



# 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](http://www.sathyabama.ac.in)

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

**1.3.2 List of Value-Added Courses conducted – 2022-2023**

| S. No. | Name of the Course                             | Event Dates                    | Page No. |
|--------|------------------------------------------------|--------------------------------|----------|
| 1.     | Computer Aided Drafting, Designing and Costing | 18.07.2022<br>to<br>25.03.2023 | 2        |
| 2.     | Remote Sensing and GIS                         | 15.10.2022<br>to<br>19.11.2022 | 8        |
| 3.     | Tekla Structures                               | 12.04.2023<br>to<br>27.04.2023 | 13       |

  
(S. PACKIALAKSHMI)

**HOD/CIVIL**

HEAD OF THE DEPARTMENT  
DEPARTMENT OF CIVIL ENGINEERING  
**SATHYABAMA**  
INSTITUTE OF SCIENCE AND TECHNOLOGY  
(DEEMED TO BE UNIVERSITY)  
Jeppiyarr 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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QUALITY SYSTEM CERTIFICATION  
DNV-GL  
ISO 9001:2015



**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**

| <b>Date</b> | <b>Contents</b>                                                                                                                                                                                        |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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





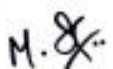
**SATHYABAMA**  
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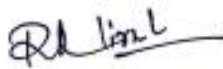


**CAREER FORUM**  
CADD TRAINING SERVICES  
GOWDARTHAN GARDEN, KK, NAGAR, TRICHY 21  
Firm Reg No - 52 of 2015

## 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

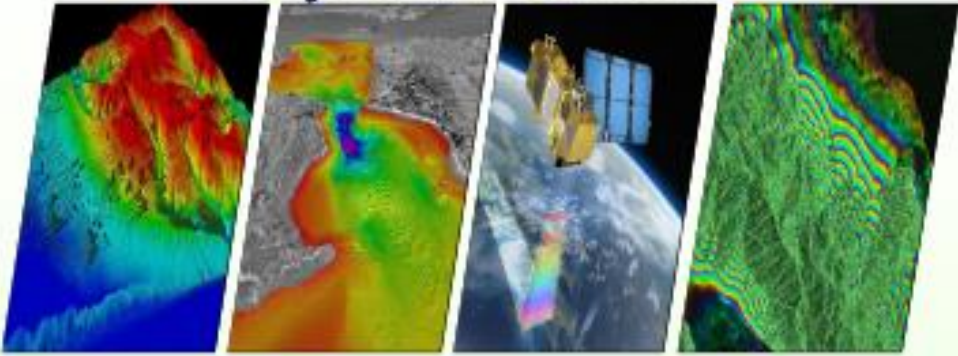
  
**Course Coordinator**  
Department of Civil Engineering

  
**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 15<sup>th</sup> October to 19<sup>th</sup> November 2022**

|                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Patrons</b><br/>Dr. Mariasena Johnson, Chancellor<br/>Dr. Marie Johnson, President<br/>Mr. J. Arul Selvan, Vice President<br/>Mrs. Maria Bernadette Tamilarasi, Vice President<br/>Ms. Maria Catherine Jayapriya, Vice-President<br/>Dr. T. Sasipraba, Vice-Chancellor</p> <p><b>Organizing Secretary</b><br/>Dr. B. Sheela Rani, Director (Research).</p> | <p><b>Coordinators</b><br/>Dr. T. Sasikala,<br/>Dean, School of Computing, SIST.<br/>Dr. L. Lakshmanan,<br/>Head, Dept. of CSE, SIST.<br/>Dr. S. Vigneshwari<br/>Head, Dept. of CSE, SIST.</p> <p><b>Conveners</b><br/>Dr. K. Nagarani, Scientist / Head, CERC, SIST.<br/>Dr. B. Prabhu Das Balvairi, Scientist / Head, CEAS, SIST.<br/>Dr. P. Sardar Maran, Associate Professor, CSE, SIST.<br/>Dr. S. Packialakshmi, Associate Professor, Civil Dept., SIST.</p> <p><b>Co-Conveners</b><br/>Dr. Marykitty Abraham, Scientist, CERC, SIST.<br/>Dr. P. Mohana, Scientist, CERC, SIST.<br/>Dr. M. Raja Ramani, Scientist, CERC, SIST.<br/>Dr. P. M. Velmurugan, Scientist, CEAS, SIST.<br/>Dr. S. Dharmodharan, Assistant Professor, CSE, SIST.</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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

