

Swami Keshvanand Institute of Technology, Management &
Gramothan, Jaipur
Department of Mechanical Engineering

Title of Event: AICTE Sponsored Short Term Training Program on *CAD-CAM and Advanced Manufacturing*

Objectives: The programme had the prime objective of helping the faculties to act as expert for fulfilling the bridge between the industry and academic institutions. Some other specific objectives which were targeted in this STTP were:

- To provide a bridge between the industry and academic institutions to update their knowledge.
- To give exposure of various imaginative techniques of CAD, CAM, CNC and advanced machining.
- To give hands-on training to faculty and industry persons on design software, CNC and advanced machines.
- To provide an opportunity for the participants to interact and learn from experts having experience in CAD, CAM and advanced machining.
- To generate awareness about the vast applications and opportunities of CAD, CAM and advanced machining in the industry as well as in research by means of relevant case studies

Programme Highlights

- **Number of participants:** In all 86 participants attended the STTP programme. There were 46 participants from all parts of the country namely Rajasthan, Karnataka, etc. 40 faculty members from MED have also attended the STTP.
- **Resource Persons:** Following were the key resource persons in this programme:

S. No.	Name of Faculty	Designation	Organization
1	Dr. Meghanshu Vashista	Associate Professor	IIT BHU
2	Prof. Avanish Kumar Dubey	Professor	MNNIT Allahabad
3	Dr. Joy Prakash Misra	Assistant Professor	NIT Kurukshetra
4	Dr. Harlal Singh Mali	Associate Professor	MNIT, Jaipur
5	Dr. Amit Kumar Singh	Assistant Professor	MNIT, Jaipur
6	Mr. Mukesh Sharma	Technical Head	CADD Centre, Jaipur
7	Dr. Dheeraj Joshi	Associate Professor	SKIT, Jaipur
8	Dr. Manu Augustine	Professor	SKIT, Jaipur

9	Dr.AchinSrivastav	Associate Professor	SKIT, Jaipur
10	Mr. Ajay Dhanopia	Associate Professor	SKIT, Jaipur
11	Mr.VinayMarwal	Associate Professor	SKIT, Jaipur
12	Mr. Praveen Saraswat	Associate Professor	SKIT, Jaipur
13	Mr.Arun Beniwal	Assistant Professor	SKIT, Jaipur

- **Session Details**

There were various input-cum discussion sessions in this programme along with various innovative training-learning strategies, methods & media. There were 16 expert lectures and practical sessions with one field visit are also planned for practical exposure of advanced manufacturing. Details of the schedule are mentioned below:

**AICTE Sponsored STTP on
CAD-CAM and Advanced Manufacturing
(02nd March-07th March, 2020)
Schedule**

Registration: 02/03/2020, 8-9 am (Sir M. Visvesvaraya Block (Gyan Mandir Auditorium)
STTP Lecture Venue: Meghnad Saha Seminar Hall, ME Deptt.

