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APPLIED SCIENCE AND HUMANITIES DEPARTMENT



Two days Workshop Report on

"Mathematical Modelling & their Applications in Sciences & Engineering"

8th-9th January, 2021



Organized by:



Applied Science & Humanities Department

S. N. Patel Institute of Technology & Research Centre Umrakh- Bardoli

Sponsored by

Gujarat Council on Science & Technology (GUJCOST), DST,
Govt. of Gujarat

Report Prepared by:

Dr. Mansi N. Zaveri



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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

TITLE OF WORKSHOP

"Mathematical Modelling & their Applications in Sciences & Engineering"

CATEGORY

Workshop

DATE AND DURATION

 $8^{TH} - 9^{TH}$ January, 2021 (Two Days)

VENUE

(Online Mode)

Sitarambhai Naranji Patel Institute of Technology & Research Centre, Umrakh, Bardoli

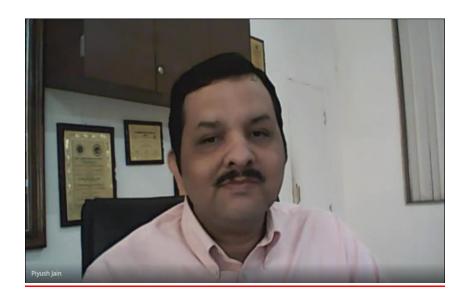
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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

INAUGURAL FUNCTION



Dr. Piyush S. JainPrincipal,
SNPIT & RC, Umrakh

Dr. Mansi N. Zaveri

I/C Head, ASH Dept. SNPIT & RC, Umrakh Coordinator of Workshop



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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

INVITED SPEAKERS/EXPERTS

Speaker-1

Name	Dr. Jayesh M. Dhodiya	
Designation	Associate Professor, Applied Mathematics & Humanities Department	
Name of Institute	Sardar Vallabhbhai National Institute of Technology, Surat	
Contact Details	9825347040	
Topic of Lecture	Session-1: Mathematical Modelling on Real World Problems	
	Session-4: Mathematical Modelling on Multiobjective Optimization	

Speaker-2

Name	Dr. Kaushal B. Patel	
Designation	Assistant Professor, Department of Mathematics,	
Name of Institute	Veer Narmad South Gujarat University, Surat	
Contact Details	9427541236	
Topic of Lecture	Session-2: Mathematical Modelling on ODE	
	Session-5: Mathematical Modelling on Linear Algebra	

Speaker-3

Name	Dr. Mukesh T. Patel	
Designation	Assistant Professor, Department of Mathematics,	
Name of Institute	Uka Tarsadia University, Bardoli	
Contact Details	6355158533	
Topic of Lecture	Session-3: Digital Image Processing	
	Session-6: Mathematical Modelling on PDE	

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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

REGISTERED PARTICIPANTS

Sr. No.	Name	Institutions
1	Soni Zeel A.	Snpit&Rc
2	Dhairya Shah	Snpit
3	Vibhuti Amrutbhai Patel	Caet,Nau
4	Dr Vipul Hasmukhbhai Mistry	Snpit & Rc, Umrakh
5	Dr. Nisha Soni	S.N.Patel Institute Of Technology And Research,
		Umrakh.
6	Jyoti Chaudhari	Shree K.J.Polytechnic,Bharuch
7	Kaushal Raval	Shankersinh Vaghela Bapu Institute Of Technology
8	Harshit Bhavsar	Sal College Of Engineering
9	Patel Mittal	Shankersinh Vaghela Bapu Institute Of Technology
10	Ashutosh Mishra	Rgpv Bhopal
11	Mihirbhai Lallubhai Prajapati	B.V.P.I.T.(D.S),Umrakh,Baben Bardoli
12	Jinal M. Naik	S. N. Patel Institute Of Technology And Research
		Center, Umrakh
13	Parmar Roshani Kantibhai	liht, Surat
14	Dr. E. Rama Devi	Ngm College
15	Khyati J. Patel	S.N.Patel Institute Of Technology And Research
		Center, Umrakh
16	Raj Kamal Kaur	Lovely Professional University
17	Abdul Razak Kaladgi	P A College Of Engineering Mangalore
18	Chaitra Sindagi	National Institute Of Technology Karnataka
19	Sarvam Kamleshbhai Patel	Knowledge Institute Of Technology And
		Engineering, Bakrol
20	Rishekesh Ramesh	Bannari Amman Institute Of Technology
21	R Malarkodi	St Joseph College Of Engineering And Technology
		Thanjavur
22	Dr. Hiral Desai	Laxmi Institute Of Technology, Sarigam(086)
23	G.Ramesh	Ars College Of Engineering, Tamilnadu
24	Subhashree Behera	Knowledge Institute Of Technology And
		Engineering
25	Mr. Chetankumar R. Sohaliya	Narmada College Of Science And Commerce
26	Dr. Pragna Kapil Lad	Shroff.S.R.Rotary Institute Of Chemical Technology.
		Vataria
27	Bhaveshkumar Jivanbhai Khasiya	Gtu
28	Dr. Animesh Kumar Sharma	Swami Vivekanand College Of Agricultural
		Engineering And Technology , Igkv
29	Himanshu Madhad	Chemistry Department, Gujarat University
30	Tejas B. Patel	Snpit & Rc, Umrakh
31	Anita Choudhary	Ggsipuniversity
32	Akash Poddar	Jalpaiguri Government Engineering College
33	Dr.K.Lenin	Prasad V. Potluri Siddhartha Institute Of



