



**REPORT**  
**OF**  
**SHORT TERM TRAINING PROGRAM**  
**ON**  
**MATHEMATICAL SOFTWARES**  
**(STTPMS-2021)**  
**September 13 – 17, 2021**

**Organized by**  
*Department of Mathematics*  
**Swami Keshvanand Institute of Technology, Management and Gramothan,**  
**Jaipur**

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# ADVISORY AND ORGANIZING COMMITTEE

## PATRONS

Shri Raja Ram Meel, Patron, SKIT

Shri Surja Ram Meel, Chairman, SKIT

## ADVISORY COMMITTEE

Mr. Jaipal Meel: Director, SKIT

Prof. (Dr.) S.L. Surana: Director (Academics), SKIT

Mrs. Rachna Meel: Registrar, SKIT

Prof. (Dr.) Ramesh Kumar Pachar: Principal, SKIT

Mrs. Abba Meel: Advisor, SKIT

Prof. (Dr.) Sanjeev Mathur: HOD-MBA, SKIT

Prof. (Dr.) Dheeraj Joshi: HOD-ME, SKIT

Prof. (Dr.) Mukesh Arora: HOD-EC, SKIT

Prof. (Dr.) Mukesh Kumar Gupta: HOD-CS, SKIT

Prof. (Dr.) Anil Choudhary: HOD-IT, SKIT

Prof. (Dr.) D.K. Sharma: HOD-Civil, SKIT

Dr. Dhanraj Chitara: HOD-EE, SKIT

Prof. (Dr.) Rohit Mukherjee: I/C B.Tech. I Year, SKIT

Prof. (Dr.) Amber Srivastava: HOD-Maths, SKIT

Prof. (Dr.) Brajraj Sharma: HOD-Physics, SKIT

Dr. Sharda Soni: HOD-Chemistry, SKIT

Prof. (Dr.) Neha Purohit: HOD-English, SKIT

## CONVENER

Dr. Sangeeta Choudhary, Associate Professor

Dr. Vijay Kumar Singhal, Associate Professor

## ORGANIZING COMMITTEE

Dr. Pramila Kumawat, Professor

Dr. Nawal Kishor Jangid, Associate Professor

Dr. Jyoti Arora, Associate Professor

Dr. Sumit Gupta, Assistant Professor

Mr. Chandra Prakash Jain, Assistant Professor

Mrs. Surbhi Sharma, Assistant Professor

Mrs. Deepika Jain, Assistant Professor

## TECHNICAL COMMITTEE

Dr. Vivek Vijay, Assistant Professor

Dr. Shalini Shekhawat, Assistant Professor

# NOTICE OF THE PROGRAMME



## Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Department of Mathematics

NOTICE

Date:27/08/21

We are pleased to inform you that Department of Mathematics is organizing a five day short term training program on "Mathematical Softwares" from 13th - 17th September, 2021.

- The program will be conducted in online mode via Cisco WebEx platform. Invitation link will be furnished to you prior to the workshop.
- Participants have to register online through the given link:

**<https://forms.gle/sZdgKb9e9z1SdbcA8>**

- The program is open to Faculty members, research scholars and UG, PG students of different universities and recognized institutions.
- Experts from premier institutes are invited as resource persons to deliver sessions on different softwares.
- There is no Registration Fee.
- E-certificate will be provided to the participants who will complete the workshop with more than 80% attendance and submit feedback.

We look forward to your enthusiastic participation.

