

Maplesoft Webinar

Applied Mathematics Meets Modern Physics: A Maplesoft Showcase



Join us for a dynamic webinar as Maplesoft 2025 turns theory into practical insight-ideal for educators, researchers, and industry professionals.

Meet the Speakers:



Prof. Dr. Shyamkant Anwane

Head of Physics at Shri Shivaji Science College, with 29+ years using Maple in STEM and computational physics.



Nithyashree K S

Data Analyst at Binary Semantics Ltd., combining analytics and Maple expertise to drive mathematical innovation.



Prof. P. K. Ahluwalia

President of IAPT and former HPU professor, recognized for advancing innovative methods in physics education.

 **Date: 24th April 2025** |  **Time: 3:00 PM – 4:30 PM IST**

Online Zoom Webinar | Free Registration

Webinar Highlights:

Introduction to Maple 2025 and AI Features	Solving Equations and Physics Models	Visualizing Concepts and Phenomena
Exploring Advanced Physics Packages	Built-in Resources for Teaching & Research	Interactive Q&A Session with our Speakers

Don't miss this opportunity to see **Maplesoft 2025** in action - **Limited Spots Available**

Register Today!

Outreach Activity through Webinar

Maplesoft Webinar Report

Title: *Applied Mathematics Meets Modern Physics: A Maplesoft Showcase*

Organized by: Maplesoft

Date: 24th April 2024

Format: Online Webinar (Zoom)

Speakers:

- **Prof. Dr. Shyamkant Anwane**
Head, Department of Physics, Shri Shivaji Science College, Nagpur
➤ Over 29 years of experience using Maple in STEM education and computational physics.
 - **Ms. Nithyashree K. S.**
Data Analyst, Binary Semantics Ltd.
➤ Expert in analytics and Maple, with a focus on mathematical innovation and AI integration.
 - **Prof. P. K. Ahluwalia**
President, IAPT & Former Professor, HPU
➤ Renowned for introducing innovative teaching methods in physics education.
-

Webinar Highlights:

- Introduction to **Maple 2025** and its **AI-powered features**
 - Demonstration of **advanced physics packages**
 - Solving differential equations and physics-based models
 - Using built-in resources for **teaching and research**
 - Visualization of concepts and real-world physical phenomena
 - Interactive **Q&A session** with all speakers
-

Session Summaries:

Prof. P. K. Ahluwalia:

- Emphasized the rising importance of *Computational Physics*.

- Advocated the use of **Maple** as an effective tool for both foundational learning and advanced research.

Ms. Nithyashree K. S.:

- Presented the **updated UI panels and palettes** in Maple 2025.
- Focused on **AI-enabled features** that enhance user experience and simplify complex computations.

Prof. Dr. S. W. Anwane (Hands-on Demonstration):

Delivered a practical session with real-time execution of Maple worksheets, covering:

- Basics of Maple: Panels, Palettes, and Interface
- Writing and solving equations
- Applications:
 - Bohr's Atomic Model
 - Differential Equations (DE) and Boundary Conditions
 - Simple Harmonic Motion (SHM) and Damped SHM
 - LCR Circuits
 - Plotting functions $f(x), f'(x), f''(x)$
 - Gravitational potential in segmented regions
 - Gravity variation with latitude
 - 3D Plots and Julia Sets
 - Gamow's Quantum Tunneling Theory
 - Schwarzschild Solution from General Relativity

Dr. Anwane also conducted a live Q&A session addressing technical and conceptual queries from participants.

The above webinar was organized under the leadership of **Dr. S. W. Anwane**, who serves on the **Ambassador Board of Maplesoft** to promote the use of computational tools in **STEM education across the SAARC region**. This impactful event was jointly hosted by the **Indian Association of Physics Teachers (IAPT)**, **Sub-Regional Council SRC-08E**, and **Shri Shivaji Science College, Nagpur**, with the aim of showcasing the capabilities of **Maple 2025** in enhancing teaching, learning, and research in applied mathematics and modern physics.

