

NEWSLETTER



APRIL - JUNE 2024

MESSAGE FROM THE HOD

It gives me immense pleasure to connect with you through this edition of our newsletter. The School of Basic Sciences continues to uphold its commitment to academic excellence, research, and innovation. Our dedicated faculty and bright students are making remarkable strides in their respective fields, contributing to the ever-expanding frontiers of knowledge. This year, we have witnessed significant achievements, from groundbreaking research publications to student accomplishments in national and international forums. Our department remains focused on fostering a culture of inquiry, curiosity, and collaboration, ensuring that our students receive the best foundation in the fundamental sciences. I take this opportunity to extend my heartfelt gratitude to our faculty, researchers, and students for their unwavering dedication. Let us continue to strive for excellence and work towards making meaningful contributions to science and society.



Dr. SUBHABRATA

MONDAL

HOD and Assistant

Professor

School of Basic Sciences

MESSAGE FROM THE CONVENOR

The School of Basic Sciences is committed to fostering a culture of curiosity, innovation, and academic excellence. As we embark on another exciting semester, I encourage everyone to explore the wonders of science, collaborate across disciplines, and push the boundaries of knowledge. Let's make the most of the opportunities ahead, whether in the lab, classroom, or beyond. Together, we can achieve remarkable milestones and contribute meaningfully to the scientific community. Wishing you all a productive and inspiring term ahead!



Dr. KAZI HASIBUR
RAHMAN
Assistant Professor
School of Basic Sciences

Editor's Note

TEACHER EDITOR'S

We would like to thanks to HOD Sir,
Senior Teachers, Members of
Editorial team and Contributors of
articles for their contribution for
second edition of Newsletter in 2024.
The content of this Newsletter
includes latest developments in
Science and interesting Articles.
It is proud moment for us to be part
of Editorial team. This Newsletter
provides a source of inspiration to
students to find absorbing interest in
Science.



Mr. Tanmoy Pal

Assistant Professor
School of Basic Sciences



Dr. Shilpa Maity

Assistant Professor
School of Basic Sciences

Events

Unified Approach

MoU signed between Swami Vivekananda University and Mahadevananda Mahavidyalaya

4th April, 2024



Swami Vivekananda University Mahadevananda and Mahavidyalaya have signed a Memorandum of Understanding (MoU) to foster academic and research collaboration in the field of basic sciences. This agreement aims to strengthen ties between institutions. encouraging ioint initiatives Collaborative Research Projects: Focus on interdisciplinary research to address contemporary challenges in basic sciences. Workshops and Seminars: Jointly organized events to promote knowledge sharing and skill enhancement. Resource Sharing: Access to laboratory facilities, libraries, and other academic resources to boost productivity. Skill Development: Special training sessions for students and researchers to improve employability and innovation skills. This partnership is expected to pave the way for significant advancements in basic sciences and contribute to the overall academic development of both institutions.

Board of Studies Meeting for Physics Department

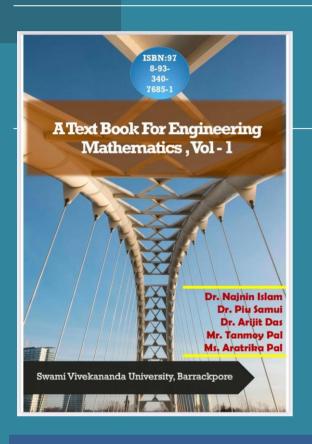
7th May, 2024



The Department of Physics, Swami Vivekananda University, successfully conducted its Board of Studies (BOS) meeting on 7th May, 2024 to discuss key academic developments, curriculum enhancements, and future research directions. Esteemed faculty members, subject experts, and industry professionals participated in the meeting to review and update the syllabus, ensuring it aligns with the latest advancements in the field. Valuable insights and recommendations were shared to strengthen the academic framework and foster innovation in physics education. The department remains committed to providing a dynamic and research-oriented learning environment for students.

Published Books

A Text Book For Engineering Mathematics



Featured Book: A Text Book For Engineering

Mathematics, Vol-1

ISBN: 978-93-340-7685-1

🖆 Author(s): Dr. Najnin Islam

Dr. Piu Samui

Dr. Arijit Das

Mr. Tanmoy Pal

Ms. Aratrika Pal

Published by: Swami Vivekananda University

ESCRIPTION

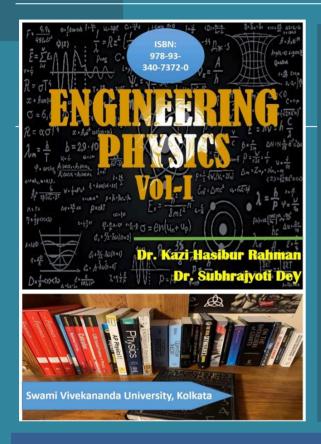
"A Textbook for Engineering Mathematics, Vol-1" is a comprehensive guide designed for undergraduate engineering students. This book covers fundamental mathematical concepts essential for engineering disciplines, providing a strong foundation in problem-solving and analytical skills.

! Key Topics Covered:

- \checkmark Differential Calculus Limits, Continuity, Differentiation & Applications
- ✓ Integral Calculus Definite & Indefinite Integrals,
 Applications
- ✓ Matrices and Determinants Linear Equations, Eigenvalues & Eigenvectors
- \checkmark Differential Equations First & Higher-Order Equations, Applications in Engineering
- ✓ Complex Numbers & Vector Calculus Basics and Engineering Applications

Published Books

Engineering Physics



Featured Book: Engineering Physics, Vol-1

ISBN: 978-93-340-7372-0

△ Author: Dr. Kazi Hasibur Rahman

Dr. Subhrajyoti Dey

Published by: Swami Vivekananda University

ESCRIPTION

"Engineering Physics, Vol-1" is a comprehensive textbook designed for undergraduate engineering students, covering fundamental concepts of physics essential for various engineering disciplines. The book bridges the gap between theoretical physics and practical engineering applications, making complex topics easier to understand.

- **E** Key Topics Covered:
- ✓ Mechanics & Kinematics Newtonian Mechanics, Laws of Motion, and Rotational Dynamics
- \checkmark Optics & Laser Technology Interference, Diffraction, and Laser Applications
- ✓ Electromagnetism Electrostatics, Magnetism, and Maxwell's Equations
- ✓ Modern Physics & Quantum Mechanics Basics of Quantum Theory and Semiconductor Physics.