**For more information contact:**

**Dr. Sangeeta Choudhary**

Mobile: +91 9414455719

**Dr. Vijay Kumar Singhal**

Mobile: +91 9214517850

## POSTER OF THE PROGRAMME



Swami Keshvanand Institute of Technology,  
Management and Gramothan, Jaipur



**FIVE DAY**  
**SHORT TERM TRAINING PROGRAM**  
On  
**MATHEMATICAL SOFTWARES**

13 - 17 September, 2021

### Mentors



**Sh. Surja Ram Meel**  
Chairman  
SKIT, Jaipur



**Sh. Jaipal Meel**  
Director  
SKIT, Jaipur



**Prof.(Dr.) S.L.Surana**  
Director(Acad.)  
SKIT, JAIPUR



**Smt. Rachna Meel**  
Registrar  
SKIT, Jaipur



**Prof.(Dr.) R.K.Pachar**  
Principal  
SKIT, Jaipur

### Resource Persons



**Dr. Ajit Kumar**  
Dept. of Mathematics  
ICT, Mumbai



**Dr. Aditi Gangopadhyay**  
Dept. of Mathematics  
IIT, Roorkee



**Dr. Parthiban V.**  
Dept. of Mathematics  
VIT University, Chennai



**Dr. Kinsuk Giri**  
Dept. of CSE.  
NITTR, Kolkata



**Dr. Surendra Kumar**  
Dept. of Mathematics  
University of Delhi

### Organised by:

**DEPARTMENT OF MATHEMATICS**  
**SKIT, JAIPUR**

### Convener



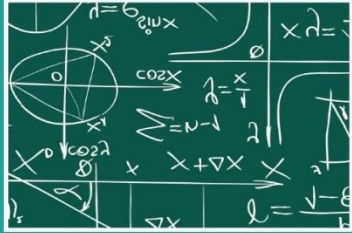
**DR. SANGEETA CHOUDHARY**

**DR. VIJAY KUMAR SINGHAL**

Scan this QR code  
for Registration



# BROCHURE OF THE PROGRAMME

<p style="text-align: center;"><b>PATRONS</b></p> <p>Shri Raja Ram Meel, Patron, SKIT Shri Surja Ram Meel, Chairman, SKIT</p> <p style="text-align: center;"><b>ADVISORY COMMITTEE</b></p> <p>Mr. Jaipal Meel: Director, SKIT Prof. (Dr.) S.L. Surana: Director (Academics), SKIT Mrs. Rachna Meel: Registrar, SKIT Prof. (Dr.) Ramesh Kumar Pachar: Principal, SKIT Mrs. Abba Meel: Advisor, SKIT Prof. (Dr.) Sanjeev Mathur: HOD-MBA, SKIT Prof. (Dr.) Dheeraj Joshi: HOD-ME, SKIT Prof. (Dr.) Mukesh Arora: HOD-EC, SKIT Prof. (Dr.) Mukesh Kumar Gupta: HOD-CS, SKIT Prof. (Dr.) Anil Choudhary: HOD-IT, SKIT Prof. (Dr.) D.K. Sharma: HOD-Civil, SKIT Dr. Dhanraj Chitara: HOD-EE, SKIT Prof. (Dr.) Rohit Mukherjee: I/C B.Tech. I Year, SKIT Prof. (Dr.) Amber Srivastava: HOD-Maths, SKIT Prof. (Dr.) Brajraj Sharma: HOD-Physics, SKIT Dr. Sharda Soni: HOD-Chemistry, SKIT Prof. (Dr.) Neha Purohit: HOD- English, SKIT</p> <p style="text-align: center;"><b>CONVENER</b></p> <p>Dr. Sangeeta Choudhary, Associate Professor Dr. Vijay Kumar Singhal, Associate Professor</p>	<p><b>REGISTRATION</b></p> <p>To register use the following QR code on or before Sep 11, 2021</p>  <p><a href="https://forms.gle/sZdgKb9e9z1SdbcA8">https://forms.gle/sZdgKb9e9z1SdbcA8</a></p> <p style="text-align: center;"><b>NOTE</b></p> <ul style="list-style-type: none"> <li>The STTP will be conducted on Cisco Webex online platform.</li> <li>During registration please join the whatsapp group to receive STTP related information</li> <li>E-Certificate will be issued to the participants having minimum 80% attendance during the sessions and have submitted feedback.</li> </ul> <p style="text-align: center;"><b>CONTACT US</b></p> <p><b>Dr. Sangeeta Choudhary</b> Mobile: 9414455719</p> <p><b>Dr. Vijay Kumar Singhal</b> Mobile: 9214517850 Email: hodmaths@skit.ac.in</p>	<div style="text-align: center;">  <p>Swami Keshvanand Institute of Technology, Management &amp; Gramothan, Jaipur</p> </div> <p style="text-align: center;">Five Day <b>Short Term Training Program</b> on <b>Mathematical Softwares</b></p> <p style="text-align: center;"><b>September 13 - 17, 2021</b></p> <div style="text-align: center;">  </div> <p style="text-align: center;"><b>ORGANIZED BY</b> <b>Department of Mathematics</b> SKIT, Ramnagar, Jagatpura, Jaipur - 302017 +91-141 3500300 <b>Web : www.skit.ac.in</b></p>
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<p style="text-align: center;"><b>ORGANIZING COMMITTEE</b></p> <p>Dr. Pramila Kumawat, Professor Dr. Nawal Kishor Jangid, Associate Professor Dr. Jyoti Arora, Associate Professor Dr. Sumit Gupta, Assistant Professor Mr. Chandra Prakash Jain, Assistant Professor Mrs. Surbhi Sharma, Assistant Professor Mrs. Deepika Jain, Assistant Professor</p> <p style="text-align: center;"><b>TECHNICAL COMMITTEE</b></p> <p>Dr. Vivek Vijay, Assistant Professor Dr. Shalini Shekhawat, Assistant Professor</p> <p style="text-align: center;"><b>STUDENT COMMITTEE</b></p> <p>Deepak Kumar, III Sem, ME Kapil Jangir, III Sem, ME Akshat Gupta, III Sem, CSE Akshat Pareek, III Sem, CSE</p> <p style="text-align: center;"><b>ABOUT SKIT</b></p> <p>Swami Keshvanand Institute of Technology Management &amp; Gramothan (SKIT) has been ranked no. 1 by RTU Kota consecutively for 4 years. SKIT is a selective comprehensive institute offering undergraduate and post graduate programs 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 the art infrastructure and core value of discipline. The various undergraduate programs of the institute are accredited by the National Board of Accreditation(NBA).</p>	<p style="text-align: center;"><b>DEPARTMENT OF MATHEMATICS</b></p> <p>The Department of Mathematics , teaches various topics in Mathematics to undergraduate and post graduate students of different engineering and management courses . In alignment to the vision and mission of the institute, the department has put consistent and dedicated efforts towards achieving excellence in research and teaching. Besides teaching and fulfilling various administrative responsibilities , the faculty members are also actively engaged in quality research in the areas of Applied Mathematics. They also hold memberships of various national academic bodies and societies.</p> <p style="text-align: center;"><b>OBJECTIVES OF STTP</b></p> <p>Software packages for Mathematics facilitate the understanding of concepts in a number of ways which in addition to reducing time complexity, supports the teaching methodologies significantly. There is a wide range of mathematical softwares available worldwide. This program aims to disseminate the knowledge of certain such packages among the teaching fraternity, research scholars and students.</p> <p style="text-align: center;"><b>REGISTRATION FEE</b></p> <p>There is no registration fee.</p> <p style="text-align: center;"><b>TARGET AUDIENCE</b></p> <p>This STTP will be very helpful for faculty members, research scholars and students who are working in various areas of Applied Mathematics.</p>	<p style="text-align: center;"><b>SCHEDULE</b></p> <p style="text-align: center;">Day 1</p> <p style="text-align: center;"><b>Dr. Ajit Kumar</b> Department of Mathematics, ICT, Mumbai. <i>Topic : SAGEMATH for teaching and research</i></p> <p style="text-align: center;">Day 2</p> <p style="text-align: center;"><b>Dr. Aditi Gangopadhyay</b> Department of Mathematics, IIT, Roorkee. <i>Topic: Data analysis and statistical techniques using R</i></p> <p style="text-align: center;">Day 3</p> <p style="text-align: center;"><b>Dr. Parthiban Venugopal</b> Department of Mathematics, VIT University, Chennai <i>Topic : Technology based teaching using Geogebra</i></p> <p style="text-align: center;">Day 4</p> <p style="text-align: center;"><b>Dr. Surendra Kumar</b> Department of Mathematics, University of Delhi. <i>Topic : Latex for Mathematics and research documentation</i></p> <p style="text-align: center;">Day 5</p> <p style="text-align: center;"><b>Dr. Kinsuk Giri</b> Department of CSE, NITTTR, Kolkata <i>Topic : Open source academic softwares and their uses</i></p>
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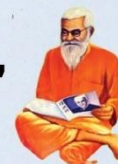
## RESOURCE PERSONS

<b>S.N.</b>	<b>Name of Expert</b>	<b>Institution/Organization</b>
1.	Dr. Ajit Kumar Associate Professor –Head Department of Mathematics Email:a.kumar@ictmumbai.edu.in	Institute of Chemical Technology Mumbai.
2.	Dr. Aditi Gangopadhyay Associate Professor Department of Mathematics Email:aditi.gangopadhyay@ma.iitr.ac.in	IIT, Roorkee
3.	Dr. Parthiban Venugopal Assistant Professor Department of Mathematics Email: parthiban.v@vit.ac.in	VIT University, Chennai
4.	Dr. Surendra Kumar Assistant Professor Department of Mathematics Email: surendraiitr8@gmail.com	University of Delhi
5.	Dr. Kinsuk Giri Assistant Professor Dept. of CSE Email: kinsuk@nittrkol.ac.in	NITTTR, Kolkata

## INAUGURAL INVITATION



**Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jaipur**



**"Short Term Training Program on Mathematical Softwares"**  
**September 13 - 17, 2021**

### ***Invitation for Inaugural Ceremony***

September 13, 2021 at 11:00am

You all are cordially invited to the inaugural ceremony of Short Term Training Program on "Mathematical Softwares" organised by Department of Mathematics, September 13, 2021 at 11:00am

