



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)

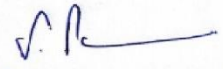
Accredited A++ Grade by NAAC | 12B Status by UGC | Approved by AICTE

www.sathyabama.ac.in

**School of Building and Environment
Department of Civil Engineering**

1.3.3 List of Value-Added Courses conducted – 2022-2023

S. No.	Name of the Course	Event Dates	No. of Students Enrolled	No. of Students Completed	Page No.
1.	Computer Aided Drafting, Designing and Costing	18.07.2022 to 25.03.2023	81	81	2
2.	Remote Sensing and GIS	15.10.2022 to 19.11.2022	79	79	8
3.	Tekla Structures	12.04.2023 to 27.04.2023	40	40	13


(S. PACKIALAKSHMI)

HOD/CIVIL

HEAD OF THE DEPARTMENT
DEPARTMENT OF CIVIL ENGINEERING
SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(DEEMED TO BE UNIVERSITY)
Jeppiaar Nagar, Rajiv Gandhi Salai,
Chennai – 600 119.

1. Value Added Course on Computer Aided Drafting, Designing and Costing



SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY
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SCHOOL OF BUILDING AND ENVIRONMENT
DEPARTMENT OF CIVIL ENGINEERING
ORGANIZES
VALUE ADDED COURSE ON
COMPUTER AIDED DRAFTING, DESIGNING AND COSTING
JOINTLY GIVEN BY

Mrs.K.JEYANTHI
Founder Member
Career Forum

Mr. M.SHAHUL HAMEED
Centre Academic Head , Career Forum
Research Scholar, NITTR, Chennai.

STARTS ON
18.07.2022

Patrons:
Dr.T.Sasipraba, Vice Chancellor
Dr. Devyani Gangopadhyay, Dean, Building and Environment

Coordinators:
Dr. S. Packialakshmi, Head, Dept.of Civil
Dr. R. Padmapriya, Head, Dept.of Civil

Conveners:
Dr.R.Nirmala, Associate Prof,Civil
Mrs.B.Priyadharshini, Asst.Prof,Civil
Dr.C.Manoj Kumaar, Asst.Prof,Civil
Ms.Eshanthini.P, Asst.Prof,Civil

Course Content

Computer Aided Drafting, Designing and Costing

Date	Contents
18.07.2022	Introduction to building drawings - Unit & Limits settings - Drawing tools – Modify tools - Hands on Practices with exercises
19.07.2022	Document Reading - Building Scheme drawings - Vastu - Hands on Practices with exercises
28.07.2022	Hands on Practices with different residential buildings exercise
29.07.2022	Block - Tool palette - Design centre - Hatch - Layer - Text - Dimension - Object properties - Title bar - Hands on Practices with exercises
30.07.2022	Hands on Practices with different residential buildings exercise
08.08.2022	Building Approval Drawings - Plan, Section and Elevation - Hands on Practices with exercises
09.08.2022	Hands on Practices with different residential buildings exercise
18.08.2022	Print - Plot - Report Generation - Hands on practices to make Blue Print copy
19.08.2022	Hands on Practices with different residential buildings exercise
20.08.2022	Introduction to 3D modelling - Importing CAD file - Project units - level creation - Wall creation - Doors & Windows - Floor creation - Components - Roof creation - Hands on Practices with exercises
06.09.2022	Hands on Practices with different residential buildings exercise
07.09.2022	Paintings - Exterior Elevation designing - Multiple floor creation - Hands on Practices with exercises
22.09.2022	Hands on Practices with different residential buildings exercise
23.09.2022	Staircase manual calculation - Stair creation - lighting - camera - walk through
24.09.2022	Material take-off & Schedules - Rendering - Print - Plot - Report generation - Export commands
04.01.2023	Hands on Practices with different residential buildings exercise
05.01.2023	Hands on Practices with different residential buildings exercises
06.01.2023	Introduction to Building Estimation & Costing - Manual calculation - Material Quantity - Automatic take off tools - Manual take off tools
23.01.2023	Hands on Practices with different residential buildings exercise
24.01.2023	Estimation of Wall section - Joinery details - Wall with opening
25.01.2023	Estimation of Steps - Full Residential Building - Material Cost - Labour Cost - Sub Contractor Cost - Equipment Cost - Time period estimation

