

**Goa University**  
**School of Physical and Applied Sciences**  
**Report on**  
**GSRF Winter School Titled**

**“Solving Reality: A Hands-On Workshop on Applied Differential Equations  
and Computational Methods”**

<b>1. Title of the Event/Activity/program</b>	Solving Reality: A Hands-On Workshop on Applied Differential Equations and Computational Methods
<b>2. Date and Time</b>	24 <sup>th</sup> November 2025 to 29 <sup>th</sup> November 2025
<b>3. Mode of conduct (Physical/Online)</b>	Physical
<b>4. School/ Directorate/ Section</b>	School of Physical and Applied Sciences (SPAS)
<b>5. Collaborating Agency/School/Directorate</b>	Goa State Research Foundation.
<b>6. Detail of the Resource Person (Brief biodata)</b>	Following Faculties of SPAS were the speakers Prof. Ramesh V. Pai , SPAS, Goa University Dr. Mridini M. Gawas, SPAS, Goa University Dr. Pallavi P. Gaude, SPAS, Goa University Dr. Bhargav K. Alavani, SPAS, Goa University
<b>7. Number of Faculty attended/participated</b>	--
<b>8. Number of Student attended / participated</b>	26 Students participated from undergraduate colleges of Goa.
<b>9. No. of external students other participants</b>	26 Students participated from undergraduate colleges of Goa.

<b>10. The objectives of the Program/activity/event</b>	<ul style="list-style-type: none"> <li>• To introduce undergraduate students to the fundamentals and applications of differential equations in modeling real-world physical and mathematical systems.</li> <li>• To develop foundational skills in computational physics, enabling students to translate theoretical models into numerical simulations.</li> <li>• To cultivate analytical thinking and logical reasoning, encouraging participants to approach scientific challenges with confidence.</li> </ul>
<b>11. Description of the Program/activity/event</b>	<p>The Winter School was conducted from 24th to 29th November 2025, during the winter vacation for undergraduate students in Goa. Motivated undergraduate students from mathematics and physics were invited to apply through a brochure, video announcement, and Google registration form circulated via WhatsApp, email, Facebook, and Instagram. A total of 50 applications were received, including few faculty members. Based on interest and motivation, 26 students were selected.</p> <p>The programme began with student registration and distribution of a registration kit containing essential stationery. The inaugural talk was delivered by Prof. Ramesh Pai, who introduced students to the evolution of computers, computation, and modern quantum technologies. This was followed by a lecture on Introduction to Differential Equations by Dr. Mridini Gawas, and a hands-on Fortran programming session by Dr. Bhargav K. Alavani and Dr. Pallavi Gaude. Each day consisted of theory sessions in the morning and practical sessions in the afternoon. Students learned to model real-world systems—such as projectile motion with resistance, heat flow in metals, predator–prey dynamics, radioactive decay, and LCR circuits—using differential equations. Analytical solutions under limiting conditions, numerical errors, and Runge–Kutta methods were discussed.</p> <p>In the practical sessions, participants were trained in Fortran programming, including basic</p>

	<p>commands, input/output, conditionals, and loops. Daily coding tasks were given, and students who completed them with minimal errors were awarded books. On the final day, Mr. Navanath Samant received a book prize for completing all coding tasks accurately and interpreting results effectively.</p> <p>On fourth day evening, participants were given a short tour of SPAS research facilities, including the SQUID system, X-Ray Diffractometer, and Computer Cluster.</p> <p>On the last day, students were assigned a real-world problem involving a large-amplitude pendulum suspended by a thin rod—an example that cannot be solved analytically. Students modeled the system using differential equations and simulated the motion using numerical methods and their newly acquired programming skills.</p> <p>The Winter School successfully introduced students to applied mathematics, computational physics, and numerical problem-solving, giving them both conceptual grounding and practical experience.</p>
<b>12. Benefit/Key outcomes of the Program/activity/event</b>	<p>The Winter School helped students learn how to turn real-life physical situations into mathematical models using differential equations. It also gave them practical experience in Fortran programming and numerical simulations, helping them build confidence and interest in applied mathematics and computational physics.</p>
<b>13. Enclosures with report</b>	<p>(Same has been pasted down in this document)</p> <p><a href="#">Brochure, link</a></p> <p><a href="#">Geo-tag photos link</a></p> <p><a href="#">Group photo and general photos link</a></p> <p><a href="#">Attendance of external participants, link</a></p>

Coordinators: for GSRF winter school 2025.



