

**REPORT ON
THREE DAYS COMPACT COURSE
ON
LINEAR ALGEBRA**

10th to 12th October 2025



**Organised by
Department of Mathematics
Sonepur College, Sonepur**

**Supported by
Professor R. Balakrishnan Endowment Trust (RBET)
&
The Indian Mathematics Consortium (TMC)**

The Department of Mathematics, Sonepur College, Sonepur organized a three-day **Compact Course on Linear Algebra** from **10th to 12th October 2025**. The course was supported by the **Professor R. Balakrishnan Endowment Trust (RBET)**, Tiruchirappalli, Tamil Nadu, and **The Indian Mathematics Consortium (TMC)**, New Delhi. Dr. Kshama Sagar Sahu, the local coordinator, along with all faculty members of the department, played an instrumental role in the successful organization of the programme.

The primary objective of the Trust is to encourage young students to pursue higher studies and research in Mathematics. The Professor R. Balakrishnan Endowment Trust was established with a singular vision—to inspire and nurture mathematical talent across the country. Named in honour of Professor R. Balakrishnan, a distinguished mathematician and educator, the Trust continues to support academic activities that promote mathematical learning at various levels.

The Indian Mathematics Consortium (TMC) is a premier organisation dedicated to advancing mathematical education and research in India. It actively supports seminars, conferences, workshops, and training programmes in collaboration with reputed mathematical societies and institutions across the country.

Invitations for this compact course were sent to all colleges in Subarnapur District, Odisha. All students from the Department of Mathematics, Sonepur College, participated enthusiastically. Students from neighbouring institutions also joined the course and benefitted greatly. In total, **40 students** enrolled for this academic programme.

DAY 1: 10th October 2025

The programme commenced with an inaugural session graced by **Sri Radhakanta Naik**, Principal, Sonepur College, who highlighted the relevance of Mathematics in everyday life and encouraged students to constantly remain engaged with the subject. **Prof. (Dr.) Tarakanta Nayak**, Professor of Mathematics, IIT Bhubaneswar, joined as the chief Resource Person and addressed the gathering. During the session, he inspired the students by explaining how Linear Algebra forms the backbone of modern mathematics and its applications in various branches of pure mathematics. His insightful remarks motivated students to explore Mathematics beyond classroom learning and to consider research as a career path. **Dr. Saroj Kumar Padhan**, Assistant Professor, VSSUT Burla, and **Dr. Alok Kumar Sahoo**, Assistant Professor, Bhadrak (Auto) College, Bhadrak, also participated as Resource Persons. They emphasized the vast opportunities available for higher studies and research in Mathematics and encouraged students to cultivate analytical thinking and problem-solving skills.

Sri Biswanath Meher, Head of the Department of Mathematics, welcomed the participants and motivated them to work diligently toward their academic goals. **Dr. Kshama Sagar Sahu**, faculty of Mathematics and Local Coordinator, encouraged students to take full advantage of the sessions, interact actively with the experts, and utilize the platform to strengthen their conceptual foundations. He also extended heartfelt gratitude to **RBET** and **TMC** for their generous financial support, which made the successful organisation of the programme possible. **Sri Subrat Kumar Bhoi**, faculty of Mathematics extended his full cooperation in organising the programme and ensuring the smooth conduct of the inaugural events. A Vote of Thanks was proposed by **Smt. Sanghamitra Nag**, faculty of Mathematics who expressed gratitude to the Principal, Resource Persons, faculty

members, students, and supporting staff for their contributions toward the successful organisation of the programme.

Following the inauguration, the first day included two lectures on foundational topics in Linear Algebra, followed by interactive problem-solving sessions. Students engaged actively and clarified many conceptual doubts.



DAY 2: 11th October 2025

The second day began with a dedicated Doubt Clearance Session, during which the Resource Persons addressed students' questions from the previous day's lectures. This was followed by two more lectures that explored advanced concepts in Linear Algebra, including vector spaces, linear transformations, and eigen value problems.

