

SCHOOL OF INFRASTRUCTURE

DEPARTMENT OF CIVIL ENGINEERING

Ref. : 1140 / Dean(Sol) / 0425

Date: 25.04.2025

A National Level Workshop on AutoCAD For Civil Engineers

Date: 16.04.2025

Time: 09.30 a.m. to 4.00 p.m.

I. PREAMBLE:

A National level workshop “AutoCAD For Civil Engineers” was organized by the Department of Civil Engineering, School of Infrastructure, B.S. Abdur Rahman Crescent Institute of Science and Technology in association with CADD Centre and The Institution of Engineers (India), Kancheepuram local centre for the benefit of Diploma and B.Tech Civil Engineering students in hybrid mode on 16th April, 2025 from 09.30 a.m. to 04.00 p.m. in UG computer lab and through Google Meet online platform: <https://meet.google.com/kio-vxgp-fkm>. This event was supported by the Institution's Innovation Council, B. S. Abdur Rahman Crescent Institute of Science and Technology.

II. ABOUT THE SPEAKER

Mrs. S. Sharon Rose completed her B.E. in Civil Engineering from GKM College of Engineering & Technology and M.E. in Structural Engineering from SRM Valliammai Engineering College. She joined CADD Centre in 2017, and her technical experience extends to the preparation of civil engineering drawings, structural detailing, and architectural planning for residential and institutional buildings. She is proficient in using engineering software tools such as AutoCAD, STAAD.Pro and ANSYS for modelling, analysis, and design of structural elements. She is currently pursuing her Ph.D. at SRM Institute of Science and Technology in the field of Structural Engineering.

**CADD
CENTRE**

**SCHOOL OF INFRASTRUCTURE
DEPARTMENT OF CIVIL ENGINEERING**

*In Association with CADD Centre and The Institution of Engineers (India),
Kancheepuram Local Centre*



Organizing



A National Level Workshop on

AutoCAD For Civil Engineers

[For Diploma and B.Tech Civil Engineering Students]

Date : 16/04/2025, Wednesday

Time : 9.30 A.M. to 4.00 P.M.

Mode: Hybrid / G-meet link: <https://meet.google.com/kio-vxgp-fkm>

Venue: UG Computer Laboratory, Department of Civil Engineering

FREE REGISTRATION

Resource Person

Mrs. S. Sharon Rose, M.Tech., (Ph.D.)

CADD Centre, West Tambaram, Chennai

Conveners

Dr. M.S. Haji Sheik Mohammed
Professor/Dean (Sol)

Dr. K. Yogeswari
Professor

Coordinators

Mr. A. Manivannan, MIE
Assistant Professor

Dr. T. Srividya,
Assistant Professor

Dr. M. Vishal, AMIE
Assistant Professor

Workshop Brochure

III. ABOUT THE SESSION:

Dr. K. Yogeshwari, Professor, Department of Civil Engineering, extended a warm welcome to the guest and participants and introduced the guest speaker. In her remarks, Dr. Yogeshwari highlighted the critical role of design software proficiency in the field of modern civil engineering and underscored how expertise in structural modelling can significantly broaden career prospects across both academic and industry domains. Then, Mr. Vijaya

Raghavan, a representative from the AutoCAD Centre, delivered an insightful introduction to Building Information Modelling (BIM).

Mrs. Sharon Rose started the session with an overview of AutoCAD, a leading Computer-Aided Design (CAD) software developed by Autodesk, which is widely utilized across civil, mechanical, electrical, and architectural engineering disciplines. She also emphasized integrating the Vastu Shastra principles into the design based on client needs. For example, the entrance should be placed in the northeast to promote positive energy, and the kitchen in the southeast for better harmony. Mrs. Sharon demonstrated how to incorporate these principles into the AutoCAD design while ensuring functionality.

The session also covered adding detailed layers for electrical, plumbing, and HVAC systems, ensuring clarity in the plan. Finally, AutoCAD's 3D visualization tools were used to review the design, ensuring both structural integrity and Vastu compliance.