Participating Institutions (Selected List):

- **IITs:** Roorkee, Jodhpur, Ropar
- **NITs:** Raipur, Karnataka
- **BITS Pilani** (Multiple campuses)
- **SRM Institute of Science and Technology**
- **IIIT Bhubaneswar**
- **Karnatak University Dharwad**
- **Mahatma Gandhi Central University, Bihar**
- **Central University of Haryana**
- **Jawaharlal Nehru Technological University, Kakinada**
- **Dayananda Sagar College of Engineering, Bengaluru**
- **Terna Engineering College**
- **Shri Shivaji Science College, Nagpur**
- **LAD & Smt. R.P. College for Women, Nagpur**
- **SSES Amravati's Science College, Nagpur**
- **SA College, Naregal**
- And many more academic and research institutions from across India.

Conclusion:

The webinar successfully highlighted the integration of **Maple 2025's AI features** into advanced physics education and research. The practical demonstrations, expert insights, and widespread institutional participation made this event a significant contribution toward promoting computational tools in STEM education.



Dr S W Anwane

Professor & Head, Department of Physics, Shri Shivaji Science College, NAGPUR

President, SRC-08 E IAPT, Nagpur

Member on Board of Ambassadors to promote MAPLESOFT for STEM Education

Maplesoft Webinar

Applied Mathematics Meets Modern Physics: A Maplesoft Showcase



Join us for a dynamic webinar as Maplesoft 2025 turns theory into practical insight-ideal for educators, researchers, and industry professionals.

Meet the Speakers:



Prof. Dr. Shyamkant Anwane

Head of Physics at Shri Shivaji Science College, with 29+ years using Maple in STEM and computational physics.



Nithyashree K S

Data Analyst at Binary Semantics Ltd., combining analytics and Maple expertise to drive mathematical innovation.



Prof. P. K. Ahluwalia

President of IAPT and former HPU professor, recognized for advancing innovative methods in physics education.

 **Date: 24th April 2025** |  **Time: 3:00 PM – 4:30 PM IST**

Online Zoom Webinar | Free Registration

Webinar Highlights:

Introduction to Maple 2025 and AI Features	Solving Equations and Physics Models	Visualizing Concepts and Phenomena
Exploring Advanced Physics Packages	Built-in Resources for Teaching & Research	Interactive Q&A Session with our Speakers

Don't miss this opportunity to see **Maplesoft 2025** in action - **Limited Spots Available**

Register Today!

MAPLE WEBINAR

(April 24th, 2025)

PROGRAM SCHEDULE

3PM	Welcoming Participants Introducing Prof. Dr. Shyamkant Anwane and Prof. P.K. Ahluwalia
3.10PM	Introduction to Binary Semantics Portfolio
3.15PM	Talk by Professor P.K Ahluwalia on his experience of using Maple
3.15PM – 3.30PM	Brief Introduction to Maple2025 and Maple Interface, AI assistance in Maple
3.30PM – 4PM	<u>Topic 1: Introducing Context Panel and Pallettes</u> Solving Simultaneous Equations and Applications in Bohr Model
	<u>Topic 2 : Ways of Approaching Calculus</u> 2) Solving 1st Order Differential Equations (i) Radioactive Decay (ii) Newtons Law of Cooling 2) Solving 2nd Order Differential Equations (i) SHM (ii) Damped SHM (iii) LCR Circuit
	<u>Topic 3 : Visualization with Maple</u> i. Plot of a Mathematical function, its first derivative and second derivative ii. A plot of Gravitational Potential above and below surface of earth iii. A Plot of Gravity with Latitude
	<u>Topic 4: Working with Packages in Maple – Physics</u> i. Julia Sets ii. Gamow Theory – Quantum Tunnelling iii. Schwarzschild Solution.
	<u>Topic 5: Maple Resources for Teaching and Research</u>
4PM – 4.30PM	Conclusion and Q&A Session

[Maplesoft Webinar Emailers \(April 2025\)](#)

Drip #1 – Introduction Email

Subject Line:

An Exclusive Webinar for You: Experience Maple 2025 in Action

Banner:

Experience the Maple 2025 Difference – Exclusive Webinar

Explore innovations in STEM learning with expert-led demonstrations and innovation tools.

