



PVKK INSTITUTE OF TECHNOLOGY

Approved by AICTE, New Delhi, Affiliated to JNTUA, Anantapuramu.
(Established under Sri Balaji Educational Society, Anantapuramu)

Department of Mechanical Engineering

CIRCULAR

Date: 24-03-2023

Department of ME in association with Take off Edu Group, Tirupathi, is organizing a one-week Faculty Development Program on “Mechanical Design Optimization with CAD/CAE tools” during 02-04-2023 to 06-04-2023. To register for this FDP contact convener- **Dr.L.Balasubramanyam**, Phone Number-**8886630025**. Limited Seats Available for the Program and the selection is based on First Come First Serve basis.

Resource Persons/ Speakers:

Name of the Person	Designation
Mr. V. Nikil Murthy	Associate Professor, Anantha Lakshmi Institute of Technology, Anantapur

Venue: ME Department Seminar Hall, PVKKIT.

Timings: 9:30 A.M to 1:00 P.M

1.00.PM to 2.00 PM -Lunch Break

2:00 P.M to 4:30 P.M

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Department of Mechanical Engineering

Report on Faculty Development Program

Academic Year	2022-23	Venue	ME Department Seminar Hall, PVKKIT
Name of the Course	One Week FDP on "Mechanical Design Optimization with CAD/CAE tools" in Association with Take off Edu Group, Tirupathi.	Duration	One week
Trainer	Mr. V. Nikil Murthy Associate Professor, Anantha Lakshmi Institute of Technology, Anantapur	Date	02-04-2023 to 06-04-2023
Faculty Co-Ordinator 1	Ms. C. Triveni	Time	FN-9:30AM to 1:00PM AN-2:00PM to 4:30PM
Faculty Co-Ordinator 2	Mr. S. Jithendra Naik	Total Sessions/Total Hours	30 Hours
Convener	Mr. L. Balasubramnyam		

Aim of the programme:

The aim of a Faculty Development Program (FDP) in Mechanical Design Optimization with Computer-Aided Design (CAD) and Computer-Aided Engineering (CAE) tools is to enhance the knowledge, skills, and expertise of faculty members and researchers in the field of mechanical engineering design and simulation.

The main objectives of this FDP are:

- Provide participants with advanced knowledge and skills in utilizing CAD and CAE tools for mechanical design and optimization. This includes proficiency in software packages such as SolidWorks, AutoCAD, ANSYS, CATIA, and other relevant tools.

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- Encourage participants to explore interdisciplinary applications of mechanical design optimization. This includes integrating mechanical engineering principles with other fields such as materials science, electronics, and manufacturing technologies.
- Familiarize participants with industry-standard methodologies for product design, analysis, and optimization. This includes best practices used in real-world engineering projects.
- Provide in-depth training on advanced simulation techniques such as finite element analysis (FEA), computational fluid dynamics (CFD), and thermal analysis. Participants should

Indicative Topics:

- Introduction to CAD Software
- Advanced CAD Modeling Techniques
- Finite Element Analysis (FEA)
- Computational Fluid Dynamics (CFD)
- Topology Optimization
- Multi-Body Dynamics (MBD)
- Optimization Algorithms
- Design Validation and Verification
- Material Selection and Analysis
- Integration of CAD and CAE
- Case Studies and Practical Applications
- Interdisciplinary Applications

Expected outcomes:

After completion of the FDP, participants

- Participants gain advanced skills and expertise in using CAD and CAE tools, enabling them to create complex designs and perform detailed engineering analysis.
- Participants learn innovative teaching techniques, enabling them to effectively impart knowledge about CAD/CAE tools to their students. This might include hands-on exercises, real-world applications, and case studies.
- Participants integrate CAD and CAE concepts seamlessly into the curriculum, ensuring that students are well-versed in these essential tools before entering the workforce.

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- Participants develop research capabilities by exploring advanced topics related to mechanical design optimization, leading to increased research output and publications.
- Participants acquire skills that are directly applicable to industry needs, making graduates more employable and industry-ready.
- Participants establish networks with experts in the field, both within academia and industry, fostering collaborations and partnerships for research and knowledge exchange.
- Participants develop the ability to collaborate across disciplines, leading to interdisciplinary projects and research endeavors that solve complex real-world problems.
- Participants enhance their problem-solving abilities by applying optimization techniques to various engineering challenges, equipping them to address real-time industry problems.
- The enhanced research capabilities of faculty members may attract research funding and grants, leading to additional resources for the institution.

Duration: The duration of this FDP will be 5 consecutive days, with 6 hours per a total of 30 hours properly divided into theory and hands on sessions.

