

**Swami Keshvanand Institute of Technology,
Management & Gramothan**
Ramnagar (Jagatpura) Jaipur-17



ASME Student Section SKIT



Annual Report 2022-23

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Index

Sr. No.	Event Title	Type of Event	Expert Deatails	In Association with	Event Dates
1.	Student Development Program (SDP) on Scilab	Online SDP	Spoken Tutorial videos delivered by Experts, IIT Bombay	In collaboration with Spoken Tutorials, IIT Bombay	3-7 Oct., 2022
2.	Student Design Competition	PRAVAH Event	Mr. Ravi Sharma Diroctor, Cademate Jaipur	Cademate Jaipur & Habilelabs Jaipur	20-04-2023

1. Student Development Program (SDP) on Scilab

1. Approval Letter of the event



**SWAMI KESHAVAND INSTITUTE OF TECHNOLOGY, MANAGEMENT
AND GRAMOTHAN, JAIPUR**

ASME STUDENT SECTION SKIT

SKIT_ASME/2022 DATE: 25/09/2022

NOTICE

"One Week SDP (Virtual) on Scilab"

This is to inform that Spoken Tutorial, IIT Bombay and Department of Mechanical Engineering & ASME Student section, SKIT Jaipur is organizing a Student Development Program on "Scilab" from 03rd – 07th October, 2022.

There will be no live sessions online. This program is a self-paced, self-learn type of SDP wherein the students will learn on their own by viewing the video lectures available on the spoken tutorial portal.

Event Details:

Venue: Spoken Tutorial Portal


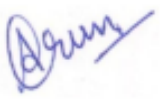
Date: 03rd – 07th October, 2022.

Interested students can fill the online form or scan the QR code for registration.

For SKIT Students (Free): <https://forms.gle/4ZJPgCrc2ZPP2aNP9>

For Others (₹ 236): <http://surl.li/ddcdw>

In case of any query, please contact:

<p>Mr. Arun Beniwal Faculty Coordinator (9887102200)</p> 	<p>Arshdeep Singh Student Coordinator (70734 68660)</p> 
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2. Event brochure

PATRONS	REGISTRATION FORM	One Week Online SDP (Student Development Program)
Shri Raja Ram Meel, Patron, SKIT Shri Surja Ram Meel, Chairman, SKIT	To join this SDP you are requested to register your name by clicking the following registration link:	on
ADVISORS	For SKIT Students:	Scilab
Shri Jaipal Meel, Director, SKIT Prof. S.L. Surana, Director (Academics), SKIT Mrs. Rachna Meel, Registrar, SKIT Prof. Ramesh Kumar Pachar, Principal, SKIT Mrs. Abba Meel, Adviser, SKIT Prof. (Dr.) R.K. Jain, Dean, SKIT Prof. (Dr.) Anil Choudhary, HOD (IT), SKIT Prof. (Dr.) Mukesh Gupta, HOD (CSE), SKIT Prof. (Dr.) Dheeraj Joshi, HOD (ME), SKIT Prof. (Dr.) Mukesh Arora, HOD (ECE), SKIT Prof. (Dr.) Ona Ladiwal, HOD (DMS), SKIT Prof. (Dr.) D.K. Sharma, HOD (CE), SKIT Dr. Sarfaraz Nawaz, Head (EE), SKIT Prof. (Dr.) Rohit Mukherjee, Incharge, B.Tech.I Year, SKIT Prof. (Dr.) Amber Shrivastava, Head (Maths), SKIT Dr. Sharda Soni, Head (Chemistry), SKIT Prof. (Dr.) Brajraj Sharma, Head (Physics), SKIT Prof. (Dr.) Neha Purohit, Head (English), SKIT Ms. Nidhi Srivastav, Associate Professor, CSE Dept., SKIT	https://forms.gle/42JPpCrc2ZPP2aNP9	3 rd - 7 th October, 2022
	For Others:	Jointly Organized By:
	http://surl.li/ddcdw	Spoken Tutorial, IIT Bombay
	Note:	
	<ul style="list-style-type: none"> ✓ SDP will be conducted online through Spoken Tutorial portal. ✓ The registration for the SDP is on first come first serve basis. ✓ Participation Certificate will be provided by the Spoken Tutorial team after completion of SDP. Course Completion Certificate will also be provided to the participants who score more than 40% in certification exam. 	Spoken Tutorials
	For any query:	&
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STUDENT COORDINATOR		
Arshdeep Singh Kalsi, V Sem ME, SKIT		Swami Keshvanand Institute of Technology, Management & Gramothan, Ramnagar, Jagatpura, Jaipur - 302017 Website: www.skit.ac.in
ORGANIZING COMMITTEE		
Department of Mechanical Engineering & ASME Student Section SKIT Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur, Rajasthan, India-302017		