Then, the practical session on AutoCAD commenced. Students were led through a detailed, step-by-step demonstration of drafting various structural elements using AutoCAD. The covered diagrams included: Centerline Layout, Column Placement, Stirrup Detailing, Footing and Foundation Layout, Plinth Beam Arrangement, Roof Beam and Slab Detailing, Staircase Plan, and Support Details. After a brief break from 10:30 AM to 11:30 AM, the session resumed with a hands-on exercise where students created a basic floor plan for a 30' x 20' building (600 sq. ft).

The workshop again resumed with an in-depth session on STAAD.Pro Connect Edition. Students were comprehensively walked through the entire structural analysis process, including geometry modelling and the execution of final load tests. Finally, the session formally concluded with a vote of thanks delivered by Dr. K. Yogeshwari. She expressed her gratitude for the active participation of students and acknowledged the contributions of faculty members.



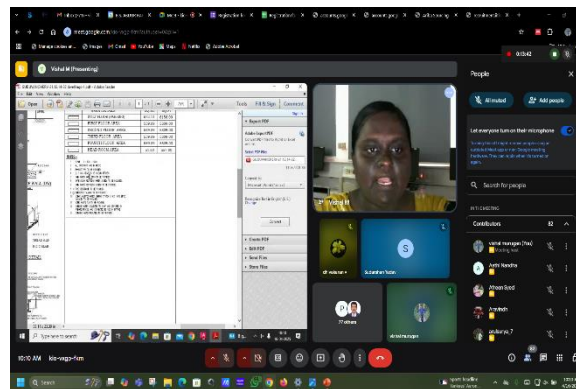
Inauguration of the workshop for online and offline participants



Mr. Vijaya Raghavan's introduction session
about BIM



Offline participants attending the session



Mrs. Sharon's session about AutoCAD

IV. DETAILS OF PARTICIPANTS:

The following were the participants who joined through the Google Meet link:

S.No	Name	College
1	Aathinandha. R	Erode Senguthar Engineering College
2	Aravindh P	Erode Senguthar Engineering College
3	Arekanti Raju	Madanapalle Institute of Technology and Science
4	Ashish Dipak Patil	Atma Malik Institute and Technology
5	Ayyanar P	Annapoorana Engineering College
6	B Chandra Sekhar	Madanapalle Institute of Technology & Science
7	B.Karthika	Erode Senguthar Engineering College
8	Balasingam	Sacs M.A.V.M.M Engineering College
9	Bhavana Pooja. P	Sacs M.A.V.M.M Engineering College

10	Bheemannagari Haritha	Madanapalli Institute of Technology and Science
11	Bishal Shrestha	Vignans Foundation for Science Technology and Research, Guntur
12	Bukya. Vinod Kumar Naik	Madanapalle Institute of Technology and Science
13	C.Akhila	Madanapalle Institute of Technology and Science
14	C.Juber	Madanapalle Institute of Technology and Science
15	Ch.Sravana Sandhya	Vfstr,Vadlamudi
16	Charan. K	Erode Sengunthar Engineering College
17	Cheepuru Phaneendra Kumar	Vignan University
18	Cherukuri Sudha Rani	Vignan's Lara Institute of Technology and Science
19	Chetan Mahadev Krishna	Shivajirao S Jondhle College of Engineering and Technology
20	Chinthala Govardhan Reddy	Madanapalli Institute of Technology and Science
21	D Dilli Prasad	Madanapalli Institute of Technology and Science
22	D.Sai Vishnu Babu	Vignans University
23	Dadam Navitha	Madanapalli Institute of Technology and Science
24	Deepika M	Erode Sengunthar Engineering College
25	Deepika Sugali	Madanapalle Institute of Technology and Science
26	Devimani Gudur	Madanapalle Institute of Technology and Science
27	Dhanish.G	Sacs Mavmm Engineering College
28	Dinesh V	Kongunadu College Of Engineering and Technology
29	Divakaran.V	Kongunadu College Of Engineering and Technology
30	Dr. Alla Suseela	Vignan's Lara Institute of Technology and Science
31	Dr.Ashwini B	E.G.S. Pillay Engineering College
32	Dr.G.Chennakesava Reddy	K.S.R.M.C.E(A)
33	Dr.M.Veerapathran	Dr Ngp Institute of Technology
34	Dr.S.Meenakshi Sudarvizhi	Pandian Saraswathi Yadav Engineering College
35	Dudekula Lalbasha	Madanapalle Institute of Technology and Science
36	Durga Devi. K	Sacs Mavmm Engineering College.