Certification Policy:

- Certificate of Merit for all the FDP participants.
- At the end of this FDP, a small competition will be organized among the participating Faculties and winners will be awarded with a prize.


Signature of the Convener


Signature of HOD

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Department of Mechanical Engineering

Participants Registration Sheet

- Title of the Program/ Workshop** : One Week FDP on “Mechanical Design Optimization with CAD/CAE tools” in Association with Take off Edu Group, Tirupathi.
- Date** : 02-04-2023 to 06-04-2023
- Academic Year** : 2022-23
- Venue** : Department Seminar Hall
- Organized by** : Department of ME in association with Take off Edu Group,
- Convener** : **Dr. L. Balasubramnayam**, HoD, Assoc.Professor of ME

S. NO	Name of the Faculty	Designation	Name of the Institute	Signature
1.	Dr. K. Manohar Reddy	Associate Professor	PVKKIT	
2.	Dr. D. Harsha Vardhan	Associate Professor	PVKKIT	
3.	Sugali Jithendra Naik	Associate Professor	PVKKIT	
4.	N. Govindarajulu	Assistant Professor	PVKKIT	
5.	N. Sreenivasulu	Assistant Professor	PVKKIT	
6.	Badigi Madan Gopal	Assistant Professor	PVKKIT	
7.	S. Madhavi	Assistant Professor	PVKKIT	
8.	C. Triveni	Assistant Professor	PVKKIT	
9.	D R Madhuri	Assistant Professor	PVKKIT	
10.	G Sudheer Kumar	Assistant Professor	PVKKIT	
11.	T. Obulesu	Assistant Professor	PVKKIT	
12.	M. Hari Priya	Assistant Professor	PVKKIT	
13.	G. Vani Prathibha	Assistant Professor	PVKKIT	
14.	K. R. Yellu Kumar	Assistant Professor	PVKKIT	
15.	S. Pranavi	Assistant Professor	PVKKIT	
16.	A. Sangappa	Assistant Professor	PVKKIT	
17.	B. Bhargava	Assistant Professor	PVKKIT	
18.	V. Manunatha Reddy	Assistant Professor	PVKKIT	
19.	K Suresh	Assistant Professor	PVKKIT	
20.	V. Siddalingappa	Assistant Professor	PVKKIT	
21.	Karthikeyan Nadadur	Assistant Professor	PVKKIT	
22.	A. Harinath	Assistant Professor	ALTS	

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23.	M. Anil Kumar	Assistant Professor	ALTS	Anil
24.	B. Gopal	Assistant Professor	SRIT	Gopal
25.	B. Subba Reddy	Assistant Professor	SRIT	Subba
26.	M. Peeru Naik	Assistant Professor	SRIT	Peeru
27.	G Chandra Sekhar	Assistant Professor	GATE	Chandra
28.	B. Ramanjineyulu	Assistant Professor	GATE	Ram
29.	C. Subhahan Basha	Assistant Professor	GATE	C.S. Basha


Convener


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Participants Attendance Sheet

1. Title of the Program/ Workshop : One Week FDP on "Mechanical Design Optimization with CAD/CAE tools" in Association with Take off Edu Group, Tirupathi.
2. Date : 02-04-2023 to 06-04-2023
3. Academic Year : 2022-23
4. Venue : Department Seminar Hall
5. Organized by : Department of ME in association with Take off Edu Group,
6. Convener : Dr. L. Balasubramnayam, HoD, Assoc.Professor of ME

