Course Objectives

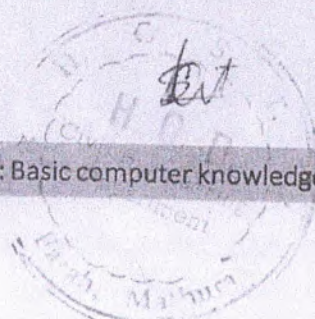
The main objective of this value added course are as follows:

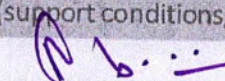
1. To learn about structural analysis and design using Staad Pro. V8i.
2. To learn about modelling and design of various structures.
3. To learn about use of various IS codes in building designs

### Course Syllabus

Units	Details	Course Outcomes
1	Introduction to Staad Pro, Study of various loads on structures and IS codes for design,	C01
2	Analysis of Continuous beam, Analysis of Steel truss, analysis of single storeyed frame.	C02
3	Analysis of Electrical Transmission Tower, Overhead Rectangular and Circular Water Tank, Analysis of Multi-storeyed frames.	C03
4	Design of beams, columns, slabs and Steel Truss, Multi-storeyed building	C04
5	Analysis of Footings and Bridge Deck	C05

Prerequisites: Basic computer knowledge, knowledge about structural elements (support conditions, beams, columns, slabs etc.) and IS codes



  
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## DEPARTMENT OF CIVIL ENGINEERING

*Value Added Course*

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*3<sup>rd</sup> September 2022 – 17<sup>th</sup> December 2022 - Every Saturday: 9:40 PM – 11:20 PM*

### Course Outcomes:

After completion of the course student will be able to:

- CO1 *Understand the scope of Staad Pro in structural modelling, analysis and design.*
- CO2 *complete object-oriented instinctive 2D/3D graphic model generation.*
- CO3 *Analyse various 2D structural elements like beams, columns, trusses, slabs etc.*
- CO4 *Analyse 3D structures like Transmission Tower, overhead water tank, multi-storey buildings etc.*
- CO5 *Use of IS codes in RCC, STEEL and SEISMIC design of various structural elements.*

### CO-PO Mappings

COS	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2											2		
CO2	2	3											2		
CO3	2	3											2		
CO4	2	3	3										2	3	
CO5	2	3											2		
Average	2	3	3										2	3	

**Evaluation Criteria: 1. Evaluation of Practical Exam, Viva/Quiz**

*[Signature]*

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Hindustan College of  
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FARAH (MATHURA)



*[Signature]*



HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY, FARAH -MATHURA  
DEPARTMENT OF CIVIL ENGINEERING



Value Added Course

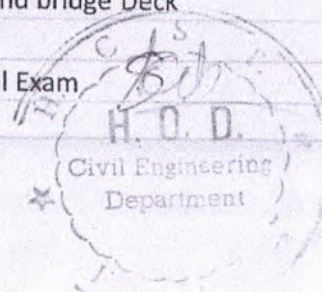
VCE 2203 - Introduction to STAAD Pro.V8i

3<sup>rd</sup> September 2022 – 17<sup>th</sup> December 2022 - Every Saturday: 9:40 PM – 11:20 PM