37	Edmore Madzvamuse	Vignan's Foundation of Science, Technology and Research
38	Erla Raj Kumar	Madanapalle Institute of Technology and Science
39	Ethoti Nandivardhan Reddy	Madanapalle Institute of Technology and Sciences
40	Farirai Mashongwa	Vignan's Foundation for Science, Technology and Research
41	Felixnikeshraj	Erode Sengunthar Engineering College
42	G Shanmugavel Murugan	Kongunadu College Of Engineering and Technology
43	G.Dharani	Madanapalle Institute of Technology and Science
44	G.Mahesh Babu	Madanapalle Institute of Technology and Science
45	Gengireddy Gari Chandana	Madanapalle Institute of Technology and Science
46	Gokula Krishnan A	Erode Sengunthar Engineering College
47	Golla Uday Kiran	Madanapalle Institute of Technology and Science
48	Gowtham P	Kongunadu College Of Engineering and Technology
49	Gummana Bharath Reddy	Ksrm College Of Engineering
50	Gunasekar S	K.S.Rangasamy College of Technology, Tiruchengode
51	Harishka	Erode Sengunthar Engineering College
52	Indumathi Mamillapalli	Madanapalle Institute of Technology and Science
53	Jabeen A	Kongunadu College Of Engineering and Technology
54	Jayachandran K	Nit Calicut
55	Jayanth R	Erode Senguntgar Engineering College
56	Jeeva Cr	Erode Sengundhar Engineering College
57	Jhansi Sidde	Madanapalle Institute of Technology and Science
58	K Raja Reddy	Madanapalle Institute of Technology and Science
59	K. Karthik	SRM Institute of Science and Technology
60	K.Naga Lakshmi	Vignan's University
61	Kamesh	Sacs M.A.V.M.M Engineering College
62	Kanagani Yoganandha	Madanapalle Institute of Technology and Science
63	Kanike Suresh	Ksrm College Of Engineering
64	Karthickrajan R M	Erode Sengunthar Engineering College

65	Kathirvel R	Erode Sengunthar Engineering College
66	Kavin Prabu	Erode Sengunthar Engineering College
67	Kavin Saravana V	Erode Sengunther Engineering College
68	Kayala Anusha	Madanapalle Institute of Technology and Science
69	Keerthana R	Kongunadu College of Engineering and Technology
70	Kempakkagari Bhargavi	Madanapalle Institute of Technology and Science
71	Kishore B	Vel Tech High Tech Dr Rangarajan Dr Sakunthala Engineering College
72	Koyyala Susmitha	Madanapalle Institute of Technology and Science
73	Kumar Reddy Malem	Madanapalle Institute of Technology and Science
74	Kyathappa Gari Ajay Kumar	Madanapalle Institute of Technology and Science
75	Lahari Kommi	Madanapalle Institute of Technology and Science
76	M. Arunkumar	Dr. Mahalingam Clg Pollachi
77	M.Akkulappa	Madanapalle Institute of Technology and Science
78	M.Sanjai	Erode Senguthar Engineering College
79	M.U.Jeffrin	R.M.K Engineering College
80	M.Vinod Kumar	Madanapalle Institute of Technology and Science
81	Mahadevapalli Obul Reddy	Madanapalle Institute of Technology and Science
82	Mahalakshmi R	Kongunadu College Of Engineering And Technology (Autonomous)
83	Mahalakshmi S	Kongunadu College Of Engineering And Technology
84	Manish Kumar	Erode Senguthar Engineering College
85	Manoj M	Sacs Mavmm Engineering College
86	Md Shahrukh Alam	Erode Sengunthar Engineering College
87	Meenugula Mahendra	Madanapalle Institute of Technology and Science
88	Midhun Akash K	Kongunadu College Of Engineering and Technology
89	Mohan Kumar Kummara	Madanapalle Institute of Technology and Science
90	Mrs R Padma Rani	Sri Bharathi Engineering College for Women
91	Muthupandi.T	Sacs Mavmm Engineering College Alagar Kovil
92	N Radiya	Madanapalle Institute of Technology and Science
93	N.Sreekanth Naik	Madanapalle Institute of Technology and Science