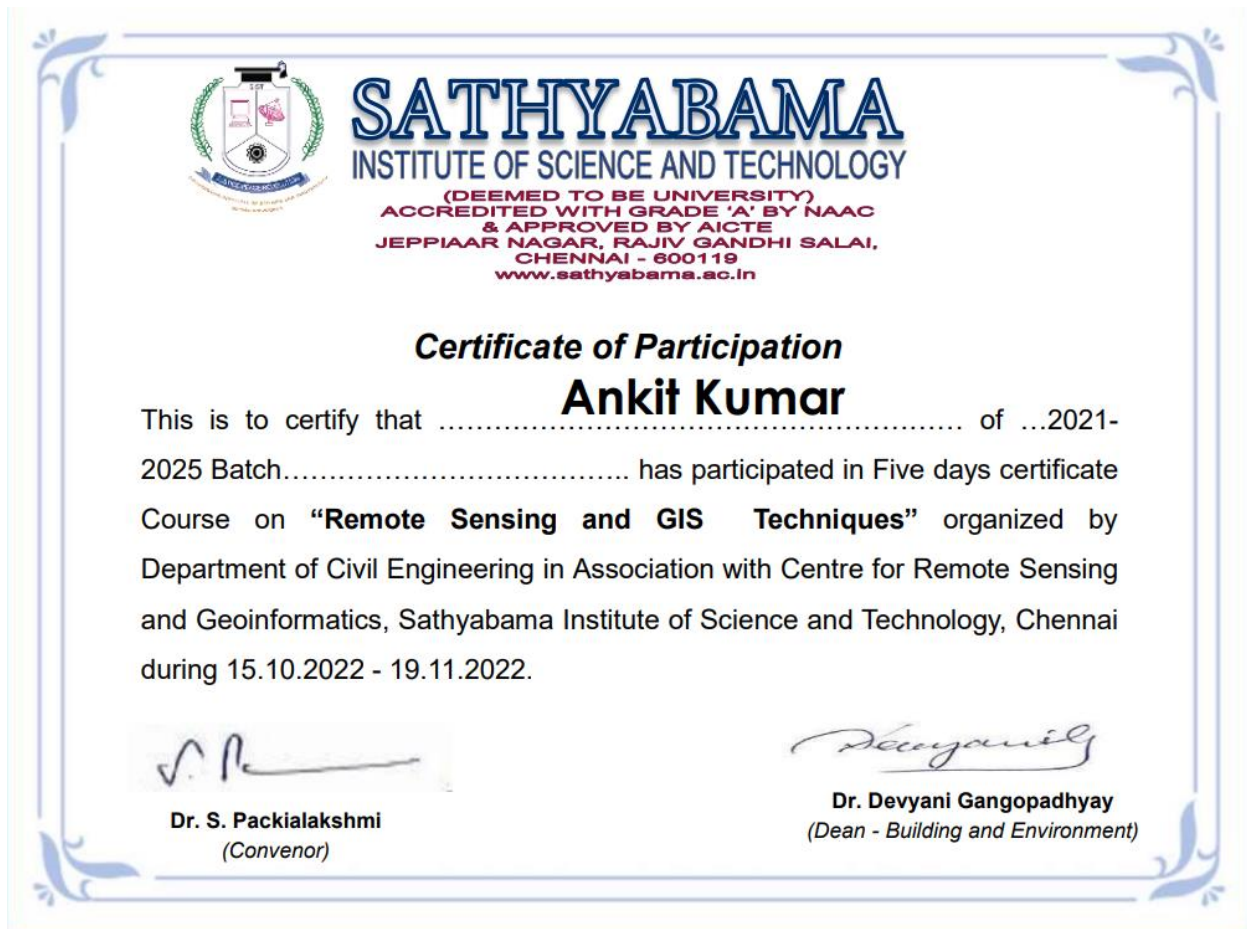
- Gain insight on Remote Sensing and GIS concepts, principles, data sets, tools and techniques
- Hands on training on image classification techniques and various spatial analysis techniques
- Creation of various thematic layers and generation of final output
- Conducting real time environmental oriented 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        | Kamalakaran 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**