Dr. Bhargav K. Alavani

Assistant Professor

SPAS, Goa University



Dr. Mridini M. Gawas

Assistant Professor

SPAS, Goa University



Prof. Ramesh V. Pai

Dean SPAS  
School of Physical and Applied Sciences,  
Goa University, Goa

Date: 10/12/2025





## SOLVING REALITY

A Hands-On Workshop on Applied Differential Equations and Computational Methods

School of Physical and Applied Sciences  
Goa University

### About the Winter School

Explore how mathematics the physical world from swinging pendulums to vibrating strings. Over six days, participants will learn to model natural phenomena and translate mathematical theory into computer simulations.

### Who Can Apply?

Curious Physics and Maths undergraduate students who can think logically. No coding background needed.

#### What You'll Learn?

- How to make math describe the real world?
- Fortran: Language which computers understand.
- Turning messy problems into neat computer simulations.
- Plotting, visualizing, and interpreting results.

#### Expected Outcomes

- Modeling Skills: Learn to model real-world phenomena.
- Computational Confidence: Build, run, and debug codes.
- Interdisciplinary Insight: Combine physics, equations and codes.
- Inspiration : To solve real life probles.

#### Event Details

- Dates: 24 – 29 November 2025
- Time: 9:30 AM – 5:00 PM
- Venue: Computer Lab, School of Physical and Applied Sciences (SPAS), Goa University, Taleigao, Goa

#### Speakers

- Prof. Ramesh V. Pai ,Professor, Physics, SPAS
- Dr. Mridini M. Gawas, Assistant Professor, Mathematics, SPAS
- Dr. Pallavi P. Gaude, Assistant Professor, Physics, SPAS
- Dr. Bhargav K. Alavani, Assistant Professor, Physics, SPAS

#### How to Apply?

Fill the Google form  
<https://forms.gle/2JeAwAosk7fHCsmK7>  
Or scan the QR-code.  
Limited Seats.



#### Coordinators:

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Dr. Mridini M. Gawas  
mridinigawas@unigoa.ac.in | +91 8668858583

Funded by Goa State Research Foundation Winter School Scheme 2025

Geo-tagged photos



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Fr6j+6mj, Goa University, Taleigao, Goa 403206, India  
Lat 15.460263° Long 73.831754°  
26/11/2025 10:15 AM GMT +05:30

