

A report on International Workshop on Application of Mathematical Modelling in Engineering and Sciences" (IWAMMES-2023) 18 -22 April 2023

Organized by:
Department of Mathematics
Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur
(Rajasthan), India

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Committees of the Workshop

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Dr. Sangeeta Choudhary, Associate Professor, Department of Mathematics Dr. Shalini Shekhawat, Associate Professor, Department of Mathematics

Organizing committee

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Dr. Vivek Vijay, Assistant Professor, Department of Mathematics

Ms. Surbhi Sharma, Assistant Professor, Department of Mathematics

Dr. Deepika Jain, Assistant Professor, Department of Mathematics

Dr. Amit Dadheech, Assistant Professor, Department of Mathematics

Letter of Approval from College

S.No	Types of Event*	Title of Event	Mode of Conduction	Proposed Date	Name of Coordinator	Any Collabor ation	Budget Requ
1	International Conference	International Conference on Theory and Applications of Mathematics	Hybrid Mode	24-25 Feb, 2023	Dr Sangeeta Choudhary	Yet to be sought	70,000 /-
2	Student Workshop	5 Day Student workshop on MATLAB	Offline	15-19 May, 2023	Dr Nawal Kishor Jangid, Dr Vivek Vijay	No	Not Required (Inhouse Activity)
	28.	yes ferm frammele 3h. 9.22 for Jan			(Dr Amber Srivaste Prof & Head-Depa	rtment of M	lathematics

Department Of	Mathematics
Department UI	Marie

S.No	Types of Diens	Title of Event	Mode of Conduction	Proposed Date	Name of Coordinator	Collabor ation	Dauge
1	International	Change to Ludennehman	Hybrid Mode	24-25 Feb, 2023	Dr Sangeeta Choudhary	Yet to be sought	/0,000
2	Conference Student Workshop	5 Day Student workshop on	Offline	15-19 May, 2023	Dr Nawal Kishor Jangid, Dr Vivek Vijay	No	Not Required (Inhouse Activity)
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	Approve	9.22	9.52	Ν.	Prof & Head-De	partment of	Mathematics

Notice of Workshop



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Notice

Date: 27/02/2023

We are pleased to inform you that the Department of mathematics, Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT), Jaipur (Rajasthan), India is organizing an International International Workshop on "Application of Mathematical Modelling in Engineering and Sciences" (IWAMMES-2023) from 18-22 April 2023 in offline mode.

There registration fee is as follows:

- for faculty-1000/,
- · research scholar or PG students-500/
- For UG students-300/

For more details you can go through the brochure of the workshop on the institute website. The participants have to register online through the given link- https://rzp.io/VIM331za

For more information contact:

Dr. Sangeeta Choudhary

Associate Professor, Department of Mathematics, SKIT, Jaipur

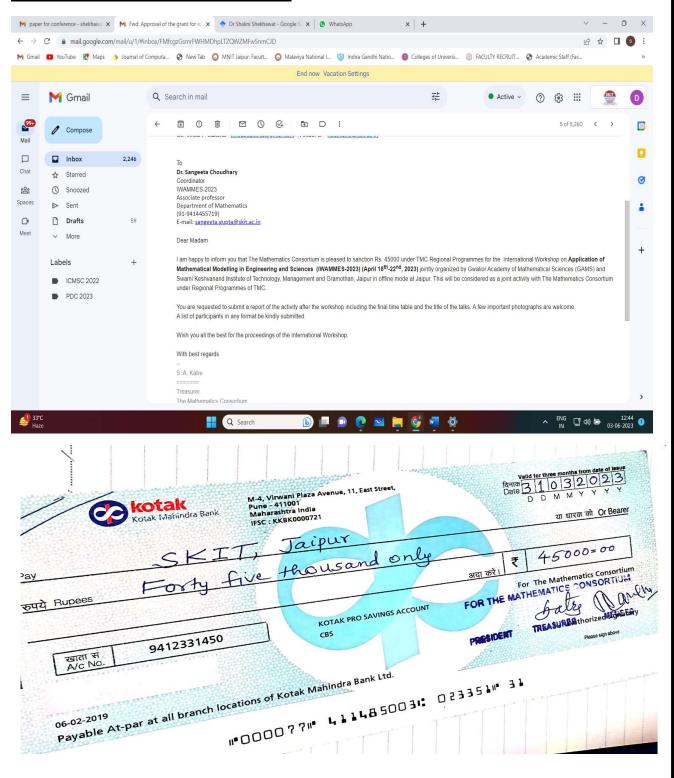
Mobile: + 91-9414455719

Dr. Shalini Shekhawat

Associate Professor, Department of Mathematics, SKIT, Jaipur

Mobile: +91 9461628510

Documents of Collaboration



Objectives of Workshop

The main objective of the "International Workshop on Application of Mathematical Modelling in Engineering and Sciences" (IWAMMES-2023) is to provide knowledge and on hand training of Advanced Techniques of Mathematical Modelling in Air Pollution, Fluid Dynamic, Biological Systems, Ecology and AI. This will be covered by oral presentation and computer-based practicals in physical mode. Experts associated with different fields of mathematics and statistics are invited to share their knowledge with us.

