



TEQIP-III RTU(ATU) sponsored  
**FACULTY DEVELOPMENT PROGRAM**  
ON

**APPLICATIONS OF MATHEMATICAL SCIENCES IN  
ENGINEERING AND TECHNOLOGY**

**(AMSET-2020)**

**September 23 – 27, 2020**

**Organized by**  
**Rajasthan Technical University, Kota**  
&  
**Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur**

**Report of the Event**

**1.Title of the activity:** APPLICATIONS OF MATHEMATICAL SCIENCES IN ENGINEERING AND TECHNOLOGY(AMSET-2020)

**2.Activity Details:**

- **Objectives of the FDP:** Aim of this FDP is to provide an exposure to both basics and recent advances in applications of Mathematical Sciences to various fields of Engineering & Technology. The FDP shall also throw light upon application of Mathematical tools/ideas

combined with modern computational techniques to various problems of technological sciences.

- **Program detail:**

The Department of Mathematics, Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur organized a five days Faculty Development Program on “**APPLICATIONS OF MATHEMATICAL SCIENCES IN ENGINEERING AND TECHNOLOGY**” during September 23-27, 2020 in association with Rajasthan Technical University, Kota. This FDP was sponsored by RTU (ATU) under Technical Education Quality Improvement Program phase III (TEQIP-III) action plan and conducted on WebEx online platform.

This five-day FDP comprised fifteen thoughtful informative sessions delivered by the experts from the various reputed institutes. Many faculty members and research scholars from various universities and institutes of all over the country participated in this FDP.

The FDP was inaugurated on the 23 September 2020 by the Chief Guest Prof. M.A. Pathan, Ex-Chairman, AMU Aligarh, Prof. Rohit Mukherjee (In charge B.Tech. I year, SKIT), 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 FDP. Prof. M.A. Pathan emphasized upon the need of application part of mathematics in the field of science and technology and appreciated the new mode of the FDP. The session was moderated by Dr. Sangeeta Choudhary (Associate Professor, Department of Mathematics, SKIT) and Prof. Rohit Mukherjee extended vote of thanks to the guests and participants.

In the first session of the first day Prof. M. A. Pathan(Ex-Chairman, AMU Aligarh) delivered his talk on generalization of Taylor's series, Riemann zeta functions and Lidstone polynomials and motivated by their importance and potential for applications in certain problems in number theory, combinatorics, classical and numerical analysis, and other fields of Applied Mathematics. In second session, Prof. S.P. Harsha(IIT, Roorkee) explained Modelling and Simulations Dynamical Engineering Systems and discussed the development of a mathematical representation of a physical system and the procedure of solving the equations that resulted from model development. In third session, Dr. Anupam Yadav(NITJ) discussed different aspects of real-world applications of optimization algorithms.

In the first session of the second day, Prof. S.P. Harsha(IIT, Roorkee) discussed Computational Techniques for Fluid Flow Problems like moving grids, simulation of turbulence, computation of free-surface flows, multigrid methods and parallel computing. In second session Dr. J.C. Prajapati(SPU, Gujarat) discussed applications of Z-transform to solve difference equations and in third session of the day Dr. Dhananjay Dey (IIIT, Lucknow) focused on Information security which is an extremely important and relevant problem in the world, particularly in this day and age in which so much of our communication occurs over the internet and motivated the participants to learn several different cryptographic ciphers and focused on types of mathematical concepts in Cryptography.

Third day Dr. V. P. Saxena (SIRTS, Bhopal) talked on Mathematics in Epidemics and Transdermal Drug Delivery System.He discussed Mathematical Models for Biological Pattern Formation,The Transport of Chemicals,advantages,limitations for transdermal drug delivery system,Pharmacokinetics in the first session of the day and in the

second session Dr. Ritu Agarwal (MNIT, Jaipur) explained how differential equation models are used in many fields of applied physical science to describe the dynamic aspects of systems and in the third session Dr. R.K. Parmar (BTU, Bikaner) focused on extended Bessel function and related other extended functions.

In the first session of the fourth day Dr Jagdish Chand Bansal (South Asian University, New Delhi) explained Some real-life optimization problems like ant colony optimization which is a probabilistic technique for finding optimal paths and use of the ant colony optimization algorithm for solving different computational problems. In the second session Mr. Girish Mishra (Scientist E, DRDO) delivered his talk upon mathematical applications in the area of Machine Learning and Blockchain Technology and Nature Inspired optimization Techniques were discussed by Prof. Kusum Deep (IIT, Roorkee) in the last session of the day.

In the first session of the fifth day Dr. Jagdeo Singh (JECRC University, Jaipur) gave an overview of Mathematical Modeling and its Applications in Science & Engineering. In the second session Dr. Devendra Kumar (University of Rajasthan, Jaipur) discussed Fractional Calculus as a Mathematical Tool for Solving Real World Problems and in the third session Dr. A. Swaminathan (IIT Roorkee) talked on opportunities of Unfamiliar Mathematics in Modern Technology.

In the valedictory session, Guest Dr. A. Swaminathan IIT Roorkee, Prof. Rohit Mukherjee (In charge I year, SKIT), Prof. Amber Srivastava, (HOD Mathematics, SKIT) and organizers of the event and participants were present. Dr. A. Swaminathan congratulated the organizing team for successful conduction of this FDP. 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 FDP. Dr. Jyoti Arora (Department of Mathematics,SKIT) moderated this session.

Dr. Vivek Vijay(Department of Mathematics,SKIT), Mr. C.P. Jain (Department of Mathematics,SKIT) and Mr. Kailash Soni(Department of CS,SKIT) were the members of technical team for this five days FDP.

- **Outcome:** All the sessions were very much informative. The discussed areas are of great benefit for the participants as they were enlightened with recent advancement in mathematics.
- **Type: National**

### 3. Details of the Activity

- **Resource persons**

S.N.	Name of Expert	Institution/Organization
1.	<b>Prof. M. A. Pathan</b>	AMU, Aligarh
2.	<b>Prof. S.P. Harsha</b>	IIT, Roorkee
3.	<b>Dr. Anupam Yadav</b>	NITJ
4.	<b>Dr. J.C. Prajapati</b>	SPU, Gujarat
5.	<b>Dr. Dhananjoy Dey</b>	IIIT, Lucknow
6.	<b>Dr. V. P. Saxena</b>	SIRTS, Bhopal
7.	<b>Dr. Ritu Agarwal</b>	MNIT, Jaipur
8.	<b>Dr. R.K. Parmar</b>	BTU, Bikaner
9.	<b>Dr. Jagdish Chand Bansal</b>	South Asian University, New Delhi
10.	<b>Mr. Girish Mishra</b>	Scientist E, DRDO
11.	<b>Prof. Kusum Deep</b>	IIT, Roorkee
12.	<b>Dr. Jagdeo Singh</b>	JECRC University, Jaipur
13.	<b>Dr. Devendra Kumar</b>	University of Rajasthan, Jaipur

14.	<b>Dr. A. Swaminathan</b>	IIT Roorkee
-----	---------------------------	-------------