Chief Guest

**Dr. Ajit Kumar**

Head

(Department of Mathematics)

Institute of Chemical Technology,  
Mumbai

Please grace the event with your benign presence during the Inaugural Ceremony by scanning the QR code/opening the link

<https://skitjaipur.webex.com/skitjaipur/onstage/g.php?MTID=e07d3e9b011af3c34132955e8de5258ad>



You are requested to kindly join the event 15 minutes before the schedule time (i.e. at 10:45am)

Event Coordinator

Dr. Sangeeta Choudhary

Dr. Vijay Kumar Singhal

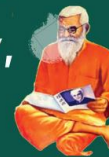
*Please spare some time to grace the event*



# SCHEDULE



Swami Keshvanand Institute of Technology,  
Management and Gramothan, Jaipur



## FIVE DAY SHORT TERM TRAINING PROGRAM On **MATHEMATICAL SOFTWARES**

13 - 17 September, 2021

### SCHEDULE

#### Day 1

13/9/2021

11:00am-1:00pm

#### SAGEMATH for teaching and research

Dr. Ajit Kumar  
Dept. of Mathematics  
ICT, Mumbai



#### Day 2

14/9/2021

10:30am-12:30pm

#### Data analysis and Statistical techniques using R

Dr. Aditi Gangopadhyay  
Dept. of Mathematics  
IIT, Roorkee



#### Day 3

15/9/2021

10:30am-12:30pm

#### Technology based teaching using Geogebra

Dr. Parthiban V.  
Dept. of Mathematics  
VIT University, Chennai



#### Day 4

16/9/2021

12:30pm-2:30pm

#### Latex for Mathematics and research

Dr. Surendra Kumar  
Dept. of Mathematics  
University of Delhi



#### Day 5

17/9/2021

12:30pm-2:30pm

#### Open source academic softwares and their uses

Dr. Kinsuk Giri  
Dept. of CSE.  
NITTTR, Kolkata



ORGANIZED BY  
DEPARTMENT OF MATHEMATICS

## **OBJECTIVE OF THE STTP**

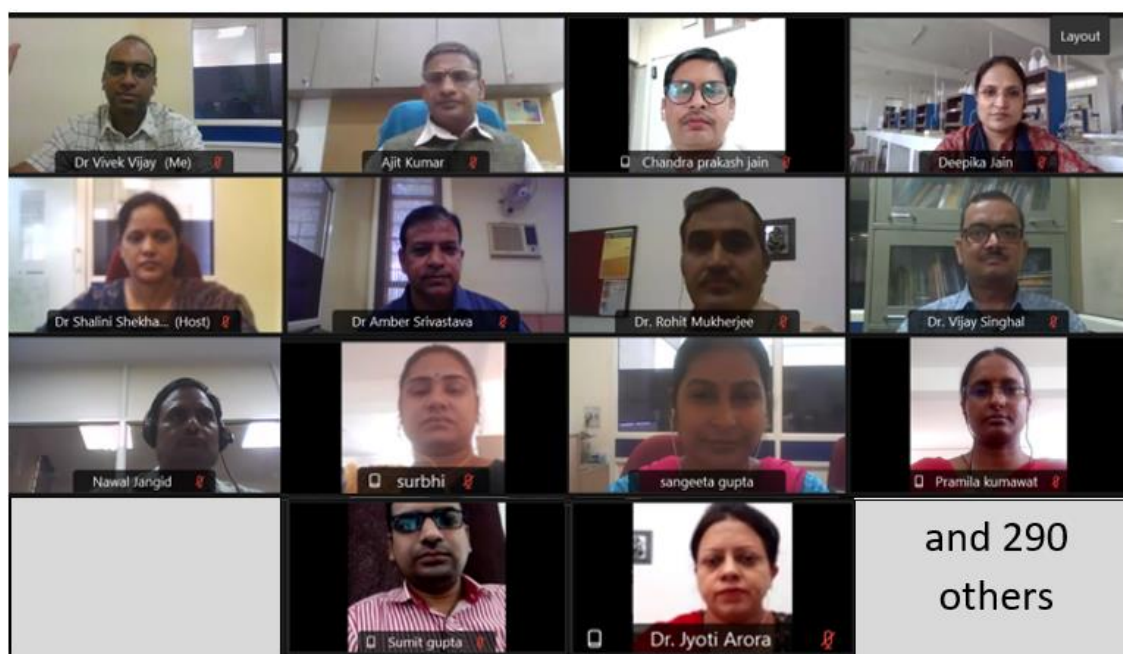
Software packages for Mathematics facilitate the understanding of concepts in a number of ways which in addition to reducing time complexity, supports the teaching methodologies significantly. There is a wide range of mathematical softwares available worldwide. This program aims to disseminate the knowledge of certain such packages among the teaching fraternity, research scholars and students.

## **PROGRAM DETAILS**

The Department of Mathematics, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur organized a five days Short Term Training Program on **“SHORT TERM TRAINING PROGRAM ON MATHEMATICAL SOFTWARES”** during September 13-17,2021. This STTP was funded by the Institute itself and conducted on WebEx online platform.

This five-day STTP comprised five thoughtful informative sessions delivered by the experts from the various reputed institutes. Many faculty members and research scholars from various Indian as well as foreign universities and institutes participated in this STTP.

## INAUGURATION



The STTP was inaugurated on the 13 September 2021 by the Chief Guest **Dr. Ajit Kumar**, Head, Department of Mathematics, Institute of Chemical Technology, Mumbai and Managing Trustee and the Member of the National Core committee of the Mathematics Training and Talent Search (MTTS) and Pedagogical Training Programme for Mathematics Teachers (PTMT). Prof. Amber Srivastava (HOD Mathematics, SKIT) and other members of the department also graced the inaugural session of the programme. Prof. Amber Srivastava welcomed the guests and participants of STTP. Dr. Ajit Kumar emphasized upon the need of application part of mathematics in the field of science and technology and appreciated the new mode of the STTP. The session was moderated by Dr. Sangeeta Choudhary (Associate Professor, Department of Mathematics, SKIT) and Dr. Rohit Mukherjee (Professor, Incharge B.Tech I Year, SKIT) extended vote of thanks to the guests and participants.