06.02.2023	Hands on Practices with different residential buildings exercise
07.02.2023	Project management software - Project Liber - Calendar setup - WBS
20.02.2023	Manual calculation for CPM method - Network diagram - Comparing with software
21.02.2023	Hands on Practices with different residential buildings exercise
09.03.2023	Resource allocation - Resource levelling - Tracking - Print - Report generation
10.03.2023	Hands on Practices with different Project exercises
23.03.2023	Sweet Home - 3D modelling and Hands on Practices
24.03.2023	Hands on Practices with different residential buildings exercise
25.03.2023	Project Presentation

List of Participants

S. No.	Register No.	Student Name
1.	40200001	Abhiram Pradeep
2.	40200002	Agalya. S
3.	40200003	Hubert Shiju. T
4.	40200004	Kaushik Raj. M
5.	40200005	Kirthick. A
6.	40200006	Lingeshwaran. R
7.	40200007	Mithulkiruthik. S.K
8.	40200008	Nasser Hussain. J
9.	40200009	Pranav Anand. P
10.	40200010	Rubalagan. R
11.	40200011	Sri Hariharan. M
12.	40200012	Srinivasa Saketh. R
13.	40200013	Thirumal Varnan. A
14.	40200014	Tippireddy Suchith Reddy. T
15.	40200015	Vishnu Datha. B
16.	40200016	Vishnupriya. S
17.	40200017	Om Chavan. Ch
18.	40200018	Rifayudeen. T
19.	40200019	Hariharan. M
20.	40200701	Reynard Joseph. E
21.	40200702	Surya Krishnan.R
22.	40200703	Guddati Sarath Chandra
23.	40200704	Kandhula Manoj
24.	40200705	Sidhu. S
25.	40200706	Ajai Kishore. M
26.	40200707	Sheik Abdullah.M
27.	40200708	Manick. R

28.	40200709	Shivaram Himalayan. Goud
29.	40200710	Reddyshetty Bharath
30.	40200711	Yeshvanth. V
31.	40200712	Konduru Lakshman Kumar
32.	39200001	Abishek. D
33.	39200002	Adam F Maxwell
34.	39200003	Ajay Kumar.S
35.	39200004	Akash King. D
36.	39200005	Amarjeet Yadav
37.	39200006	Anandhakrishnan. A
38.	39200007	Avvaru Meghanath
39.	39200008	Britto Francies. A
40.	39200009	Chenthil Sundaram. P
41.	39200010	Chinni Tarun Kumar
42.	39200011	Chukka Venkata Sasikiran
43.	39200012	Deepraj Roychoudhury
44.	39200013	Dinesh Kumar. M
45.	39200014	Dinesh. M
46.	39200015	Dravid Khannaa. M
47.	39200016	Goli Adithya
48.	39200017	Govarthini. K
49.	39200018	Harikaran. A
50.	39200019	Immanuel. J
51.	39200020	Javvadi Devi Vara Prasad
52.	39200021	Joe Prakash. L
53.	39200022	Milton. J
54.	39200023	Mohammed Riyaz. A
55.	39200024	Mullu Jaya Prakash
56.	39200025	Naveen Kumar. V
57.	39200026	Naveen Santhana Raj. J
58.	39200027	Nikhil Kumar Singh
59.	39200028	Nirmalya Das
60.	39200029	Nithish Samuel. J
61.	39200030	Nuvvula Sandeep Chowdary
62.	39200031	Panem Prasanth Reddy
63.	39200032	Ginni Pavan Kalyan
64.	39200033	Pema Dechin
65.	39200034	Rithish. S
66.	39200035	Saran Kumar. M
67.	39200036	Sarath Kumar. C
68.	39200037	Saravana Balan. M
69.	39200038	Sathish Kumar. S
70.	39200039	Tenali Alekhya
71.	39200040	Thirunavukarasu. A
72.	39200041	Uppada Shyamanth Reddy
73.	39200042	Vaseekaran. R
74.	39200043	Venus D Rayan
75.	39200044	Vishanth. P
76.	39200045	Yousuf Rasheed. R

77.	39200701	Anshik Kumar
78.	39200702	Sahaya Valan. C
79.	39200703	Dwarakesh. S
80.	39200704	Anantha Niteesh
81.	39200705	Nemat Bano

Course Outcomes

The theory and practical sessions on softwares are;

- AutoCAD
- Revit Architecture
- Sweet Home 3D
- Project Libre and
- Quantity take-off software

This Training program has provided the exposure to students on the applications of industrial needs in the construction.