- **No. of Participants-219**
- **Brief proceeding of each day of the activity**

**DAY # 1 (23.09.2020)**

Inauguration: 10.30 am – 11.00 am				(Moderator) Dr. Sangeeta Choudhary
<b>Session</b>	<b>Time</b>	<b>Experts</b>	<b>Topic</b>	<b>Moderator</b>
Session I	11:15 am – 12:30 pm	<b>Prof. M. A. Pathan</b> Ex-Chairman, AMU, Aligarh	On generalization of Taylor's series, Riemann zeta functions and Lidstone polynomials	Dr. Rohit Mukhrjee
Session II	3:00 – 4:00 pm	<b>Prof. S.P. Harsha</b> IIT, Roorkee	Modelling and Simulations Dynamical Engineering Systems	Dr. Jyoti Arora
Session III	4:15 – 5:15 pm	<b>Dr. Anupam Yadav</b> NITJ	Applications of Nature-Inspired Optimization Algorithms	Dr. Sumit Gupta

<b>Session</b>	<b>Time</b>	<b>Expert</b>	<b>Topic</b>	<b>Moderator</b>
----------------	-------------	---------------	--------------	------------------

Session I	3:00 – 4:00 pm	<b>Prof. S.P. Harsha</b> IIT, Roorkee	Computational Techniques for Fluid Flow Problems	Dr. Rohit Mukhrjee
Session II	4:15 – 5:15 pm	<b>Dr. J.C. Prajapati</b> SPU, Gujarat	Applications of Z-transform to solve difference equations	Dr. N.K. Jangid
Session III	5:30 – 6:30 pm	<b>Dr. Dhananjay Dey</b> IIIT, Lucknow	Applications of Mathematics in Cryptography	Dr. Pramila Kumawat

**DAY # 2 (24.09.2020)**

**DAY # 3 (25.09.2020)**

Session	Time	Expert	Topic	Moderator
Session I	3:00 – 4:00 pm	<b>Dr. V. P. Saxena</b> SIRTS Bhopal	Mathematics in Epidemics and Transdermal Drug Delivery System	Dr. Amber Shrivastava
Session II	4:15 – 5:15 pm	<b>Dr. Ritu Agarwal,</b> MNIT, Jaipur	Differential equations: a modelling approach	Dr. Shalini Shekhawat
Session III	5:30 – 6:30 pm	<b>Dr. R.K. Parmar</b> BTU, Bikaner	(p,q) --extended Bessel function and related other extended functions	Dr. Vijay Singhal

**DAY # 4 (26.09.2020)**

<b>Session</b>	<b>Time</b>	<b>Expert</b>	<b>Topic</b>	<b>Moderator</b>
Session I	3:00 – 4:00 pm	<b>Dr. Jagdish Chand Bansal</b> South Asian University, New Delhi	Ant Colony Optimization	Dr. Amber Shrivastava
Session II	4:15 – 5:15 pm	<b>Mr. Girish Mishra</b> Scientist E, DRDO	Mathematical applications in the area of Machine Learning and Blockchain Technology	Dr. Vijay Singhal
Session III	5:30 – 6:30 pm	<b>Prof. Kusum Deep,</b> IIT, Roorkee	Nature Inspired optimization Techniques	Dr. Shalini Shekhawat

**DAY # 5 (27.09.2020)**

<b>Session</b>	<b>Time</b>	<b>Expert</b>	<b>Topic</b>	<b>Moderator</b>
Session I	9:30 – 10:30 am	<b>Dr. Jagdeo Singh</b> JECRC University, Jaipur	An Overview of Mathematical Modeling and its Applications in Science & Engineering	Dr. Sumit Gupta
Session II	10:45 – 11:45 am	<b>Dr. Devendra Kumar</b> University of Rajasthan, Jaipur	Fractional Calculus: A Mathematical Tool for Solving	Ms. Deepika Jain



			Real World Problems	
Session III	1:00 – 2:00 pm	<b>Dr. A. Swaminathan</b> IIT Roorkee	OPPORTUNITIES OF UNFAMILIAR MATHEMATICS IN MODERN TECHNOLOGY	Dr. Jyoti Arora

Valedictory	2:00 – 2:30 pm	(Moderator)Dr. Jyoti Arora
-------------	----------------	----------------------------

- **Attainment of the activity:** The five days FDP provided a better insight into the recent trends in the field of mathematical modeling, Cryptography, optimization Techniques, Mathematical applications in the area of Machine Learning and Block chain Technology, in Science & Engineering. Areas covered in the FDP are beneficial for researchers and faculty.
- **Recommendations:** Such types of FDPs must be conducted more frequently .

#### 4. Enclosures

- **Brochure:**
- **Detail of funding if any: RTU (ATU) TEQIP III**
- **Souvenir: NIL**
- **Proceedings: NIL**
- **Photographs:**

# Brochure

## CHIEF PATRON

Prof. R. A. Gupta  
Honourable Vice-Chancellor, RTU

## PATRON

Shri Raja Ram Meel, Patron, SKIT  
Shri Surja Ram Meel, Chairman, SKIT

## RTU (ATU) TEQIP-III COORDINATOR

Dr. Dharendra Mathur

## ADVISORS

Shri Jaipal Meel, Director, SKIT  
Dr. S. L. Surana, Director (Academics), SKIT  
Mrs. Rachna Meel, Registrar, SKIT  
Dr. Ramesh Kumar Pachar, Principal, SKIT

## RTU EVENT COORDINATORS

Dr. S. D. Purohit  
Dr. Kamlesh Jangid

## HOST INSTITUTE COORDINATORS

Dr. Rohit Mukherjee, I/c B.Tech. I year  
Dr. Amber Srivastava, HoD (Mathematics)

## RTU (ATU) TEQIP-III COMMITTEE

Dr. Harish Sharma (Nodal officer Academic)  
Dr. D.K. Sambariya (Nodal Officer Procurement)  
Dr. S. D. Purohit (Nodal Officer Finance)  
Dr. Deepak Bhatia (Hackathon Coordinator)

## ORGANIZING COMMITTEE

Dr Sangeeta Choudhary Dr Shalini Shekhawat  
Dr V.K.Singhal Dr Sumit Gupta  
Dr Pramila Kumawat Mr. C. P. Jain  
Dr Jyoti Arora Mrs Surbhi Sharma  
Dr N. K. Jangid Mrs Deepika Jain  
Dr Vivek Vijay

## REGISTRATION

To register, use the following link or scan the QR code on or before Sep. 23, 2020



<https://erp.skit.ac.in/register/amset>

### Note:

- The FDP will be conducted on Cisco-Webex online platform.
- During registration, please join the WhatsApp group to receive FDP related information.
- E-Certificate will be provided to the participants who have 80% (or above) attendance during the FDP and submit the assignments as well as feedback of the FDP.

## CONTACT US

Dr. Rohit Mukherjee  
Mobile: 9414051576

Dr. Amber Srivastava  
Mobile: 9828298243  
Email: hodmaths@skit.ac.in



TEQIP-III RTU(ATU)

SPONSORED



## FACULTY DEVELOPMENT PROGRAM

ON

## APPLICATIONS OF MATHEMATICAL SCIENCES IN ENGINEERING AND TECHNOLOGY (AMSET-2020)

SEPTEMBER 23 - 27, 2020



Organized by

Rajasthan Technical University, Kota

&

Swami Keshvanand Institute of  
Technology, Management &  
Gramothan, Jaipur



Host Institute

## Department of Mathematics

Swami Keshvanand Institute of Technology,  
Management & Gramothan, Jagatpura,  
Jaipur - 302017

Web: [www.skit.ac.in](http://www.skit.ac.in)

### **ABOUT TEQIP-III**

The project, third phase of Technical Education Quality Improvement Program (referred to as TEQIP-III) is fully integrated with the twelfth five-year plan objectives for Technical Education as a key component for improving the quality of engineering education in existing institutions with a special consideration for low income and special category states and support to strengthen a few affiliated technical universities to improve their policy, academic and management practices.