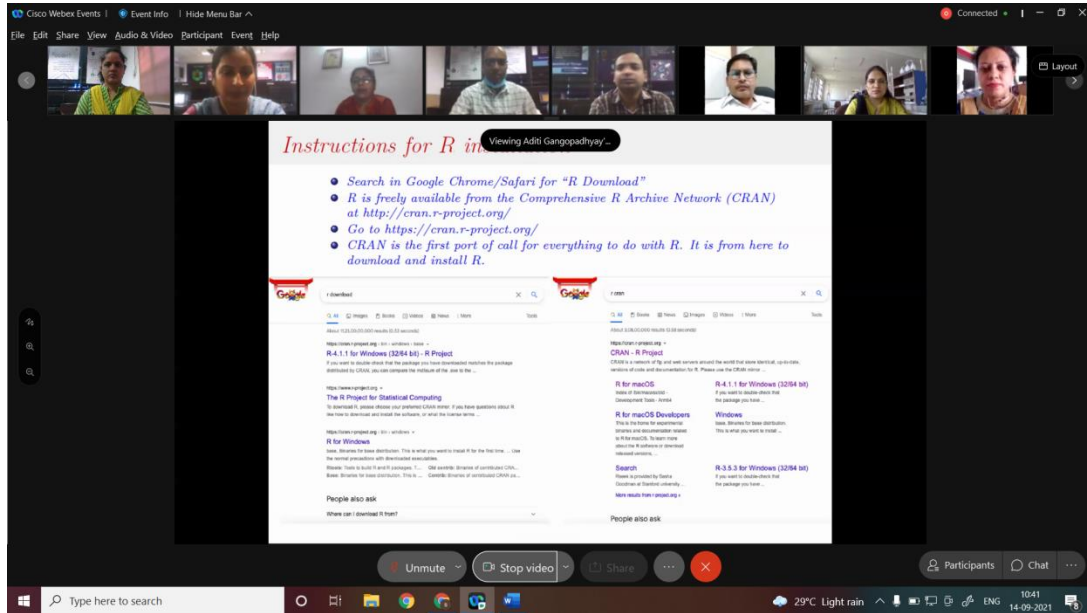
## SESSION 1: (13/09/2021)



In this session Dr. Ajit Kumar delivered his talk on SAGEMATH for teaching and research. He deliberated how to use the software SAGEMATH for Algebraic operations, number theory, finding Maxima Minima, Taylor series expansion of Transcendental functions and use of numerical methods for finding roots of given expression and several other concepts which are indeed thought-provoking. He motivated the audience by its importance and potential for applications in certain problems in number theory, numerical analysis, and other fields of Applied Mathematics.

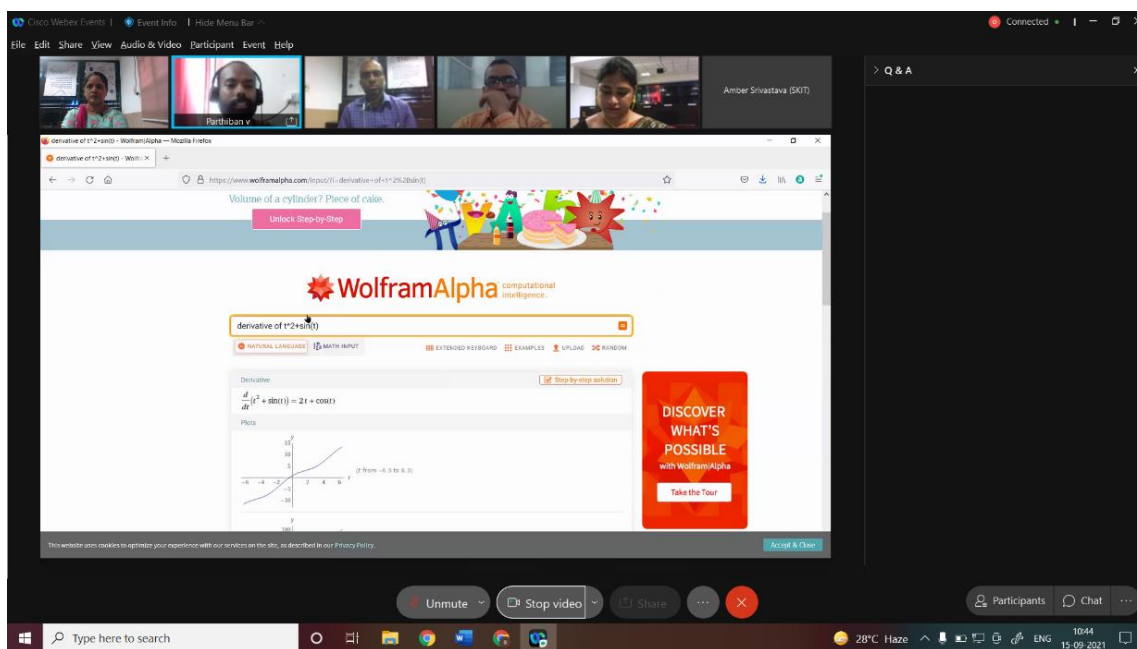
The session was moderated by Dr. Vijay Kumar Singhal (Associate Professor, Department of Mathematics, SKIT) and Dr. Nawal Kishor Jangid (Associate Professor, Department of Mathematics, SKIT) extended vote of thanks to the guests and participants.

## SESSION 2 (14/09/2021)



On second day Prof. Aditi Gangopadhyay, Associate Professor, Department of Mathematics, IIT Roorkee talk about “Data analysis and Statistical techniques using R”. In her talk she explain that the R is a proگرامing interface system for statistical computing and graphics. This software is much often used by the statistician in the development of statistic software’s. It is enable with various packages and modules which are used by the researchers to organize their data in a systematic ways. R is an Interpreted language where we can perform any calculations through command line interpreter at the R command prompt and then press enter we get the results on our screen. The development of the R system for statistical computing is heavily influenced by the open source idea: The base distribution of R and a large number of user contributed extensions are available under the terms of the Free Software Foundation’s GNU General Public License in source code form. The session was moderated by Dr. Sumit Gupta (Assistant Professor, Department of Mathematics, SKIT) and Ms. Deepika Jain (Assistant Professor, Department of Mathematics, SKIT) extended vote of thanks to the speaker and participants.

## SESSION 3 (15/09/2021)



Third day Dr. Parthiban Venugopal Assistant Professor VIT, University Chennai was the invited guest and speaker of the session. He has outlined the introduction of the software Geogebra where many demonstrations can be created to explain various computations using Wolfram Alpha Computational Intelligence tool. He has explained the application platforms of the software for technology based learning involving distinct concepts of mathematics like Differentiation, Integration techniques; Solution of Ordinary, Partial Differential Equations, Computing Eigen values, Eigenvectors, Taylor's series expansion of transcendental functions etc. He has explained almost all features of the software for smooth working within the appropriate syntax of Geogebra by introducing several commands available. He has guided to give the graphical representations of the function within a single click, drawing asymptotes, determining curvature, radius of curvature, osculating circle. Finally at the end of the lecture guidance to download Geogebra Classic Manual was given to collect resources for working in Geogebra Syntax including 3-D graphics. The session was moderated by Dr. Shalini Shekhawat (Assistant Professor, Department of Mathematics, SKIT) and Ms. Surbhi Sharma (Assistant Professor, Department of Mathematics, SKIT) extended vote of thanks to the speaker and participants.