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		Technology.
34	Mrs. Rani. S	Government Engineering College , Ramanagara
35	Raval Hiral Parth	L.D.College Of Engineering
36	Kinjal	Seti
37	Dhavalkumar Kantilal Patel	Gidc Degree Engineering College
38	Vaishali Apurva Adhwaryu	L. D. College Of Engineering, Ahmedabad
39	Parth Raval	L.D.College Of Engineering
40	Harshadkumar Patel	Smt. S. R. Patel Engineering College, Unjha
41	Koustav Dutta	Purulia Government Engineering College, West
		Bengal
42	Mrinal Kanti Mandal	Ramkrishna Mahato Government Engineering
		College
43	Harshit Bhavsar	Sal College Of Engineering
44	Hardik G. Soni	Sal Institute Of Technology And Engineering
		Research
45	Mrityunjay Malakar	Purulia Government Engineering College
46	Pulkit Thaker	Sal Education Canpus
47	Nirali Chirag Shah	Sal Institute Of Technology And Research
48	Sweta Hardik Bhatt	Sal College Of Engineering
49	Greeshma Nair	Sal College Of Engineering
50	Suresh G Sorathia	Sal Institute Of Technology And Engineering
		Research
51	Malvi Snehalkumar V.	Sal Institute Of Tecnology & Engg.Research
52	Dhiman Banerjee	Siem, Siliguri
53	Dr. Sejal Desai	Sal Institute Of Technology And Engineering
		Research
54	Niketa Pankajkumar Joshi	Government Polytechnic Bhuj
55	Nili Patel	Sal Engineering & Technical Institute, Ahmedabad
56	Prof.Rajankumar J Lad	Gidc Degree Engineering College
57	Parth Desai	Sal Engineering And Technical Institute
58	Patel Harshad Shantibhai	Central Institute Of Plastics Engineering &
		Technology
59	Shah Samirkumar Amrutlal	Sal Institute Of Technology And Engineering
60	7 1 8:111:84:	Research
60	Zala Riddhi Mitesh	Sal Institute Of Technology And Engineering
C4	Ashis KC	Research
61	Ashin K Sunny	Viswajyothi College Of Engineering And Technology
62	Dr. Manishkumar Vishnubhai Patel	Sankalchand Patel College Of Engineering Visnagar
63	Dr. Reena Gajanandbhai Patel	Sankalchand Patel College Of Engineering, Visnagar
64	Vikaskumar Bhavsar Dr. Vaishali Bhavsar	Sankalchand Patel College Of Engineering, Visnagar
65 66	Urvi G. Trivedi	Sal College Of Engineering Sal College Of Engineering
67	M.V.Bhuvaneswari	Lendi Institute Of Engineering And Technology
68	G.Subinson	Dmi St John The Baptist University
69	Dr.B.Vijaya Lakshmi	Mannar Thirumalai Naicker College
70	Kirit N. Kalariya	Vvp Engineering College, Rajkot
70	Dhaval Mahendrabhai Vyas	Vvp Engineering College, Rajkot
/ 1	Dilavai Malicilulabilai vyas	vvp Liigineering College, Najkot



