

Goa University

School of Physical and Applied Sciences

Mathematics Discipline

Report on Winter School on Computational and Applied Mathematics

1. Title of the Event/Activity/program	Winter School on Computational and Applied Mathematics				
2. Date and Time	20 th Nov – 27 th Nov from 9.30a.m. to 5.30p.m.				
3. Mode of conduct (Physical/Online)	Physical				
4. School/ Directorate/ Section	School of Physical and Applied Sciences				
5. Collaborating Agency/School/Directorate	e GSRF				
6. Detail of the Resource Person (Brief biodata)	Dr. Mridini Mahadev Gawas Dr. Jessica Fernandes e Pereira Dr. Bhargav Alavani Dr. Aditi Naik Dr. Mahadev Gawas				
7. Number of Faculty attended/participated	NIL				
8. Number of Student attended / participated					
9. No. of external students/faculty/other participants	28				
10. The objectives of the Program/activity/event	Enhance Technical Knowledge: Provided participants with in-depth knowledge and hands-on experience in advanced computational and applied mathematics				

techniques, fostering a deeper understanding of mathematical models, algorithms, and computational methods used in real-world applications.

2. Promote Interdisciplinary

Collaboration: Encourage collaboration among participants from various academic backgrounds to apply computational and mathematical theories to diverse fields such as physics, biology, finance, and engineering.

- 3. Introduce Cutting-Edge Tools and Technologies: Expose participants to the latest software, programming languages, and computational tools used in applied mathematics, equipping them with practical skills.
- 4. Foster Research and Innovation: Create a platform for students, researchers, and professionals to engage in discussions, share research findings, and develop innovative solutions to challenging problems

11. Description of the Program/activity/event

Mathematics Discipline, School of Physical and Applied Sciences, Goa University under Goa State Research Foundation Summer/ Winter School Scheme 2024-2025 had organized "Winter School on Computational and Applied Mathematics" for undergraduate Mathematics students from all over Goa. Twenty-eight students from seven different Colleges, Carmel College, St. Xavier's College, P.E.S.'s RSN College, Dhempe College, DMC College, Govt. College Khandola and Govt. College Sanquelim participated in the event. The event was Coordinated by Dr. Mridini Mahadev Gawas under the guidance of Mathematics Progamme Director Dr. M. Kunhanandan and Dean of SPAS, Prof. Ramesh Pai. The winter school was scheduled for seven days which included 46 theory and Practical hours. Applications of different areas in mathematics like Differential Equations, Partial Differential Equations, Graph Theory, Linear Algebra, Matrices were discussed in different fields like Artificial intelligence, Machine Learning, Data Science and so on. The concept of Mathematical Modelling was introduced to the students along with few reallife applications like population growth, Prey-

10. 0	predator model, Electric circuits etc. Few software like MATLAB, FORTRAN were introduced to students which can be used to solve and analyze many differential equations. The feedback of students was very nice. On the last day the exam was conducted for all the students and certificates were given.
12. Benefit/Key outcomes of the Program/activity/event	1. Improved Problem-Solving Skills: Participants will develop enhanced analytical and computational problem-solving abilities, learning to apply mathematical models and algorithms to solve real-world, complex challenges across various industries. 2. Exposure to Cutting-Edge Research: Attendees will gain insights into the latest advancements and research in computational and applied mathematics, broadening their understanding of emerging trends, methodologies, and tools in the field. 3. Networking and Collaboration Opportunities: The event provides a unique opportunity for participants to interact with leading experts, researchers, and peers, fostering collaboration, mentorship, and potential future research partnerships or career opportunities. 4. Practical Experience with Advanced Tools: Through workshops and hands-on sessions, participants will acquire practical experience using modern computational tools and programming languages, equipping them with the skills to implement mathematical techniques and models effectively in their own work or research.
13. Enclosures with report	Brochure, Notice, Geo-tag photos, Attendance of students/faculty/external participants, Bio Data of resource person (if applicable), Any other information. Attached

Signature:

Name of coordinator Mridini M. Gawas Designation: Assistant Professor

Signature

Dean/Director/Head

Seal of the School/Directorate/University

Seans



Goa University School of Physical and Applied Sciences Mathematics Discipline

organises

A Winter School on Computational and Applied Mathematics

(for undergraduate Mathematics students)

Resource Persons



Dr. Mridini Gawas
Assistant Professor,
SPAS, Goa University



Dr. Jessica Pereira
Assistant Professor,
SPAS, Goa University



Dr Bhargav Alavani Assistant Professor, SPAS, Goa University



Dr. Aditi Naik
Assistant Professor,
SBS, Goa University



Dr. Mahadev Gawas
Research Supervisor
GBS, Goa University

- The objective of the workshop is to enhance participants' understanding and application of mathematical techniques and computational tools to solve real-world problems across various fields.
- All the participants will be awarded with a certificate.
- Interested students can register using the link provided below by 15th November 2024

REGISTER NOW

https://forms.gle/mivyBUGBHNYncyiCA



FACULTY BLOCK A



20/11/2024-27/11/2024



9:30 AM -5:30 PM

Organising Committee

Dr. M. Kunhanandan r) (PD, Mathematics)

Prof. Ramesh V. Pai (Dean, SPAS)

Dr. Mridini Gawas (Event Co-ordinator)









Winter School on Computational and Applied Mathematics

Date: 20 11 202 4

Place: Goa University

SN	Name	Lecture 1	Lecture 2	Lecture 3	Lecture 4	T4 5
1.	Kanak P. Waingankar	A	Δ	Lecture 5	Lecture 4	Lecture 5
2.	Rutuja K. Naik	RUTUJA.	RUTUJA	RVIVIA.	RU11374.	1
3.	Stelan Varella	Larile	Vivele	House	orules.	RVIVJA.
4.	Rishikesh Chawan	A	A.	Maria	No.	Sau.
5.	Navnath Avadhut Samant	40	M-	NA.	K	N.
6.	Mervin Philip Fernandes	Mead	(Mar M	and the	4	4
7.	Shreya Dilip Kolmule	entotal	continu	The day	(No	M
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15.	Vishant R Borkar	Reakan	Peortos	Eshaparab.	Pishapayab.	Pishaparab.
16.	Rani Bedadolakar	D	Book	Magazz	A Dari	Ronkar
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21.	Saiesha Gawas	Cha-	ang:	A) a.	W. T	A
22.	Mitali Manoj Shirodkar	Brankan	Hirodkom	Rirodfas	Who.	ang:
23.	Saishma Dinesh Naik	Waik.	Mark.	SNaik.	Maik.	Bindkan
24.	Vedika Parab	ford	porale	THOU	1. Tolar	ANOK.
25.	Utkarsh Manikrao Desai	18 deci	(day days	1000	11000	In at
26.	Riya Ritesh Pednekar	Dean	maning	unde sai	Umalsai	Undesai
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Present: 28

Absent: 05

Total: 33

(Mridini M. Gowas)

Winter School on Computational and Applied Mathematics

Date: 21 111 202 4

Place: God University

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Present: 26

Absent : 07

Total: 33

(Mridini M. Gawas)

Winter School on Computational and Applied Mathematics

Date: Nov 22, 2024

Place: Goa University.

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	Kanak P. Waingankar	Rhajant	Mexicanium 2	Lecture 3	Lecture 4	Lecture 5
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Present: 28

Absent: 05

(Mridini M. Gawas)

Winter School on Computational and Applied Mathematics

Date: Nov 23,2024

Place: Goa University

SN	Name	Lecture 1	Lecture 2	Lecture 3	Lasters	Lastina
1.	Kanak P. Waingankar	Maryen	Marginalan	Mempsha.	Lecture 4	Lecture 5
2.	Rutuja K. Naik	RUTUSA.	RU1U 3P	RVIVAR	RUWJE	
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10.	Saee Prashant Thoravat	A	Α\	- A		A
11.	Devi Deepak Gawas	A	A	A	A	A
12.	Suhani Vithu Gauns	^	- 10	H	A	A
13.	Dattaram Umesh Chari	Www.	War.	A	A	A
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20.	Snehal U Shetgaonkar	<u></u>	<u>+\</u>		A	A
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Present: 23