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

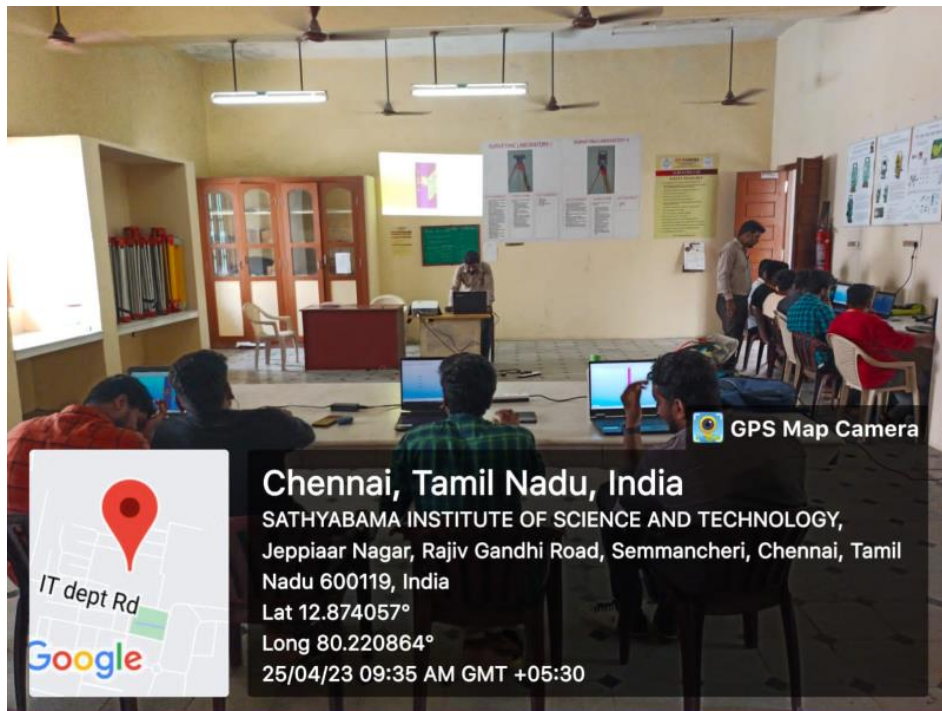
| S. No. | Register Number | Name                        |
|--------|-----------------|-----------------------------|
| 1.     | 41380002        | Ashfaaq.A.                  |
| 2.     | 41380008        | Kathir Viswanath.L.         |
| 3.     | 41380011        | Melvin Sandron H.A.R        |
| 4.     | 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              |
| 14.    | 40200005        | Kirthick. A                 |
| 15.    | 40200006        | Lingeshwaran. R             |
| 16.    | 40200007        | Mithulkiruthik. S.K         |
| 17.    | 40200008        | Nasser Hussain. J           |
| 18.    | 40200009        | Pranav Anand. P             |
| 19.    | 40200010        | Rubalagan. R                |
| 20.    | 40200011        | Sri Hariharan. M            |
| 21.    | 40200012        | Srinivasa Saketh. R         |
| 22.    | 40200013        | Thirumal Varnan. A          |
| 23.    | 40200014        | Tippireddy Suchith Reddy. T |
| 24.    | 40200015        | Vishnu Datha. B             |
| 25.    | 40200016        | Vishnupriya. S              |
| 26.    | 40200017        | Om Chavan. Ch               |
| 27.    | 40200018        | Rifayudeen. T               |
| 28.    | 40200019        | Hariharan. M                |
| 29.    | 40200701        | Reynard Joseph. E           |
| 30.    | 40200702        | Surya Krishnan.R            |
| 31.    | 40200703        | Guddati Sarath Chandra      |
| 32.    | 40200704        | Kandhula Manoj              |
| 33.    | 40200705        | Sidhu. S                    |
| 34.    | 40200706        | Ajai Kishore. M             |
| 35.    | 40200707        | Sheik Abdullah.M            |
| 36.    | 40200708        | Manick. R                   |
| 37.    | 40200709        | Shivaram Himalayan. Goud    |
| 38.    | 40200710        | Reddyshtetty 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



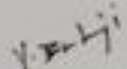


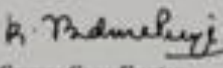
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(DEEMED TO BE UNIVERSITY)

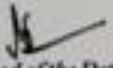


## CERTIFICATE OF COMPLETION

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.