Photos during the Session





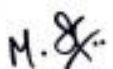
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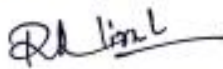


CAREER FORUM
CADD TRAINING SERVICES
GOWDARTHAN GARDEN, KK, NAGAR, TRICHY 21
Firm Reg No - 52 of 2015

CERTIFICATE OF COMPLETION

This certificate is awarded to AJAI KISHORE M.
for successful completion of the hands-on training in the value added course
on *AutoCAD, Revit Architecture, Sweet Home 3D, Project Libre and
Quantity Takeoff* conducted at the *Department of Civil Engineering,*
*School of Building & Environment, Sathyabama Institute of Science and
Technology* in association with *Career Forum, CADD Training Services*
for a duration of *30 days* between July 2022 and January 2023.


Course Trainer
Career Forum

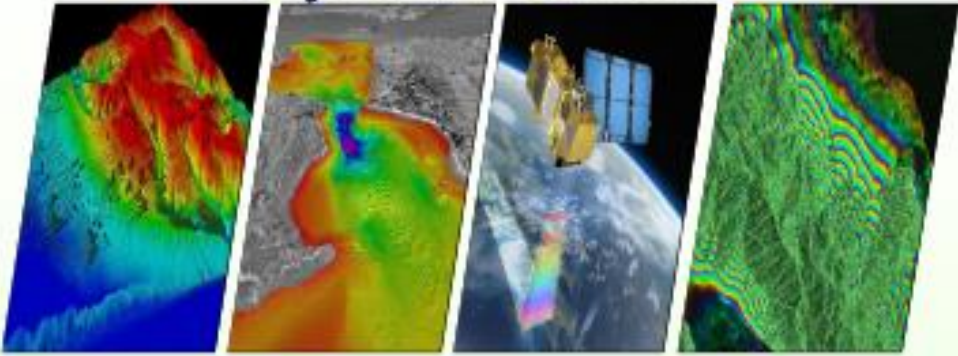

Course Coordinator
Department of Civil Engineering


Head of the Department
Department of Civil Engineering



2. Value Added Course on Remote Sensing and GIS

Information Brochure



5 Days Weekend Capacity Building Training Programme on REMOTE SENSING AND GIS 15th October to 19th November 2022

Patrons Dr. Mariasena Johnson, Chancellor Dr. Marie Johnson, President Mr. J. Arul Selvan, Vice President Mrs. Maria Bernadette Tamilarasi, Vice President Ms. Maria Catherine Jayapriya, Vice-President Dr. T. Sasipraba, Vice-Chancellor Organizing Secretary Dr. B. Sheela Rani, Director (Research).	Coordinators Dr. T. Sasikala, Dean, School of Computing, SIST. Dr. L. Lakshmanan, Head, Dept. of CSE, SIST. Dr. S. Vigneshwari Head, Dept. of CSE, SIST. Conveners Dr. K. Nagarani, Scientist / Head, CRSG, SIST. Dr. B. Prabhu Das Balvairi, Scientist / Head, CEAS, SIST. Dr. P. Sardar Maran, Associate Professor, CSE, SIST. Dr. S. Packialakshmi, Associate Professor, Civil Dept., SIST. Co-Conveners Dr. Marykitty Abraham, Scientist, CRSG, SIST. Dr. P. Mohana, Scientist, CRSG, SIST. Dr. M. Raja Ramani, Scientist, CRSG, SIST. Dr. P. M. Velmurugan, Scientist, CEAS, SIST. Dr. S. Dharmodharan, Assistant Professor, CSE, SIST.
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**Centre for Remote Sensing and Geoinformatics,
Centre for Earth and Atmospheric Sciences
Department of Computer Science and Engineering
Department of Civil Engineering**





Sathyabama

Institute of Science and Technology

(Established under Section 3 of the UGC Act, 1956)
Category 'A' University by MHRD, Govt. of India
Jeppiaar Nagar, Rajiv Gandhi Road,
Chennai- 600119.