Absent: 10

Total: 33

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Mridini M. Gowas

Winter School on Computational and Applied Mathematics

Date: 25 11 202 4

Place: Goa University

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1.	Kanak P. Waingankar	Mangalean	Murgark	Blumpatr	Alexenter 4	Lecture 3
2.	Rutuja K. Naik	RUNIA	Linns.	RUTURA	71	Resor
3.	Stelan Varella	Harella	tanella	Larelle	KUZUJA	RUTUJA.
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5.	Navnath Avadhut Samant	A.	NO.	12	A	A
6.	Mervin Philip Fernandes	m	alle	atos	4	4
7.	Shreya Dilip Kolmule	A	A	(100	M	M
8.	Daniel Pinto Abreo	738	PA I	A	A	A
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22.	Mitali Manoj Shirodkar	A	(Box	ang.	(Suj	Qui:
23.	Saishma Dinesh Naik	Mark.	Binotan	Birockar	Burodhan	Bhirodhap
24.	Vedika Parab	DNUM	Mark	Man	SNOW.	alok.
25.	Utkarsh Manikrao Desai	Umoldsai	A	A	A	A
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27.	Jason Victor Couto	Con may	Chris	Consulta	Roply	PHALL
28.	Siya Sitaram Gaonker	J. Canto	J. Cento	5-Cento	J-Courto	Vak
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Present: 26

Absent: 07

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Winter School on Computational and Applied Mathematics

Date: 26 Nov 2024

Place: Goa University

SN	Name	Lecture 1	Lecture 2	Lecture 3	Lecture 4	Lecture 5
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2.	Rutuja K. Naik	RUIUJA	RUIUJA	RUIVIA	AUTUA -	AUTUJA.
3.	Stelan Varella	Jarella	Louis	Spruls	Varelle	James.
4.	Rishikesh Chawan	A	A	1	Aaret	games
5.	Navnath Avadhut Samant	₩.	Q.	N.	KA	N .
6.	Mervin Philip Fernandes	M	m	6	Cur A	The sale
7.	Shreya Dilip Kolmule	A.		May 1	M	My
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Present: 27

Absent: 06

Total: 33

(Mridini M. Goway)

Winter School on Computational and Applied Mathematics

Date: 27 Nov 2024

Place: Goa University

SN	Name	Lecture 1	Lecture 2	Lecture 3	Lecture 4	1
1.	Kanak P. Waingankar	Rougest	Maingum	Wagontas	Harian 4	Lecture 5
2.	Rutuja K. Naik	RUTUM .	RUIUJA -	RUIUA	WINA.	Mary .
3.	Stelan Varella	Darilla	Harrie	Marille	Marile	AUTUM.
4.	Rishikesh Chawan	A	A	Monday	Marie	Janus
5.	Navnath Avadhut Samant	N	1	6	A	A
6.	Mervin Philip Fernandes	M	(MI)	(MI)	A Tim	
7.	Shreya Dilip Kolmule	A	٨	(I'W	(M)	M
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14.	Disha D Parab	Perhaparab		Pashaparas	(M)	ODE .
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Present: 27

Absent: 06

Total . 33

(Mindin M. Gawas)