[Register Today!]

Body:

Join our webinar to delve into the advanced capabilities of **Maple 2025**, exploring its transformative role in physics, mathematics, and modeling through expert insights and practical applications.

Date: 24th April 2025

Time: 3:00 PM – 4:30 PM IST

Online Zoom Webinar | Free Registration

Meet the Speakers:

- **Prof. Dr. Shyamkant Anwane**
Head of Physics, Shri Shivaji Science College; 29+ years of experience in Maple-driven STEM education.
- **Prof. P.K. Ahluwalia**
President of IAPT and former HPU professor; expert in physics research and innovative pedagogies.
- **Nithyashree K S**
Data Analyst, Binary Semantics Ltd.; Maple expert, focusing on data-driven mathematical solutions.

Key Takeaways:

- Hands-on walkthrough of Maple 2025's interface and AI features
- Physics and math applications: differential equations, Bohr model, and more
- Visualization techniques for gravitational fields, derivatives, and functions
- Advanced physics packages: Gamow Theory, Schwarzschild Solution, and others
- Built-in resources for teaching, research, and learning enhancement
- Live Q&A session with the speakers to address your queries

Be part of a transformative session where pedagogy meets technology—designed for educators and researchers shaping the future of STEM.

[Claim Your Spot Here!]

Drip #2 – Last Call Email**Subject Line:**

Last Chance to Register: Maple 2025 Webinar for Physics & Math Innovation

Banner:**Final Call: Unlock the Power of Maple 2025**

Innovate Your STEM Curriculum with Cutting-Edge Tools and New Maple Updates

[Register Now!]

Body:

Time is running out! Don't miss this opportunity to engage with the all-new **Maple 2025** — designed for the evolving needs of higher education and research.

Date: 24th April 2025

Time: 3:00 PM – 4:30 PM IST

Online Zoom Webinar | Free Registration

Why You Should Attend:

- Experience the latest innovations in Maple 2025 for physics and mathematics
- Learn classroom-ready applications from seasoned educators and experts
- Discover powerful tools for visualization, modeling, and simulation
- Explore advanced physics packages for deeper academic insight
- Engage directly with experts during an interactive Q&A session

Whether you're a professor, researcher, or instructor in physics or applied mathematics — this session is tailored for you.

[Secure Your Spot Now]

Final Call: Unlock the Power of Maple 2025

Innovate Your STEM Curriculum with Cutting-Edge Tools and New Maple Updates

Register Today



Time is running out! Don't miss this opportunity to engage with the all-new **Maple 2025** - designed for the evolving needs of higher education and research.



24th April 2025



3:00 PM – 4:30 PM IST

Online Zoom Webinar | Free Registration

Why You Should Attend:

- ✓ Experience the latest innovations in Maple 2025 for physics and mathematics
- ✓ Learn classroom-ready applications from seasoned educators and experts
- ✓ Discover powerful tools for visualization, modeling, and simulation
- ✓ Explore advanced physics packages for deeper academic insight
- ✓ Engage directly with experts during an interactive Q&A session

Whether you're a professor, researcher, or instructor in physics or applied mathematics — this session is tailored for you.

Secure Your Spot Now



List of Participants of Maplesoft Webinar: Applied Mathematics Meets Modern Physics: A Maplesoft Showcase