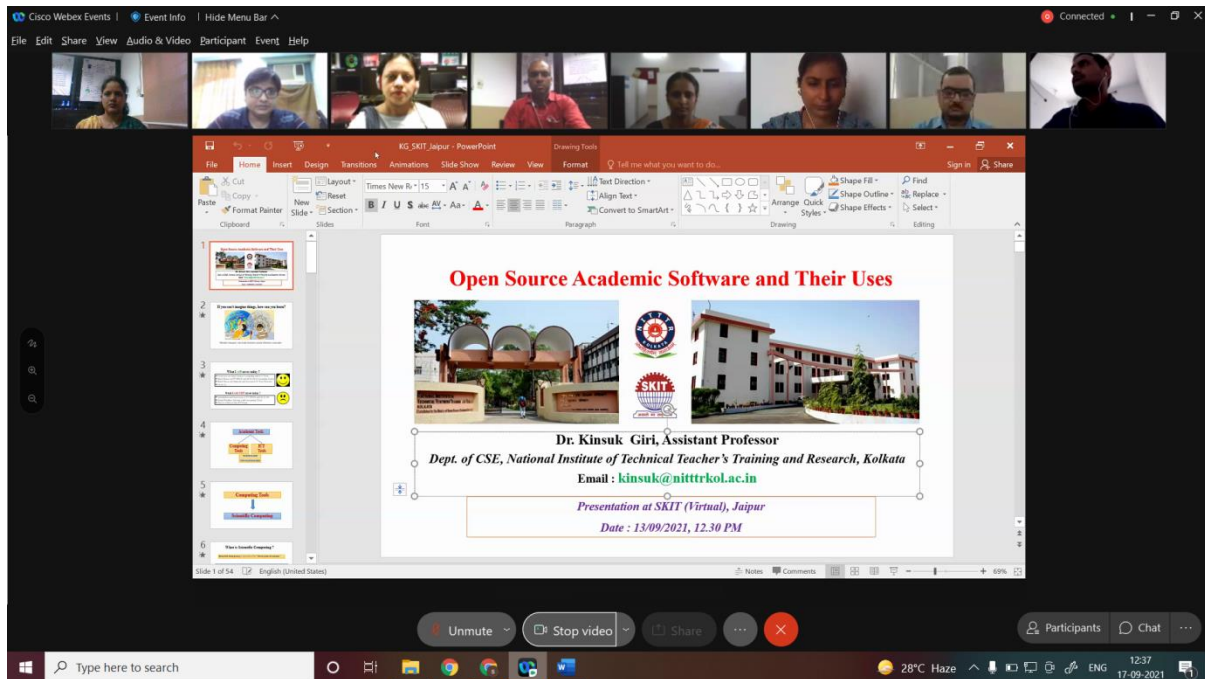
## SESSION 4 (16/09/2021)

The screenshot shows a Cisco Webex meeting interface. At the top, there are navigation tabs: 'Cisco Webex Events', 'Event Info', and 'Hide Menu Bar'. Below this is a menu bar with 'File', 'Edit', 'Share', 'View', 'Audio & Video', 'Participant', 'Event', and 'Help'. The main content area displays a slide titled 'Outline' with three items: '1 What is L<sup>A</sup>T<sub>E</sub>X?', '2 Installation of L<sup>A</sup>T<sub>E</sub>X', and '3 Getting start with L<sup>A</sup>T<sub>E</sub>X'. The slide footer shows 'Dr. S. Kumar (University of Delhi)' and 'Latex for Mathematics'. The top of the screen shows a grid of video thumbnails, including one for 'Surendra Kumar'. The right sidebar shows a 'Participants (46)' list with names like Shalini Shekhawat, Dr. Vivek..., Surendra Kumar, Amber Srivastava (SKIT), Chandra prakash jain, Dr. Jyoti Arora, Dr. Pramila Kumawat, Dr. Rohit Mukherjee, Dr. Sangeeta Choudhary, Dr. Vijay Singhal, SKIT Jaipur S3, and surbhi. The bottom of the screen shows a Windows taskbar with the date '16-09-2021' and time '12:37'.

In the fourth day session Dr. Surendra Kumar, Assistant Professor, Department of mathematics, University of Delhi explained the need of advanced software in teaching and research field. He shared that Latex is the de facto standard for communication and publication of scientific documents and focused on how to use Latex in technical and scientific documentation and mathematical expressions. The session was moderated by Dr. Pramila Kumawat (Professor, Department of Mathematics, SKIT) and Dr. Vivek Vijay (Assistant Professor, Department of Mathematics, SKIT) extended vote of thanks to the speaker and participants.



## SESSION 5 (17/09/2021)



On day five Dr. Kinsuk Giri, Assistant professor, Department of CSE at National Institute of Technical Teachers Training and Research, Kolkata was the invited guest and speaker of the session. He has given an overview on open source computing and ICT tools. He taught about importance of Scientific Computing-development and use of numerical methods and mathematical models to solve real world problems efficiently on computers. He explained Introduction on Python, its versions, supported OS, releasing dates, benefits of Python, Features of Python Cauchy Root Test using Python. Then he taught about Last few releases of SCILAB, its versions, supported OS, releasing dates, benefits of Scilab, different types of problems which can be solved by Scilab, Matlab to Scilab translator. He gave Comparison of Matlab and Scilab Performance. He also illustrated Psychology of using ICT Tools, Technology enabled learning, types of learning, Benefits of TEL, Cloud based learning tools, Few Cloud based Assessment Tools. Finally at the end of the lecture he gave demo on EDpuzzle. The session was moderated by Dr. Jyoti Arora (Associate Professor, Department of Mathematics, SKIT) and Mr. Chandra Prakash Jain (Assistant Professor, Department of Mathematics, SKIT) extended vote of thanks to the guest and participants.

## VALEDICTORY



In the valedictory session, Guest Dr. Kinsuk Giri, NITTTR, Kolkata, Prof. Rohit Mukherjee (Incharge B. Tech. I year, SKIT), Prof. Amber Srivastava (HOD Mathematics, SKIT) and organizers of the event and participants were present. Dr. Kinsuk Giri congratulated the organizing team for successful conduction of this STTP. Prof. Amber Srivastava summarized all the activities conducted in the five days programme. Prof. Rohit Mukherjee proposed vote of thanks to everyone involved in this STTP.