Feedback Form

28 responses

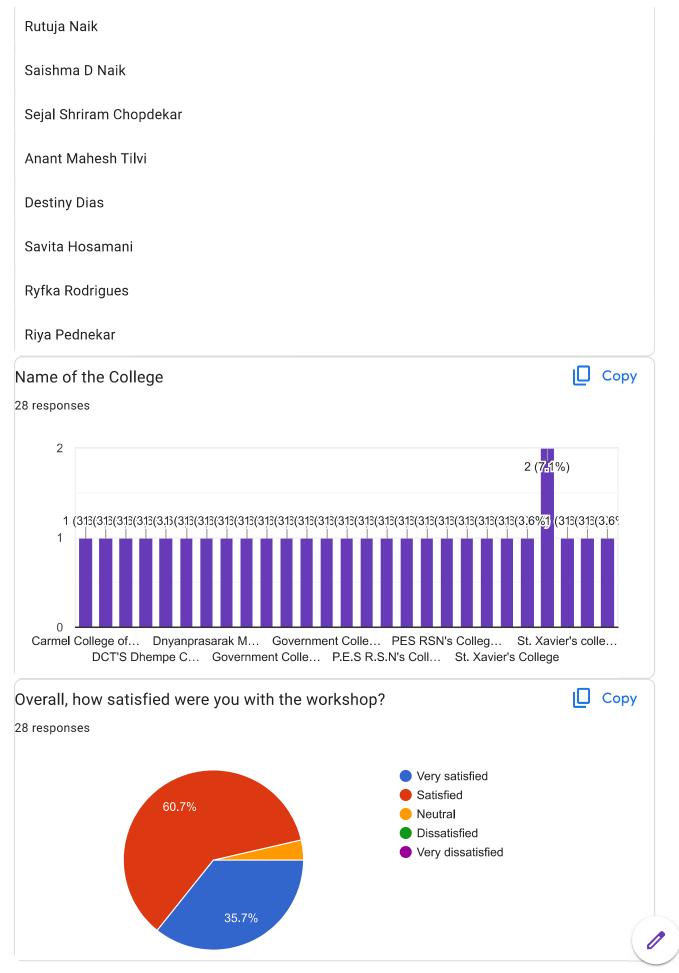
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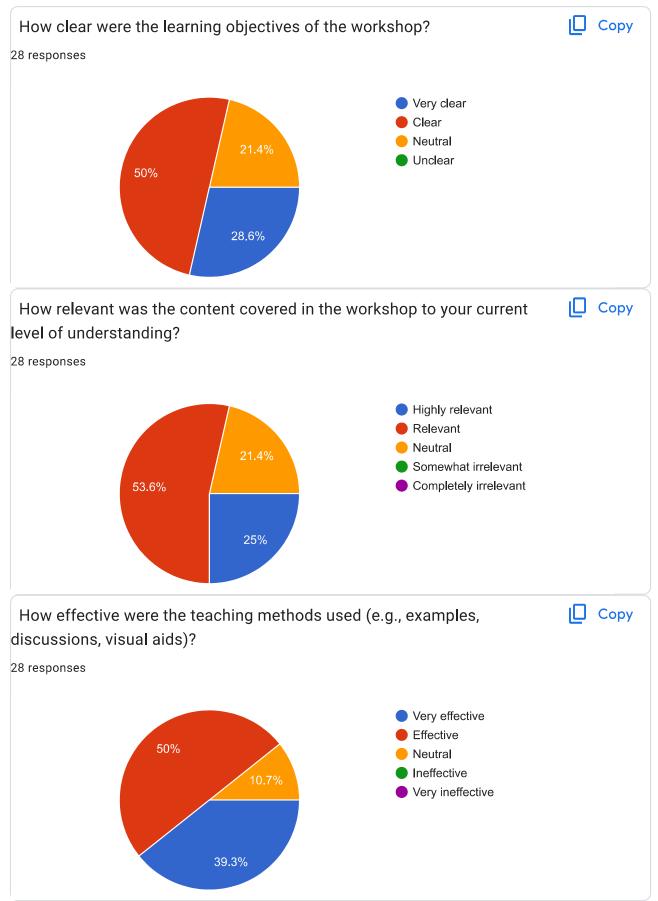