Course Schedule

Session	Date	Time	No of Lectures	Session Topic	Resource Person
1	03/09/2022	09:40 AM - 11:20 PM	2	Topic 1: Introduction to Staad Pro, Study of various loads on structures and IS codes for design	Mr. Kuldeep Kushwaha
2	10/09/2022	09:40 AM - 11:20 PM	2	Topic 2: Analysis of Continuous beam	Mr. Kuldeep Kushwaha
3	17/09/2022	09:40 AM - 11:20 PM	2	Topic 3: Analysis of Steel truss	Mr. Kuldeep Kushwaha
4	24/09/2022	09:40 AM - 11:20 PM	2	Topic 4: analysis of single storeyed frame	Mr. Kuldeep Kushwaha
5	01/10/2022	09:40 AM - 11:20 PM	2	Topic 5: Analysis of Electrical Transmission Tower	Mr. Kuldeep Kushwaha
6	08/10/2022	09:40 AM - 11:20 PM	2	Topic 6: Analysis of overhead rectangular water tank	Mr. Kuldeep Kushwaha
7	15/10/2022	09:40 AM - 11:20 PM	2	Topic 7: Analysis of overhead circular water tank	Mr. Kuldeep Kushwaha
8	22/10/2022	09:40 AM - 11:20 PM	2	Topic 8: Analysis of multi-storeyed frames	Mr. Kuldeep Kushwaha
9	05/11/2022	09:40 AM - 12:10 PM	3	Topic 8: Design of beams	Mr. Kuldeep Kushwaha
10	12/11/2022	09:40 AM - 12:10 PM	3	Topic 9: Design of columns	Mr. Kuldeep Kushwaha
11	19/11/2022	09:40 AM - 12:10 PM	3	Topic 9: Design of multi-storeyed building	Mr. Kuldeep Kushwaha
12	26/11/2022	09:40 AM - 12:10 PM	3	Topic 10: Design of slabs and steel trusses,	Mr. Kuldeep Kushwaha
13	03/12/2022	09:40 AM - 12:10 PM	3	Topic 12: Analysis of footings and bridge Deck	Mr. Kuldeep Kushwaha
14	10/12/2022	09:40 AM - 12:10 PM	3	Quiz & Practical Exam	Mr. Kuldeep Kushwaha
15	17/12/2022	09:40 AM - 11:20 PM	2	Evaluation of Quiz and Practical Exam	Mr. Kuldeep Kushwaha
Total Number of Lectures covered			36 (30 Hrs.)		

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**Hindustan College of Science and Technology - Mathura**  
**Department Name: Civil Engineering**

**CLASS TIME TABLE FOR ODD SEMESTER 2022-23**

SESSION:	2022-23				W.E.F.:	18.11.2022		
YEAR/SEM-SEC:	3rd year / Vth SEM/ A				ROOM.NO.:	350		
Time / Day	I 09:40-10:30	II 10:30-11:20	III 11:20-12:10	IV 12:10-1:00	CLASS TEACHER:	Rohit Maurya (7017206380)		
					COUNSELLORS:	PRATHAM SIKARWAR (7060819045)		
					CR			
					1:00-1:30	L U N C H  B R E A K		
MONDAY	EH (SB)	GE (RM)	SA (KK)	QE&CM (RM)		V 01:30-02:20	VI 02:20-03:10	VII 03:10-04:00
TUESDAY	GE (RM)	EH (SB)	CT (KK)	ITCS (AG)		CAD LAB (KK)		ITCS (AG)
WEDNESDAY	ITCS (AG)	EH (SB)	SA (KK)	QE&CM (RM)		PDP		QE&CM (T) (RM)
THURSDAY	GE (RM)	PDP		CT (KK)		CT (KK)	QE&M LAB (RM)	
FRIDAY	QE&CM (RM)	SA (KK)	GEOTECH LAB (RM)			SA (KK)	QE&CM (RM)	MNI PROJECT (THIRD YEAR)
SATURDAY	Skill Development Lab		GE (RM) EXTRA CLASS	SA (KK) EXTRA CLASS		CT (T) (KK)	EH (SB)	SA (T) (KK)

Name of the Subject	Subject Code	Name of the Faculty	Total No. of Lect./Tut./Practical		
			Lect.	Tut.	Pract.
Geotechnical Engineering (GE)	KCE-501	Rohit Maurya (RM)	4	1	
Structural Analysis (SA)	KCE-502	Kuldeep Kushwaha (KK)	4	1	
Quantity Estimation and construction Management (QE&CM)	KCE-503	Rohit Maurya (RM)	4	1	
Concrete Technology (CT)	KCE-051	Kuldeep Kushwaha (KK)	4	1	
Engineering Hydrology	KCE-055	SAKET BIHARI (SB)	4	1	
Indian Traditional, Culture and Society (ITCS)	KNC-502	Dr. Archana Gautam (AG)	3	0	
CAD LAB	KCE-551	Kuldeep Kushwaha (KK)			
Geotechnical Engineering Lab	KCE-552	Rohit Maurya (RM)			2
Quantity Estimation and Management Lab	KCE-553	Rohit Maurya (RM)			2
Mini Project or Internship Assessment	KCE-554	Rohit Maurya (RM)			2
Skill Development Lab		Kuldeep Kushwaha (KK)			2H.