GPS Map Came

Figure 1 : Dr. Mridini M Gawas taking lecture





Figure 2: Dr. Bhargav K Alavani taking lecture



Figure 3 Group Photo



Figure 4 Miss Uma receiving Participation Certificate from Dr. V. Harthwar

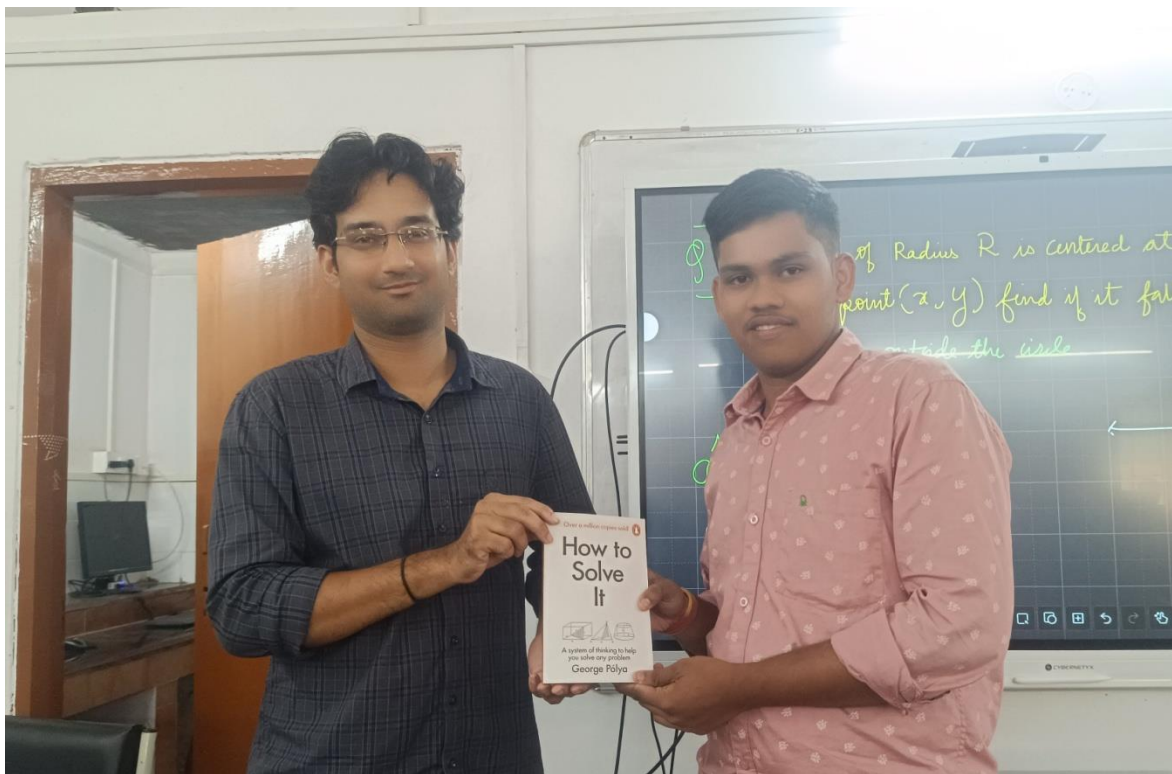


Figure 5 Mr. Navanath receiving the book from Dr. B. Alavani



# Attendance sheets for 6 days workshop.

GSRF Winter School 2025

Solving Reality

A hands on workshop on Applied Differential Equations and Computational Methods

Attendance sheet

Date: 24/11/2025

Sr.no	Name	College	Session	
			Morning	Afternoon
1	Agnelia Fernandes	DCT'S Dhempe College of Arts and Science	<i>Agnelia</i>	<i>Agnelia</i>
2	Amanpreet Kaur	St.Xaviers College , Mapusa	<i>Aman</i>	<i>Aman</i>
3	Aryan Shekhar Magundhwar	Parvatibai Chowgule College of Arts and Science (Autonomous)	<i>Aryan</i>	<i>Aryan</i>
4	Atharv Gaonker	PES RSN COLLEGE OF ARTS AND SCIENCE	<i>Atharv</i>	<i>Atharv</i>
5	Bhumi Redkar	Dhyanprasad mandals college and Research Centre	<i>Bhumi</i>	<i>Bhumi</i>
6	Bindav Kerkar	Parvatibai Chowgule College of Arts and Science (Autonomous)	<i>Bindav</i>	<i>Bindav</i>
7	Brijali Dergunkar	Ganpat Parsekar College of Education	<i>Brijali</i>	<i>Brijali</i>
8	Dipesh Ghadi	St.Xaviers College , Mapusa	<i>Dipesh</i>	<i>Dipesh</i>
9	Kavita Sahani	DCT'S Dhempe College of Arts and Science	<i>Kavita</i>	<i>Kavita</i>
10	Lorelei Travasso	St.Xaviers College , Mapusa	<i>Lorelei</i>	<i>Lorelei</i>
11	Navnath Samant	Dhyanprasad mandals college and Research Centre	<i>Navnath</i>	<i>Navnath</i>
12	Piyusha Tari	DCT'S Dhempe College of Arts and Science	<i>Piyusha</i>	<i>Piyusha</i>
13	Pushpak Desai	PES RSN COLLEGE OF ARTS AND SCIENCE	<i>Pushpak</i>	<i>Pushpak</i>
14	Raja Pandit	DCT'S Dhempe College of Arts and Science	<i>Raja</i>	<i>Raja</i>
15	Ronan Desai <i>Da Silva</i>	Parvatibai Chowgule College of Arts and Science (Autonomous)	<i>Ronan</i>	<i>Ronan</i>
16	Saloni Gupta	DCT'S Dhempe College of Arts and Science	<i>Saloni</i>	<i>Saloni</i>
17	Saloni Raut	DCT'S Dhempe College of Arts and Science	<i>Saloni</i>	<i>Saloni</i>
18	Sara Korgaonkar	St.Xaviers College , Mapusa	<i>Sara</i>	<i>Sara</i>



19	Shreya Pednekar	DCT'S Dhempe College of Arts and Science	<i>Shreya</i>	<i>Shreya</i>
20	Shyam Vernekar	Dhyansarasak mandals college and Research Centre	<i>Shyam</i>	<i>Shyam</i>
21	Simran Ghadi	Dhyansarasak mandals college and Research Centre	<i>Simran</i>	<i>Simran</i>
22	Soham Kalsekar	Government college of arts science and commerce, Quepem	<i>Soham</i>	<i>Soham</i>
23	Uma Madhav Naik	DCT'S Dhempe College of Arts and Science	<i>Uma</i>	<i>Uma</i>
24	Yannah Angelica Marchon	DCT'S Dhempe College of Arts and Science	<i>Yannah A. Marchon</i>	<i>Yannah A. Marchon</i>
25	Nidhi Tamse	Parvatibai Chowgule College of Arts and Science (Autonomous)	<i>Nidhi Tamse</i>	<i>Nidhi Tamse</i>
26	Jonathan Savio	St. Xavier's College, Mapusa	<i>Jonathan</i>	<i>Jonathan</i>