### **RAJASTHAN TECHNICAL UNIVERSITY, KOTA**

Rajasthan Technical University (RTU) is located at Kota in the state of Rajasthan. It was established in the year 2006 by the Government of Rajasthan. The University currently affiliates about 129 Engineering Colleges, 04 B. Arch, 41 MCA Colleges, 95 MBA Colleges, 44 M. Tech. Colleges and 03 Hotel Management and Catering Institutes. The University aims to provide quality technical education which may help Rajasthan in its technical development and boost technical environment in the country.

### **ABOUT SKIT**

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) has been ranked no. 1 engineering institute in Rajasthan by RTU, Kota consecutively for the last three years. 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 the art infrastructures and core value of discipline. The various undergraduate programmes of the institute are accredited by the National Board of Accreditation (NBA).

### **THE DEPARTMENT OF MATHEMATICS**

The Department of Mathematics, teaches various topics in Mathematics to Under Graduate and Post Graduate students of different Engineering and Management courses. In alignment to the vision & 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.

### **OBJECTIVES OF THE FDP**

Aim of this FDP is to provide an exposure to both basics and recent advances in applications of Mathematical Sciences to various fields of Engineering & Technology. The FDP shall also throw light upon application of Mathematical tools/ideas combined with modern computational techniques to various problems of technological sciences.

### **CONTENTS OF THE FDP**

The deliberations during the FDP shall cover various aspects of applications of Special Functions, Fluid Dynamics, Operation Research, Computational Techniques, Relativity, etc. in the field of Engineering and Technology.

### **RESOURCE PERSONS**

The sessions of this FDP will be taken by renowned experts from IITs, NITs and other reputed organizations.

### **REGISTRATION FEE**

There is no registration fee.

### **TARGET AUDIENCE**

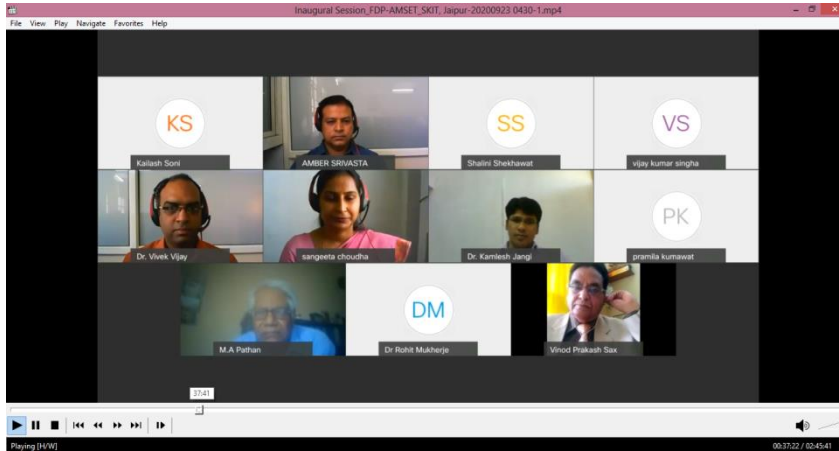
This FDP will be very helpful for research scholars, faculty members and research scientists who are working in various areas of applied Mathematics.

### **FDP SCHEDULE**

Day-1	10:30-11:00 AM	Inaugural session
	11:15AM-12:15PM	Session-I
	3:00-5:15 PM	Session-II Session-III
Day-2 to Day-4	3:00-6:30 PM	Session-I Session-II Session-III
Day-5	9:30AM-01:00PM	Session-I Session-II Session-III
	01:00-01:30PM	Valedictory session

# Photographs

## Day 1



Day 1 Session 2 Prof. S.P Harsha.mp4

Participants: Suraj P Harsha, Dr. Vivek Vijay, rohit.m2003, jyoti arora, Dr Amber Srivastava.

### Modelling and System Response: Equations

❖ **Mechanical Systems:** for obtaining the differential equation relating the inputs and outputs for a mechanical system consisting of a number of components can be summarized as:

- ❖ Isolate the various components in the system and draw free-body diagrams for each;
- ❖ With the forces identified for a component, write the modelling equation for it;
- ❖ Combine the equations for the various system components to obtain the system differential equation.

**Gear Train**

Force due to spring:  $F - kx - c \frac{dx}{dt} = m \frac{d^2x}{dt^2}$

Force due to dashpot:  $F - kx - c \frac{dx}{dt} = m \frac{d^2x}{dt^2}$

Torsional resistance:  $T = J \frac{d^2\theta}{dt^2} + c \frac{d\theta}{dt} + k\theta = T$

Moment of inertia  $J$

Torque  $T$

Gear 1:  $r_1, r_2, \omega_1, \omega_2, T_1, T_2$

Gear 2:  $r_2, r_1, \omega_2, \omega_1, T_2, T_1$

Relationships:  $\frac{r_1}{r_2} = \frac{\theta_1}{\theta_2} = \frac{\omega_1}{\omega_2} = \frac{T_2}{T_1}$

$T - T_1 = J_1 \frac{d^2\theta_1}{dt^2}$

IIIT ROORKEE 12

Day 1 Session 3 Dr Anupam Yadav.mp4

File View Play Navigate Favorites Help

Anupam Yadav SUMIT GUPTA Dr. Vivek Vijay Dr. Vijay Singhal Dr. Amber Srivastava

## Behaviour of Electric Field

Electric Field Plot of F1

Electric Field Plot of F2

Electric Field Plot of F3

Electric Field Plot of F4

40:02

Playing [H/W] 38:39 / 52:44

## Day 2

Day 2 Session 1 Prof. S P Harsha.mp4

File View Play Navigate Favorites Help

Suraj P Harsha Dr. Rohit Mukherjee Dr. Vivek Vijay Poojita kumawat Dr. Vijay Singhal

## Numerical methods (grid transformation)

Physical domain

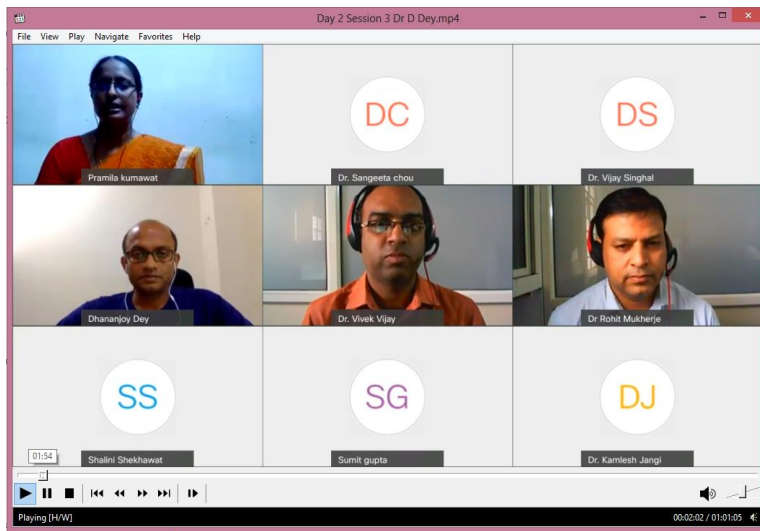
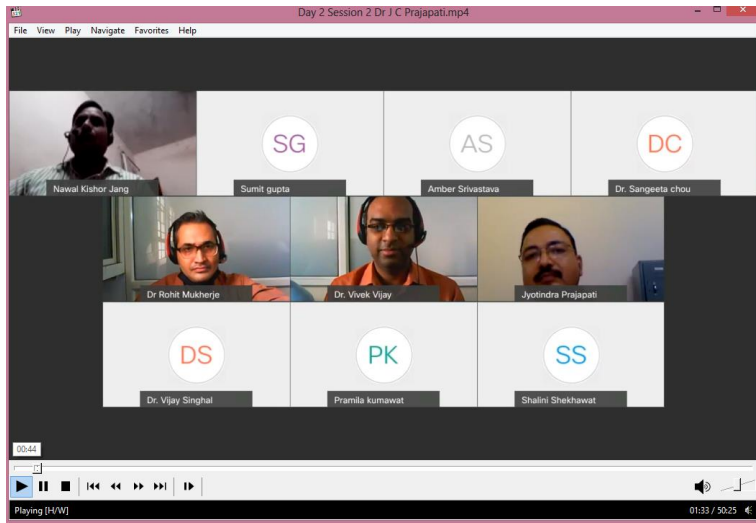
Computational domain