Time Date	9:30 -11:00 am	11:00-11:30 am	11:30 am-01:00 pm	1:00- 2:00 pm	2:00- 3:30 pm	3:30- 4:00 pm
02/03/2020 (Monday)	Inauguration (Venue: Gyan Mandir Auditorium) (9-11 am)	Tea Break (Venue: In front of Meghnad Saha seminar hall)	High Efficient Super Abrasive Machining (Prof. Meghanshu Vashista, IIT BHU)	Lunch (Venue: SKIT Mess)	CAD/CAM and Advanced Manufacturing Technologies for Jaipur Foot (Dr. Harlal Singh Mali, MNIT Jaipur)	Tea (Venue: In front of Meghnad Saha seminar hall)
03/03/2020 (Tuesday)	Advance Quality Control in Manufacturing (Prof. Meghanshu Vashista, IIT BHU)		Topic: Recent Trends in RUSM (By: Dr. Dheeraj Joshi, HoD, ME/ Mr. Praveen Saraswat, SKIT Jaipur)		Practical Session on CAM Software (Dr. Achin Srivastav,/ Mr. Praveen Saraswat,SKIT Jaipur)	
04/03/2020 (Wednesday)	Topic: CAD and its Applications in Biomedical Engineering (Dr. Amit Singh, MNIT Jaipur)		Practical Session on Creo Software (Mr. Mukesh Sharma CADD Centre, Jaipur/Mr. Ajay Dhanopia, SKIT)		CAD using Ansys Software (Dr. Manu Augustine/Mr. Arun Beniwal, SKIT Jaipur)	
05/03/2020 (Thursday)	Topic: Recents Research in Hybrid Machining Processes (Dr. J P Misra, NIT Kurukshetra)		Topic: Machining and Finishing Micro-features by Hybrid Machining Processes (Dr. Harlal S. Mali, MNIT Jaipur)		Topic: Electro Discharge Coating (Dr. J P Misra, NIT Kurukshetra)	
06/03/2020 (Friday)	BSDU LAB, Jaipur Visit (Instructor: Mr. Vinay Singh Marwal/Mr.		BSDU LAB, Jaipur Visit (Instructor: Mr. Vinay Singh Marwal/Mr. Praveen Saraswat SKIT Jaipur)		Topic: Hybrid Machining (Prof. Avanish Dubey, MNNIT Allahabad)	

	Praveen Saraswat, SKIT Jaipur)				
07/03/2020 (Saturday)	Topic: Laser Manufacturing (Prof. Avanish Dubey, MNNIT Allahabad)		Topic: Applications of 3D Printing in Bio-Medical (Dr. Amit Singh, MNIT Jaipur)		Valedictory Session



Organizing Committee

Course Coordinator

Dr. Manoj Kumar Sain
Associate Professor
Department of Mechanical Engineering

Co-Coordinators

Mr. Praveen Saraswat Mr. Vinay S. Marwal
Associate Professor Associate Professor
Mob: 9785018458 Mob. 9829368210

Members

Mr. Brij Mohan Sharma, Assistant Professor
Mr. Dinesh Kumar Sharma, Assistant Professor
Ms. Monika Khurana, Assistant Professor
Mr. Chandan Kumar, Assistant Professor
Mr. Pramod Jain, Assistant Professor
Mr. Arun Beniwal, Assistant Professor
Mr. Sandeep Kr. Bhaskar, Assistant Professor
Mr. Sudesh Garg, Assistant Professor

Contact Details:

Dr. Manoj Kumar Sain (Coordinator)
Mob. 9929289630
Ph. No. 0141-5160400 (Ext: 252)



Department of Mechanical Engineering

The department started academic activities in the year 2003-04 with the admission of its first batch of under-graduates. The Department offers B.Tech in Mechanical Engg. and M.Tech in Production Engg. and Renewable Energy Technology courses. The department has modern laboratories developed and designed from the perspective of the latest requirements of academia. Consistent pursuit of excellence by the department is clearly reflected in the fact that the department has been accredited three times by National Board of Accreditation (NBA) (India).

About SKIT

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) is a selective comprehensive institution offering undergraduate and postgraduate programmes in Engineering and Management. The institute was established in the year 2000 by a team of committed professionals and academicians. During all the past years SKIT has emerged as a Premier Centre of Technical Education not only in Rajasthan but also in northern India which has been realized through efficient and dedicated faculty members, innovative teaching-learning methods, state of art infrastructure and core value of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA).

About Jaipur

The world famous 'PINK CITY', the capital of the Rajasthan state founded in 1727 AD by Sawai Jai Singh II is one of the most popular tourist destinations. It has a rich culture heritage and many important historical places viz. Amber Fort, Jaigarh Fort, Nahargarh Fort, City Palace, Albert Hall Museum, Jantar-Mantar, Govind-Dev Ji Temple, and Birla Mandir. Jaipur is also famous for its handloom & handicraft, and proves a heaven for shopping and enjoyment. This fascinating city with its romantic charm takes you to an epoch of royalty and tradition.