Course Contents on Remote Sensing and GIS

Resource Person; Dr.K.Nagamani, Scientist and Dr.Mohammed Suhail, Scientist

Centre for Remote Sensing and Geoinformatics, Sathyabama Institute of science and Technology

Date	Course Contents	Duration (hours)
15.10.22	Day 1: Introduction to Remote Sensing and GIS Definition of Remote Sensing – Principles - Application Types of Remote Sensing Platforms (Satellites, UAVs, etc.) Electromagnetic Spectrum and Remote Sensing Bands Basics of GIS and Spatial Data GIS Data Types (Vector and Raster Data)	6
22.10.22	Day 2: Remote Sensing Data Acquisition and Pre processing Remote Sensing Data Sources and Datasets Image Acquisition and Sensors Radiometric and Geometric Correction of Remote Sensing Data Image Enhancement Techniques Introduction to Remote Sensing Software	8
05.11.22	Day 3: Image Classification and Analysis Image Classification Methods (Supervised, Unsupervised, Object-Based) Training Data Selection and Accuracy Assessment Land Cover and Land Use Classification Change Detection Analysis Case Study: Monitoring Environmental Changes Using Remote Sensing	8
12.11.22	Day 4: Introduction to GIS Analysis Data Sources and Data Acquisition in GIS Data Cleaning and Preparation Spatial Analysis Techniques (Buffering, Overlay, Spatial Queries) Geo processing Tools in GIS Software Case Study: Spatial Analysis for Urban Planning or Natural Resource Management	8
19.11.22	Day 5: Advanced Applications and Future Trends Advanced GIS Techniques (Network Analysis, 3D Mapping, Spatial Interpolation) Integration of Remote Sensing and GIS Applications in Agriculture, Forestry, Environmental Monitoring, and Disaster Management Introduction to Web GIS and Cloud-Based GIS Emerging Trends in Remote Sensing and GIS Technology	8