Outcome of Workshop

Expected outcomes of the conference are to:

- 1)Disseminate research discoveries by using innovative means of lecturing and presenting.
- 2) provide a platform to the participants to upgrade their knowledge on recent Advanced Techniques of Mathematical Modelling in Air Pollution, Fluid Dynamic, Biological Systems, Ecology and AI.

Brochure of the Workshop

PATRONS

Mr. Raja Ram Meel, Patron SKIT, Jaipur Mr. Surja Ram Meel, Chairman SKIT, Jaipur

ADVISORY BOARD

Prof. V. P. Saxena, Bhopal Dr. M. A. Khanday, Srinagar Dr. V H. Pradhan ,Surat Dr.K R. Pardasani, MANIT, Bhopal Dr. PS. Rajput, Sage Group, Bhopal

INSTITUTE ADVISORY BOARD

Shri Jaipal Meel, Director, SKIT, Jaipur Prof. S. L. Surana, Director (Academics), SKIT, Jaipur

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Mrs. Abba Meel, Advisor, SKIT Prof. R. K. Jain, Dean, SKIT, Jaipur Prof. Rohit Mukherjee, I/C B.Tech. I Year Prof. Amber Srivastava, HOD-Maths Prof. Anil Choudhary, HOD-IT Prof. Mukesh Kumar Gupta, HOD-CS Prof. D.K. Sharma, HOD-Civil Prof. Dheerai Joshi, HOD-ME Prof. Mukesh Arora, HOD-EC Dr. Sarfarazj Nawaz, HOD-EE Prof. Brajraj Sharma, HOD-Physics Dr. Sharda Soni, HOD-Chemistry

Prof. Neha Purohit, HOD- English

Prof. Ona Ladiwal, HOD-MBA

CONVENERS

Dr. Sangeeta Choudhary, Asso. Prof., Dept. of Mathematics

Dr. Shalini Shekhawat, Asso. Prof., Dept. of Mathematics

ORGANIZING COMMITTEE

Dr. Pramila Kumawat, Prof., Dept. of Mathematics Dr. V. K. Singhal, Asso. Prof., Dept. of Mathematics Dr. Jyoti Arora, Asso. Prof., Dept. of Mathematics Dr. N. K. Jangid, Asso. Prof., Dept. of Mathematics Mr. C. P. Jain, Asst. Prof., Dept. of Mathematics Dr. Vivek Vijay, Asst. Prof., Dept. of Mathematics Dr. Sumit Gupta, Asso. Prof., Dept. of Mathematics Ms Surbhi Sharma, Asst. Prof., Dept. of Mathematics Ms Deepika Jain, Asst. Prof., Dept. of Mathematics Mr. Amit Dadheech, Asst. Prof., Dept. of Mathematics

PAYMENT DETAILS & LINK

Category	Payment
Faculty	1000 INR
Research Scholar/ PG student	500 INR
UG Student	300 INR

https://rzp.io/l/IM331za

CONTACT PERSONS

Dr. Sangeeta Choudhary Dr. Shalini Shekhawat 91-9461628510 Mail Id: sangeeta.gupta@skit.ac.in, drshalini@skit.ac.in

Five Days International Workshop

"Application of Mathematical Modelling in Engineering and Sciences"

April 18-22, 2023

Sponsored by



The Mathematics Consortium Jointly Organized by



Gwalior Academy of Mathematical Science (GAMS)



Department of Mathematics Swami Keshvanand Institute of Technology, Management & Gramothan Jaipur

ABOUT SKIT JAIPUR

Swami Keshvanand Institute of Technology, Management & Gramothan (SKIT) inspired from the learnings of Swami Keshvanand, was established in the year 2000 by Technocrats and Managers Society for Advance Learning. Today the Institution is recognized as one of the centres of academic excellence in Northern India.

The Institute is affiliated to Rajasthan Technical University (RTU), Kota for offering Ph.D. Postgraduate and Graduate Courses in Engineering and Management. The Institute is approved by All India Council for Technical Education (AICTE), New Delhi. Engineering branches are accredited by National Board of Accreditation (NBA), New Delhi and also by Institute of Engineers, Kolkata.

Located in the Pink City Jaipur, which is a blend of traditional history & modern outlook, SKIT is putting in efforts for making industry ready engineers and managers through effective Industry-Institute Interface. Apart from university curriculum SKIT also pursues activities for research and development in various fields.

SKIT has been consecutively ranked No.1 in engineering programmes for 5 years from 2017-18 to 2021-22 in Rajasthan by RTU, Kota

For further information visit: www.skit.ac.in

ABOUT GAMS

Gwalior academy of mathematical science (GAMS) was started on 11 December 1993 at Jiwaji University, Gwalior and opened its membership in January 1994. Professor V. P. Saxena, Former Vice- Chancellor of Jiwaji University, Gwalior, and the founder President along with researchers and faculty members of the Gwalior region played a vital role in the establishment of GAMS with the objective to develop research interest in mathematics amongst the scholars, to promote teaching and research areas in mathematical sciences. Since then, it has been involved toward the upliftment of mathematics by publishing news bulletins, research journals and organizing annual conferences, workshops and seminars in interdisciplinary areas. Annual conferences of the society have been held at various NIT's, universities and other reputed engineering colleges in different part of the country. GAMS has become

a highly reported society among large research communities not only from India but also abroad. GAMS is the only Indian society that is the member of the world

ABOUT THE DEPARTMENT
The Department of Mathematics , teaches various Mathematics to Under Graduate 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. To keep in touch with the evergrowing technological developments in the relevant fields, the members regularly participate in refresher courses symposia, seminars and conferences organized by various universities and research institutions all over the country. They also hold memberships of various national academic

OBJECTIVE OF THE WORKSHOP

To provide knowledge and on hand training of Advanced Techniques of Mathematical Modelling in Air Pollution, Fluid Dynamic, Biological Systems, Ecology and Al. This will be covered by oral presentation and computer based practical's in physical mode.

