

PRAGATI ENGINEERING COLLEGE

(Autonomous)

#1-378, ADB Road, Surampalem - 533 437, Near Peddapuram, Kakinada Dist., A.P.
Approved by AICTE, Permanently Affiliated to JNTUK Kakinada & Accredited by NAAC with 'A+' Grade)
(Recognized by UGC Under Sections 2(f) and 12 (b) of UGC act, 1956)
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DEPARTMENT OF MECHANICAL ENGINEERING

Date: 24.09.2025

CIRCULAR

We are happy to inform you that the A Two Day Workshop on *Topology and Generative optimization for 3D Printing Applications* is scheduled to be conducted by Department of Mechanical Engineering in association with Additive Manufacturing Club from 25-09-2025 to 26-09-2025 and duration 9:30 AM to 3:30 PM.

The speaker details for this workshop were Mr. K. Pramod, Research Associate (CPDDAM, Osmania University) and Revanth Software Solutions Private limited. Students are advised to carry your own laptops to get hands-on experience and gain knowledge out of it.

Venue : Mechanical block Seminar Hall



Department of Mechanical Engineering

In Association with

Additive Manufacturing Club

Organizes

Two days workshop on

TOPOLOGY AND GENERATIVE OPTIMIZATION FOR 3D PRINTING APPLICATIONS

by

Mr. K. Pramod

Research Associate, CPDDAM, Osmania University &

REVENTH SOFTWARE SOLUTIONS PRIVATE LIMITED

Duration: Two days (24th & 25th Nov 2024)

Time: 9:30 AM to 5:30 PM (24th & 25th Nov 2024)

Venue Details:

Core Block, 4th Floor, Seminar Hall

Osmania Engineering College

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DEPARTMENT OF MECHANICAL ENGINEERING

Report

on

A two day workshop - Topology and Generative Optimization for 3D Printing Applications

On 25th and 26th September 2025

Department of Mechanical Engineering in association with Additive Manufacturing Club Conducted a two-day workshop on *Topology and Generative Optimization for 3D Printing Applications* was conducted on 25th and 26th September 2025, from 9:30 AM to 3:30 PM. The sessions were led by **Mr. K. Pramod, Research Associate, CPDDAM, Osmania University**, along with experts from **Revanth Technologies Pvt. Ltd.** The program began with a detailed lecture on topology optimization, generative design approaches, and their role in additive manufacturing. Key aspects such as reducing material usage, improving strength-to-weight ratio, and enabling complex geometry creation through 3D printing were discussed in depth. The workshop was attended by **76 participants from the Department of Mechanical Engineering**, reflecting the strong interest in advanced design methodologies among students.

The second day of the workshop was dedicated to hands-on practice, focusing particularly on the use of **Creo** for generative design and optimization workflows. Participants actively engaged in exercises on model creation, applying optimization techniques, and preparing components for 3D printing. The structured format of one day of lectures followed by a full day of practice ensured that participants gained both conceptual clarity and practical exposure. Overall, the workshop provided valuable insights into the integration of topology and generative design in modern engineering, equipping the 76 attendees with essential knowledge and skills relevant to the future of additive manufacturing.

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Brochure:

Department of Mechanical Engineering
In Association with
Additive Manufacturing Club
Organizes
Two days workshop on
TOPOLOGY AND GENERATIVE OPTIMIZATION FOR 3D PRINTING APPLICATIONS
by
Mr. K. Pramod
Research Associate, CPDDAM, Osmania University &
REVENTH SOFTWARE SOLUTIONS PRIVATE LIMITED

Date & Time of Event :
25th & 26th September 2025 (9.30 AM to 03.30 PM)

Venue Details :
Core Block (1st Floor Seminar Hall)

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Fig 1: Workshop Banner of *Topology and Generative Optimization for 3D Printing applications*

Session Images:



Fig 2: The student coordinator reads the profile of Mr. K. Pramod, Research Associate at CPDDAM, Osmania University, and expert from Revanth Technologies Pvt. Ltd.

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Fig 3: Dr. G. Avinash, HOD of Mechanical Engineering, welcoming the resource person and encouraging students to learn new technologies.