- Transformation between physical  $(x, y, z)$  and computational  $(\xi, \eta, \zeta)$  domains, important for body-fitted grids. The partial derivatives at these two domains have the relationship (2D as an example)

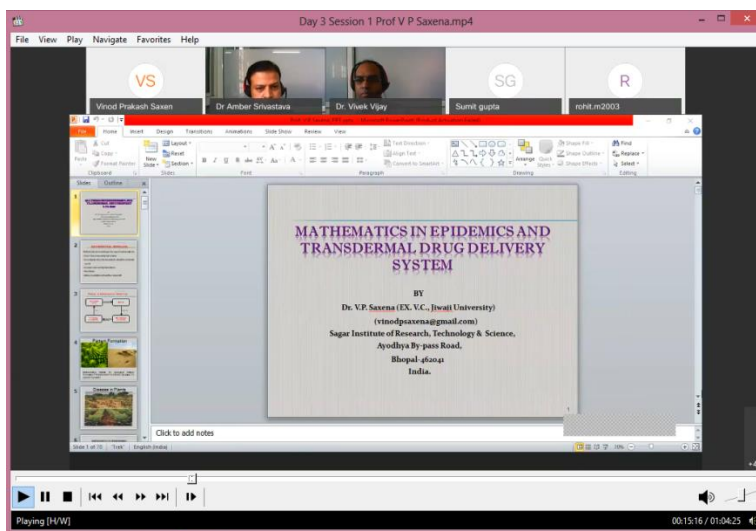
$$\frac{\partial f}{\partial x} = \frac{\partial f}{\partial \xi} \frac{\partial \xi}{\partial x} + \frac{\partial f}{\partial \eta} \frac{\partial \eta}{\partial x} = \frac{\partial f}{\partial \xi} + \eta \frac{\partial f}{\partial \eta}$$

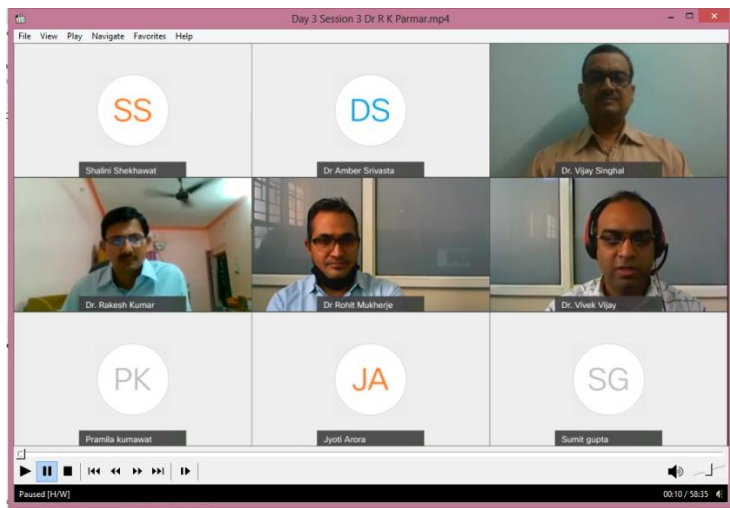
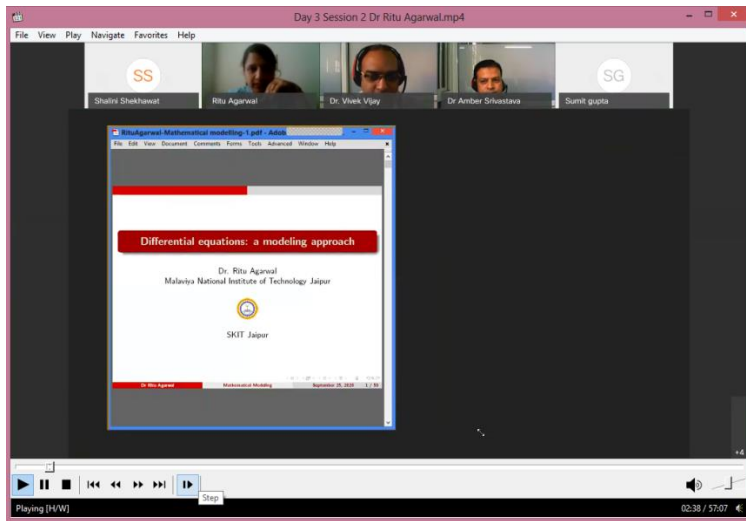
50:45