PROPOSED EXPERTS AND SPEAKERS

Professor V.P. Saxena Professor V.H. Pradhan Dr K. R. Pardasani Dr. Sudhir Sharma Dr. D. S. Chouhan Dr. Jugal Prajapat Professor Milan Stelhik Dr Praveen Agrawal Professor S.A.Katre Professor S.Sunder Dr. Lata Chanchlani

JU Gwalior/Bhopal SUNIT, Surat MNIT, Bhopal LNMIIT, Jaipur UOR, Jaipur Central University, Aimer JKU.Austria AICE, Jaipur

Univ. of Pune, Pune

IIT, Chenna

UOR, Jaipur

REGISTRATION FORM

Five Days International Workshop on "Application of Mathematical Modelling in Engineering and Sciences"

April 18-22-2023

lame:
In block letters)
Designation:
Organization:
Address for Communication:
Mobile No:
email:
Payment Details:
Amount in Rs
Reference ID
Dated:
Bank Detail

Schedule of Programme

Tentative Technical Schedule

Venue(Inaugural Ceremony): J. C. Bose Seminar hall

Venue (Technical Sessions): A. P. J. Abdul Kalam Seminar Hall

Prof. Renu Jain, VC-DAVV, Indore Prof. V. H. Pradhan S.V.H. Prof. V. H. Pradhan S.V.H. Prof. V. H. Pradhan S.V.H. Prof. Renu Jain, VC-DAVV, Indore Prof. V. H. Prof. Renu Jain, VC-DAVV, Indore Prof. V. H. Prof. Renu Jain, VC-DAVV, Indore Prof. Renu Jain, VC-DAVV, Indore Prof. V. H. Prof. Renu Jain, VC-DAVV, Indore Prof. V. H. Prof. Renu Jain, VC-DAVV, Indore Prof. V. H. Prof. Renu Jain, VC-DAVV, Indore Prof. Renu Jain, VC-DAVV, Indore Prof. V. H. Prof. Renu Jain, VC-DAVV, Indore Prof. Renu Jain, VC-DAVV, Indo	Day/Date	Time	Event	Resource person		
DAY-I Tuesday 18/4/23 10:15 am-11:45 am		9:15 am-9:45 am	Inaugural function			
Tucsday 18/4/23 11:45 am-1:15pm Plenary session-II Prof. Karmeshu, JNU Prof. V. P. Saxena, Ex-VC, Jiwaji University, Gwalion Prof. Praveen Agarwal, AnandICE Prof. Saxena, Ex-VC, Jiwaji University, Gwalion Prof. Praveen Agarwal, AnandICE Prof. Saxena, Ex-VC, Jiwaji University, Gwalion Prof. Praveen Agarwal, AnandICE Prof. Saxena, Ex-VC, Jiwaji University, Gwalion Prof. Praveen Agarwal, AnandICE Prof. Saxena, Ex-VC, Jiwaji University, Gwalion Prof. Praveen Agarwal, AnandICE Prof. Saxena, Ex-VC, Jiwaji University, Gwalion Prof. Praveen Agarwal, AnandICE Prof. Praveen Agarwal, AnandICE Prof. Praveen Agarwal, Anan			High tea			
11:45 am-1:15pm Plenary session-II Power of Modelling-Study of Socio-Technical Systems I:45 pm-1:45 pm I:45 pm-3:15 pm Ithroduction to Quadratic B-spline Finite Element Method & its applications Prof. V. H. Pradhan S.V.N.I.T., Surat. 9:30 am-11:00 am Plenary session-III Introduction to Quadratic B-spline Finite Element Method & its applications Prof. V. H. Pradhan S.V.N.I.T., Surat. 9:30 am-11:00 am Plenary session-IV Mathematical modelling in data science Prof. V. P. Saxena, Ex-VC, Finite Element Modelling and Applications Prof. V. P. Saxena, Ex-VC, Finite Element Modelling and Applications Prof. V. P. Saxena, Ex-VC, Finite Element Modelling of modified special functions and solution of fractional differential equations Plenary session-VII Use of Mathematics in Data Science and its Applications 11:00 am -12:30 pm Plenary session-VII Use of Mathematics in Data Science and its Applications Prof. S.A.Katre, Pune 12:30 pm-1:30 pm Plenary session-VII Use of Mathematics in Data Science and its Applications Prof. S.A.Katre, Pune 12:30 pm-1:30 pm Plenary session-VII Use of Mathematics in Data Science and its Applications Prof. S.A.Katre, Pune Plenary session-VII Use of Mathematics in Data Science and its Applications Prof. D. S. Chouhan, Uor Prof. Practical Note Prof. D. S. Chouhan, Uor Prof. Practical Note Prof. Practical Note Prof. Practical Note Prof. D. S. Chouhan, Uor Prof. Practical Note Prof. D. S. Chouhan, Uor Prof. Practical Note Prof. Practical Note Prof. D. S. Chouhan, Uor Prof. Practical Note Prof. D. S. Chouhan, Uor Prof. Practical Note Prof. Pra		10:15 am-11:45				
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DAY-2 Wednesday 19/4/23 Penary session-V Finite Element Modelling and Applications Prof. K. R. Pardasani, MANIT, Bhopal Prof. V. P. Saxena, Ex-VC, Jiwaji University, Gwalior Prof. Praveen Agarwal, AnandICE Prof. Praveen Agarwal, AnandICE Prof. S.A.Katre, Pune Prof. Dr. Sudhir Kumar, LNMIIT Computational Modelling of Biological Neurons: An Information Processing Approach Prof. D. S. Chouhan, UOR Prof. D. S. Chanchlani, UOR Prof. S.A.Katre, Pune Dr. Sudhir Kumar, LNMIIT Dr. D. S. Chouhan, UOR Prof. S.A.Katre, Pune Dr. D. S. Chouhan, UOR Prof. S.A.Katre, Pune Dr. Sudhir Kumar, LNMIIT Dr. D. S. Chouhan, UOR		1:15 pm-1:45 pm				
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21/4/25 12:30 pm-1:30 pm Lunch Break	Thursday	11:00am -12:30pm 12:30 pm-1:30 pm	Plenary session-VII Use of Mathematics in Data Science and its Applications Plenary session-VIII Computational Modelling of Biological Neurons: An Information Processing Approach Lunch Break Plenary session-XI Mathematics behind Artificial Neural Network and Applications	Dr. Sudhir Kumar, LNMIIT		
	Thursday 20/4/23 DAY-4 Friday	11:00am -12:30pm 12:30 pm-1:30 pm 3:30 pm -5:00pm	Plenary session-VII Use of Mathematics in Data Science and its Applications Plenary session-VIII Computational Modelling of Biological Neurons: An Information Processing Approach Lunch Break Plenary session-XI Mathematics behind Artificial Neural Network and Applications Plenary session-X Analytical Solutions of Certain Scientific	Dr. Sudhir Kumar, LNMIIT Prof. D. S. Chouhan, UOR		