## LIST OF PARTICIPANTS IN STTPMS-2021 ( 13-17 SEP, 2021)

Sr. No.	Participant's Name	Institute's Name:	RegisteredEmail:
1	Mr. AMIN TALHA BADRUL	M. H. SABOO SIDDIK POLYTECHNIC, MUMBAI - 08	amintalhabadrul@gmail.com
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3	Ms A.Kirithika	Mother Teresa women's University research and extension center Chennai	kirithika.85a@gmail.com
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14	Mr. AMIT KUMAR BANSAL	Swami Keshvanand Institute of Technology Management and Gramothan	amit.bansal@skit.ac.in
15	Mr. AMIT KUMAR GOYAL	Vivekanand global University	amit.goyal@vgu.ac.in
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17	Mr. Amit Sitaram Wadile	Dahiwadi College Dahiwadi	aswadile@gmail.com
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19	Ms Ankita Chandola	Amity institute of Applied Sciences Amity University Noida Uttar Pradesh India	achandola95@gmail.com
20	Mr. Ankur Mishra	Swami Keshvanand Institute of Technology Management and Gramothan	ankur.mishra@skit.ac.in
21	Mr. Anup Sarmah	CCCT, CHISOPANI	sarmahanup@gmail.com
22	Ms Aparna V	Auxilium college	aparnavasudevan.v@gmail.com
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251	Mr. Trivendra Kumar Sharma	Swami Keshvanand Institute of Technology Management and Gramothan	trivendra.tara@gmail.com
252	Prof. Umesh kumar pareek	Jaipur Engineering college and Research center. Jaipur	ukpareek.math@jecrc.ac.in
253	Mr. VAIBHAV UPADHYAY	BHILAI INSTITUTE OF TECHNOLOGY DURG CHHATTISGARH	vaibhavupadhyay138@gmail.com
254	Dr. Vandana Popatrao Bhamre	Pratap College Amaler Dist Jalgaon	piyushyogini@gmail.com
255	Ms Vandana S Dharan	Sree Narayana College for Women, Kollam, Kerala	anjanasasidharan2010@gmail.com
256	Ms VARSHA S	Mother Teresa Women's University Research and Extension Centre Chennai	varshasubramani93@gmail.com
257	Mr. VIJAI KUMAR PATHAK	VIT, University, Vellore- 632014, Tamilnadu, India	vijaikumarpathak89@gmail.com
258	Dr. Vijay Kumar Singhal	Swami Keshvanand Institute of Technology Management and Gramothan	vijaysinghal01@gmail.com
259	Dr. Vijay Kumar Tripathi	Directorate of Distance Education	drvijaym1999@gmail.com
260	Dr. Vimala Shanmugavel	Mother Teresa Women's University	tvimss@gmail.com
261	Mr. VINAY SINGH MARWAL	Swami Keshvanand Institute of Technology Management and Gramothan	vinaysingh@skit.ac.in
262	Prof. Vinitha R	Annai college of arts and science	rvinitha.1989@gmail.com
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264	Dr. Vishal Saxena	Jaipur engineering college and research center	vishalsaxena.math@jecrc.ac.in
265	Prof. Vishnu Narayan Mishra	Indira Gandhi National Tribal University, Lalpur, Amarkantak, Anuppur, MP	vnm@igntu.ac.in
266	Dr. Vivek Vijay	Swami Keshvanand Institute of Technology Management and Gramothan	hodmaths@skit.ac.in
267	Prof. Yashodha Sanjay Sindhe	MIT Arts, Commerce and Science college Alandi, Pune	Ysindhe@gmail.com
268	Dr. Yudhveer Singh	Amity University, Jaipur, Rajasthan	yudhvir.chahal@gmail.com
269	Mr. ZAFFAR IQBAL KHAN	Delhi university	izaffar722@gmail.com

## **FEEDBACK OF THE EVENT**

<b>S. No.</b>	<b>POINTER</b>	<b>RATING</b> (1-10 scale, 10 is best)
1.	Your experience about the session.	9.1
2.	Knowledge enhancement	9.1
3.	Relevancy of topics.	9.2
4.	About Expert.	9.4
5.	General Arrangements.	9.3
6.	In future you want to attend such programme at this Institute	Yes
7.	Knowledge gained by the session	Excellent
8.	Overall experience of the session	Very good

## **ATTAINMENT OF THE ACTIVITY**

All the sessions were very much informative. The discussed areas are of great benefit for the participants as they were enlightened with various softwares like SAGEMATH, R, GEOGEBRA, Latex etc. Areas covered in the STTP are beneficial for researchers and faculty.

## **RECOMMENDATIONS**

Such types of STTPs must be conducted more frequently.

## MEDIA COVERAGE (INAUGURAL SESSION)

# STTP on Mathematical Softwares

CITY FIRST

**A** Five day online Short Term Training Program on Mathematical Softwares (STT-PMS-2021) witnessed its inaugural ceremony at Swami Keshvanand Institute of Technology, Management and Gramothan (SKIT), Jaipur on Monday. The program is being organised by the Department of Mathematics, SKIT. In the inaugural address, the chief guest Dr Ajit Kumar, Head, Department of Mathematics, Institute of Chemical Technology, Mumbai, listed the importance of Mathematical Softwares in teaching and research and also emphasized the use of these tools to make teaching interac-



and innovative and to equip the students to deal with the real-world problems.

The conveners Dr Sangeeta Choudhary and Dr Vijay Kumar Singhal briefed about the STT-PMS and shared that more than

300 participants from national and international institutes are participating in this program. The program was coordinated by Dr Shalini Shekhawat and Dr Vivek Vijay.

cityfirst@firstindia.co.in

## एसकेआईटी मे मैथमेटिकल सॉफ्टवेयर्स पर ट्रेनिंग प्रोग्राम का आयोजन

P3 Police Public Politics  
जयपुर ! स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एसकेआईटी), जगतपुरा, जयपुर में सोमवार को गणित विभाग की ओर से 5 दिवसीय 'शॉर्ट टर्म ट्रेनिंग प्रोग्राम ऑन मैथमेटिकल सॉफ्टवेयर्स' का आयोजन किया गया। कार्यक्रम के मुख्य अतिथि डॉ अजीत कुमार, विभाग अध्यक्ष (गणित), इंस्टीट्यूट ऑफ केमिकल टेक्नोलॉजी, मुंबई ने शिक्षण और अनुसंधान में इन सॉफ्टवेयर्स के प्रयोग पर जोर दिया। उन्होंने कहा की हमें विद्यार्थियों में गणितीय सोच को विकसित करने की आवश्यकता है जिससे वे वास्तविक जीवन में आने

वाली सभी समस्याओं का समाधान कर सकें। सभी प्रतिभागियों के लिए उन्होंने



सेजमैथ नामक सॉफ्टवेयर पर भी व्याख्यान दिया। इस अवसर पर एसकेआईटी के प्रोफेसर रोहित मुखर्जी, इंचार्ज बीटेक फर्स्ट ईयर एवं

प्रोफेसर अंबर श्रीवास्तव, विभाग अध्यक्ष गणित ने मुख्य अतिथि और अन्य प्रतिभागियों का स्वागत किया। कार्यक्रम के कन्वीनर डॉक्टर संगीता चौधरी एवं डॉक्टर विजय कुमार सिंघल ने बताया की इस प्रोग्राम में देश एवम विदेश के 300 से ज्यादा शिक्षक और शोधार्थी भाग ले रहे हैं और इस प्रोग्राम में विभिन्न सॉफ्टवेयर जैसे आर, जिओजेब्रा, लेटेक्स और अन्य गणितीय सॉफ्टवेयर्स पर भी कार्यशाला होंगी। कार्यक्रम का संचालन डॉ शालिनी शेखावत एवं डॉ विवेक विजय ने किया।