ABOUT PROGRAM	ABOUT SPOKEN TUTORIAL, IIT BOMBAY	DEPARTMENT OF MECHANICAL ENGINEERING
This program intends to introduce basics of Scilab and its applications. Scilab is a general-purpose programming platform, and is used in almost all fields like Signal processing, statistical analysis, image enhancement, fluid dynamics, simulations, numerical optimization and modeling, simulation of explicit and implicit dynamical systems etc. Moreover, presently, Scilab is one of the most widely used alternatives to MATLAB. This course will help the learners to get a good practical exposure to the basics of Scilab.	A project of the National Mission on Education through ICT funded by the Ministry of Education (MHRD), Govt. of India. Spoken Tutorial is a multi-award-winning educational content portal. Here one can learn various Free and Open-Source Software all by oneself. It has self-paced, multi-lingual courses that anybody with a computer and a desire for learning, can learn from any place, at any time and in a language of their choice. All the content published on their website are shared under the CC BY SA license.	The Department of Mechanical Engineering at SKIT was established in the year 2003 with an annual intake of 60 students in the B.Tech. program. Presently the department is running the B.Tech. program with an intake of 60 students and M.Tech. programs in Renewable Energy Technology with intakes of 18. Department is also a recognized Ph.D. Research Centre of RTU. The B.Tech. program of the department has been accredited three times by the National Board of Accreditation (NBA). Being the mother branch of all engineering courses, the branch of Mechanical Engineering incorporates valuable contributions for achieving solutions to the emerging challenges in industry and varied sectors of engineering education. The Department of Mechanical Engineering at SKIT has a potent realization of the fact and thus continuously sets in motion sincere efforts to bring in quality change in the related areas. These efforts have started yielding results as our students with the active support of the faculty have been successful in developing highly perceptive and professional careers.
OBJECTIVES OF THE SDP	ABOUT SKIT JAIPUR	TARGETED AUDIENCE
<ul style="list-style-type: none"> ➤ To kick-start the learning of Scilab basics as one of the highly sought-after technical know-hows. ➤ To enable student participants to make use of Scilab in their college projects. ➤ To assist participants in building codes for a variety of applications. ➤ To act as a stepping stone for participants aspiring to acquire advanced learning in Scilab and its applications. 	Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been Ranked No. 1 Engineering Institute in Rajasthan by RTU, Kota consecutively for the last five years. SKIT is the only affiliated technical institute in Rajasthan to have earned an A++ grade by NAAC. SKIT is a selective comprehensive institution offering Undergraduate, Postgraduate & Doctorate Programmers 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 Center 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 the art infrastructures and Core Values of Discipline. The various undergraduate programs of the institute are accredited by the National Board of Accreditation (NBA). Located in the Pink City Jaipur, which is a blend of traditional history and modern outlook, SKIT is putting in efforts for making industry-ready engineers and managers through effective Industry - Institute Interface. Apart from University curriculum, SKIT also pursues activities for Research and Development in various fields.	This SDP will be very helpful for participants as it will give knowledge about Scilab that is base of recent trends and technology. The targeted audiences are student members of different organizations.
CONTENTS		REGISTRATION FEE
<ul style="list-style-type: none"> ➤ Scilab: Basics ➤ Vector & Matrix Operations ➤ Conditional Branching & Iteration ➤ Scripts and Functions ➤ Plotting 2D Graph ➤ Xcos Introduction ➤ File Handling & User Define Input and Output ➤ Integration ➤ Solving linear and nonlinear equations ➤ Interpolation ➤ ODE Euler method and Applications ➤ Digital signal processing ➤ Control and Discrete systems ➤ Developing toolboxes for calling C and Python ➤ Interactive Simulations in Xcos using slider ➤ Calling User Defined Functions in Xcos ➤ Simulating a PID controller using Xcos ➤ User-defined variables in Xcos ➤ Loading and saving data in Xcos ➤ Conditional operations in Xcos ➤ Super Blocks in Xcos 		Students of SKIT: No Registration fee Other Students: Rs 236/-
		IMPORTANT DATES
		Registration starts from: 26th September, 2022 Last Date for Online Registration: 1st October, 2022 SDP Dates: 3rd, 7th October, 2022
		