Signature  
Time Table Incharge

*[Signature]*  
Director

**Hindustan College of Science & Technology**  
FARAH (MATHURA)

Signature  
Head of the Department  
Department of Civil Engg.  
Hindustan College of Science & Technology  
Farah, Mathura

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**Hindustan College of Science and Technology - Mathura**  
**Department Name: Civil Engineering**  
**CLASS TIME TABLE FOR ODD SEMESTER 2022-23**

SESSION:	2022-23				W.E.F:	04.01.2023	CLASS TEACHER:	KULDEEP (7740920347)		
YEAR/SEM-SEC:	2nd year / 3rd SEM/ A				ROOM.NO :	354	COUNSELLORS :	NIKHIL (9520159759)		
Time / Day	I	II	III	IV	CR	01:30 TO 02:20	V	VI	VII	
	10:10 TO 11:00	11:00 TO 11:50	11:50 TO 12:40	12:40 TO 01:30			02:20 TO 03:10	03:10 TO 04:00	04:00 TO 04:50	
MONDAY	ESE (RKT)	FM (MD)	EM (SB)	CSS (DS)	<b>L U N C H  B R E A K</b>	<b>L U N C H  B R E A K</b>	PDP		TC (MS)	
TUESDAY	ESE (RKT)	FM (MD)	S&G (RM)	CSS (DS)			EM (SB)	S&G (RM)	MINI PROJECT	
WEDNESDAY	FM (MD)	ESE (RKT)	S&G (RM)	TC (MS)			EM (SB)	BPD LAB (KK)		
THURSDAY	EM (SB)	TC (MS)	S&G (RM)	FM (MD)			S&G (T) (RM)	FM LAB (MD)		
FRIDAY	TC (T) (MS)	PDP		ESE (RKT)			CSS (DS)	Surveying and Geomatics Lab (RM)		
SATURDAY	Skill Development Lab		Extra Class FM				Extra Class EM			

Subject Name	Subject Code	Faculty Name	Total No. of Lect./Tut./Practical		
			Lect.	Tut.	Pract.
Engineering Mechanics (EM)	KCE301	Saket Bihari (SB)	4	1	
Surveying and Geomatics (S&G)	KCE302	ROHIT MAURYA (RM)	4	1	
Fluid Mechanics (FM)	KCE303	MAHESH DHAKAD (MD)	4	1	
Energy Science & Engineering (ESE)	KOE033	Dr. R.K. Tiwari (RKT)	4	1	
Technical Communication	KVE301	Dr. Mamta Sharma (MS)	3	1	
Computer System Security (CSS)	KNC302	Diwakar Srivastava (DS)	3	0	
Building Planning & Drawing Lab	KCE351	Kuldeep (KK)	0	0	
Surveying and Geomatics Lab	KCE352	ROHIT MAURYA (RM)	0	0	
Fluid Mechanics Lab	KCE353	Saket Bihari (SB)	0	0	2
Mini Project or Internship Assessment*	KCE354	Saket Bihari (SB)	0	0	2
Skill Development Lab		Kuldeep (KK)	0	0	2

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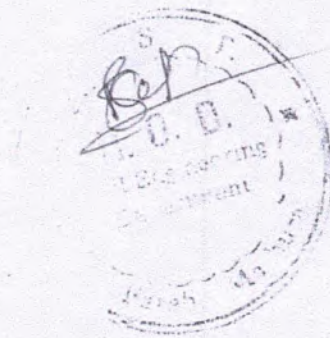
Signature  
Director

**Hindustan College of  
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FARAH (MATHURA)**

Signature  
Head of the Department  
Department of Civil Engineering  
Hindustan College of Science & Technology  
Farah, Mathura