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70	Aminon Kirnon an Chairean	Laurai Inakituta Of Taahuadaan Cadaan
72	Aryan Kumar Sharma	Laxmi Institute Of Technology, Sarigam
73	Rinkaj Goyal	Ggs Indraprastha University, New Delhi
74	Santosh Kumar Patro	Jharkhand Rural Health Mission Society(Jrhms), Govt. Of Jharkhand
75	Dr. Yusuf Perwej	Department Of Computer Science & Engineering
76	Riddhi R Patel	Dr. Jivraj Mehta Institute Of Technology
77	G.Ramachandran	Vmkvec
78	Sudha Salvi	Bhagwan Mahavir University
79	Sohil M Luhar	Grow More Faculty Of Diploma Engineering,
		Himatnagar
80	Prof.Bharat Suthar	Grow More Faculty Of Engineering
81	Chiragkumar Patel	Hasmukh Goswami College Of Engineering
82	Abdul Razak Kaladgi	P.A College Of Engineering, Mangalore
83	Dr. Nirav Vyas	Atmiya University
84	Manojkumar Vitthalbhai Sheladiya	Atmiya University, Rajkot
85	Sunil Bachani	Dr. Jivraj Mehta Institute Of Technology
86	Divyeshkumar Bhikhubhai Patel	Lukhdhirji Engineering College, Morbi-2
87	Sudha Patel	Sal Engineering And Technical Institute
88	Dhavalkumar S. Chaudhari	Gidc Degree Engineering College Navsari
89	Praveen Kumar Sharma	Laxmi Institute Of Technology
90	Dr.Hiral Desai	Laxmi Institute Of Technology, Sarigam.
91	Divyesh M.Jaisar	Sal College Of Engineering
92	Abirami A	College Of Engineering Guindy
93	Dr. Sandipkumar R Panchal	Knowledge Institute Of Technology And
		Engineering
94	Sangavi V	University Of Madras
95	Shikha Bhatnagar	Rms Institute Of Science & Technology
96	Dr.J.B.Veeramalini	Vel Tech High Tech Dr Rangarajan Dr Sakunthala
		Engineering College
97	Biswarup Modak	Engineering Institute For Junior Executives,
		Government Of West Bengal.
98	Vyom Sonagra	Shantilal Shah Engineering College
99	Palash Kundu	Prafulla Chandra College
100	Sameem Suha M	Thamirabharani Engineering College
101	Ms. S. Karpaga Selvi	National Engineering College, Kovilpatti.
102	Jagdeep Kumar	Sobhasaria Engineering College
103	Modasiya Mohmadshafik A	Grow More Faculty Of Engineering
104	Dr. Anita Rani	lec University, Baddi, H.P.
105	M.Martin Charles	Loyola Icam College Of Engineering And Technology
106	M.Karthik	Sri Shakthi Institute Of Engineering And Technology
107	Dhruti Mayureshbhai Gadiwala	School
108	First Year B.E. & M.E. students	Shri Sitarambhai Naranji Patel Institute of Tech. &
		RC, Umrakh

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PROGRAM SUMMARY

- To introduce mathematics behind the application areas of computing.
- To introduce the process of representing the fundamental concepts of real life problems.
- To learn various mathematical models that relates to real life.
- To provide directions for future research and development by identifying key problems and their viable solutions.
- The first session deals with the introduction and analysis of mathematical modelling on real world problems.
- The second session deals with mathematical models based on ordinary differential equations.
- The third session gives interesting information about digital image processing in context of mathematics.
- Multiobjective optimization and its uses in mathematical model was discussed in fourth session.
- Fifth session deals with the linear algebra based modelling.
- Modelling on partial differential equations was discussed in the sixth session.



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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

WORKSHOP BROCHURE (PAGE-1)

S. N. Patel Institute of Technology & Research Centre, Umrakh-Bardoli, Surat

Two Days Workshop

"Mathematical Modelling and their Applications in Sciences and Engineering"

(8th & 9th January, 2021)

Name:	ALAR
Designation:	100
Educational Qualification:	AIB
Organization:	
Tel./Mobile No.:	
Email:	6-11
Registration Link available at :	m/a
www.snpitrc.ac.in	



Signature of Applicant

Signature of HOD

S. N. Patel Institute of Technology & Research Centre, Umrakh-Bardoli, Surat

TECHNICAL ADVISORY COMMITTEE

- Dr. Jayesh M. Dhodiya, Associate Professor, Applied Mathematics & Humanities Department, SVNIT, Surat
- Dr. Kaushal B. Patel, Assistant Professor, Dept. of Mathematics, VNSGU, Surat
- Dr. Mukesh T. Patel, Assistant Professor, Department of Mathematics, UTU, Tarsadi,