Short Term Training Programme on CAD-CAM and Advanced Manufacturing

(02nd March-07th March, 2020)

Organized by



Department of Mechanical Engineering
(NBA Accredited)

Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur – 302017

Website: www.skit.ac.in

Course Coordinator

Dr. Manoj Kumar Sain
Associate Professor
Department of Mechanical Engineering

Sponsored By



All India Council for Technical Education, New Delhi

About the Programme

Modern machine tools like CNC, design software and advanced machining are highly relevant and important in the present technical scenario owing to their vast applications in design and manufacturing of modern structures and machines. Undoubtedly, CAD, CAM and advanced machining applications has become a necessary subject for Mechanical Engineering students as well as for researchers.

This programme is designed to provide comprehensive understanding of CAD, CAM and advanced machining techniques to faculty and industry persons. The participant will be trained with hands-on approach in order to have an in-depth insight into the CAD-CAM software, advanced machining processes.

Programme Objectives

- To provide a bridge between the industry and academic institutions to update their knowledge.
- To give exposure of various imaginative techniques of CAD, CAM, CNC and advanced machining.
- To give hands-on training to faculty and industry persons on design software, CNC and advanced machines.
- To provide an opportunity for the participants to interact and learn from experts having experience in CAD, CAM and advanced machining.
- To generate awareness about the vast applications an opportunities of CAD, CAM and advanced machining in the industry as well as in research by means of relevant case studies.

The Topics to be Covered

- Introduction to CAD, CAM and Advanced Machining.
- Modeling and analysis on design software.
- Fundamentals of CNC Programming
- Hand-on experience on CAM software.
- Fundamentals of 3D printing.
- Demonstration of 3D printing.
- Basics of advanced machining processes.
- Practical exposure to advanced machining processes.

Resource Persons

Resource Person (s) will be experienced faculty Members from IITs, NITs, SKIT Jaipur and other renowned institutions and industries.

Eligibility

Faculty members working in AICTE approved Institutions / Colleges and industry persons are eligible for the programme.

Transport, Boarding & Lodging

TA to out-station participants (Max. by AC 3-tier by shortest train route) on the production of copy of ticket(s) will be provided. The boarding and lodging facility will be provided to the participants who are from outside Jaipur.

Registration Fee

There is no registration fee for the programme. Participants are required to e-mail a scanned copy of filled registration form at manoj.sain@skit.ac.in

A hard copy of duly filled registration form is also required to be sent on the following address:
Coordinator, STTP-2020
Department of Mechanical Engineering,
Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Ramnagar, Jagatpura, Jaipur-302017

Selection

The number of participants is limited to 50 and participants will be selected on the first-come, first-served basis. The selected candidates will be intimated through e-mail only.

How to Apply

Application in the attached format should reach to the Course Coordinator on or before 25th February, 2020. For early confirmation, please mail the scanned copy of filled registration form as early as possible.

Certificate

Certificates to the participants will be issued on successful completion of the Short Term Training Programme.

Key dates

Last Date for Receipt of Application: 25th February, 2020.
Intimation of Selection: Within two days of Application.
Commencement of the Programme: 02nd March, 2020.

Registration Form

STTP on CAD-CAM and Advanced Manufacturing

(02nd March-07th March, 2020)

- Name.....
- Designation.....
- Qualifications.....
- Department.....
- Organization.....
- Mobile.....
- E-mail.....
- Accommodation Required (Yes/No).....

Signature of Applicant

Endorsement from the Head of the Institution/Dept.

Prof./Dr./Mr./Ms.....
Department.....

is allowed to attend the STTP on "CAD-CAM and Advanced Manufacturing" during 02nd March to 07th March, 2020 at SKIT, Jaipur.

Signature Head of the Institution/Dept.