#### Speakers

- 1) Prof. Ramesh V. Patil *Patil*
- 2) Dr. Mridini M. Gawas *Gawas*
- 3) Dr. Pallavi P. Gaude *Gaude*
- 4) Dr. Bhargav K. Alavani *Alavani*

#### Coordinators:

- Dr. Bhargav K. Alavani *Alavani*  
 Dr. Mridini M. Gawas *Gawas*

GSRF Winter School 2025

Solving Reality

A hands on workshop on Applied Differential Equations and Computational Methods

Attendance sheet

Date: 28/11/2025

Sr.no	Name	College	Session	
			Morning	Afternoon
1	Agnelia Fernandes	DCT'S Dhempe College of Arts and Science	<i>Agnelia</i>	<i>Agnelia</i>
2	Amanpreet Kaur	St.Xaviers College , Mapusa	<i>Amanpreet</i>	<i>Amanpreet</i>
3	Aryan Shekar Magundnawar	Parvatibai Chowgule College of Arts and Science (Autonomous)	<i>Aryan</i>	<i>Aryan</i>
4	Atharv Gaonker	PES RSN COLLEGE OF ARTS AND SCIENCE	<i>Atharv</i>	<i>Atharv</i>
5	Bhumi Redkar	Dhyanprasarak mandals college and Research Centre	<i>Bhumi R.</i>	<i>Bhumi R.</i>
6	Bindav Kerkar	Parvatibai Chowgule College of Arts and Science (Autonomous)	<i>Bindav</i>	<i>Bindav</i>
7	Brijali Dergunkar	Ganpat Parsekar College of Education	<i>Brijali</i>	<i>Brijali</i>
8	Dipesh Ghadi	St.Xaviers College , Mapusa	<i>Dipesh</i>	<i>Dipesh</i>
9	Kavita Sahani	DCT'S Dhempe College of Arts and Science	<i>Kavita</i>	<i>Kavita</i>
10	Lorelei Travasso	St.Xaviers College , Mapusa	<i>Lorelei</i>	<i>Lorelei</i>
11	Navnath Samant	Dhyanprasarak mandals college and Research Centre	<i>Navnath</i>	<i>Navnath</i>
12	Piyusha Tari	DCT'S Dhempe College of Arts and Science	<i>Piyusha</i>	<i>Piyusha</i>
13	Pushpak Desai	PES RSN COLLEGE OF ARTS AND SCIENCE	<i>Pushpak</i>	<i>Pushpak</i>
14	Raja Pandit	DCT'S Dhempe College of Arts and Science	<i>Raja</i>	<i>Raja</i>
15	Ronan <sup>Da Silva</sup> Dasilva	Parvatibai Chowgule College of Arts and Science (Autonomous)	<i>Ronan</i>	<i>Ronan</i>
16	Saloni Gupta	DCT'S Dhempe College of Arts and Science	<i>Saloni</i>	<i>Saloni</i>
17	Saloni Raut	DCT'S Dhempe College of Arts and Science	<i>Saloni</i>	<i>Saloni</i>
18	Sara Korgaonkar	St.Xaviers College , Mapusa	<i>Sara</i>	<i>Sara</i>

19	Shreya Pednekar	DCT'S Dhempe College of Arts and Science	<i>[Signature]</i>	<i>[Signature]</i>
20	Shyam Vernekar	Dhyanprasarak mandals college and Research Centre	<i>[Signature]</i>	<i>[Signature]</i>
21	Simran Ghadi	Dhyanprasarak mandals college and Research Centre	<i>[Signature]</i>	<i>[Signature]</i>
22	Soham Kalsekar	Government college of arts science and commerce, Quepem	<i>[Signature]</i>	<i>[Signature]</i>
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26	Jonathan Sonto	St. Xavier's College, Mapusa	<i>[Signature]</i>	<i>[Signature]</i>