Playing [H/W] 00:48:59 / 01:03:13

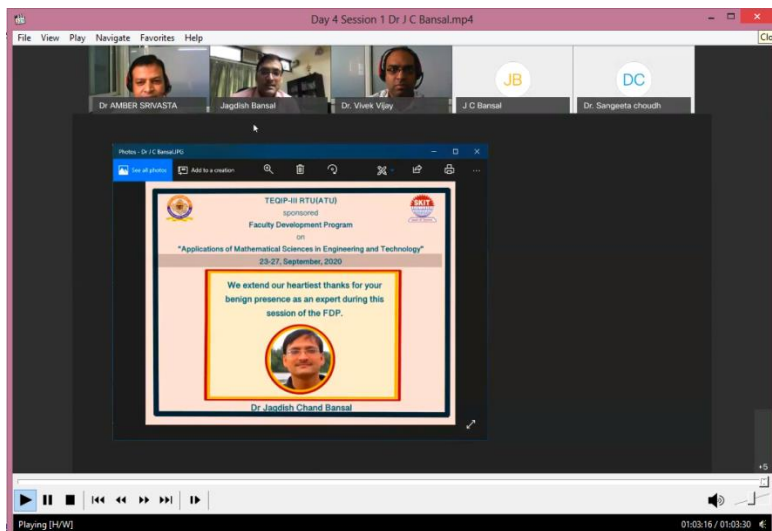


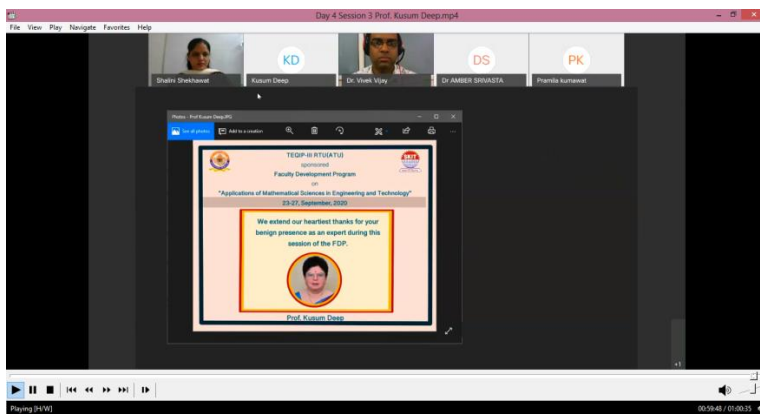
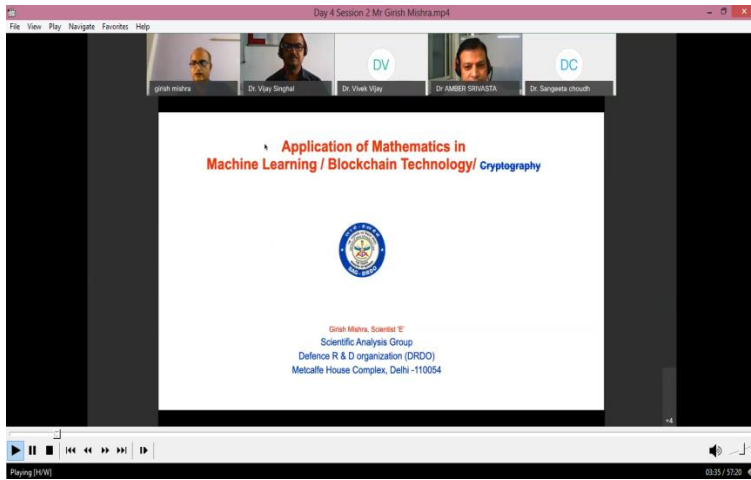
## Day 3



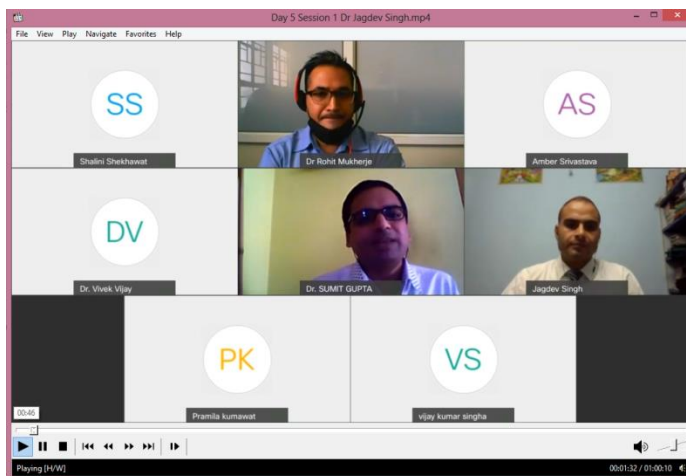


## Day 4

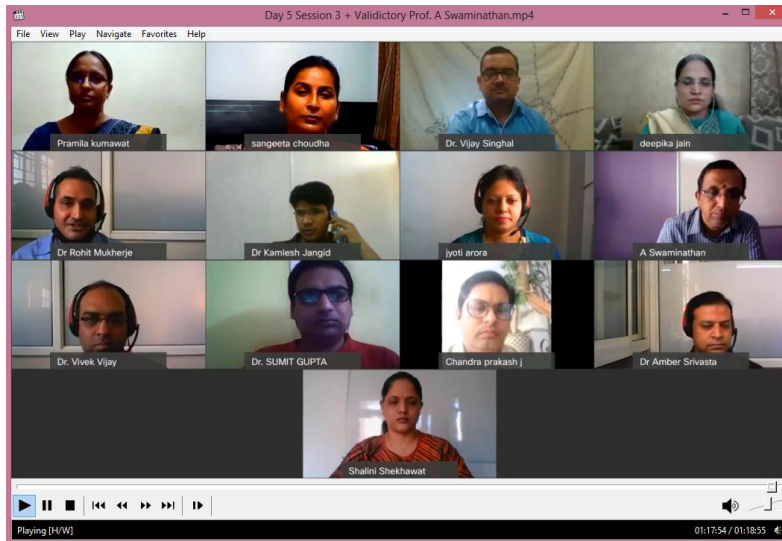
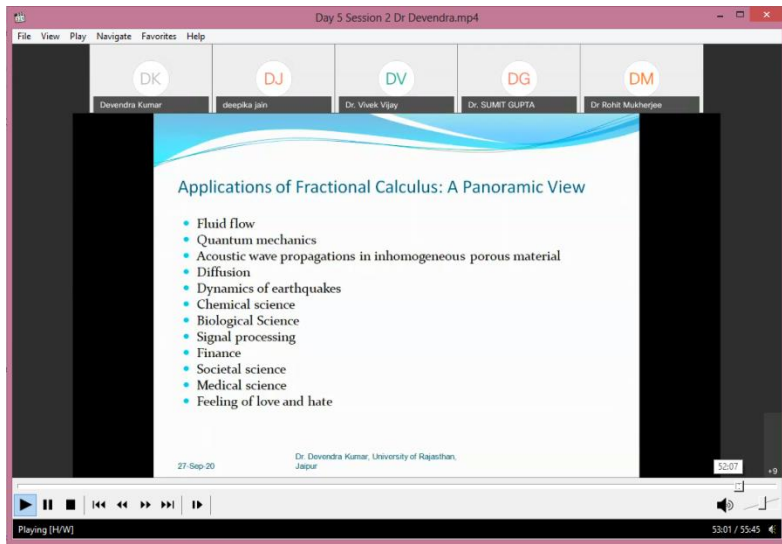