Date:(Seal)

**AICTE Sponsored Short Term Training Programme on
CAD-CAM and Advanced Manufacturing
(March 02-07, 2020)**

List of Participants

S N o	Name of Participant	Designation	Institute
1	Rajendra Kumar Verma	Asst. Prof.	JIT, Jaipur
2	Kedar Narayan Bairwa	Asso. Prof.	RCERT, Sitapura, Jaipur
3	Kushal Veer Singh	Asst. Prof.	RCERT, Sitapura, Jaipur
4	Raj Kumar Goswami	Asso. Prof.	RCERT, Sitapura, Jaipur
5	Mahendra Singh Rajpoot	Asst. Prof.	Shree Digamber Institute of Technology, Dausa
6	Satish Jangid	Asst. Prof.	Shree Digamber Institute of Technology, Dausa
7	Kovid Goyal	Lecturer	Government polytechnic College, Shriganganagar
8	Lalit Kumar Sharma	Asst. Prof.	JECRC, Jaipur
9	Pranay Tak	Asst. Prof.	Stani Memorial College of Engg. & Tech. Jaipur
10	Satendra Singh	Asst. Prof.	VIT East, Jaipur
11	Vishal Sharma	Asst. Prof.	VIT East, Jaipur
12	Prof. B. K. Garg	Professor	Kautilya Institute of Technology and Engineering, Jaipur
13	Arun Kumar Saini	Asst. Prof.	Kautilya Institute of Technology and Engineering, Jaipur
14	Anurag Tiwari	Asst. Prof.	Kautilya Institute of Technology and Engineering, Jaipur
15	Pooran Mal Yadav	Asst. Prof.	Arya College of Engineering & Tech., Jaipur
16	Sanjay Manghnani	Asst. Prof.	Arya College of Engineering & Tech., Jaipur
17	Dileep Kumar	Asst. Prof.	Mahaveer Institute of Technology & Science, Pali
18	Sharath K.C.	Asst. Prof.	SDM Institute of Technology, Ujire, Karnataka
19	Gaurav Nama	Asst. Prof.	VIT East, Jaipur

20	Naval Kishore Jain	Asst. Prof.	Poomima College of Engineering, Jaipur
21	Buddhi Prakash Panwar	Asst. Prof.	Poomima College of Engineering, Jaipur
22	Trivendra Kumar Sharma	Asst. Prof.	SKIT, Jaipur
23	Dr. Achin Srivastav	Asso. Prof.	SKIT, Jaipur
24	Pankaj Sharma	Asst. Prof.	JNIT Jaipur
25	Kunal Sharma	Asst. Prof.	JNIT Jaipur
26	Aditya Gautam	Asst. Prof.	Rajdhani Engineering College, Jaipur
27	Naween Kumar Jha	Asst. Prof.	GIT Jaipur
28	Ghanshyam Mishra	Asst. Prof.	GIT Jaipur
29	Lokesh Sharma	Asst. Prof.	LIET, Alwar
30	Hitesh Khandelwal	Asst. Prof.	LIET, Alwar
31	Ajay Kumar	Asst. Prof.	LIET, Alwar
32	Arvind Meena	Asst. Prof.	NSUT, New Delhi
33	Sanjay Choudhay	Asst. Prof.	VIT, Jaipur
34	Sunil Kumar Jakhar	Asst. Prof.	VIT, Jaipur
35	Rakesh Kumar	Asst. Prof.	JNIT, Jaipur
36	Ravi Prakash Sharma	Asst. Prof.	Anand International College of Engineering, Jaipur
37	Anil Chaudhary	Asst. Prof.	GIT Jaipur
38	Jitendra Sen	O & M Manager	TVM Power Solar Pvt Ltd., Jaipur
39	Anandi Lal Kumawat	Technical Head	Gustora Food Pvt. Ltd., Jaipur
40	Akshay Agrawal	Mechanical Engineer	Gustora Food Pvt. Ltd., Jaipur
41	Deepak Agrawal	Asst. Prof.	Sri Balaji College of Engineering and Technology, Jaipur
42	Jaiprakash Bhamniya	Asst. Prof.	Sri Balaji College of Engineering and Technology, Jaipur
43	Ravi Yadav	Asst. Prof.	JECRC, Jaipur