Fig 4: A student presents a plant to Mr. K. Pramod, Research Associate at CPDDAM, as a token of appreciation

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Fig 5 : Mr. K. Pramod, Research Associate at CPDDAM interacting with students about 3D Printing

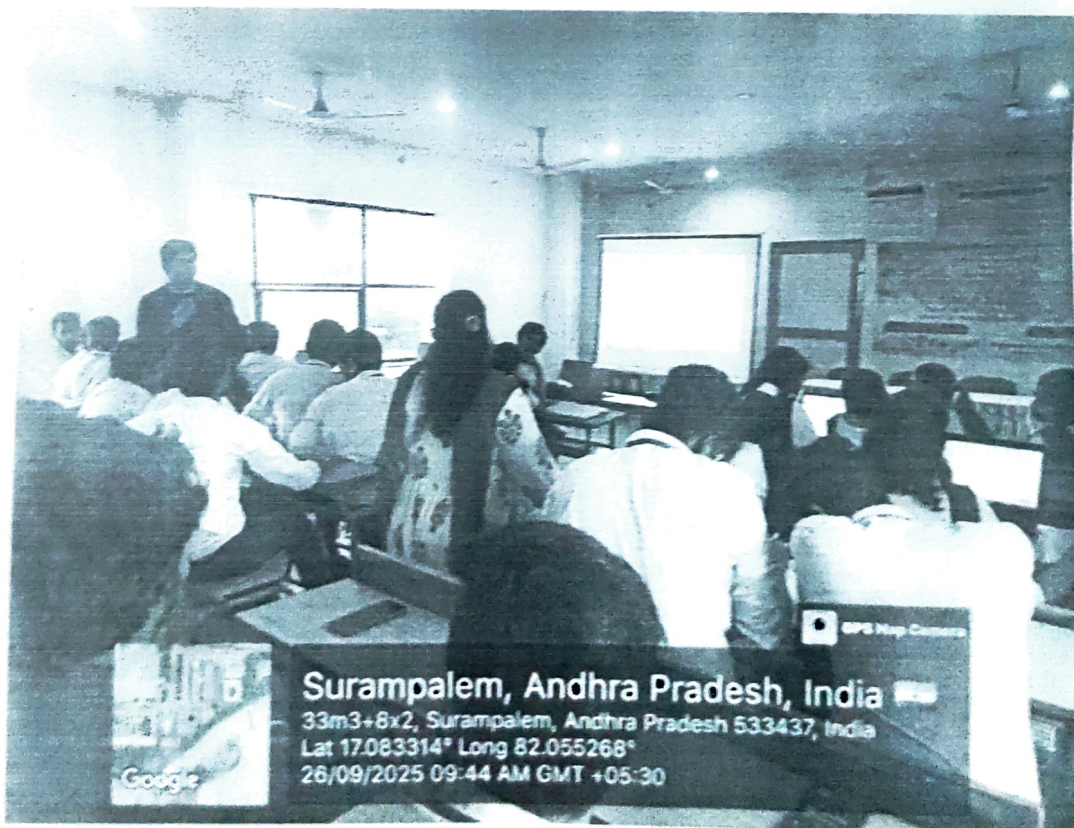


Fig 6: Mr. K. Pramod explains topology and generative optimization for 3D printing.

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Fig 7: Mr. K. Pramod explains topology and generative optimization for 3D printing.

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Department of Mechanical Engineering
In Association With Additive Manufacturing Club
Organized A Two Day Workshop on

Topology & Generative Optimization for 3D Printing Applications

Participation List

Dt: 25/9/25

No.	Roll No.	Student Name	Year	SIGN
1	24A31A0306	K. Krishnakumari	2 nd	K. Krishnakumari
2	25A35A0301	K. Anya Sri Bhargavi	2 nd	K. Anya
3	24A31A0310	S. Vanisha	2 nd	S. Vanisha
4	24A31A0303	P. Hari Santhoshi	2 nd	P. Santhosh
5	24A31A0309	P. Guruswathi	2 nd	P. Guruswathi
6	24A31A0306	M. Soumya Sri	2 nd	Soumya Sri
7	24A31A0307	K. Rama Harsini	2 nd	Harsini
8	24A31A0304	J.N. Charishma	2 nd	Charishma
9	24A31A0302	G. Trija Sri	2 nd	Trija
10	23A31A0301	B. Shree Ramya	3 rd	Ramya
11	23A31A0302	D. Ananthi	3 rd	Ananthi
12	23A31A0303	N. Swapna	3 rd	Swapna
13	23A31A0304	R. Renuka	3 rd	Renuka
14	23A31A0305	Ravathi. M	3 rd	Ravathi
15	23A31A0306	S. Yohanna	3 rd	S. Yohanna
16	24A35A0313	S. Manikanta	2 nd	S. Manikanta
17	24A35A0304	D. Mauli	3 rd	D. Mauli
18	24A35A0310	P. Rishikesh	3 rd	P. Rishikesh
19	23A31A0332	N. Kaswanth	3 rd	N. Kaswanth
20	23A31A0330	M. Hemant	3 rd	M. Hemant
21	24A31A0357	V. Siva Ram Charan	2 nd	V. Siva Ram Charan
22	23A31A0301	S. Ananya		
23	25A35A0307	P. Akshay Stephen Raj	2 nd	P. Akshay
-	23A31A026	K. Komal Ravi	II	K. Komal
-	23A31A041	P. E. Prasanth	II	P. E. Prasanth