In the afternoon, students participated in two intensive Problem-Solving Sessions, where they practiced a variety of problems under expert guidance. These sessions greatly strengthened their understanding and boosted their confidence in handling challenging mathematical tasks.

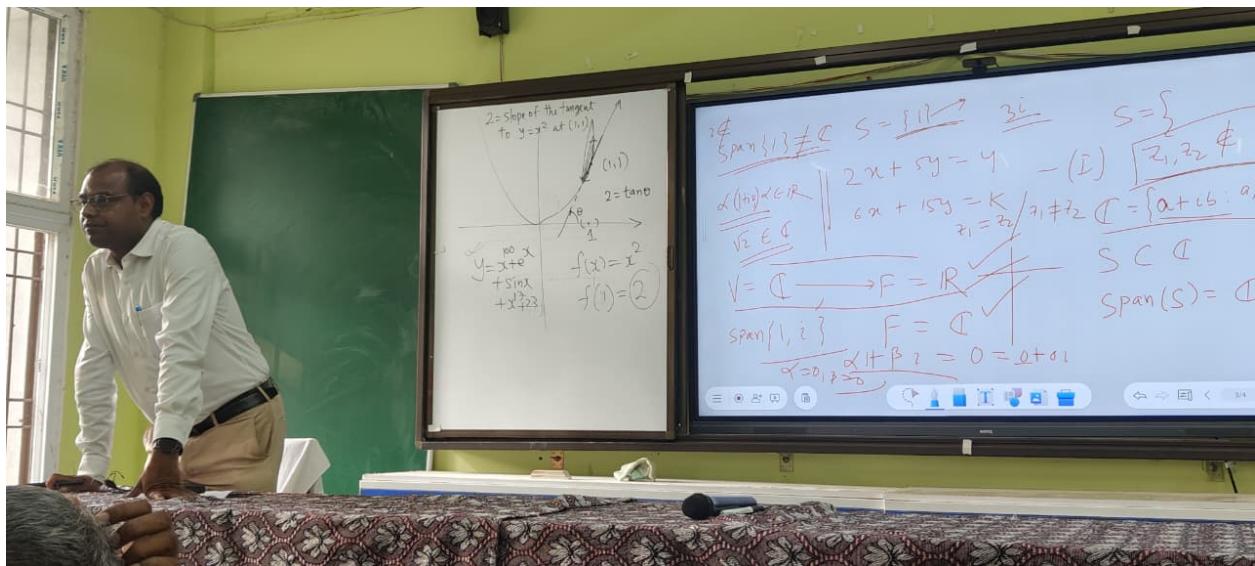


DAY 3: 12th October 2025

The final day began similarly with a Doubt Clearance session, during which students sought clarifications on difficult topics. Subsequently, two more lectures were delivered, covering important applications of Linear Algebra and offering

insights into how the subject forms the foundation for higher mathematics and modern technology. The final afternoon session was devoted to problem-solving activities, enabling students to consolidate the knowledge gained over the three days.

The programme concluded with a Closing Ceremony, where participants shared their feedback and expressed gratitude for the opportunity to learn from eminent resource persons. Certificates were distributed to all students who completed the course. The Resource Persons appreciated the enthusiasm shown by the students and commended the Department for organising such a meaningful academic event.



CONCLUSION

The **Three-Day Compact Course on Linear Algebra** proved to be highly enriching and beneficial for the students. The Department of Mathematics successfully created an intellectually stimulating environment where participants could deepen their understanding of the subject. The support extended by

Professor R. Balakrishnan Endowment Trust (RBET) and The Indian Mathematics Consortium (TMC) played a crucial role in the success of the programme.

The Department expresses its sincere gratitude to all Resource Persons, students, and supporting organisations for their cooperation in making the programme a memorable and academically rewarding experience.