Speakers

Dr. Mridini M. Gawas *[Signature]*

Dr. Pallavi P. Gande *[Signature]*

Dr. Bhargav K. Alavani *[Signature]*

Coordinators:

Dr. Bhargav K. Alavani *[Signature]*

Dr. Mridini M. Gawas *[Signature]*



GSRF Winter School 2025













Solving Reality

A hands on workshop on Applied Differential Equations and Computational Methods




Attendance sheet

Date: 26/11/2025



Sr.no	Name	College	Session	
			Morning	Afternoon
1	Agnelia Fernandes	DCT'S Dhempe College of Arts and Science	<i>Agnelia</i>	<i>Agnelia</i>
2	Amanpreet Kaur	St.Xaviers College , Mapusa	<i>Amanpreet</i>	<i>Amanpreet</i>
3	Aryan Shekhar Magundnawar	Parvatibai Chowgule College of Arts and Science (Autonomous)	<i>Aryan</i>	<i>Aryan</i>
4	Atharv Gaonker	PES RSN COLLEGE OF ARTS AND SCIENCE	<i>Atharv</i>	<i>Atharv</i>
5	Bhumi Redkar	Dhyanprasarak mandals college and Research Centre	<i>Bhumi</i>	<i>Bhumi</i>
6	Bindav Kerkar	Parvatibai Chowgule College of Arts and Science (Autonomous)	<i>Bindav</i>	<i>Bindav</i>
7	Brijali Dergunkar	Ganpat Parsekar College of Education	<i>Brijali</i>	<i>Brijali</i>
8	Dipesh Ghadi	St.Xaviers College , Mapusa	<i>Dipesh</i>	<i>Dipesh</i>
9	Kavita Sahani	DCT'S Dhempe College of Arts and Science	<i>Kavita</i>	<i>Kavita</i>
10	Lorelei Travasso	St.Xaviers College , Mapusa	<i>Lorelei</i>	<i>Lorelei</i>
11	Navnath Samant	Dhyanprasarak mandals college and Research Centre	<i>Navnath</i>	<i>Navnath</i>
12	Piyusha Tari	DCT'S Dhempe College of Arts and Science	<i>Piyusha</i>	<i>Piyusha</i>
13	Pushpak Desai	PES RSN COLLEGE OF ARTS AND SCIENCE	<i>Pushpak</i>	<i>Pushpak</i>
14	Raja Pandit	DCT'S Dhempe College of Arts and Science	<i>Raja</i>	<i>Raja</i>
15	Ronan Dasilva	Parvatibai Chowgule College of Arts and Science (Autonomous)	<i>Ronan</i>	<i>Ronan</i>
16	Saloni Gupta	DCT'S Dhempe College of Arts and Science	<i>Saloni</i>	<i>Saloni</i>
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23	Uma Madhav Naik	DCT'S Dhempe College of Arts and Science		
24	Yannah Angelica Marchon	DCT'S Dhempe College of Arts and Science		
25	Nidhi Tamse	Parvatibai Chowgule College of Arts and Science (Autonomous)	A	A
26	Jonathan Savio	St. Xavier's College	A	A

Speakers

Dr. Meidini M. Gawas   
 Dr. Pallavi P. Gaude   
 Dr. Bhargav. K. Alavani 

Coordinators:

Dr. Bhargav. K. Alavani   
 Dr. Meidini M. Gawas 

GSRF Winter School 2025

**Solving Reality**





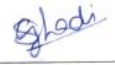











**A hands on workshop on Applied Differential Equations and Computational Methods**

Attendance sheet


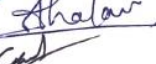

Date: 11/11/2025

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Speakers

Dr. Mridini M. Gawas   
 Dr. Bhargav K. Alavani   
 Dr. Pallavi P. Gaude 

Coordinators:

Dr. Bhargav K. Alavani   
 Dr. Mridini M. Gawas 

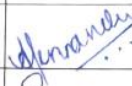


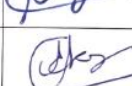
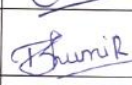


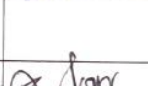
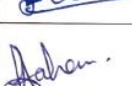
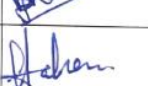