Sr No	Name	First Name	Last Name	Organization Name
1.	Avirup Pan	Avirup	Pan	Ahmedabad
2.	Attaluri Venkata Naga Ashok Kumar	Attaluri	Venkata Naga Ashok Kumar	Jawaharlal Nehru Technological University Kakinada
3.	Ashish Kumar	Ashish	Kumar	Manrakhan Mahto B.Ed College Ranchi
4.	Dr. (Ms) Chandhini G	Dr. (Ms) Chandhini	G	NIT Karnataka
5.	Ankur Saurav	Ankur	Saurav	Birla Institute of Technology and Science Pilani, Pilani Campus, Pilani
6.	Jyoti Luhaniwal	Jyoti	Luhaniwal	BITS Pilani , Pilani Campus, Rajasthan India
7.	Prashant Ashiwal	Prashant	Ashiwal	BITS Pilani
8.	Shipra Gupta	Shipra	Gupta	Birla Institute of Technology and Science Pilani, Pilani Campus, Vidya Vihar, Jhunjhunu, Rajasthan
9.	Neha Malpure	Neha	Malpure	KBCNMU
10.	Sanjay Kulal	Sanjay	Kulal	
11.	Nikhil Bhagat	Nikhil	Bhagat	
12.	Meenakshi Sonth	Meenakshi	Sonth	Terna Engineering College
13.	Nagarathnamma K G	Nagarathna mma	K G	Dayananda Sagar College of Engineering
14.	Yogesh Jadhav	Yogesh	Jadhav	PAH Solapur University Solapur
15.	Sugandha Khangar	Sugandha	Khangar	Shivaji Science College, Congress Nagar Nagpur
16.	Sathishkumar G	Sathishkumar	G	SRM Institute of Science and Technology
17.	Manish Khare	Manish	Khare	
18.	KOMALA C S	KOMALA	C S	
19.	Chandra Shekhar	Chandra	Shekhar	BITS Pilani
20.	Jyoti Purba	Jyoti	Purba	Bits Pilani, Pilani campus
21.	Mohd Irfan	Mohd	Irfan	National Institute of Technology Raipur
22.	Anup Sharma	Anup	Sharma	NIT Raipur
23.	KM Rashmi	KM	Rashmi	NIT RAIPUR
24.	Deepak Singh	Deepak	Singh	NIT Raipur
25.	Supriya Paikra	Supriya	Paikra	National Institute of Technology Raipur
26.	Priyaranjan Mallick	Priyaranjan	Mallick	NIT Raipur
27.	Chitra Kumar	Chitra	Kumar	Nit Raipur

28.	Amit Kumar	Amit	Kumar	National Institute of Technology Raipur
29.	Reena Choudhary	Reena	Choudhary	NIT Raipur
30.	Kanta Singla	Kanta	Singla	Central University of Haryana
31.	Sahil Berwal	Sahil	Berwal	Central university of Haryana
32.	Bharat Singh Rajpurohit	Bharat	Singh Rajpurohit	Indian Institute of Technology, Jodhpur
33.	Niram Redhu	Niram	Redhu	
34.	Rajesh Kumar Gupta	Rajesh Kumar	Gupta	CUH
35.	Chiranjibi Mahapatra	Chiranjibi	Mahapatra	NIT RAIPUR
36.	Anu Anu	Anu	Anu	BITS pilani, Pilani Rajasthan
37.	Dr. Vahida .Z. Attar	Dr. Vahida	.Z. Attar	
38.	Abhisek K. Behera	Abhisek	K. Behera	Indian Institute of Technology Roorkee
39.	Deepak K	Deepak	K	
40.	Mohammed Zubair	Mohammed	Zubair	IIT Ropar
41.	Lakshmeesh Hegade	Lakshmeesh	Hegade	
42.	Awniya Kumar	Awniya	Kumar	Mahatma Gandhi Central University, Bihar
43.	Anand Kumar	Anand	Kumar	
44.	Hamsapriya R S	Hamsapriya	R S	Bangalore University
45.	AKASH GORAVAR	AKASH	GORAVAR	
46.	Sahana Patagar	Sahana	Patagar	Karnatak University Dharwad
47.	Sudesh Kumar	Sudesh	Kumar	Mahatma Gandhi Central University
48.	Sarika Hiremath	Sarika	Hiremath	Rani Chennamma University Belagavi
49.	ANAGHA N KULKARNI	ANAGHA N	KULKARNI	Karnatak University Dharwad
50.	PAWAN KUMAR	PAWAN	KUMAR	iit ropar
51.	Meghashree G R	Meghashree	G R	
52.	Vinayak Doddamani	Vinayak	Doddamani	Karnatak University Dharwad
53.	Aprinbegum Aprinbegum	Aprinbegum	Aprinbegum	SA college naregal
54.	Basavaraj Joochani	Basavaraj	Joochani	SA COLLEGE NAREGAL
55.	Dr. Hemanta Kumar Pati	Dr. Hemanta	Kumar Pati	IIIT Bhubaneswar
56.	Priyanka Virutkar	Priyanka	Virutkar	Shivaji Science College Nagpur
57.	Nidhi Shukla	Nidhi	Shukla	IIT Roorkee
58.	Dr. Sarang Daf	Dr. Sarang	Daf	Shri Shivaji Science College Nagpur
59.	Kanchan Jivnapurkar	Kanchan	Jivnapurkar	Shri Shivaji Science College, Nagpur
60.	Chanda Jatgade	Chanda	Jatgade	Shri Shivaji Science College Nagpur
61.	Peetam Bairwa	Peetam	Bairwa	NATIONAL INSTITUTE OF TECHNOLOGY RAIPUR
62.	Shekhar Nishad	Shekhar	Nishad	NIT Raipur