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No	Roll No.	Student Name	Year	SIGN
1	23A31A0341	P. E. Prasanth	III rd	P. Prasanth
2	24A31A0338	M. Santosh	II nd	M. Santosh
3	24A31A0342	M. Chaitanya prakash	II nd	M. Chaitanya
4	24A31A0340	M. Abhi Ram	II nd	M. Abhi Ram
5	24A31A0353	P. Akash	II nd	P. Akash
6	24A31A0358	V. Sai manikanta	II nd	V. Sai
7	24A35A0305	K. Satwik	III rd	K. Satwik
8	23A31A0311	B. H. S. D. MRUTYUMJAY	III rd	B. H. S. D. Mrutyumjay
9	23A31A0316	CH. Santhosh Kumar	III rd	CH. Santhosh
10	23A31A0317	CH. Satyanarayana	III rd	CH. Satyanarayana
11	24A31A0312	A. ANIL	II nd	A. Anil
12	24A31A0349	P. Yuva Teja	II nd	P. Yuva Teja
13	25A35A0308	V. S. R. V. S. Karthik	II nd	V. S. R. V. S. Karthik
14	24A31A0323	G. P. Ramudu	II nd	G. P. Ramudu
15	24A31A0346	M. Siddardha Teja	II nd	M. Siddardha
16	24A31A0328	J. Karthik Sri Ram	II nd	J. Karthik
17	24A31A0317	CH. Naveen Teja	II nd	CH. Naveen Teja
18	25A35A0304	J. V. R. M. Sri Suresh	II nd	J. Suresh
19	24A31A0325	G. Krishnam Rasy	II nd	G. Krishnam Rasy
20	25A35A0302	A. Rakesh	II nd	A. Rakesh
21	24A31A0324	G. V. Karthik	II nd	G. V. Karthik
22	24A31A0319	K. Varun	II nd	K. Varun
23	24A31A0321	G. V. Ramana	II nd	G. V. Ramana
24	24A31A0315	CH. Manoj	II nd	CH. Manoj
25	24A31A0341	M. Sai Ram charan	II nd	M. Sai Ram

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Sr	Roll No.	Student Name	Year	SIGN
1.	24A31A0352	P. Sandeep	2nd	P. Sandeep
2	23A31A0328	K. satya chakra dhora	IIIrd	K.S.C. Dhora
3	23A31A0351	V. Venkata Kowshik	IIIrd	V. Kowshik
4	23A31A0348	S. Uday	IIIrd	S. Uday
5	23A31A0323	G. Venkata Ajay Kumar	IIIrd	G. Ajay
6	23A31A0342	R. Manidheep	IIIrd	R. Manidheep
7	23A31A0346	T. A. Narasimham	IIIrd	T. A. Narasimham
8	23A31A0352	V.V.B. Trinath	IIIrd	V.V.B. Trinath
9	23A31A0313	B. Saiteja	IIIrd	B. Saiteja
10	23A31A0321	Y.S.S. Suresh	IIIrd	Y.S.S. Suresh
11	23A31A0315	B. Siva Sai	IIIrd	B. Siva Sai
12	23A31A0340	P. Bhanu	IIIrd	P. Bhanu
13	24A35A0307	Mh. Bala Bhavani Sankar	IIIrd	Mh. Bala Bhavani Sankar
14	24A35A0315	S. Chandu	IIIrd	S. Chandu
15	24A35A0306	K. Pavan Surya Kumar	IIIrd	K. Pavan Surya Kumar
16	24A35A0311	P. V. Neelesh Kumar	IIIrd	P. V. Neelesh Kumar
17	24A35A0314	S. Sriyam	3rd	S. Sriyam
18	24A35A0317	Y. Siva Shankar	IIIrd	Y. Siva Shankar
19	23A31A0320	G. V. Subramanyam	IIIrd	G. Subramanyam
20	23A31A0337	P. Vamsi	IIIrd	P. Vamsi
21	23A31A0343	R. P. Arun Kumar	IIIrd	R. P. Arun Kumar
22	23A31A0327	K. Sriaji Ganesh	IIIrd	K. Sriaji Ganesh
23	23A31A0308	A. Mani Kanda	IIIrd	A. Mani Kanda
24	23A31A0312	Bandaru. B.S.D.V. Pothuraju	IIIrd	B. Bharegadda