Course Outcomes on Remote Sensing and GIS

The Course on Remote Sensing and GIS for Civil Engineers provides

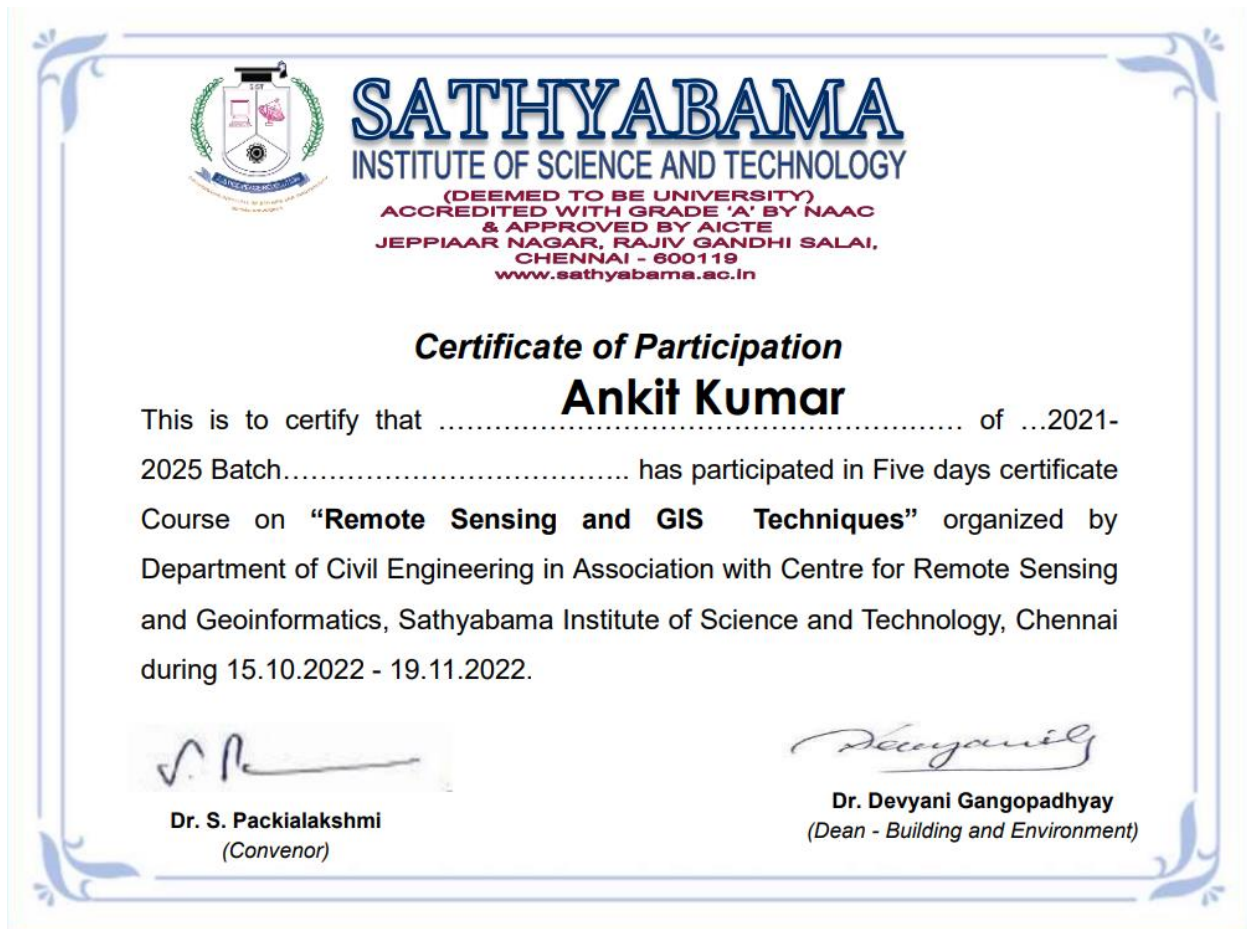
- Gain insight on Remote Sensing and GIS concepts, principles, data sets, tools and techniques
- Hands on training on image classification techniques and various spatial analysis techniques
- Creation of various thematic layers and generation of final output
- Conducting real time environmental oriented site specific projects which requires spatial and temporal analysis and evaluation studies

List of Participants

S.No	Register Number	Name
1.	41200001	Akshay Justin J
2.	41200002	Allan G Raj
3.	41200003	Ameen Abdul Rasheed
4.	41200004	Amergin Ashath Libins T
5.	41200005	Bimanadi Purna Chandra Kalyan
6.	41200006	Dawood Rahman M
7.	41200007	Devananda B
8.	41200008	Dhiraj Kumar
9.	41200009	Irshath S
10.	41200010	Jai Sriram S
11.	41200011	Jayalakshmi N
12.	41200012	John Bhosco A
13.	41200013	Kamalakannan V
14.	41200014	Kamesh S
15.	41200015	Karthikeyan P
16.	41200016	Katravath Srishanth
17.	41200017	Kiran Raj V
18.	41200018	Kurmapu Sarayu
19.	41200019	Lavanya V
20.	41200020	Malla Vijaya Venkata Satish
21.	41200022	Medapati Srinivasa Satyanarayana Reddy
22.	41200023	Muthukumar G
23.	41200024	Naren N
24.	41200025	Natta Charan Raj
25.	41200026	Panibhate Sai Rahul
26.	41200027	Polnati Vikas
27.	41200028	Ramarajiyapathi S
28.	41200029	Rohith Singh B
29.	41200030	Sanjai Kumar R
30.	41200031	Sridharan D
31.	41200032	Tharun Kumar A
32.	41200033	Thayanithi S
33.	41200034	Vallela Sunny Jagan Mohan Reddy
34.	41200035	Vasanth Kumar R
35.	41200036	Vishwa Murugan
36.	41200037	Yashvanth R
37.	41200038	A N Vardhan Naga Sai
38.	41200701	Ankit Kumar
39.	41200702	Balaji M
40.	41200703	Ganesh M
41.	41200704	Hariharan T
42.	41200705	Utkarsh Pandey
43.	41200706	Shaik Waseem Akram
44.	41200707	Laxmipathy S M
45.	42200001	Abilash S E
46.	42200002	Anstin Roy. J. S.