63.	Sourav Sasmal	Sourav	Sasmal	
64.	Shrivatsa Pitale	Shrivatsa	Pitale	Shri Shivaji Science College Nagpur
65.	Aniruddha Kumar Sharma	Aniruddha Kumar	Sharma	
66.	Disha Moni Kakati	Disha Moni	Kakati	National Institute of Technology Raipur
67.	Sujit Samanta	Sujit	Samanta	National Institute of Technology Raipur
68.	Savithri H	Savithri	H	Dayanand Sagar College of engineering Bengaluru
69.	Preetham N Raj	Preetham N	Raj	Dayananda Sagar College of Engineering Bengaluru
70.	NITA SHINDE	NITA	SHINDE	LAD AND SMT RP COLLEGE FOR WOMEN, NAGPUR
71.	Shraddha Pande	Shraddha	Pande	LAD & Smt R.P.College for Women, Nagpur
72.	Madhukar Kulkarni	Madhukar	Kulkarni	Karnatak University Dharwad
73.	Shahin Anjum Kamar Ali Sayyad	Shahin Anjum Kamar Ali	Sayyad	SSES Amt's Science College Congress Nagar Nagpur
74.	Akshata Patgar	Akshata	Patgar	Karnatak University Dharwad
75.	Sushmita Kabadagi	Sushmita	Kabadagi	Karnatak University Dharwad
76.	VISHALAKSHI SHIVANAND KAPANUR	VISHALAKSHI	SHIVANAND KAPANUR	
77.	Dr. Gajanan Jadhav	Dr. Gajanan	Jadhav	SSESA'S Science College Nagpur
78.	Neelima Ghiya	Neelima	Ghiya	BITS PILANI
79.	Sharmila Sheoran	Sharmila	Sheoran	Central University of Haryana
80.	Bhavsagar .	Bhavsagar	.	NIT Raipur
81.	Priya Sarkar	Priya	Sarkar	Nit, raipur
82.	Aditi Namanna	Aditi	Namanna	Kle Hsk science institute hubli
83.	Santosh Kumar Raidas	Santosh Kumar	Raidas	National Institute of Technology, Raipur
84.	sunil kushavaha	sunil	kushavaha	NIT Raipur
85.	Abdullah Abdullah	Abdullah	Abdullah	Indian Institute of Technology Jodhpur
86.	Indra Kumar	Indra	Kumar	NIT
87.	Deepak Barik	Deepak	Barik	National Institute of Technology Raipur
88.	ANIL KUMAR	ANIL	KUMAR	BITS PILANI , PILANI CAMPUS
89.	Ariba Gahlot	Ariba	Gahlot	HSK college
90.	Kajal mishra	Kajal	mishra	National Institute of technology Raipur
91.	Priyadharshini M	Priyadharshi ni	M	SRM Institute of Science and Technology Ramapuram Chennai
92.	SIDDU SHIRALASHETTI	SIDDU	SHIRALASHETT I	Karnatak University Dharwad

93.	Vijender Yadav	Vijender	Yadav	Birla Institute of Technology And Science Pilani
94.	Rajeshwari Hugar	Rajeshwari	Hugar	College
95.	Parag Bramhankar	Parag	Bramhankar	Shri Shivaji Science College Nagpur