# नवाचारों पर एक्सपर्ट्स ने की चर्चा



जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ़ टेक्नोलॉजी (एसकेआईटी) में सोमवार को गणित विभाग की ओर से 5 दिवसीय 'शॉर्ट टर्म ट्रेनिंग प्रोग्राम ऑन मैथमेटिकल सॉफ्टवेयर्स' की शुरूआत की गई। इस दौरान देशभर से आए विभिन्न मैथ्स एक्सपर्ट्स ने मैथ्स के क्षेत्र में हो रहे नवाचारों के बारे में बताया। कार्यक्रम में मुख्य अतिथि मुंबई के इंस्टीट्यूट ऑफ़ केमिकल टेक्नोलॉजी मैथ्स डिपार्टमेंट एचओडी डॉ अजीत

कुमार ने वर्तमान में एजुकेशन एवं रिसर्च के क्षेत्र में उपयोग में लिए जा रहे सॉफ्टवेयर्स के बारे में जानकारी दी। उन्होंने कहा कि हमें विद्यार्थियों में मैथ्स को लेकर ऐसी सोच विकसित करने की आवश्यकता है जिससे वे वास्तविक जीवन में आने वाली सभी समस्याओं का समाधान कर सकें। प्रतिभागियों के लिए उन्होंने सेजमैथ सॉफ्टवेयर पर भी विशेष लेक्चर दिया। इस अवसर पर कॉलेज के मैथ्स डिपार्टमेंट एचओडी प्रोफेसर अंबर श्रीवास्तव मौजूद थे।

## मैथेमेटिकल सॉफ्टवेयर्स पर ट्रेनिंग प्रोग्राम हुआ

जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एसकेआईटी), जगतपुरा, जयपुर में सोमवार को गणित विभाग की ओर से 5 दिवसीय 'शॉर्ट टर्म ट्रेनिंग प्रोग्राम ऑन मैथेमेटिकल सॉफ्टवेयर्स' का आयोजन किया गया। मुख्य अतिथि डॉ. अजीत कुमार, विभाग अध्यक्ष (गणित), इंस्टीट्यूट ऑफ केमिकल टेक्नोलॉजी, मुंबई ने शिक्षण और अनुसंधान में इन सॉफ्टवेयर्स के प्रयोग पर जोर दिया। सभी प्रतिभागियों के लिए उन्होंने सेजमैथ नामक सॉफ्टवेयर पर भी व्याख्यान दिया। एसकेआईटी के प्रोफेसर रोहित मुखर्जी, इंचार्ज



बीटेक फर्स्ट ईयर एवं प्रोफेसर अंबर श्रीवास्तव, विभाग अध्यक्ष गणित ने मुख्य अतिथि और अन्य प्रतिभागियों का स्वागत किया। कार्यक्रम के कन्वीनर डॉ. संगीता चौधरी एवं डॉ. विजय कुमार सिंघल ने बताया कि इस प्रोग्राम में देश-विदेश के 300 से ज्यादा शिक्षक और शोधार्थी भाग ले रहे हैं। कार्यक्रम का संचालन डॉ. शालिनी शेखावत एवं डॉ. विवेक विजय ने किया।

जयपुर @ पत्रिका. स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी (एसकेआईटी) में सोमवार को गणित विभाग की ओर से 5 दिवसीय 'शॉर्ट टर्म ट्रेनिंग प्रोग्राम ऑन मैथेमेटिकल सॉफ्टवेयर्स' की शुरुआत की गई। इस दौरान देशभर से आए विभिन्न मैथ्स एक्सपर्ट्स ने मैथ्स के क्षेत्र में हो रहे नवाचारों के बारे में बताया। कार्यक्रम में मुख्य अतिथि मुंबई के इंस्टीट्यूट ऑफ

केमिकल टेक्नोलॉजी मैथ्स डिपार्टमेंट एचओडी डॉ. अजीत कुमार ने वर्तमान में एजुकेशन एवं रिसर्च के क्षेत्र में उपयोग में लिए जा रहे सॉफ्टवेयर्स के बारे में जानकारी दी। इस अवसर पर मैथ्स डिपार्टमेंट एचओडी प्रो. अंबर श्रीवास्तव, इंचार्ज बी.टेक. फर्स्ट ईयर प्रो. रोहित मुखर्जी, कार्यक्रम कन्वीनर डॉक्टर संगीता चौधरी एवं डॉक्टर विजय कुमार सिंघल ने भी विचार रखे

## मैथमेटिकल सॉफ्टवेयर्स के संबंध में प्रशिक्षण



श्रीगंगानगर (सीमा सन्देश)। स्वामी केशवानन्द इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एसकेआईटी), जगतपुरा, जयपुर में सोमवार को गणित विभाग की ओर से 5 दिवसीय 'शॉर्ट टर्म ट्रेनिंग प्रोग्राम ऑन मैथमेटिकल सॉफ्टवेयर्स का आयोजन किया गया। मुख्य अतिथि, इंस्टीट्यूट ऑफ कैमिकल टेक्नोलॉजी मुंबई के गणित विभागाध्यक्ष डॉ. अजीत कुमार ने शिक्षण एवं अनुसंधान में इन सॉफ्टवेयर्स के प्रयोग पर जोर दिया। उन्होंने कहा कि हमें विद्यार्थियों में गणितीय सोच को विकसित करने की आवश्यकता है, जिससे वे वास्तविक जीवन में आने

वाली सभी समस्याओं का समाधान कर सकें। सभी प्रतिभागियों के लिए उन्होंने सेजमैथ नामक सॉफ्टवेयर पर भी व्याख्यान दिया। एसकेआईटी के प्रो. रोहित मुखर्जी तथा प्रो. अंबर श्रीवास्तव ने मुख्य अतिथि तथा प्रतिभागियों का स्वागत किया। संयोजक डॉ. संगीता चौधरी एवं डॉ. विजय कुमार सिंघल ने बताया कि इस कार्यक्रम में देश-विदेश के 300 से अधिक शिक्षक एवं शोधार्थी भाग ले रहे हैं। इस कार्यक्रम के अन्तर्गत विभिन्न सॉफ्टवेयर जैसे आर, जिओजेब्रा, लेटेक्स और अन्य गणितीय सॉफ्टवेयर्स पर भी कार्यशाला होंगी। संचालन डॉ. शालिनी शेखावत एवं डॉ. विवेक विजय ने किया।



मैथमेटिकल सॉफ्टवेयर्स पर ट्रेनिंग प्रोग्राम का आयोजन

## ‘विद्यार्थियों में गणितीय सोच को विकसित करने की आवश्यकता’

जयपुर (का.सं.)। स्वामी केशवानन्द इंस्टीट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एसकेआईटी), जगतपुरा में सोमवार को गणित विभाग की ओर से 5 दिवसीय 'शॉर्ट टर्म ट्रेनिंग प्रोग्राम ऑन मैथमेटिकल सॉफ्टवेयर्स' का आयोजन किया गया।