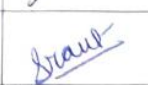







GSRF Winter School 2025















Solving Reality

A hands on workshop on Applied Differential Equations and Computational Methods

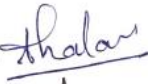

Attendance sheet

Date: 28/11/2025

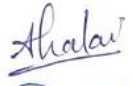

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13	Pushpak Desai	PES RSN COLLEGE OF ARTS AND SCIENCE		
14	Raja Pandit	DCT'S Dhempe College of Arts and Science		
15	Ronan Dasilva	Parvatibai Chowgule College of Arts and Science (Autonomous)		
16	Saloni Gupta	DCT'S Dhempe College of Arts and Science		
17	Saloni Raut	DCT'S Dhempe College of Arts and Science		
18	Sara Korgaonkar	St.Xaviers College , Mapusa		

19	Shreya Pednekar	DCT'S Dhempe College of Arts and Science		
20	Shyam Vernekar	Dhyanprasarak mandals college and Research Centre		
21	Simran Ghadi	Dhyanprasarak mandals college and Research Centre		
22	Soham Kalsekar	Government college of arts science and commerce, Quepem		
23	Uma Madhav Naik	DCT'S Dhempe College of Arts and Science		
24	Yannah Angelica Marchon	DCT'S Dhempe College of Arts and Science		
25	Nidhi Tamse	Parvatibai Chowgule College of Arts and Science (Autonomous)		
26	Jonathan Savio	St. Xavier's College, Mapusa		

Speakers

Dr. Bhargav K. Alavani   
 Dr. Pallavi P. Gaude 

Coordinators:

Dr. Bhargav K. Alavani   
 Dr. Mridini M. Gawas 



GSRF Winter School 2025












Solving Reality

A hands on workshop on Applied Differential Equations and Computational Methods



Attendance sheet

Date: 29/11/2025


Sr.no	Name	College	Session	
			Morning	Afternoon
1	Agnelia Fernandes	DCT'S Dhempe College of Arts and Science	<i>Hernandez</i>	P
2	Amanpreet Kaur	St.Xaviers College , Mapusa	<i>P. Kaur</i>	<i>P. Kaur</i>
3	Aryan Shekhar Magundnawar	Parvatibai Chowgule College of Arts and Science (Autonomous)	P	P
4	Atharv Gaonker	PES RSN COLLEGE OF ARTS AND SCIENCE	<i>Agas</i>	<i>Agas</i>
5	Bhumi Redkar	Dhyanprasarak mandals college and Research Centre	<i>Bhumi R.</i>	<i>Bhumi R.</i>
6	Bindav Kerkar	Parvatibai Chowgule College of Arts and Science (Autonomous)	P	P
7	Brijali Dergunkar	Ganpat Parsekar College of Education	<i>Brijali</i>	P
8	Dipesh Ghadi	St.Xaviers College , Mapusa	<i>Ghadi</i>	<i>Ghadi</i>
9	Kavita Sahani	DCT'S Dhempe College of Arts and Science	<i>Sahani</i>	P
10	Lorelei Travasso	St.Xaviers College , Mapusa	<i>Travasso</i>	<i>Travasso</i>
11	Navnath Samant	Dhyanprasarak mandals college and Research Centre	<i>Samant</i>	<i>Samant</i>
12	Piyusha Tari	DCT'S Dhempe College of Arts and Science	<i>Tari</i>	P
13	Pushpak Desai	PES RSN COLLEGE OF ARTS AND SCIENCE	<i>Pushpak</i>	<i>Pushpak</i>
14	Raja Pandit	DCT'S Dhempe College of Arts and Science	<i>Pandit</i>	P
15	Ronan Dasilva	Parvatibai Chowgule College of Arts and Science (Autonomous)	P	P
16	Saloni Gupta	DCT'S Dhempe College of Arts and Science	<i>Gupta</i>	P
17	Saloni Raut	DCT'S Dhempe College of Arts and Science	<i>Raut</i>	P
18	Sara Korgaonkar	St Xaviers College , Mapusa	<i>Sara</i>	<i>Sara</i>

19	Shreya Pednekar	DCT'S Dhempe College of Arts and Science		
20	Shyam Vernekar	Dhyaprassarak mandals college and Research Centre		
21	Simran Ghadi	Dhyaprassarak mandals college and Research Centre		
22	Soham Kalsekar	Government college of arts science and commerce, Quepem		
23	Uma Madhav Naik	DCT'S Dhempe College of Arts and Science		P
24	Yannah Angelica Marchon	DCT'S Dhempe College of Arts and Science		P
25	Nidhi Tamse	Parvatibai Chowgule College of Arts and Science (Autonomous)	A	A
26	Jonathan Savio	St. Xavier's College, Mapusa		

#### Speakers

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