ORGANIZING COMMITTEE

Chief Patrons

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Shri. Kiritbhai N. Patel (Secretary)

Shri. Ashwinbhai H. Patel

(Co-Secretary)

Patron

Dr. Piyush S. Jain

(Principal, SNPIT & RC, Umrakh)

Coordinator

Dr. Mansi N. Zaveri

(Assistant Prof. & Head, ASH Department)

Committee Members

Prof. Khyati J. Patel

Prof. Jinal M. Naik

Prof. Tejas B. Patel

ADDRESS FOR CORRESPONDENCE

Dr. Mansi N. Zaveri Phone: +91-9925445089

Email: mansi.zaveri@snpitrc.ac.in

Prof. Jinal M. Naik Phone: +91-9429533128

Email: jinal.naik@snpitrc.ac.in

S. N. Patel Institute of Technology & Research Centre, Umrakh-Bardoli, Surat

Two Days Workshop

on

Mathematical Modelling and their Applications in Sciences and Engineering

(8th & 9th January, 2021)

Sponsored By





Coordinator

Dr. Mansi N. Zaveri





Organized by

Applied Science & Humanities Department,

S. N. Patel Institute of Technology & Research Centre, Umrakh-Bardoli, Surat

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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

WORKSHOP BROCHURE (PAGE-2)

ABOUT THE INSTITUTE

Vidyabharti Trust is the name associated with education for more than three decades near Bardoli of Surat district and has now evolved as a symbol of quality education dedicated to nurture the talent and aspirations of the bright youth of our nation.

S. N. Patel Institute of Technology & Research Centre is a premier institution approved by the All India Council for Technical Education (AICTE), New Delhi and affiliated with Gujarat Technological University (GTU), Ahmedabad, Gujarat. It was foresight to get talented Engineers in the field of Mechanical, Civil, Electrical, Chemical, Electronics & Communication & Computer Science Engineering. Institute also offers post graduation courses in the area of Construction Management (Civil) and Production Engineering (Mechanical).

ABOUT THE DEPARTMENT

Applied Science & Humanities Department was established since the inception of the S. N. Patel Institute of Technology & Research Centre, Umrakh, Bardoli in 2008 as a department which is dedicated to lay the foundation of students in fundamental sciences and basic humanities. The aim

of the department is to create dedicated engineers who prove to be authentic pillars that serve as a strong edifice of the nation. The department strives to impart quality education in the area of Applied Sciences and Humanities for the future technocrats of engineering streams.

OBJECTIVES OF THE PROGRAMME

- To introduce the mathematics behind the application areas of computing.
- To provide directions for future research and development by identifying key problems and their viable solutions.
- To introduce the process of representing the fundamental concepts of real life problems make uses all the branches of scientific knowledge and functions under different names.
- To share the concepts with the participants of various disciplines related to Mathematics to acquire the knowledge of recent developments in mathematical problems through lectures by reputed speakers.

FOCUS AREAS

- · Introduction of mathematical modelling
- Applications of mathematical modelling on real world problems
- Applications of mathematical modelling regarding Linear Algebra and differential equations

FOR WHOM

The program will provide excellent opportunities for Faculties/Research Scholars/Students from Science and Engineering Department of different colleges.

REGISTRATION FEE DETAILS

The registration fees for participants are given below:

Participants	Amount (in R
Students	0/-
Academicians	0/-

RESOURCE PERSONS

Dr. Jayesh M. Dhodiya Dr. Kaushal B. Patel Dr. Mukesh T. Patel

IMPORTANT DATES

- Last date for Registration -5th January, 2021
- Confirmation of Seat-6th January, 2021