94	Nandha Kumar	Erode Sengunthar Engineering College
95	Nischal Kafle	Vignan University
96	Nitin Kumar Nishad.A	Sacs Mavmm Engineering College
97	Nunna Srinivas	Vignan's Foundation for Science Technology and Research
98	P Menaka	Madanapalle Institute of Technology and Science
99	P Tharun	Madanapalle Institute of Technology and Science
100	P.Nithin	Madanapalle Institute of Technology and Science
101	P.Surya	Erode Sengunthar Engineering College
102	Patan Abubakar Siddiq Khan	Madanapalle Institute of Technology and Science
103	Patan Mohammed Thoufiq	Madanapalle Institute of Technology and Science
104	Paul Daniel Prem	Madanapalle Institute of Technology and Science
105	Perugu Pavithra	Madanapalle Institute of Technology and Science
106	Ponnapati Murali	Madanapalle Institute of Technology and Science
107	Pranathi Thiruveedhula	Madanapalle Institute of Technology and Science
108	Pranay.V	Madanapalle Institute of Technology and Science
109	Pratheeksha A	Kongunadu College Of Engineering and Technology
110	Pujari Harsha Vardhan	Madanapalle Institute of Technology and Science
111	R Kelwin Emmanuel	R M K Engineering College
112	R.Harshani	National Engineering College
113	Rachanna Goud Gari Nataraj	Madanapalle Institute of Technology and Science
114	Radhakrishnan	Erode Sengunthar Engineering College
115	Ragavi.S	Erode Sengunthar Engineering College
116	Rahul Jayram Bhoys	Atma Malik Institute of Technology and Research
117	Rajapriyan M	Sacs Mavmm Engineering College
118	Rajesh D	Vel Tech High Tech Dr Rangarajan Dr Sakunthala Engineering College
119	Ramki R	Kongunadu College Of Engineering and Technology
120	Reddyvari Sudarshan Yadav	Madanapalle Institute of Technology and Science

121	Rekha	Madanapalle Institute of Technology and Science
122	Rohan S	Sacs Mavmm Engineering College
123	Rupesh Ray Yadav	Vignan University
124	S.Basheer Ahammad	Madanapalle Institute of Technology and Science
125	S.Gokulakannan	Muthayammal Engineering College
126	S.Renugadevi	Erode Sengunthar Engineering College
127	Saravanakumar	Erode Sengunthar Engineering College
128	Sayyad Nyamathulla	Madanapalle Institute of Technology and Science
129	Sayyed Afrin	Madanapalle Institute of Technology and Science
130	Selvaraj	University College of Engineering Panruti
131	Shaik Akbar	Ksrm
132	Shaik Bajamma	Vignan's Foundation for Science, Technology & Research
133	Shaik Sahira	Madanapalle Institute of Technology and Science
134	Sonal Kumar	Erode Sengunther Engineering College
135	Sowmiya B	Nadar Saraswathi College of Engineering and Technology Theni
136	Sriram	Erode Sengunther Engineering College
137	Sundharam R	Kings College Of Engineering
138	Surenthiran.M	Kongunadu College Of Engineering and Technology
139	Swathi	Kongunadu College Of Engineering Technology
140	Syed Mohammed Adil	Madanapalle Institute of Technology and Science
141	T.Rizwana Azmi	Madanapalle Institute of Technology and Science
142	Tadiwa Mukotami	Vignan
143	Tanatswa Tadzimirwa	Vignan's Foundation for Science Technology & Research
144	Teliki Nyni	Madanapalle Institute of Technology and Science
145	Tharun Ganesh.M	Madanapalle Institute of Technology and Science
146	Tharwin K	Kongunadu College Of Engineering and Technology
147	Thirumalaivaasan.S	Erode Sengunthar Engineering College
148	Ulindala Amrutha Valli	Madanapalle Institute of Technology and Science