Name of the student
28 responses
Saee Prashant Thoravat
Disha Deepak Parab
Titiksha Naik
Vishant Ramchandra Borkar
MERVIN PHILIP FERNANDES
Jason Victor Couto
Devi Deepak Gawas
Rani Bedadolakar
Stelan Varella
Utkarsh Manikrao Desai
Daniel Pinto Abreo
Kanak Waingankar
Suhani Vithu Gauns
Snehal Upendra Shetgaonkar
Rakshak Ramchandra Kavlekar
Siya Gaonker
Navnath Avadhut Samant
Dattaram chari
Saiesha Gawas

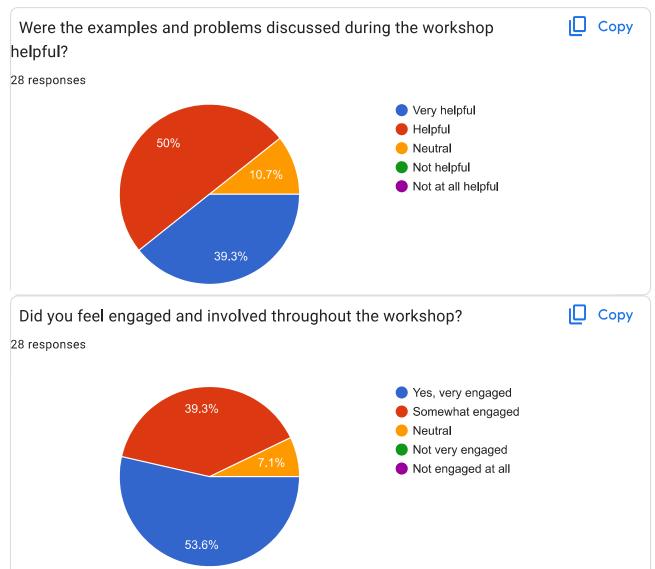


Mitali Manoj Shirodkar











What did you like most about the workshop? 28 responses Topics covered **Teaching Technique** Graph theory, differentiable, computation of dy/dx and discussion on data, machine learning. The dedication, enthusiasm the resources persons had and method of teaching which involved real life examples which were helpful. Application of DE in various aspects, application of matrices, tea and lunch Graph Theory, Application of Matrices and D.Es, Application of Mathematics in Data Science and the Food was very tasty. The teaching skills were good. The concepts covered and the way of teaching. **Applications** The sessions were very informative, interactive and interesting The Mathematical Modelling sessions were the best sessions. Teaching skills were superb Professors and their way of teaching Lecture explained me application of mathematics Syllabus The concepts were well explained with their applications The concepts were well explained and it's application

Data science

Mahadev Gawas sir's lecture

Syllabus

Graph theory, differential equations, machine dynamics, computational

Introducing MATLAB

The lecturers were quite dedicated.

Application , differential equations , coding

Mathematical modeling, graph theory and that we were given examples and applications of what we were taught.

The food provided was very good.

The graph theory lectures were truly engaging, and the mathematical modeling sessions were incredibly fun! I learned so many new and fascinating concepts. I especially appreciated how Ma'am Aditi conducted experiments to clarify the topics—her approach made everything so much more comprehensible. Additionally, the lecture by Prof. Prahalad was exceptionally intriguing and thought-provoking. Overall, I had an amazing experience at the workshop!



Do you have any other suggestions or comments? 28 responses No It would be better if it was for some more days or atleast 11 or 15 days Fun activities like games, quizzes, competitions can involved to make sessions more interesting. no suggestions Thank you very much to all the teachers who taught and explained the importance of Mathematics and it's applications in various fields. It really helped a lot. No suggestions All the arrangements made for us were very well planned and executed. It was really a great experience. It was a fun learning experience No suggestions. Very informative enjoyed the sessions Thankyou for the food and refreshments it was good Thank you The first year students found it quite hard to grasp initially. The timing of the workshop was too long. The workshop should have been scheduled during college working days. NO suggestion The duration of the workshop could be extended next time. Perhaps extending the program duration would have made it even better! Additionally, incorporating group discussions and assigning group or individual projects, followed by



student presentations, could enhance the overall learning experience. Aside from that, everything else was excellent!

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