	1:30pm -3:00pm	Budget de Court E de attentant handelete	Prof. S. Sunder, IIT, Chennai
	3:30 pm -5:00pm	Pienary session-Antonnie	Prof. Milan Stelhik, Austria
DAY-5 Saturday	9:30am-11:00am	Plenary session-XIII Modeling of Physical problems by Conformal Mappings	Prof. Jugal Kishore Prajapati, CURAJ
22/4/23	11:00am -12:30pm	Valedictory Session	

Invitation



Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur



Invitation for Inaugural ceremony

INTERNATIONAL WORKSHOP ON

APPLICATION OF MATHEMATICAL MODELLING IN ENGINEERING AND SCIENCES

(18-22 April, 2023)

In association with Gwalior Academy of Mathematical Sciences
Technical Sponsor: The Mathematics Consortium, Pune



CHIEF GUEST
PROF. RENU JAIN
VICE CHANCELLOR
DEVI AHILYA VISHWAVIDYALAYA
INDORE



PRESIDING GUEST
PROF. V. P. SAXENA
EX-VICE CHANCELLOR
JIWAJI UNIVERSITY
GWALIOR



TUESDAY, 18 APRIL 2023



J. C. BOSE SEMINAR HALL



9:15 AM

Organized by
Department of Mathematics
SKIT, M&G, Jaipur

Media Coverage

एसकेआईटी मे पांच दिवसीय अंतर्राष्ट्रीय कार्यशाला का शुभारंभ



P3 Police Public Politics जयपुर 7 स्वामी केश्वानंद इंस्टिट्यूट ह टेक्नोलॉजी, मैनेजमेंट एव्स ग्रामोथान जयपुर में मंगलवार 18 अप्रैल 2023 को गणित विभाग द्वारा ग्वालियर अकेडमी ऑफ मैथेमेटिकल साइंसेस के तत्वावधान एप्लीके शन मैथेमेटिकल मॉडलिंग इन इंजीनियरिंग एंड साइंसेस विषय पर पांच दिवसीय अंतर्राष्ट्रीय कार्यशाला का शुभारंभ किया ग्या। कार्यक्रम के मुख्य अतिथि प्रो. रेनू कुलपति देवी विश्वविद्यालय, इंदौर् तथा विशिष्ट अतिथि स्वसेना ,पूर्व प्रो. वी.पी. जीवाजी विश्वविद्यालय, ग्वालियर मैथेमेटिकल मॉडलिंग का दैनिक जीवन में उपयोग पर प्रकाश डाला। विभिन्न सत्रों रेनू जैन(डीएवीवी,इंदौर), कारमेष्(जेएनय्,दिल्ली), प्रो. प्रधान(एसवीएनआईटी, की सरत) वार्ताओं गया। का आयोजन