44	Tej Bahadur Singh	Asst. Prof.	JECRC, Jaipur
45	Rohit Kumar Sharma	Asst. Prof.	JIT, Jaipur
46	Sushil Kumar	Shift Engineer	ARL Infratech Ltd., Jaipur
47	Dr. Dheeraj Joshi	Assoc. Prof.	SKIT, Jaipur
48	Dr. Vikash Gautam	Assoc. Prof.	SKIT, Jaipur
49	Mr. Dharmendra Hariyani	Assoc. Prof.	SKIT, Jaipur
50	Dr. Ashish Nayyar	Professor	SKIT, Jaipur
51	Dr. Manu Augustine	Professor	SKIT, Jaipur
52	Mr. Amit Bansal	Assoc. Prof.	SKIT, Jaipur
53	Dr. Achin Srivastav	Assoc. Prof.	SKIT, Jaipur
54	Mr. Ajay Kumar Dhanopia	Assoc. Prof.	SKIT, Jaipur
55	Mr. Ankit Agarwal	Assoc. Prof.	SKIT, Jaipur
56	Dr. Deepak Kumar	Assoc. Prof.	SKIT, Jaipur
57	Dr. Manoj Kr. Sain	Assoc. Prof.	SKIT, Jaipur
58	Mr. Praveen Saraswat	Assoc. Prof.	SKIT, Jaipur
59	Dr. Prem Singh	Assoc. Prof.	SKIT, Jaipur
60	Mr. Sushil Surana	Assoc. Prof.	SKIT, Jaipur
61	Mr. Vinay Singh Marwal	Assoc. Prof.	SKIT, Jaipur
62	Mr. Arun Beniwal	Asst. Prof.	SKIT, Jaipur
63	Mr. Chandan Kumar	Asst. Prof.	SKIT, Jaipur
64	Mr. Naveen Kumar Sain	Asst. Prof.	SKIT, Jaipur
65	Mr. Nikhil Sharma	Asst. Prof.	SKIT, Jaipur
66	Mr. Sandeep Kr. Bhaskar	Asst. Prof.	SKIT, Jaipur
67	Mr. Sudesh Garg	Asst. Prof.	SKIT, Jaipur
68	Mr. Trivendra Kr. Sharma	Asst. Prof.	SKIT, Jaipur
69	Mr. Nitin Goyal	Asst. Prof.	SKIT, Jaipur
70	Mr. Chandra Mohan Kumar	Asst. Prof.	SKIT, Jaipur
71	Ms. Monika Khurana	Asst. Prof.	SKIT, Jaipur
72	Mr. Pramod Jain	Asst. Prof.	SKIT, Jaipur
73	Mr. Sanjay Bairwa	Asst. Prof.	SKIT, Jaipur
74	Mr. Monu Gupta	Asst. Prof.	SKIT, Jaipur
75	Mr. Saurabh Gupta	Asst. Prof.	SKIT, Jaipur
76	Mr. Sunil Kumar	Asst. Prof.	SKIT, Jaipur
77	Mr. Yogesh K Sharma	Asst. Prof.	SKIT, Jaipur
78	Mr. Madhukar Kumar	Asst. Prof.	SKIT, Jaipur
79	Mr. Manoj Kumar Saini	Asst. Prof.	SKIT, Jaipur
80	Mr. Vishnu Jangid	Asst. Prof.	SKIT, Jaipur
81	Mr. Suhaib Ansari	Asst. Prof.	SKIT, Jaipur

82	Mr. Jitendra Kumar	Asst. Prof.	SKIT, Jaipur
83	Mr. Ankur Singhal	Asst. Prof.	SKIT, Jaipur
84	Mr. Suresh Choudhary	Asst. Prof.	SKIT, Jaipur
85	Mr. Sanjay Choudhary	Asst. Prof.	SKIT, Jaipur
86	Ms. Sumita	Asst. Prof.	SKIT, Jaipur