Hindustan College of Science & Technology, Farah (Mathura)					
Department of Civil Engineering					
Value Added Course - Registration Form					
Course Name: Introduction to STAAD Pro.V8i			Course Code: VCE2203		
Session: 2022-23			From 03/09/2022 To 17/12/2022		
Sr. No.	Roll No.	Name	Department	Semester	Signature of Student
1	2100640000001	Bharat Yadav	Civil	III	<i>Bharat Yadav</i>
2	2100640000002	Manjeet Yadav	Civil	III	<i>Manjeet</i>
3	2100640000003	Nikhil Rathore	Civil	III	<i>Nikhil</i>
4	2100640000004	Vivek Sagar	Civil	III	<i>Vivek Sagar</i>
5	2000640000001	Aman Rajput	Civil	V	<i>Aman R</i>
6	2000640000002	Amar Singh	Civil	V	<i>Amar</i>
7	2000640000003	Mayank Singh	Civil	V	<i>Mayank Singh</i>
8	2000640000005	Shivansh Bhardwaj	Civil	V	<i>Shivansh</i>
9	2000640000006	Shubham Kumar	Civil	V	<i>Shubham</i>
10	2000640000007	Vikash Rajput	Civil	V	<i>Vikash Rajput</i>
11	2100640009003	Dheeraj	Civil	V	<i>Dheeraj</i>
12	2100640009002	Ayush Sharma	Civil	V	<i>Ayush</i>
13	2100640009004	Pratham Sikarwar	Civil	V	<i>Pratham</i>

  
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**Hindustan College of Science & Technology, Farah  
(Mathura)**

**Department of Civil Engineering**

**Value Added Course - Attendance sheet**

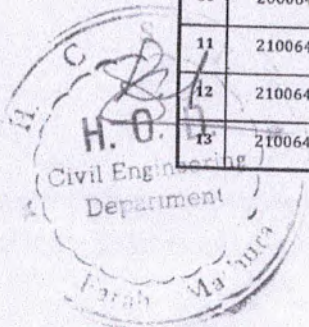
**Course Name: Introduction to STAAD Pro.V8i**

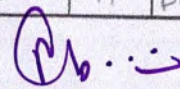
**Course  
Code:VCE2203**

**Session 2022-23 (Year 2022)**

**Session wise Attendance Sheet**

S. No.	Roll No.	Name	SEM	Session	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15				
				Date	3-Sep	10-Sep	17-Sep	24-Sep	1-Oct	8-Oct	15-Oct	22-Oct	5-Nov	12-Nov	19-Nov	26-Nov	3-Dec	10-Dec	17-Dec				
				Time	9:40-11:20	9:40-11:20	9:40-11:20	9:40-11:20	9:40-11:20	9:40-11:20	9:40-11:20	9:40-11:20	9:40-11:20	9:40-11:20	9:40-12:10	9:40-12:10	9:40-12:10	9:40-12:10	9:40-12:10	9:40-12:10	9:40-12:10	9:40-11:20	9:40-11:20
				Period	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	2
1	210064000001	Bharat Yadav	III	Bharat	Bharat	A	Bharat	Bharat	Bharat	Bharat	Bharat	Bharat	Bharat	A	Bharat	Bharat	Bharat	Bharat	Bharat				
2	210064000002	Manjeet Yadav	III	Manjeet	Manjeet	A	Manjeet	Manjeet	Manjeet	Manjeet	Manjeet	Manjeet	Manjeet	Manjeet	Manjeet	Manjeet	Manjeet	Manjeet	Manjeet				
3	210064000003	Nikhil Rathore	III	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil	Nikhil				
4	210064000004	Vivek Sagar	III	Vivek	Vivek	Vivek	Vivek	Vivek	A	Vivek	Vivek	Vivek	Vivek	Vivek	Vivek	Vivek	Vivek	Vivek	Vivek				
5	200064000001	Aman Rajput	V	Aman	Aman	Aman	Aman	Aman	A	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman	Aman				
6	200064000002	Amar Singh	V	Amar	Amar	Amar	Amar	Amar	Amar	Amar	Amar	Amar	Amar	Amar	Amar	Amar	Amar	Amar	Amar				
7	200064000003	Mayank Singh	V	Mayank	Mayank	Mayank	Mayank	Mayank	Mayank	Mayank	Mayank	Mayank	Mayank	Mayank	A	Mayank	Mayank	Mayank	Mayank				
8	200064000005	Shivansh Bhardwaj	V	Shivansh	Shivansh	Shivansh	Shivansh	A	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh	Shivansh				
9	200064000006	Shubham Kumar	V	Shubham	Shubham	Shubham	A	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham				
10	200064000007	Vikash Rajput	V	Vikash	A	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash	Vikash				
11	2100640009003	Dheeraj	V	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj	Dheeraj				
12	2100640009002	Ayush Sharma	V	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush	Ayush				
13	2100640009004	Pratham Sikarwar	V	Pratham	Pratham	Pratham	Pratham	Pratham	Pratham	A	Pratham	Pratham	Pratham	Pratham	Pratham	A	Pratham	Pratham	Pratham				