समारोह में संस्था निदेशक जयपाल मील, निदेशक (एके डिमक्स)पो.एस.एल.सुराणा, प्राचार्य प्रो. आर.के. पचार, डीन प्रो आर जैन तथा संस्था के अन्य सदस्य सम्मिलित हुए। प्रो.एस एल सुराना ने दैनिक जीवन की समस्याओं को गणितीय मॉडल के रूप में अभिव्यक्त करने और हल करने की प्रेरणा देते हुए कार्यशाला की सफलता की कामना की। प्राचार्य डा रमेश कुमार पचार ने पधारे सभी गेस्ट्स एवम पर्टिसिपन्तस् को विस्तार से संस्था की गतिविधियों से अवगत कराया। डॉ संगीता चौधरी ने कार्यशाला के तकनीकी सत्रों के बारे में जानकारी दी।अंत विभागाध्यक्ष प्रो.अंबर सम्मानित अतिथियों तथा देश के विभिन्न हिस्सों से आए प्रतिभागियों का आभार किया। ् कार्यक्रम का चौधरी डॉ.संगीता डॉ.शालिनी तथा शेखावत ने किया।

एप्लीकेशन ऑफ मैथेमेटिकल मॉडलिंग इन इंजीनियरिंग पर पांच दिवसीय अंतरराष्ट्रीय कार्यशाला

समाचार जगत न्यूज

-**जयपुर.** स्वामी केश्वानंद इंस्टिट्यूट ऑफ टेक्नोलॉजी, मैनेजमेंट एवम ग्रामोथान जयपुर में मंगलवार को गणित विभाग द्वारा ग्वालियर अकेडमी ऑफ मैथेमेटिकल साइंसेस के तत्वावधान में एप्लीकेशन ऑफ मैथे मेटिकल मॉडलिंग इंजीनियरिंग एंड साइंसेस विषय पर पांच दिवसीय अंतरराष्ट्रीय कार्यशाला का शभारंभ किया गया। कार्यक्रम के मुख्य अतिथि प्रो. रेनू जैन, कुलपति देवी अहिल्या विश्वविद्यालय, इंदौर तथा विशिष्ट अतिथि प्रो. वी.पी. सक्सेना, पूर्व कुलपति जीवाजी विश्वविद्यालय, ग्वालियर ने मैथेमेटिकल मॉडलिंग का दैनिक जीवन में उपयोग पर प्रकाश डाला। विभिन्न सत्रों में प्रो. रेन्



जैन(डीएवीवी,इंदौर), पो. कारमेशु(जेएनयू,दिल्ली), प्रो. वी. एच. प्रधान(एसवीएनआईटी, सूरत) की वार्ताओं का आयोजन किया गया। उद्घाटन समारोह में संस्था के निदेशक जयपाल मील, निदेशक (एके डिमिक्स)प्रो.एस.एल.सुराणा, प्राचार्य प्रो. आर.के. पचार, डीन प्रो आर के जैन तथा संस्था के अन्य

सदस्य सम्मिलित हुए। प्रो.एस एल सुराना ने दैनिक जीवन की समस्याओं को गणितीय मॉडल के रूप में अभिव्यक्त करने और हल करने की प्रेरणा देते हुए कार्यशाला की सफलता की कामना की। प्राचार्य डॉ. स्मेश कुमार पचार ने पधारे सभी गेस्ट्स एवं पार्टीसिपेंट को विस्तार से संस्था की गतिविधियों से अवगत कराया। डॉ. संगीता चौधरी ने कार्यशाला के तकनीकी सत्रों के बारे में जानकारी दी।अंत में विभागाध्यक्ष प्रो.अंबर श्रीवास्तव ने सम्मानित अतिथियों तथा देश के विभिन्न हिस्सों से आए प्रतिभागियों का आभार व्यक्त किया। कार्यक्रम का संचालन डॉ.संगीता चौधरी तथा डॉ.शालिनी शेखावत ने

एप्लीकेशन ऑफ मैथेमेटिकल मॉडलिंग पर मंथन



जयपुर।एसकेआईटी के गणित विभाग में मंगलवार को ग्वालियर अकेडमी ऑफ मैथेमेटिकल साइंसेस के तत्वावधान में एप्लीकेशन ऑफ मैथेमेटिकल मॉडलिंग इन इंजीनियरिंग एंड साइंसेस विषय पर पांच दिवसीय अंतरराष्ट्रीय कार्यशाला का शुभारंभ किया गया।इसमें मुख्य अतिथि प्रो. रेनू जैन, कुलपति देवी अहिल्या विश्वविद्यालय, इंदौर तथा विशिष्ट अतिथि प्रो. वी.पी. सक्सेना ,पूर्व कुलपति जीवाजी विश्वविद्यालय,

ग्वालियर ने मैथेमेटिकल मॉडलिंग का दैनिक जीवन में उपयोग पर प्रकाश डाला। इस मौके पर प्रो. रेनू जैन, प्रो. कारमेशु, प्रो. वी.एच. प्रधान, एसके आई टी निदेशक जयपाल मील, प्रो. एस.एल. सुराणा, प्राचार्य प्रो. आर.के. पंचार, डीन प्रो. आरके जैन ने दैनिक जीवन की समस्याओं को गणितीय मॉडल के रूप में अभिव्यक्त करने और हल करने की प्रेरणा देते हुए कार्यशाला की सफलता की कामना की।