47.	42200003	Ashwinramkumar R J
48.	42200004	Dhanush M K
49.	42200005	Eraianbu.E
50.	42200006	Gowtham Satheesh
51.	42200007	Karthika C
52.	42200008	Lalith Chockalingam T
53.	42200009	Manimegalai A
54.	42200010	Mohammad Yusuf A
55.	42200011	Oviya R
56.	42200012	Pon Muthu Selvan M
57.	42200013	Praveena M
58.	42200014	Pugazhenthii . M
59.	42200016	Rithish Bobby
60.	42200017	Vinayagamoorthis S
61.	42200018	Sakthivel R.
62.	42200020	Siva Magesh V
63.	42200021	Sophia Jasmine U
64.	42200023	Sunil Kumar. M
65.	42200024	Surya V
66.	42200025	Thiruselvan . M
67.	42200026	Yoganathan T
68.	42200027	Arvindsamy.M
69.	42200028	Bharanidharan V
70.	42200029	Guru Prasanth S
71.	42200030	Kalaithasan.N
72.	42200031	Miracle Celin Paul S
73.	42200032	Nithish.K
74.	42200033	Avinash G
75.	42200034	Jayaprasanth B
76.	42200035	Kunchala Raghuram Reddy
77.	42200036	Laxman G
78.	42200037	Viswanathan S
79.	42200039	Srihariharan S

Photos taken during the course Remote Sensing and GIS



3. Value Added Course on Tekla Structures

SATHYABAMA
INSTITUTE OF SCIENCE AND TECHNOLOGY
(Deemed to be University)
Accredited with "A" Grade by NAAC | Approved by AICTE

School of Building and Environment
Department of Civil Engineering
Organizes
VALUE ADDED COURSE ON
TEKLA STRUCTURES
STARTS ON 12.04.2023

Mr. C.MAGENDIRAN,
CADD INDIA RESEARCH AND DEVELOPMENT,
VADAPALANI

Venue : Cadd lab – First Floor

Chief Patrons	Patrons	Conveners
Dr. Mariazeena Johnson Chancellor	Dr. T. Sasipraba Vice Chancellor	Dr. R. Padmapriya HOD Civil
Dr. Marie Johnson President	Dr. E. Logashanmugam Pro Vice Chancellor	Dr. S. Packialakshmi HOD Civil
Mr. J. Arul selvan Vice President	Dr. S. S. Rao Registrar	
Ms. Maria Bernadette Tamilarasi Vice President	Dr. G. Sudari Director Administration	
Ms. Maria Catherine Jayapriya Vice President	Dr. Devyani Gangopadhyay Dean- Building and Environment	

Course Contents

Date	Topics	Duration
12.04.2023	Introduction about Tekla, introduction about steel and concrete structure, introduction about Indian standards & UK standards, introduction about precasting, explain about Tekla structures setup, create new model, unit settings & orientation mark, explain about view properties, explain about grid properties, basic column and beam placing, Column properties & beam properties, snapping, selecting, create view of models, create view of part, view list, set work plane, fit work area	5 hrs
13.04.2023	Move, rotate, copy special, move special, split, combine, add gridline, add construction line, add point, create curved beam, create poly beam, and create plate. Explain about component and catalog, create component - base plate (picture, part, parameters, general, bolts, anchor rods, extra plates)	5 hrs
20.04.2023	End plate (plates, stiffeners, haunch, bolts, holes), Shear plates (plates, stiffeners, notch, bolts, beam cut), Gussets (bolts gussets, brace middle, simple, center brace tube, tube gusset, wind brace connection)	5 hrs
25.04.2023	Clip angle, splice, stiffeners, Haunch, apex haunch, eaves haunch, cranked beam, Define custom component, define custom profile, BOQ	5 hrs
26.04.2023	Stairs, ladder and railing Drawing and drafting, numbering, general arrangement drawing properties (view, dimensions, objects, marks and others) create general arrangement drawings view, create, Detailing, part corner, part edge, cut part	5 hrs
27.04.2023	Concrete design (column, beam, slab and wall) - Create reinforcement, reinforcing bar, curved reinforcing bar, circular reinforcing bar, reinforcing splice, reinforcement mesh- Reinforcement and strands	5 hrs