3. Schedule of the event

Date: 03rd – 07th October, 2022.

Venue: Spoken Tutorial Portal

4. List of registered participants with details of affiliating institute (for SKITians, list with enrollment RTU Roll No., Semester, branch etc.) along with their contact' details

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202	TUSHAR VIJAYVARGIA	b200325@skit.ac.in	SKIT Jaipur
203	YASH GOYAL	gyash0404@gmail.com	SKIT Jaipur

5. Details/List of teacher

Sr. No.	Name of Teacher	Branch
1.	Arun Beniwal	Mechanical
2.	Manu Augustine	Mechanical

6. Copy of Certificates E-Certificates (online event) of participants



7. Feedback report from participants and invited guest/speakers

The event got very good feedback from the participants for various sessions. The participants enjoyed the workshop and also learnt several things related to the Scilab and its application like how to use X-cos, mathematical equations solving, etc. The participants shared their views on social platform like Instagram, Facebook, etc. that the SDP was very good and mentors were very good at explanation, they delivered their knowledge about Scilab in such a unique way that it became very interesting. By the end of workshop participants learnt how to use Scilab software, it's various industrial application as well as it's application in engineering and scientific field.

8. Detailed report

“Student Development Program on Scilab” was a one-week student workshop organized by the Spoken Tutorial, IIT Bombay in association with Department of Mechanical Engineering & ASME Student Section SKIT from 3rd to 7th October, 2022. The main objective of this workshop was to train students in scilab, how to use it for computation, its features and vast applications in engineering and scientific field. Workshop comprises of various sessions to be delivered by experts from industry and academia. The workshop was mainly dealing with Scilab software, its basic tools and various applications focusing on the uprising need of computation and algorithm skills in today's industrial sector. Coordinated by Mr. Arun Beniwal (Assistant Professor, ME SKIT) along with various students.

9. Write up expressing objective and outcome of the event

- **Objective:** To make students understand importance and application of Scilab in engineering.
- **Outcome:** After attending the workshop participants were able to understand the importance of Scilab. They were able to understand the vast applications of Scilab in the field of engineering and to use the software properly.

2. Student Design Competition

Name of the event:- Student Design Competition

Date of the event:- 20th April, 2023

Time of the event:- 10:00 AM to 12:00 Noon

Venue of the event:- CAD Lab, Mechanical Block

Level of the event:- Intra-College

EVENT BANNER

SKIT
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STUDENT SECTION

RVAE
2023

Student Design Competition
on
AutoCAD

Venue: CAD Lab, Mechanical Department, SKIT
20/04/2023 from 10:00 AM to 12:00 Noon.

- *Trophy for the winner and runner up.
- *Certificate to all participants

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Scan for Registration

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Footwear Partner

Faculty Coordinator:
Mr. Arun Beniwal
9887102200

Student Coordinator :
Arshdeep Singh Kalsi
7073468660

asme.skit ASME SKIT Jaipur Student Section asmeskit@skit.ac.in

Invited Guest

Mr. Ravi Kumar Swami (Director CADIMATE Jaipur)

He is the Director, CADEMATE Training and Technical Services (opc) Pvt. Ltd.

He was invited as the judge for the student design competition.

Objective Of the Event

The competition aimed to raise student's awareness of CAD designing abilities and potential career opportunities. It also aimed to encourage them to learn CAD software.