सीमा सन्देश श्रीगंगानगर, मंगलवार, 25 अप्रेल 2023

एसकेआईटी में कार्यशाला



जयपुर(सीमा सन्देश)। स्वामी केशवानंद इंस्टिट्यूट ऑफ टेक्नोलॉजी एंड मैनेजमेंट, जयपुर में गणित विभाग द्वारा ग्वालियर अकेडमी ऑफ मैथेमेटिकल साइंसेस के तत्वावधान में एप्लीकेशन ऑफ मैथेमेटिकल मॉडलिंग इन इंजीनियरिंग एंड साइंसेस विषय पर आयोजित पांच दिवसीय अंतरराष्ट्रीय कार्यशाला शनिवार को सम्पन्न हुई। विशेषज्ञीं के सत्र के बाद मुख्य अतिथि, जीवाजी विवि ग्वालियर के पूर्व

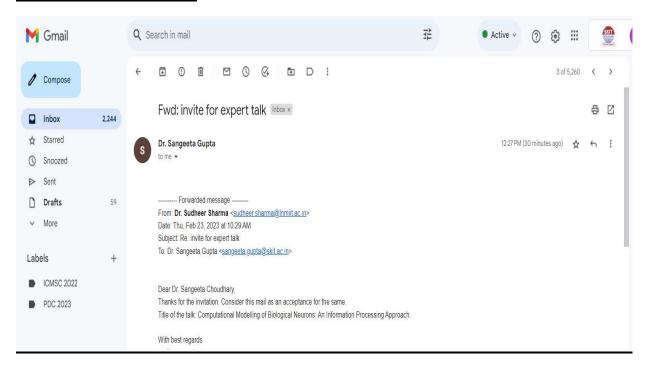
कुलपति प्रो. वीपी सक्सेना ने प्रतिभागियों का आभार व्यक्त किया तथा आयोजकों को बधाई दी। प्रतिभागियों ने अनुभव साझा करते हुए कहा कि कार्यशाला में बताई जानकारी शोध कार्य में महत्वपूर्ण सिद्ध होगी।

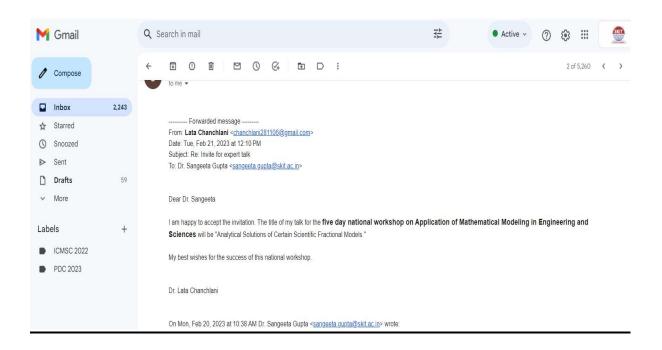
भविष्य में भी इस प्रकार के कार्यक्रम आयोजित किए जाने चाहिएं। आयोजकों विभागाध्यक्ष प्रो. अंबर श्रीवास्तव ने सम्मिलित सभी प्रतिभागियों को प्रमाणपत्र वितरित किए।

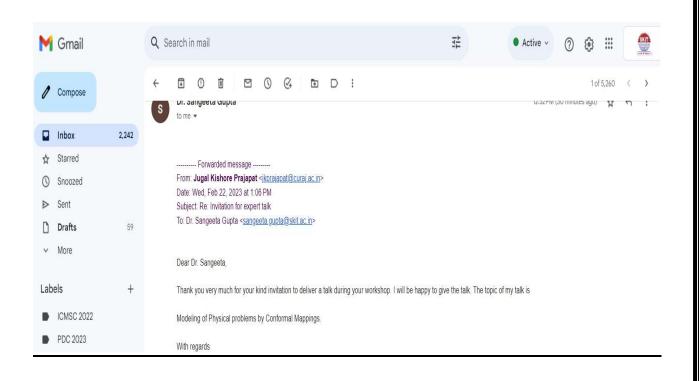
Resource Persons Details

	Resour	rce Persons
S. No.	Name	Affiliation & Email ID
1	Prof. Milan Stelhik	Johannes Kepler University, Austria milan.stehlik@jku.at
2	Prof. Renu Jain	Vice Chancellor, Devi Ahilya Vishwavidyalaya, Indore renujain3@rediffmsail.com
3	Prof. K. R. Pardasani	MANIT, Bhopal kamalrajp@rediffmail.com
4	Prof. Sudhir Kumar	LNMIT, Jaipur Sudheer.sharma@lnmit.ac.in
5	Prof. Karmeshu	School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi karmeshu@gmail.com
6	Prof. Jugal Kishore Prajapati	Central University of Rajasthan jkprajapat@curaj.ac.in
7	Prof. S. Sunder	Department of Mathematics Indian Institute of Technology Madras slnt@iitm.ac.in
8	Prof. V. H. Pradhan	SVNIT, Surat Pradhanvikas65@gmail.com
9	Prof. S. A. Katre	Department of Mathematics University of Pune, Pune sakatre@gmail.com
10	Prof. V. P. Saxena	Ex VC, Jiwaji University, Gwalior vinodpsaxena@gmail.com
11	Dr. Lata Chanchlani, UOR	University of Rajasthan, Jaipur

Consent of Guests







Summary of different Sessions

The Five-day International Workshop on Application of Mathematical Modelling in Engineering and Sciences" (IWAMMES-2023) was organized by the Department of Mathematics, Swami Keshvanand Institute of Technology, Management and Gramothan, Jaipur in association with Gwalior Academy of Mathematical Sciences (GAMS) and cosponsored by The Mathematics Consortium from 18th to 22nd April, 2023.