Value Added Course – Tekla Structures

Participants List

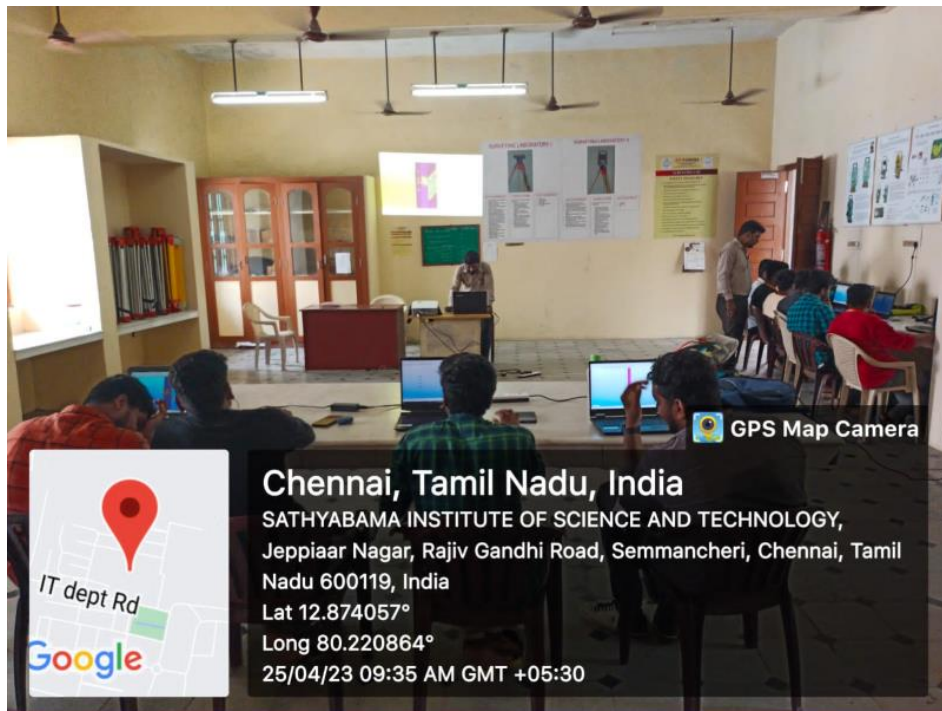
S. No.	Register Number	Name
1.	41380002	Ashfaaq.A.
2.	41380008	Kathir Viswanath.L.
3.	41380011	Melvin Sandron H.A.R
4.	41380012	C.R.Ponnu Sankar
5.	41380014	Mohamed Anas.B
6.	42380001	A.V.Eshwara Prasath
7.	42380002	A.Logesh
8.	42380003	A.Premnarayanan
9.	42380004	J.Saijawahar Reddy
10.	40200001	Abhiram Pradeep
11.	40200002	Agalya. S
12.	40200003	Hubert Shiju. T
13.	40200004	Kaushik Raj. M
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22.	40200013	Thirumal Varnan. A
23.	40200014	Tippireddy Suchith Reddy. T
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35.	40200707	Sheik Abdullah.M
36.	40200708	Manick. R
37.	40200709	Shivaram Himalayan. Goud
38.	40200710	Reddyschetty Bharath
39.	40200711	Yeshvanth. V
40.	40200712	Konduru Lakshman Kumar

Course Outcomes

At the end of this course, students will be able to

- a) Gain knowledge in Tekla software, Indian standards and UK standards
- b) Modelling and analysis of beam column joints

Photos during the Session



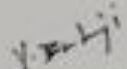


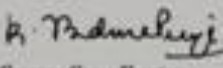
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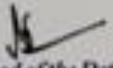


CERTIFICATE OF COMPLETION

This certificate is awarded to **L. KATHIR VISWANATH**
for successfully completed the hands-on training in the value added course
on Tekla conducted at the **Department of Civil Engineering, School of
Building & Environment, Sathyabama Institute of Science and technology,
Chennai in association with CADDINDIA Research and Development**
for a duration of 30 hrs between 12 April 2023 and 27 April 2023.


Course Trainer
CADDINDIA R&D


Course Coordinator
Dept. of Civil Engg.


Head of the Department
Dept. of Civil Engg.