S.NO	Name of the Faculty	Name of the Institute	Day 1	Day 2	Day 3	Day 4	Day 5
1.	Dr. K. Manohar Reddy	PVKKIT	M	M	M	M	M
2.	Dr. D. Harsha Vardhan	PVKKIT	D.H.V	D.H.V	D.H.V	D.H.V	D.H.V
3.	Sugali Jithendra Naik	PVKKIT	Jithendra	Jithendra	Jithendra	Jithendra	Jithendra
4.	N. Govindarajulu	PVKKIT	Govindarajulu	Govindarajulu	Govindarajulu	Govindarajulu	Govindarajulu
5.	N. Sreenivasulu	PVKKIT	Sreenivasulu	Sreenivasulu	Sreenivasulu	Sreenivasulu	Sreenivasulu
6.	Badigi Madan Gopal	PVKKIT	Badanigop	Badanigop	Badanigop	Badanigop	Badanigop
7.	S. Madhavi	PVKKIT	S.M	S.M	S.M	S.M	S.M
8.	C. Triveni	PVKKIT	C.T	C.T	C.T	C.T	C.T
9.	D R Madhuri	PVKKIT	D.R.M	D.R.M	D.R.M	D.R.M	D.R.M
10.	G Sudheer Kumar	PVKKIT	Sudheer	Sudheer	Sudheer	Sudheer	Sudheer
11.	T. Obulesu	PVKKIT	O	O	O	O	O
12.	M. Hari Priya	PVKKIT	H	H	H	H	H
13.	G. Vani Prathibha	PVKKIT	Vani	Vani	Vani	Vani	Vani
14.	K. R. Yellu Kumar	PVKKIT	Yellu	Yellu	Yellu	Yellu	Yellu
15.	S. Pranavi	PVKKIT	P	P	P	P	P
16.	A. Sangappa	PVKKIT	Sangappa	Sangappa	Sangappa	Sangappa	Sangappa
17.	B. Bhargava	PVKKIT	Bhargava	Bhargava	Bhargava	Bhargava	Bhargava
18.	V. Manunatha Reddy	PVKKIT	M	M	M	M	M
19.	K Suresh	PVKKIT	K Suresh	K Suresh	K Suresh	K Suresh	K Suresh
20.	V. Siddalingappa	PVKKIT	V	V	V	V	V

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21.	Karthikeyan Nadadur	PVKKIT	NK	NK	NK	NK	NK
22.	A. Harinath	ALTS	Harinath	Harinath	Harinath	Harinath	Harinath
23.	M. Anil Kumar	ALTS	Anil	Anil	Anil	Anil	Anil
24.	B. Gopal	SRIT	Gopal	Gopal	Gopal	Gopal	Gopal
25.	B. Subba Reddy	SRIT	Subba	Subba	Subba	Subba	Subba
26.	M. Peeru Naik	SRIT	Peeru	Peeru	Peeru	Peeru	Peeru
27.	G Chandra Sekhar	GATE	Chandra	Chandra	Chandra	Chandra	Chandra
28.	B. Ramanjineyulu	GATE	Ram	Ram	Ram	Ram	Ram
29.	C. Subhahan Basha	GATE	C.S.B.	C.S.B.	C.S.B.	C.S.B.	C.S.B.

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Date: 06-04-2023

Faculty Development Program on Mechanical Design Optimization with CAD/CAE tools

Event Feedback Analysis

S.No	Particulars	Excellent	Very Good	Good	Fair	Poor	Points
1	Q1: How was the overall organization of the event?	18	6	4	1	0	8.83
2	Q2: How relevant was the content discussed by the speaker?	18	7	3	1	0	8.90
3	Q3: Did the event covers what you were expecting?	19	5	3	2	0	8.83
4	Q4: How much this session/event useful from the knowledge and information point of view	19	5	4	1	0	8.90
5	Q5: Overall effectiveness of the lecture/ workshop /event	19	6	2	1	1	8.83
	Total	93	29	16	6	1	8.86
	Grand total	145					


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Certificate of Participation

This is to Certify that

Mr/Ms. N. Sreenivasulu, PvkKIT, Anantapur.

Has successfully participated in the Faculty Development Program on Mechanical Design Optimization with CAD/CAE tools held from 2nd April 2023 to 6th April 2023 Organized by the Department of Mechanical Engineering.

We hereby extend our congratulations and best wishes for your future endeavors in the field of Mechanical Engineering and Mechanical Design Optimization with CAD/CAE tool.

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Certificate of Participation

This is to Certify that

Mr/Ms. T. Obulesu, PVKKIT, Anantapur

*Has successfully participated in the Faculty Development Program on
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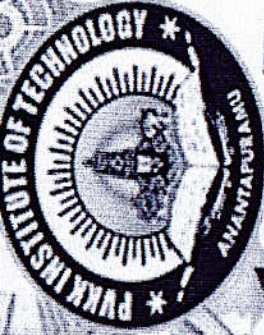
This is to Certify that
G. Chandra Sekhar, GATE, Gooty.
*Has successfully participated in the Faculty Development Program on
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Mechanical Engineering.*

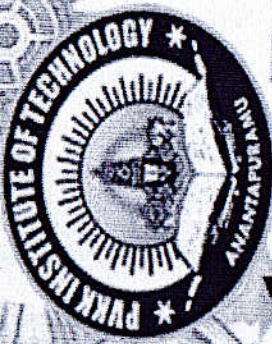
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Mr/Ms. _____

B. Gopal, S.RIT, Anantapur.

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Certificate of Participation

This is to Certify that

Mr/Ms. A. Harinath, ALTs. Anantapur

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