Day 1 (18th April 2023)

Session I (10:15-11:45 am)

In the first session, **Prof. Renu Jain**, Vice-Chancellor, Devi Ahilya Vishwavidyalaya, Indore had delivered her talk on I-Function and its applications. She explained different kinds of functions like E-function, F- function, G- function, H- function, I- function etc. and their generalized forms. She shared the importance of these functions in mathematical modelling of real-world physical problems. Participants' questions were addressed, and she provided clear examples to help participants comprehend.



Session II (11:45 am – 1:15 pm)

In this session **Prof. Karmeshu, JNU, New Delhi** delivered his talk on Power of Mathematical Modelling - Study of Socio-Technical Systems. He deliberated Mathematical Modelling Social Systems- The success of linear paradigm in dealing with natural systems motivated researchers to study and analyze social systems. He also explained about Central limit theorem, Lognormal distribution, scale free properties, System Breaking, Potential Curves, Visual Hysteresis effect, Threshold and breakpoints in ecosystems and Model of domestic political conflict process. Then he discussed about Deterministic and Stochastic models in Innovation Diffusion, its generalized model (Bartholomew JMS (1976)), its Estimation of software piracy etc. He motivated by its importance and applications in certain fields of our life.



Session III (1:45 – 3:15 pm)

Prof. V. H. Pradhan, Sardar Vallabhbhai National Institute of Technology (S. V. N.I.T), Surat, had delivered his lecture on "Introduction to Quadratic-B-Spline Finite Element Methods and its Applications" in the third session. He discussed about variational methods like Rayleigh method, Ritz method etc. He also explained the analytical and numerical methods to solve the differential equations and also discussed that how Quadratic B-Spline is applied in basics of transport process. In the end he cleared all the queries put by the participant's with suitable examples.

These sessions were moderated by Ms. Yashasvi and Technicality was handled by Dr. Amit Dadhich (Assistant Professor, Department of Mathematics, SKIT).

Day 2 (19th April 2023)

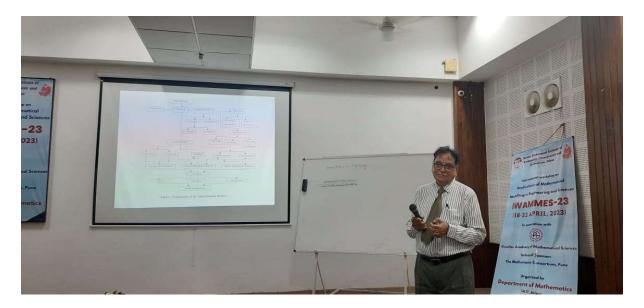
Session I (9:30 – 11:00 am)

In this session **Prof. K. R. Pardasani,** MANIT, Bhopal delivered his talk on Mathematical Modelling in data science. He deliberated his talk with different levels – Data, Information, semi structured queries, Knowledge, Unstructured queries. He also explained about Information Systems – Operation Support Systems, Information Support Systems, MIS, DSS and EIS. Then he discussed about Big Data and Radio Frequency Identification technology, How Bid data is good or bad for consumers and its different issues. He also talked about Vagueness, Fuzzy sets, Rough sets, Intuitionistic fuzzy sets, Neutrosophic sets, soft sets, product of two soft sets and Data Mining. He also discussed about the research paper Soft and fuzzy set approaches for modeling veracity in machine learning prediction with Applications in Immunology and its results.



Session II (11:45 am – 1:15 pm)

The second talk of day 2 was delivered by Prof. **V.P. Saxena**, Ex-Vice-Chancellor Jiwaji University, Gwalior on the topic of Finite element modelling and applications. He discussed the difference between finite element methods and finite element modeling and explained different models like Jaipur traffic model, meteorology of Jammu and Kashmir, population model, irrigation models. He suggested some softwares like ABAQUS, ANSYS, SDRC-Idea, RASNA which will be useful in mathematical modeling. The session was moderated by Dr. Shalini Shekhawat, SKIT.



The sessions were moderated by Dr. Shalini Shekhawat (Associate Professor, Department of Mathematics, SKIT). Technicality was handled by Dr. Amit Dadhich (Assistant Professor, Department of Mathematics, SKIT). The session was extended by vote of thanks to the guests and participants.

Day 3 (20th April 2023)

Session I (9:30 – 11:00 am)

Third day morning session was taken by **Prof. S. A. Katre**, Pune. He told about use of data science and its applications. He shared the significance of data science in machine learning and artificial intelligence and discussed about data generation, Google search algorithm in a very interesting manner to explain the application of linear algebra and matrix theory. He put light on the wide range of applications of mathematics in data science.