## Day 5







## List of Participants in SKIT AMSET 2020 (23 - 27, Sep, 2020)

S. No.	Name	Name of Institute	Email Id
1	Deepmala Agrawal	G.G.S.S.School Kishanganj Baran	84diipaa@gmail.com
2	Asha Abhilash	MIT Academy of Engineering Alandi Pune Maharashtra	aabilash@esci.maepune.ac.in
3	Akash Saxena	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	Aakash.saxena@hotmail.com
4	Dr Abhijit Kulshreshtha	Jodhpur Institute of Engineering and Technology, Jodhpur	abhijit.kulshreshtha@jietjodhpur.ac.in
5	Abhishek Kumar Pandey	Allenhouse Institute of Technology, Rooma, Kanpur, U. P.	abhish.pandey@rediffmail.com
6	Alok Bhargava	Manipal University Jaipur	alok.bhargava@jaipur.manipal.edu
7	Dr. Amaresh Kumar Pandey	Chaudhari Narendra Pratap Degree College, Bakever, Fatehpur.	amareshindia1976@gmail.com
8	Mr. Amin Talha Badrul	(0002) M. H. Saboo Siddik Polytechnic, Mumbai - 08	amintalhabadrul@gmail.com
9	Dr.Amruta Atul Bhandari	R.C.Patel Institute of Technology	amruta.a.bhandari@gmail.com
10	Anil Kumar Vishnoi	Government Polytechnic College Jodhpur	anilvishnoirahar@gmail.com
11	Anita Luthra	Ramrao Adik Institute of Technology, Nerul , Navi Mumbai.	anitababbar84@gmail.com
12	Anajali Raghav	Shri Adinath Jain PG College (Eve) Alwar	anjalinaruka7@gmail.com
13	Dr. Anuj Kumar Jhankal	Army Cadet College , Indian Military Academy, Dehradun	anujjhankal@yahoo.com
14	Dr. Anupama Sharma	B K Birla Institute of Engineering & Technology, Pilani	anupama.sharma@bkbiet.ac.in
15	Arockia Ranjithkumar M	M. Kumarasamy College of Engineering	arockiaranjithkumar@gmail.com
16	Dr.K.Abdul Razak	M.Kumarasamy College of Engineering, Karur.	arrazak76@gmail.com
17	Arvind Pratap Singh	ITM Group of Institutions Maharajganj	arvind.prtp@rediffmail.com
18	Arvind Kumar Singh	ITM Maharajganj	arvind05feb85@gmail.com
19	Ankit Sharma	IIT Roorkee	asharma1@ce.iitr.ac.in
20	Muhammad Ashraf Rather	Govt. BHSS Chattergul Ganderbal	ashrafratherg8@gmail.com
21	Alla Srinivasa Rao	Rise Krishna Sai Prakasam Group of Institutions	asrmaths69@gmail.com
22	Mr. Amit Sitaram Wadile	Dahiwadi College, Dahiwadi, Dist. - Satara	aswadile@gmail.com
23	Anju Godika	GIT	avianju12@gmail.com
24	Dr. B. Sumalatha	S.V.College of Engineering, Tirupati	bainasumalatha@gmail.com
25	Balram Jaiswal	MMMTU	balram1995j@gmail.com
26	Bilal Ahmad Bhat	Jamia Millia Islamia New Delhi India	bilalj102102@gmail.com
27	Sushila Vishnoi	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	bishnoisush@gmail.com
28	S Brindha Devi	Rathinam College of Arts and Science	brindhadevi195@gmail.com
29	Chandra Prakash Jain	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	buddhi.jain@gmail.com
30	Dr. Chennareddy Y M	Loyola Degree College	chennareddy.pdvl@gmail.com
31	Dr K Dasu Naidu	GMR Institute of Technology	dasumaths@gmail.com
32	Dilip Bharat Panchal	MIT Academy of Engineering Alandi D Pune	dbpanchal@mech.maepune.ac.in
33	Devender Kumar Dhaked	Rajasthan College of Engineering For Women	dd.rcew@gmail.com
34	Deepak Kumar	ITM Maharajganj	deepakkumar6940@gmail.com

## List of Participants in SKIT AMSET 2020 (23 - 27, Sep, 2020)

35	Deepti	Shivaji College, University of Delhi, Delhi	deepti_math@yahoo.com
36	Subhalaxmi Dey	College of Engineering and Technology, Bhubaneswar	deysubhalaxmi680@gmail.com
37	Dilip Kumar Agore	IPS Academy, Indore	dilip.agore@gmail.com
38	Disha A. Shah	C. U. Shah University, Wadhwan City	disha_154@yahoo.co.in
39	Dr. Divya Saxena	Jagannath University	divyasaxena0516@gmail.com
40	Dr Poonam Dixit	UIET CSJMU Kanpur	dixit_poonam14@rediffmail.com
41	Dharmendra Singh	Institute of Technology and Management	dksinghitm@gmail.com
42	Dr. Abdul Ameen	Jawaharlal Darda Institute of Engineering and Technology Yavatmal	dr.abdulameen@gmail.com
43	Dr. A. Sasireka	PSNA College of Engineering and Technology	dras.pсна@gmail.com
44	Dr. Shabnum Qureshi	Govt College of Education Iase Cluster University Srinagar	drshabnum.qureshi@gmail.com
45	Dr. Shweta Singh	Jagran Lakecity University Bhopal	Drshweta.singh2011@gmail.com
46	Dr. Thaduru Shyam Sundar	University of Technology and Applied Sciences, Ibra	drthaduru@gmail.com
47	Dr. Vijay Kumar Tripathi	Guru Jambheshwar University of Science & Technology, Hisar	drvijaym1999@gmail.com
48	Vipin Kumar	BKBIET	drvkmaths@gmail.com
49	A. Durgaselvi	Sadakathullah Appa College, Tirunelveli	durgamuthu9526@gmail.com
50	Durga Nandhini M	Sri Ramakrishna College of Arts and Science for Women	durganandhini08@gmail.com
51	Franklin Richard R	PUMS, Keelasevanoor	fran70shee72@gmail.com
52	Garvit Gupta	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	garvitgupta5@gmail.com
53	Kandi Geetha Lakshmi	Adikavi Nannaya University, Rajamahendravaram.	geethaknd@gmail.com
54	Geethapriya V	St. Peter's Training College Kolenchery	geethapriyavasudev@gmail.com
55	Mr. M. Gnanasekar	Rathinam College of Arts And Science	gnanasekar.kalam@gmail.com
56	G. Govindharaj, Ap/Maths	M. Kumarasamy College of Engineering, Karur	govindharajg.snh@mkce.ac.in
57	Dr. Gulshan Choudhary	NIET, Alwar	gulchoudhary66@gmail.com
58	Dr Sumit Gupta	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	guptasumit05@gmail.com
59	Mr. G. Chandrasekaran	Sethupathy Govt. Arts College, Ramanathapuram	gurunivedhasekarani@gmail.com
60	Dr. Gururaj.N	Ballari Institute of Technology and Management, Ballari	gururajn135@gmail.com
61	Dr. Hafsah Jan	IASE College Srinagar	hafsahjan786@gmail.com
62	Hansraj Choudhary	CLG Institute of Engineering & Technology	hansrajchoudhary3@gmail.com
63	Jagtap Harshal Subhashrao	R. C. Patel Institute of Technology, Shirpur	harshaljagtap88@gmail.com
64	Ms. J. Hellan Priya	M. Kumarasamy College of Engineering, Karur	helanje14@gmail.com
65	Mr. Haile Habenom Anteneh	Wollo University, Ethiopia	hhabenom01@gmail.com
66	Varshney Kumar Patel	ITM Maharajganj	hodcivil472@gmail.com
67	Mr. Naveen Kumar	Chandigarh University, Gharuan	imnaveenphd@gmail.com
68	Nooruddin Khan	ITM Maharajganj	info2nooruddin@gmail.com
69	I. Paulraj Jayasimman	AMET Deemed to be University, Chennai	ipjayasimman@gmail.com