  
 Director  
**Hindustan College of  
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**FARAH (MATHURA)**



HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY  
FARAH -MATHURA



*Certificate of Completion*

*Department of Civil Engineering  
Academic Session 2022-23*

*This is to certify that Mr. Bharat Yadav (Roll No: 2100640000001), Department of Civil Engineering has successfully completed 30 hours of Value Added Course VCE 2203 titled "Introduction to STAAD Pro.V8i".*



*[Signature]*  
Course Coordinator

*[Signature]*  
Director

*[Signature]*  
Director  
Hindustan College of  
Science & Technology  
FARAH (MATHURA)



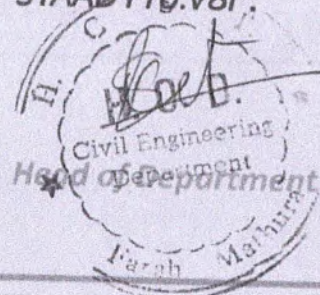
HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY  
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*Certificate of Completion*

Department of Civil Engineering  
Academic Session 2022-23

This is to certify that Mr. Vivek Sagar (Roll No: 2100640000004), Department of Civil Engineering has successfully completed 30 hours of Value Added Course VCE 2203 titled "Introduction to STAAD Pro.V8i".



*[Signature]*  
Course Coordinator

Director

*[Signature]*  
Director  
Hindustan College of  
Science & Technology  
FARAH (MATHURA)



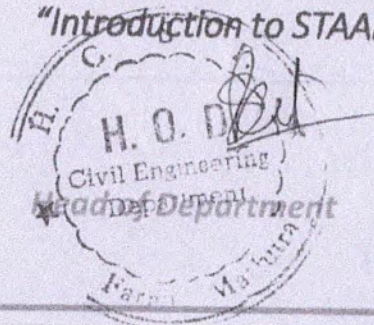
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*Certificate of Completion*

Department of Civil Engineering  
Academic Session 2022-23

This is to certify that Mr. Aman Rajput (Roll No: 2000640000001), Department of Civil Engineering has successfully completed 30 hours of Value Added Course VCE 2203 titled "Introduction to STAAD Pro.V8i".



*[Signature]*  
Course Coordinator

Director

*[Signature]*  
Director  
Hindustan College of  
Science & Technology  
FARAH (MATHURA)



**HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY  
FARAH -MATHURA**



***Certificate of Completion***

*Department of Civil Engineering  
Academic Session 2022-23*

*This is to certify that Mr. Dheeraj (Roll No: 2100640009003), Department of Civil Engineering has successfully completed 30 hours of Value Added Course VCE 2203 titled "Introduction to STAAD Pro.V8i".*

*H. O. D.*  
Civil Engineering  
Department  
**Head of Department**  
Farah, Mathura

*Dr. H. S.*  
**Course Coordinator**

**Director**

*Dr. H. S.*  
**Director**  
**Hindustan College of  
Science & Technology  
FARAH (MATHURA)**