मुख्य अतिथि डॉ. अजीत कुमार, विभाग अध्यक्ष (गणित), इंस्टीट्यूट ऑफ कैमिकल टेक्नोलॉजी, मुंबई ने शिक्षण और अनुसंधान में इन सॉफ्टवेयर्स के प्रयोग पर जोर दिया। उन्होंने कहा कि हमें विद्यार्थियों में गणितीय सोच को विकसित करने की आवश्यकता है,

जिससे वे वास्तविक जीवन में आने वाली सभी समस्याओं का समाधान कर सकें। सभी प्रतिभागियों के लिए उन्होंने सेजमैथ नामक सॉफ्टवेयर पर एसकेआईटी के प्रोफेसर रोहित मुखर्जी, इंचारज बोटिक फर्स्ट ईयर एवं प्रोफेसर अंबर श्रीवास्तव, विभाग अध्यक्ष गणित ने मुख्य अतिथि और अन्य प्रतिभागियों का स्वागत किया। कार्यक्रम कन्वीनर डॉ. संगीता चौधरी एवं डॉ. विजयकुमार सिंघल ने बताया कि प्रोग्राम में देश-विदेश के 300 से ज्यादा शिक्षक और शोधार्थी भाग ले रहे हैं। संचालन डॉ. शालिनी शेखावत एवं डॉ. विवेक विजय ने किया।

सीमा सन्देश

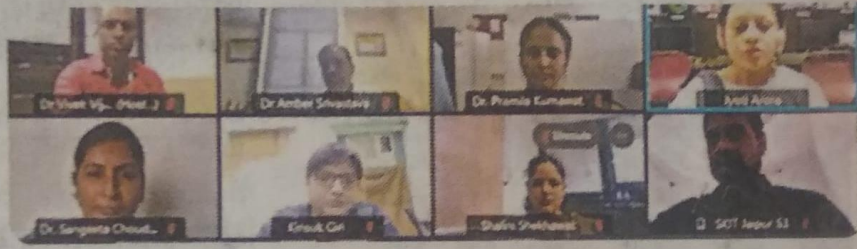
Tue, 14 September 2021

<https://www.readwhere.com/read>



## MEDIA COVERAGE (VALECDICTORY SESSION)

### प्रशिक्षण कार्यशाला सम्पन्न



जयपुर ♦ स्वामी केशवानंद इन्स्टिट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एसकेआईटी), जगतपुरा में गणित विभाग की ओर से आयोजित 5 दिवसीय शॉर्ट टर्म ट्रेनिंग प्रोग्राम ऑन मैथमेटिकल सॉफ्टवेयर्स का समापन शुक्रवार को हुआ। कार्यक्रम के मुख्य अतिथि एनआईटीटीआर कोलकाता के कंप्यूटर साइंस विभाग

के प्रोफेसर डॉ किंसुक गिरी ने ओपन सोर्स सॉफ्टवेयर के प्रयोग पर जोर दिया। उन्होंने अपने व्याख्यान में साइलैब और पाइथन की ट्रेनिंग के साथ-साथ कोरोना काल के समय में शिक्षकों के काम आने वाले आईसीटी टूल्स के बारे में भी जानकारी दी। इस अवसर पर प्रो. रोहित मुखर्जी, इंचार्ज बीटेक फर्स्ट ईयर ने का धन्यवाद ज्ञापित किया।

### एसकेआईटी में प्रशिक्षण कार्यशाला संपन्न

#### P3 Police Public Politics

जयपुर ! स्वामी केशवानंद इन्स्टिट्यूट ऑफ टेक्नोलॉजी मैनेजमेंट एंड ग्रामोत्थान (एसके आई टी), जगतपुरा, जयपुर में गणित विभाग की ओर से आयोजित 5 दिवसीय शॉर्ट टर्म ट्रेनिंग प्रोग्राम ऑन मैथमेटिकल सॉफ्टवेयर्स का समापन शुक्रवार को हुआ। कार्यक्रम के मुख्य अतिथि एनआईटीटीआर कोलकाता के कंप्यूटर साइंस विभाग के प्रोफेसर डॉ किंसुक गिरी ने ओपन सोर्स सॉफ्टवेयर के प्रयोग पर जोर दिया। उन्होंने अपने व्याख्यान में साइलैब और पाइथन की ट्रेनिंग के साथ साथ कोरोना काल के



समय में शिक्षकों के काम आने वाले आईसीटी टूल्स के बारे में भी जानकारी दी। इस अवसर पर प्रोफेसर रोहित मुखर्जी, इंचार्ज बीटेक फर्स्ट ईयर ने अतिथियों और प्रतिभागियों का धन्यवाद

ज्ञापित किया। कार्यक्रम के कन्वीनर डॉक्टर संगीता चौधरी एवं डॉक्टर विजय सिंघल ने विभाग के अन्य सदस्यों के सहयोग से कार्यक्रम का संचालन किया।

# CERTIFICATE OF PARTICIPATION



**Swami Keshvanand Institute of Technology,  
Management and Gramothan, Jaipur**



SHORT TERM TRAINING PROGRAM

*on*

**MATHEMATICAL SOFTWARES**

13 - 17 September, 2021

*organized by*

DEPARTMENT OF MATHEMATICS

*Certificate of Participation*

This is to certify that

\_\_\_\_\_ of \_\_\_\_\_  
has participated in five day STTP on "Mathematical Softwares" held  
from 13/09/21 to 17/09/21 at **Swami Keshvanand Institute of  
Technology, Management and Gramothan, Jaipur.**

Prof. (Dr.) Ramesh Kumar Pachar  
Principal

Prof. (Dr.) Amber Srivastava  
HOD, Maths

Dr. Sangeeta Choudhary  
Convener

Dr. Vijay Singhal  
Convener



# CERTIFICATE OF RESOURCE PERSON



**Swami Keshvanand Institute of Technology,  
Management and Gramothan, Jaipur-302017  
Rajasthan, India**



**SHORT TERM TRAINING PROGRAM**

*on*

**MATHEMATICAL SOFTWARES**

13 - 17 September, 2021

*organized by*

**DEPARTMENT OF MATHEMATICS**

*Certificate of Recognition*

This certificate is presented to

\_\_\_\_\_ of \_\_\_\_\_

for participating as a **Resource Person** in the  
five day STTP on "**Mathematical Softwares**"  
held from 13/09/2021 to 17/09/2021 at **SKIT**.

**Prof. (Dr.) Ramesh Kumar Pachar**

Principal

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HOD, Maths

**Dr. Sangeeta Choudhary**

Convener

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## CONVENERS



**Dr. Sangeeta Choudhary**  
**Associate Professor**  
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**Dr. Vijay Singhal**  
**Associate Professor**  
**Department of Mathematics**