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PHOTOGRAPHS

BANNER OF WORKSHOP



Applied Science & Humanities Department

For Registration Visit www.snpitrc.ac.in

Organizes Two Days Workshop

Last Date for Registration 5th January, 2021

Mathematical Modelling and their Applications in Sciences and Engineering

Principal Dr. Piyush S. Jain





Coordinator Dr. Mansi N. Zaveri

Vidyabharti Campus, At & Po. Baben, Ta.: Bardoli, Dist.: Surat, Pin: 394601



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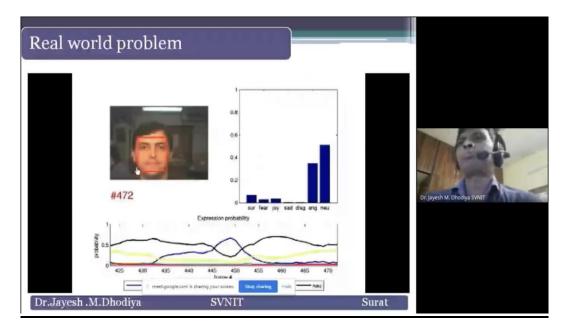
APPLIED SCIENCE AND HUMANITIES DEPARTMENT

EXPERT DELIVERY LECTURES

DAY 1

LECTURE SESSION-1





Dr. Jayesh M. Dhodiya

Delivering expert speech on "Mathematical Modelling on Real World Problems"



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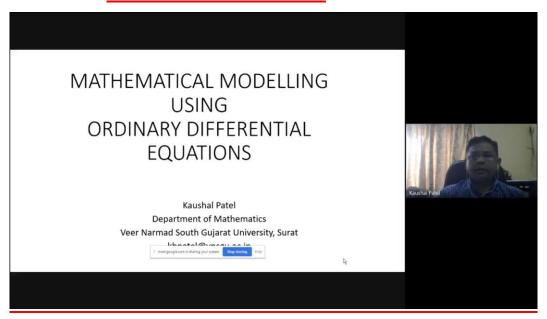
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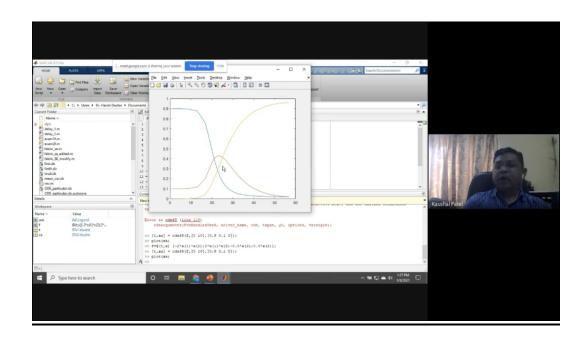
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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

DAY 1

LECTURE SESSION-2





Dr. Kaushal B. Patel

Delivering expert speech on "Mathematical Modelling on ODE"



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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

DAY 1

LECTURE SESSION-3





Dr. Mukesh T. Patel

Delivering expert speech on "Digital Image Processing"



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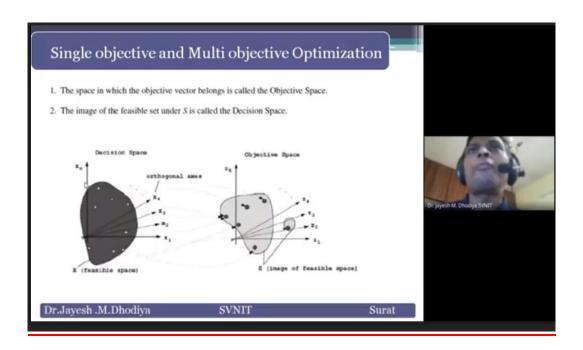
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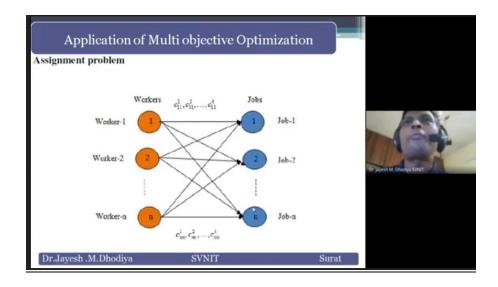
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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

DAY 2

LECTURE SESSION-4





Dr. Jayesh M. Dhodiya

Delivering expert speech on "Mathematical Modelling on Multiobjective Optimization"