Session II (11:45 am – 1:15 pm)

In this session **Dr. Sudhir Kumar, LNMIT, Jaipur** delivered his talk on Computational Modelling of Biological Neurons: An Information Processing Approach. He deliberated his talk with Introduction: History of Neuroscience, circuit of a Neuron, Its Models—Single Neuron Models, Hodgkin Huxley Neuronal Model, Integrate and Fire Model, LIF Model — Power law behavior in ISI distribution of spiking neurons, NMDD Model — Emergence of Bimodal ISI distributions, GNMDD Model — Suppression of Multimodality in ISI distributions.

The moderator of these sessions were Ms. Surbhi Sharma (Assistant Professor, Department of Mathematics, SKIT) and Technicality was handled by Dr. Amit Dadhich (Assistant Professor, Department of Mathematics, SKIT). The session was extended by vote of thanks to the guests and participants.

Day 4 (21st April 2023)

Session I (9:30 – 11:00 am)

In the morning session, **Dr. Lata Chanchlani**, University of Rajasthan, Jaipur had delivered her talk on Analytical Solutions of Certain Scientific Fractional Models. She discussed about origin and recent history of fractional calculus with suitable examples. She also discussed about applications-based models of fractional calculus. She explained various important mathematical findings. She discussed about analytical methods for solving fractional

differential equations. She also explained various types of models like biological population model, time fractional biological population model etc. In the end she cleared all the queries put by the participants with suitable examples. The session was moderated by Ms. Surbhi Sharma (Assistant Professor, Department of Mathematics, SKIT).



Session II (11:45 am – 1:15 pm)

On fourth day in afternoon session the talk on Pedestrian crowd evacuation models in flood was arranged. The session was taken by **Prof. S. Sunder**, IIT, Chennai in online mode. He discussed Pedestrian model, Eikonal equation, Mashree numerical scheme, flood-crowd dynamic interaction. He took different models like social force model, Hughes model etc. to explain models in flood. This session was moderated by Dr. Vijay Singhal (Associate Professor, Department of Mathematics, SKIT)

Session III (1:45 – 3:15 pm)

This session was taken by **Prof. Milan Stelhik**, Johannes Kepler University, Austria on the topic Modelling in statistics via online mode. He discussed about various statistical distributions and their applications in diverse fields. He has also explained the process to select the model and method of solution according the need of parameters. This session was moderated by Dr. Vijay Singhal, (Associate Professor, Department of Mathematics, SKIT).



Day 5 (22nd April 2023)

Last day in technical session Modelling of physical problems by conformal mappings was discussed by **Prof. Jugal Kishore Prajapati**, Central University of Rajasthan in online mode. Expert explained that conformal mapping allows the exact representation of very complicated domains, which are not easily discretized, even by the most sophisticated adaptive meshes. By using examples like air flows in buildings and other real-world issues, he motivated the participants to apply mapping in mathematical modelling of physical problems.

Technical sessions were followed by the completion ceremony. The workshop's chief guest, Prof. V.P. Saxena, former vice chancellor of Jiwaji University in Gwalior, acknowledged the attendees and appreciated the organizers and their entire team on an endeavor successful. Participants discussed the value and application of knowledge received from this workshop in their own study disciplines. They expected to organize more events like this workshop in the future. Finally, all of the participants received facilitation.



List of Registered Participants

S. No.	Name (Capital	Email	Affiliation with	Mobile No.	Doymont
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	Abuul Nazak	arkinecii awginan.com	Poornima Institute	1910000010703	student)
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	W/ CITIOIC	alkamath.poornima@gm	poornima	7730074300	INR 1000
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			Government		
		ajaysince1984@gmail.co	Polytechnic		INR 1000
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	5544444		Professor,G.H.		
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6	RAHUL KAMDI	t	Engineering,Nagpur	8007775940	(Faculty)
					INR 500
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8	MANOHAR	c.in	SKNAU, Jobner	8058842909	(Faculty)
			Indian Institute of		INR 500
			Technology		(Research
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9	SADHU	gsadhu@iitg.ac.in	781039,India	9732094258	student)
			Disang hostel,		,
			Indian Institute of		INR 500
			Technology		(Research
	RUPCHAND		Guwahati, Assam,		scholar/PG
10	SUTRADHAR	rsutradhar@iitg.ac.in	781039	9264667923	student)
					INR 500
			Manipal University		(Research
		kavitakumari3299@gmail	Jaipur, Jaipur (scholar/PG
11	KAVITA JAT	.com	Rajasthan)	7014656539	student)
			,		
			MANUDAL		INR 500
		nooigeoni4004@amail.aa	MANIPAL		(Research
12		poojasoni4001@gmail.co	UNIVERSITY	7569570450	scholar/PG
ΙZ	POOJA SONI	m	JAIPUR, JAIPUR	7568578150	student)

40	Kaial Dhaalaa	Lille and a second of a second	Manipal University	0000000070	INR 500 (Research scholar/PG
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1	Your experience about the sessions	9.2
2	Knowledge enhancement	9.1
3	Relevancy of topics.	9.4
4	About Expert.	9.3
5	General Arrangements	9.0
6	In future you want to attend such programme at this	Yes
	Institute	
7	Knowledge gained by the session	Excellent
8	Overall experience of the session	Very good

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