## List of Participants in SKIT AMSET 2020 (23 - 27, Sep, 2020)

70	Ipsita Samal	College of Engineering and Technology, Bhubaneswar	ipsitachhabi@gmail.com
71	Mr. Shaikh Jamir Salim	R C Patel Institute of Technology Shirpur	jamir.shaikh786@gmail.com
72	Dr Nawal Kishor Jangid	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	jangid.0008@gmail.com
73	Jasmin Dora	College of Engineering and Technology, Bhubaneswar	jasmin.97.dora@gmail.com
74	Dr Jyoti Arora	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	jjyotiset09@gmail.com
75	Mrs.K.Glory Prasanth	S.A.Engineering College	k_glory25@yahoo.com
76	Dr. Aditi Khandelwal	IPS Academy, Indore	kaditi18@gmail.com
77	Kailash Soni	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	kailash100ni.er@gmail.com
78	Dr. K.Kalaiaarasi	Cauvery College for Women Autonomous	Kalaishruthi12@gmail.com
79	B Kalaivani	Government Arts College Coimbatore Tamilnadu India	kalaivanib@bitsathy.ac.in
80	Dr K.Kumara Swamy	GMR Institute of Technology	kallakumaraswamy@gmail.com
81	S.Kannadhasan	Cheran College of Engineering	kannadhasan.ece@gmail.com
82	Karpura Subasita Sahoo	ITER,Siksha O Anusandhan, Bhubaneswar	karpura97@gmail.com
83	Deepika Jain	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	khandelwaldeepika5@gmail.com
84	Kiran S	Nitte Meenakshi Institute of Technology	kiranmath@gmail.com
85	M.Kiruthika	Hindusthan College of Engineering And Technology	kiruthikapriya17@gmail.com
86	Prof. Shiva Shankar K M	ACS College of Engineering, Bengaluru	kmshivashankar@gmail.com
87	Kondapureddy Venkata Reddy	Rise Krishna Sai Prakasam Group of Institutions	kondapureddyv@gmail.com
88	Mr. Kelelaw Tilahun Aregahegn	Wollo University	cta3151@gmail.com
89	Bharti Kushwaha	Vivekananda Global University	kushwahabharti1984@gmail.com
90	Dr. R. L. Naidu	GMR Institute of Technology	lakshumnaidu.r@gmrit.edu.in
91	Lalitha Ramachandran	R.M.K Engineering College	lar.sh@rmkec.ac.in
92	Mr. Bondapalli Lakshmana Rao	Aditya Institute of Technology And Management	laxman.maths@gmail.com
93	Lambodar Majhi	Vikram Deb (Auto) College, Jeypore; Dist:Koraput (Odisha)	ldrmajhi@gmail.com
94	Srabana Naik	Janata College Boinda, Angul	leonardkrishna1995@gmail.com
95	Elumalai V	Anand Institute of Higher Technology Chennai	malai.v7@gmail.com
96	Dr Manita Bhagtani	S S Jain Subodh PG Autonomous College Jaipur	manitabhagtani@gmail.com
97	Manoj Singh	Jazan University	manoj Singh1181@gmail.com
98	Sk Mastan	SV College of Engineering Tirupati	mastan.sk@svcolleges.edu.in
99	A. Issai Arasi	Sadakathullah Appa College (Autonomous)	mathiarasi157@gmail.com
100	A. Venkatachalam	M.Kumarasamy College of Engineering, Karur	mathvenkat@gmail.com
101	Meenakshi Singhal	IIS, Jaipur	meenakshi.singhal@iisuniv.ac.in
102	Miji Philip	TKM Institute of Technology	mijiphilip@gmail.com
103	Narayan Mishra	Anandapur College Anandapur	mishranarayan1966@gmail.com
104	Mitali Madhusmita Nayak	ITER, Siksha O Anusandhan Deemed To Be University	mitalinayak@soa.ac.in

## List of Participants in SKIT AMSET 2020 (23 - 27, Sep, 2020)

105	Soniya Lalwani	Bal Krishna Institute of Technology, Kota	mlalwani.ee@gmail.com
106	Mr L Narendra Mohan	SV College of Engineering Tirupati Chittoor Dist Andhra Pradesh	mohan.narendra3@gmail.com
107	Mohanappriya G	Kongunadu Arts and Science College,	mohanappriyag25@gmail.com
108	Monro Copingco Dominise	University of Technology And Applied Sciences - Ibra, Oman	monro@ict.edu.om
109	Madhusmita Pradhan	College of Engineering And Technology, Ghatikia, Bhubaneswar	msp270299@gmail.com
110	M. Muthukumar	R. M. K Engineering College	muthukumar.rmkec@gmail.com
111	N.V.Sivarao	Rise Krishna Sai Prakasam Group of Institutions	nagallasivarao@gmail.com
112	Dr. Narayan Partap	Govt. Lecturer, H. E. S - II, Haryana	narayan.maths81@gmail.com
113	Nowshina	Government College of Education	nausheenazargar@gmail.com
114	Dr Naveen Jha	Govt Engineering College Bharatpur	naveenjha2410@gmail.com
115	Nimit Jain	Arya College of Engineering and IT	nimitjain1581@gmail.com
116	Nirmala P	SKL Public School	nirmalavivek2014@gmail.com
117	Nisha Ponnachan	St.Stephen's College, Pathanapuram	nishaponnachen97@gmail.com
118	Nisha	Tiruppur Kumaran College For Women	nishasundaram1990@gmail.com
119	Dr. Nishi Rastogi	National P. G. College, Lucknow	nishirastogi12@gmail.com
120	Navneet Lal Sharma	Amity University Haryana	nlsharma@ggn.amity.edu
121	Nupur Srivastava	IIHMR University	nupur2209@gmail.com
122	Mr. Abdi Oli Feyissa	Wollo University	olbiratkaku@gmail.com
123	Om Prakash	JECRC University Jaipur	om.prakash1@jecrcu.edu.in
124	Dr. Omprakash Sikhwal	Poornima Institute of Engineering and Technology, Jaipur	om.sikhwal@poornima.org
125	Dr.Kailas Vasant Patil	SES R.C.Patel Junior Asharam College,Waghadi	patilkv123@gmail.com
126	Pawan Kumar Jain	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	pawan_hep@yahoo.com
127	Dr.P.Balamurugan	M.Kumarasamy College of Engineering Karur	pbalamurugan1986@gmail.com
128	Anusha.P. U.	T K M College of Engineering, Kollam, Kerala	peeyooshap@gmail.com
129	Pinkey Chauhan	Jaypee Institute of Information Technology	pinkeychauhan030@gmail.com
130	Renu Vijay	Golden Era Academy	pinkvij@gmail.com
131	Dr. P. L. N. Varma	VFSTR	plnvarma@gmail.com
132	Pooja Jain	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	poojajain624@gmail.com
133	Mr. Prabuddha Giri	Ramnagar College	prabuddhagiri7@gmail.com
134	Dr Pradip Kumar Gaur	JECRC University, Jaipur	pradeep.gaur@jecrcu.edu.in
135	Km. Pragya Mishra	Madan Mohan Malaviya University of Technology, Gorakhpur	pragyamishra1810@gmail.com
136	Prakash.R	Rathinam Technical Campus	prakashmeetsu@gmail.com
137	Dr Pramila Kumawat	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	pramila_math@yahoo.co.in
138	Renuka P	Erode Sengunthar Engineering College, Erode, Tamil Nadu	prenuka.maths@gmail.com
139	Amit Srivastava	ITM Maharajganj	professoramitsrivastava@gmail.com