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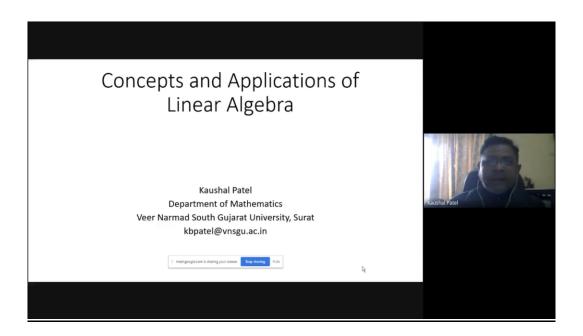
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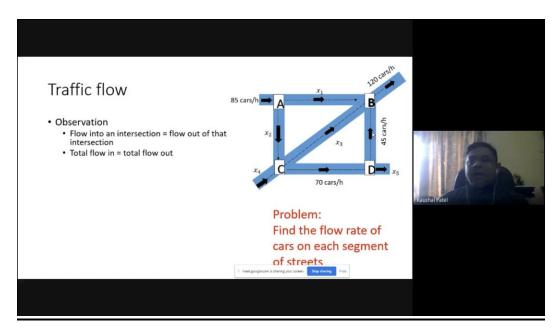
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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

DAY 2

LECTURE SESSION-5





Dr. Kaushal B. Patel

Delivering expert speech on "Mathematical Modelling on Linear Algebra"



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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

DAY 2

LECTURE SESSION-6





Dr. Mukesh T. Patel

Delivering expert speech on "Mathematical Modelling on PDE"

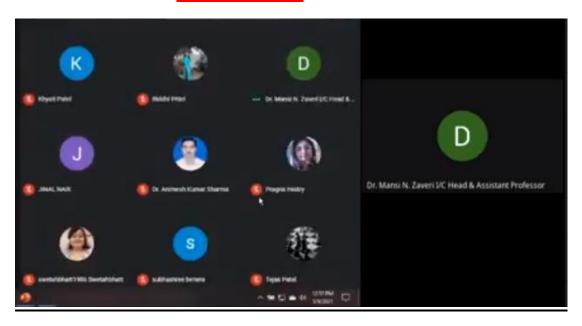


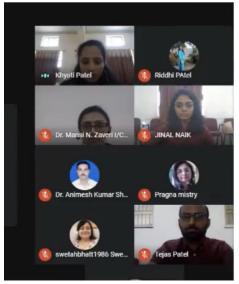
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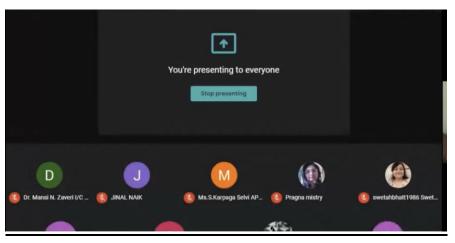
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AUDIENCES









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PRESS RELEASE

બારડોલીની એસ એન પટેલ ઇન્સ્ટિટ્યૂટ ઓફ ટેક્નોલોજી એન્ડ રિસર્ચ સેન્ટર, ઉમરાખના એપ્લાઇડ સાયન્સ એન્ડ હ્યુમેનીટીઝ વિભાગ દ્વારા ગુજકોસ્ટ પ્રાયોજિત બે દિવસના ઓનલાઈન વર્કશોપનું આયોજન

બારડોલી | વિદ્યાભરતી ટ્રસ્ટ ફેઠળ કાર્ચરત સીતારામભાઈ નારણજી પટેલ ઇન્સ્ટિટ્યૂટ ઓફ ટેક્નોલોજી એન્ડ રિસર્ચ સેન્ટર, ઉમરાખના એપ્લાઇડ સાયન્સ એન્ડ હ્યુમેનીટીઝ વિભાગ દ્વારા તા. ૮ અને ૯ જાન્યુઆરી, ૨૦૨૧ ના રોજ ઓનલાઇન વર્કશોપનું આયોજન કરવામાં આવ્યું છે. આ વર્કશોપ GUJARAT COUNCIL OF SCIENCE & TECHNOLOGY (GUJCOST) દ્વારા પ્રાયોજિત છે.

વર્કશોપનો વિષય "Mathematical Modelling & Their Applications in Sciences and Engineering" છે. ગુજરાતની પ્રતિષ્ઠિત સંસ્થામાંથી મેથેમેટિક્સ શાખાના પ્રોફેસરો ઉપસ્થિત રહી અન્ય પ્રોફેસરો તેમજ વિદ્યાર્થીઓને માર્ગદર્શન આપશે. આ વર્કશોપમાં ગુજરાતમાંથી વિવિધ વિજ્ઞાન શાખાઓ તથા ઈજનેરી શાખાના ફેક્લ્ટીઓ તેમજ વિદ્યાર્થીઓ ભાગ લઈ શકશે.

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APPLIED SCIENCE AND HUMANITIES DEPARTMENT

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