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Dt: 26/9/25

Roll No.	Student Name	Year	Sign
1. 23A31A0326	K. Kameswara Rao	III	K. Kameswara Rao
2. 23A31A0341	P. Prashanth	III	P. Prashanth
3. 23A31A0328	K. S. K. Dhora	III	K. S. K. Dhora
4. 24A35A0305	K. Satwik	III	K. Satwik
5. 24A35A0304	D. Mouli	III	D. Mouli
6. 23A31A0320	Z. V. S. Subrahmanyam	III	Z. V. S. Subrahmanyam
7. 23A31A0315	B. Siva Sai	III	B. Siva Sai
8. 23A31A0343	R. A. Kumari	III	R. A. Kumari
9. 24A35A0314	S. Sriram	3rd	S. Sriram
10. 23A31A0313	B. Sai Teja	III	B. Sai Teja
11. 23A31A0321	Y. S. Suresh	III	Y. S. Suresh
12. 23A31A0323	G. Venkata Ajay Kumar	III rd	G. Venkata Ajay Kumar
13. 23A31A0312	V. V. B. Trinath	III rd	V. V. B. Trinath
14. 23A31A0342	R. Manidev P	III rd	R. Manidev P
15. 23A31A0328	K. Satya Chakra Dhora	III rd	K. S. C. Dhora
16. 23A31A0301	B. Shri Ramya	III rd	B. Shri Ramya
17. 23A31A0302	D. Avanthi	III rd	D. Avanthi
18. 23A31A0303	N. Swapna	III rd	N. Swapna
19. 23A31A0304	R. Renuka Vijaya Durga	III rd	R. Renuka Vijaya Durga
20. 23A31A0305	M. Revathi	III rd	M. Revathi
21. 23A31A0306	S. Yohanna	III rd	S. Yohanna
23A31A0307	A. V. Siva	3rd	A. V. Siva
23A31A0314	B. M. Vardhan	3rd	B. M. Vardhan
23A31A0315	K. V. Manikanta	3rd	K. V. Manikanta

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Dt: 26/9/25

No.	Roll No.	Student Name	Year	Sign
01	23A31A0301	B. Shri Ramya	3 rd	Shri Ramya
02	23A31A0302	D. Avanthi	3 rd	Avanthi
03	23A31A0303	N. Swapna	3 rd	Swapna
04	23A31A0304	R. Renuka	3 rd	Renuka
05	23A31A0305	M. Revathi	3 rd	Revathi M.
06	23A31A0306	G. Yohanna	3 rd	Yohanna
07	23A31A0317	CH. V V Satyanarayana	3 rd	ch. v v satya
8	24A35A0313	S. Manikanta	3 rd	S. Manikanta
9	24A35A0343	M. Siddardha Teja	2 nd	M. Siddardha
10	24A31A0354	R. C. Donababu	2 nd	R. C. Donababu
11	25A35A0304	T. V. R. M. Sai Swaroop	2 nd	T. Sai Swaroop
12	24A31A0315	CH. Manoj	2 nd	CH. Manoj
13	24A31A0332	D. Karthik	2 nd	D. Karthik
14	24A31A0341	M. Tai Ram charan	2 nd	M. Tai Ram charan
15	24A31A0357	V. Siva Ram charan	2 nd	V. Siva Ram charan
16	24A31A0310	S. Vanisha	2 nd	S. Vanisha
17	24A31A0309	P. Bhavashree	2 nd	P. Bhavashree
18	25A35A0301	K. Renuka Sri Bhargavi	2 nd	K. Renuka
19	24A35A0306	R. Hitha Lakshmi	2 nd	R. Hitha Lakshmi
	23A31A0333	V. B. Vangi	3 rd	V. B. Vangi
	23A31A0350	Venkata Satyanarayana	3 rd	V. Satyanarayana
	24A35A0301	D. L. Narayana	III	D. L. Narayana
	24A35A0303	M. Durga Suresh	II	M. D. Suresh