149	V.Navya Madhuri	Vignan's Foundation for Science Technology and Research
150	Vaddireddy Sree Hari Reddy	Madanapalle Institute of Technology and Science
151	Valasagalla Uday Kumar	Ksrm College Of Engineering
152	Varun S	Kongunadu College of Engineering and Technology
153	Vasanth S	Erode Sengunthar Engineering College
154	Venkatesh	Madanapalle Institute of Technology and Science
155	Yanamala Aswini	Madanapalle Institute of Technology and Science
156	Yaswanth Reddy D	Madanapalle Institute of Technology and Science
157	Yuvaraj D	SRM Institute of Science and Technology, Kattankulathur

The following were the participants of the I-year and II-year B.Tech (Civil Engineering) who attended the workshop:

S.No	RRN	Name
1	230011601001	Abdul Aadhil M
2	230011601002	Abdul Rahim
3	230011601003	Akram Jaweeth A
4	230011601004	Aravinthan Theivaraj
5	230011601005	Arshath Ibrahim S
6	230011601007	Imran Farid A
7	230011601008	Jameel Ahamed M
8	230011601009	Mahalakshmi K
9	230011601010	Mohamed Aslam S
10	230011601011	Mohamed Shadiqm
11	230011601012	Mohamed Yasin S
12	230011601013	Mohammed Ajmal
13	230011601014	Mohammed Faaiz K
14	230011601015	Mohammed Mehran P
15	230011601016	Mohammed Razeen T
16	230011601017	Mohammed Siddiq S

17	230011601018	Rameeza Yasmin P K
18	230011601019	Roshan Asfaq
19	230011601020	Saad Sayeed Shairkhan
20	230011601021	Surya Moorthy M
21	230011601022	Syed Ahamed K M
22	230011601023	Syed Masooth
23	230011601024	Thokchom Wanglen Moilangcha
24	230011601025	Thycus Mario Valantine D
25	230011601026	Yukesh G
26	230011602001	Abdul Asif M
27	230011602002	Esakki Rajesh R
28	230011602003	Faslan Ahamed A
29	230011602005	Mohamed Jasim H
30	230011602006	Mohamed Yusuf Irfan M
31	230011602007	Naufal Ahamed
32	230011602008	Rithvik.K
33	230011602009	Muhamadhu Sulthan S
34	230011602010	Dileep Kumar S
35	240011601004	Abul Firaz Uduman R
36	240011601010	Mohamed Ajmal M
37	240011601015	Mohammad Shaamil K Z
38	240011601017	C Mohammed Anas
39	240011601024	Syed Sameer S A
40	240011601030	Peer Mohammed S

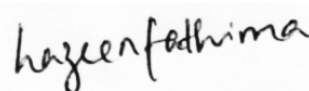
V. OUTCOMES:

- The participants had a great insight into the utility of AutoCAD in the Civil Engineering domain.
- The participants gained knowledge in courses CED 1203, CEE 2203, CEE 6214, about planning and designing a building with the application of AutoCAD and STAAD Pro.

- This workshop attains the SDG 4 and 9 to Ensure quality education and promote lifelong learning opportunities for all, and build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation.



Dr. M. Vishal
Assistant Professor



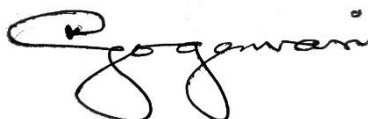
Dr. M. Hazeen Fathima
Assistant Professor



Dr. T. Srividya
Assistant Professor



Mr. A. Manivannan
Assistant Professor



Dr. K. Yogeswari
Professor



Dr. M.S. Haji Sheik Mohammed
Dean (School of Infrastructure)