Details of the Event

The student design competition was held on 20th April, 2023 at CAD Lab Mechanical block. The competition had two stages.

The first stage involved a 2-D drawing, participants had to create it in AutoCAD within 30 minutes with proper dimensioning. The goal of this stage was to assess the participants knowledge to AutoCAD and their approach to using them. A neutral tone was used to convey the information.

In second stage the participants received a 3D sketch and were instructed to draw it's isometric view in AutoCAD. The purpose of this stage was to assess the participants deeper knowledge of the software and their ability to extract data from the problem as some data was provided indirectly.

Details of Faulty Coordinator

Sr. No.	Name of Teacher	Department
1.	Mr. Arun Beniwal	Mechanical Engineering

Details of Student Coordinators

Sr. No.	Name	University Roll No.	Year	Branch
1.	Arshdeep Singh Kalsi	20ESKME015	3 rd	Mechanical Engineering
2.	Rahul Singh Gurjar	20ESKME073	3 rd	Mechanical Engineering

Details of student participants

Sr. No.	Name	Year	Branch
1.	Kaelin	4 th	Mechanical Engineering
2.	Yogesh Kumar	4 th	Mechanical Engineering
3.	Aditya Soni	3 rd	Mechanical Engineering
4.	Kapil	3 rd	Mechanical Engineering
5.	Mayank Mittal	3 rd	Mechanical Engineering
6.	Abhishek Medatwal	3 rd	Mechanical Engineering
7.	Komal kanwar Korawat	3 rd	Civil Engineering
8.	Nicky Lakhisarani	3 rd	Computer Science Engineering
9.	Harshit Pareek	1 st	Artificial Intelligence
10.	Harsh Shrimal	1 st	ECE

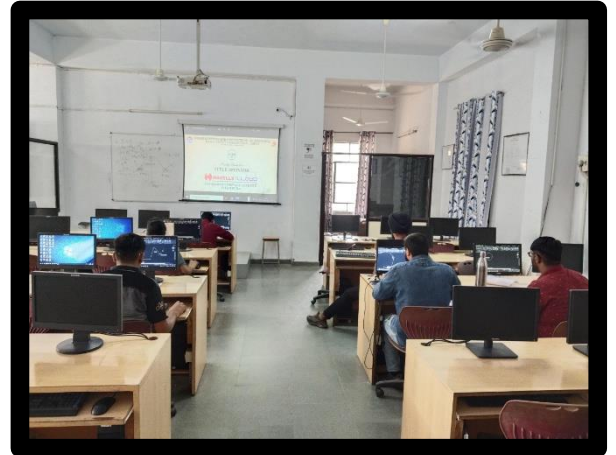
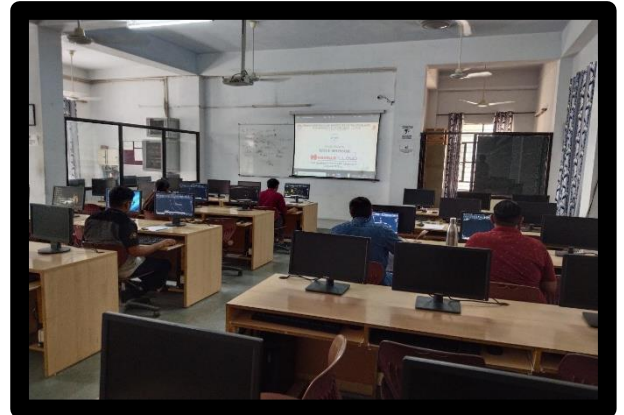
Feedback of the Event

The student Design Competition was held on 20th April, 2023 at CAD Lab, mechanical block. The participants were excited for the competition. At the end of the competition the participants told that the competition was quite interesting. The problem was challenging and it's wasn't that easy at all.

Details of Winners

Sr. No.	Name	University Roll no.	Year	Branch	Position
1.	Kaelin	19ESKME084	4 th	ME	1 st
2.	Mayank Mittal	20ESKME058	3 rd	ME	2 nd

Glimpse of Event



Winner Certificates



Faculty Coordinator

Mr. Arun Beniwal

Student Coordinator

Arshdeep Singh Kalsi