## List of Participants in SKIT AMSET 2020 (23 - 27, Sep, 2020)

140	Pulkit Kumar	Indian Institute of Technology (ISM), Dhanbad	pulkitkumar.maths@gmail.com
141	Dr. Puspendu Rakshit	Jagannath Kishore College, Purulia, West Bengal	pushmath@gmail.com
142	Rachana Desai	Khyati School of Engineering	rachanadesai.kse@gmail.com
143	Dr Aasma Rafiq	DSEK Srinagar, J&K	rafiqaasma@gmail.com
144	Er. Rahul Sahu	S. V. College of Agricultural Engineering and Technology And Research Station, Igkv, Raipur (C.G.)	rahulsahu289@gmail.com
145	Dr. Raish Muhammad	Modern Institute of Technology & Research Centre, Alwar	raishmuhammad@gmail.com
146	Ram Shiromani	NIT Trichy	ram.panday.786@gmail.com
147	Dr. Rameshwar Singh	Govt. Degree College Bhaderwah (J&K)	ranarameshwar95@gmail.com
148	Rasik Shah	Department of Mathematics, Uka Tarsadia University	rasik.shah@utu.ac.in
149	Dr H Ravi Sankar	Loyola Degree College(Ysrr), Pulivendula. AP	ravisankarhariyapuraju@gmail.com
150	Shivraj Regar	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	regarshivraj@gmail.com
151	Ms Rekha	Pt NRS Govt College ,Rohtak	rekha02647@gmail.com
152	Rishpal Pooniya	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	rishpalpooniya@gmail.com
153	Ritesh Kumar	ITM Maharajganj	riteshkumar268@gmail.com
154	Mr. Rajesh Kumar Singh	Institute of Technology and Management Maharajganj	rksdd472@gmail.com
155	Laxmankumar T	TMREIS, TMRS Suryapet	roundtheglobes@gmail.com
156	Ruchi Seth	JECRC University	ruchi.seth@jecrcu.edu.in
157	Dr. Ruchika Mehta	Manipal University Jaipur	ruchika.mehta@jaipur.manipal.edu
158	R. Valarmathi	R. M. K Engineering College	rvi.sh@rmkec.ac.in
159	Dr. Satish Kumar Rajouria	Zakir Husain Delhi College University of Delhi	s.k.rajouria@gmail.com
160	Mrs. S. Vasanthi Devi	Sadakathullah Appa College	s.v.devi1994@gmail.com
161	Sagar Sarjerao Borse	MET Institute of Technology Nashik	sagarborse2286@gmail.com
162	Shantanu Kumar Sahoo	Banki College (Autonomous), Banki	sahooshantanu799@gmail.com
163	Shubham Sahu	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	sahu20shubham@gmail.com
164	Dr.T.Suneetha	Loyola Degree College	saiyasmitha@gmail.com
165	Dr Sangeeta Choudhary	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	sangeeta11rc@gmail.com
166	K.Sangeetha	Bannari Amman Institute of Technology	sangeetha@bitsathy.ac.in
167	A. Sangeetha Devi	P. A. College of Engineering and Technology	Sangeethapacet@gmail.com
168	Sanjay Kumar	Institute of Technology and Management Maharajganj	sanjaykumr1107@gmail.com
169	Sanjay Sharma	Manipal University Jaipur	Sanjaysharma5416@gmail.com
170	Sapna Meena	MNIT Jaipur	sapnabesar1996@gmail.com
171	Sarita Poonia	JECRC	saritapoonia.math@jecrc.ac.in
172	Dr. Satish Desale	R.C.Patel Institute of Technology, Shirpur	satishdesale@gmail.com
173	Sayandeep Pal	University of Kalyani, West Bengal	sayandeepal98@gmail.com

## List of Participants in SKIT AMSET 2020 (23 - 27, Sep, 2020)

174	Mrs.T.Visalakshi	Jawahar Bharati Degree College, Kavali	seenukushi99999@gmail.com
175	Mr. Gosala Sekhar Babu	Government College (Autonomous) Rajahmundry	sekhar1983@gcrjy.ac.in
176	Shahbaz Ahamad	ITM, Maharajganj	Shahbazahamad1991@gmail.com
177	Ms.S.Yasotha	M. Kumarasamy College of Engineering, Karur	shanmugam.yaso08pm16@gmail.com
178	Suman Sharma	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	sharma_sumi2000@yahoo.com
179	Dr Shalini Shekhawat	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	shekhawatshalini17@gmail.com
180	Shrawan Ram	JJET Jodhpur	shrawanram.patel@gmail.com
181	Shruti S. Sheth	Sarvajani College of Engineering & Technology, Surat, Gujarat.	shruti.sheth@scet.ac.in
182	Shubham Kumawat	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	shubham.kumawat@skit.ac.in
183	Shyam Sundar Gupta	ITM Group of Institution, Maharajganj	Shyamgupta1891me@gmail.com
184	Surabhi Sharma	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	simmssharma11@gmail.com
185	Nidhi Singh	ITM Group of Institutions, Chehari Maharajganj	sinidhi302@gmail.com
186	R. Sivasamy	M. Kumarasamy College of Engineering	sivasamymaths@gmail.com
187	Dr.S.Maheswari	M.Kumarasamy College of Engineering	smaheswari28@gmail.com
188	Sonia	S.D.P. College For Women	soniamaggio555@gmail.com
189	Rajakumaran V	Acharya College of Education	srajakumar23@gmail.com
190	Dr Sreejil K	PRIST University	sreejilkottayi@gmail.com
191	Sriram Yavagoni	Vignana Bharathi Institute of Technology	sriram.yavagoni@gmail.com
192	Nitesh Srivastava	ITM Maharajganj	srivastavanitesh87@gmail.com
193	Subasini Korah	College of Engineering and Technology, Bhubaneswar	subasinikh@gmail.com
194	Subhashree Mishra	CET, Bbsr	subhashreejune10@gmail.com
195	Sudeshna Ghosh	Amity University Haryana	sudeshnagh108@gmail.com
196	G Arulselvan	Ibra College of Technology	sujaarul1@gmail.com
197	Dr S. Suneetha	Yogi Vemana University	suneethayvu@gmail.com
198	Supratim Das	College of Engineering and Technology, Bhubaneswar	supratimiiitkgp@gmail.com
199	Mr. Suryakanta Pal	Model Degree College, Malkangiri	surya_tuna@yahoo.co.in
200	Mrs.S.Meher Taj	AMET Deemed to be University, Kanathur,Chennai	taj.meher@gmail.com
201	Aditi Tiwari	ITM Maharajganj	tiwariaditi177@gmail.com
202	Dr Tripati Gupta	Jaipur Engineering College and Research Centre	tripati610@yahoo.com
203	Tushar Nishad	Govt.V.Y.T.Pg Autonomous Collegw Durg	tusharnishad65044@gmail.com
204	Dr. Vimala Shanmugavel	Mother Teresa Women'S University Kodaikanal	tvimss@gmail.com
205	Ms. Vaishnawi	Amity University, Noida, U.P.	vaishnawi1994@gmail.com
206	Dr Bhavna Sharma	SBCET	vallabhibhanu@gmail.com
207	Mrs.T.Vennimalai	Sri Sarada College for Women(Autonomous),Tirunelveli	vennimalai2020@gmail.com
208	Gayathri V	Sri Krishnasamy Arts And Science College	vgayathri144@gmail.com

### List of Participants in SKIT AMSET 2020 (23 - 27, Sep, 2020)

209	Vidushi Mishra	Govt. Model College Shahpura District Dindori	vidushii85@gmail.com
210	Vighnesh Ji Patel	Institute of Technology and Management Maharajganj	vighneshji@gmail.com
211	Dr Vijay Kumar Singhal	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	vijaysinghal01@gmail.com
212	Dr.Vishal Saxena	Jaipur Engineering College and Research Center	vishalsaxena.math@jecrc.ac.in
213	Vishnu Jangid	Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur	vishnu.jangid@skit.ac.in
214	Dr Vivek Vijay	Swami Keshvanand Institute of Technology , Management & Gramothan, Jaipur	vivek.vijay@skit.ac.in
215	P.Kamalaveni	Dr.N.G.P Institute of Technology	wishesveni@gmail.com
216	M.Ramya	M.Kumarasamy College of Engineering, Karur	Www.ramyayashini@gmail.com
217	Dr. Yaghvendra Kumawat	Vivekananda Global University, Jaipur	yagyavendra@gmail.com
218	Dr. Yogita Chandel	IPS Academy, Department of Commerce, Indore	yogitachandel20@gmail.com
219	Yudhveer Singh	Amity University Rajasthan	yudhvir.chahal@gmail.com