Shiv Chhatrapati Shikshan Sanstha's
Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)
Department of PHYSICS AND ELECTRONICS
Teaching Plan

Timetable Duration : July 2024 to November 2024

Name of the Teacher : **Dr. Dayanand Raje**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
B.Sc.II	A	Mathematical Physics and Transducers	201 PHY 3102	45

Summary of Lesson Plan

Unit and Chapter to be Covered	Expected No. of Lectures	Date	Academic activities to be Organized	No. of Test / Assignment
Unit I: Vector Analysis	12	04/07/2024 To 02/08/2024	Guidelines for SWAYAM:NPTEL courses	Problems to solve
Unit II: Complex Variables	10	03/08/2024 To 30/08/2024	---	Unit Test I (Activity Based)
Unit III: Fourier Series and Laplace transform	12	31/08/2024 To 21/09/2024	Unit test II (MCQs)	Examples to solve
Unit IV: Transducers	11	26/09/2024 To 24/10/2024	ICT Based Teaching	Examples and Concepts of Transducers

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Department of PHYSICS AND ELECTRONICS
Teaching Plan

Timetable Duration : July 2024 to November 2024

Name of the Teacher : **Dr. Dayanand Raje**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
M.Sc.II	A	Nuclear and Particle Physics	701PHY3102	45

Summary of Lesson Plan

Unit and Chapter to be Covered	Expected No. of Lectures	Date	Academic activities to be Organized	No. of Test / Assignment
Unit I: The Atomic nucleus and Nuclear Reactions	12	12/07/2024 To 07/08/2024	Motivation for Competitive Exams	angular momentum of the nucleus and failure of p-e hypothesis
Unit II: Nuclear Models	11	12/08/2024 To 03/09/2024	Inauguration of Physics Students' Associations & Guest Lecture	Unit Test I (Activity Based)
Unit III : Detection of Nuclear Radiations and Charged particle Accelerators	11	04/09/2024 To 01/10/2024	---	Unit test II (MCQs)
Unit IV: Elementary Particles	11	05/10/2024 To 23/10/2024	ICT Based Teaching	Classification of Elementary Particles

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Department of PHYSICS AND ELECTRONICS
Teaching Plan

Timetable Duration : July 2024 to November 2024

Name of the Teacher : **Dr. Dayanand Raje**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
B.Sc.I	A	Physics Workshop Skills	101 PHY 1601	30

Summary of Lesson Plan

Unit and Chapter to be Covered	Expected No. of Lectures	Date	Academic activities to be Organized	No. of Test / Assignment
Unit I: Measuring Units and Mechanical Skills	7	20/07/2024 To 09/08/2024	---	Examples to solve
Unit II: Multimeters and its applications	8	16/08/2024 To 06/09/2024	---	Unit test I (Activity based)
Practicals	15	13/09/2024 To 18/10/2024	---	Unit Test II (MCQs)

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Teaching Plan

Timetable Duration : July 2024 to November 2024

Name of the Teacher : **Dr. Dayanand Raje**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
B.Sc.I	A	Physics	101 PHY 1101 Mechanics and Properties of Matter	45

Summary of Lesson Plan

Unit and Chapter to be Covered	Expected No. of Lectures	Date	Academic activities to be Organized	No. of Test / Assignment
Unit I: Gravitation	11	04/07/2024 To 30/07/2024	Career Guidance	Problems to solve
Unit II: Elasticity	12	31/07/2014 To 27/08/2024	---	Unit Test I (Activity Based)
Unit III: Surface Tension	11	28/08/2024 To 25/09/2024	Inauguration of Physics Students' Association & Guest Lecture	Unit test II (MCQs)
Unit IV: Viscosity	11	30/09/2024 To 23/10/2024	---	Problems to solve

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Teaching Plan

Timetable Duration : December 2024 to March 2025

Name of the Teacher : **Dayanand Raje**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
M.Sc. I	A	Atomic and Molecular Spectroscopy	601PHY2101	45

Summary of Lesson Plan

Unit and Chapter to be Covered	Expected No. of Lectures	Date	Academic activities to be Organized	No. of Test / Assignment
Unit-I: Atomic Spectroscopy	12	05/12/2024 To 02/01/2025	Celebration of Energy Conservation Week	Examples to Solve
Unit II: Rotational and Vibrational Spectroscopy	11	03/01/2025 To 25/01/2025	College Day Celebration	CAT-I (Activity Based)
Unit III: Raman and Electronic Spectroscopy	11	30/01/2025 To 06/03/2025	Seminar	CAT -II (MCQs)
Unit IV: Resonance Spectroscopy	11	07/03/2025 To 29/03/2025	ICT based teaching	Examples to Solve

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Teaching Plan

Timetable Duration : December 2024 to March 2025

Name of the Teacher : **Dayanand Raje**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
B.Sc II	A	Nuclear Physics and Relativity	201PHY4101	45

Summary of Lesson Plan

Unit and Chapter to be Covered	Expected No. of Lectures	Date	Academic activities to be Organized	No. of Test / Assignment
Unit I: Atomic Nucleus	10	05/12/2024 To 28/12/2024	Celebration of Energy Conservation Week	Problems to Solve
Unit-II: Peaceful use of Nuclear Energy	12	02/01/2025 To 30/01/2025	College Day Celebration	CAT-I (Activity Based)
Unit-III: Radioactivity	12	31/01/2025 To 01/03/2025	ICT based teaching	CAT-II (MCQs)
Unit-IV: Special theory of Relativity	11	06/03/2025 To 28/03/2025	---	Examples to Solve

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Teaching Plan

Timetable Duration : December 2024 to March 2025

Name of the Teacher : **Dayanand Raje**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
B.Sc III	A	Atomic, Molecular and Statistical Physics	UPHY641	45

Summary of Lesson Plan

Unit and Chapter to be Covered	Expected No. of Lectures	Date	Academic activities to be Organized	No. of Test / Assignment
Unit-I: Atomic Spectra	12	09/12/2024 To 07/01/2025	Celebration of Energy Conservation Week	Examples to Solve
Unit-II: Molecular Spectroscopy	11	08/01/2025 To 12/02/2025	College Day Celebration	CAT-I (Activity Based)
Unit-III: Maxwell-Boltzmann Statistics	12	17/02/2025 To 11/03/2025	---	CAT-II (MCQs)
Unit-IV: Quantum Statistics	10	12/03/2025 To 29/03/2025	Carrier Guidens	Examples to Solve

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Teaching Plan

Timetable Duration : December 2024 to March 2025

Name of the Teacher : **Dayanand Raje**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
B.A., BCA B.Sc,I	A	Physics Workshop Skills	101PHY1601	30

Summary of Lesson Plan

Unit and Chapter to be Covered	Expected No. of Lectures	Date	Academic activities to be Organized	No. of Test / Assignment
Unit I : Measuring Units and Mechanical Skills	7	06/12/2024 To 03/01/2025	Energy Conservation Week Celebration	Examples to Solve
Unit II: Multimeters and its Applications	8	10/01/2025 To 31/01/2025	College Day Celebration	CAT-I (Activity Based)
Practicals	15	14/02/2025 To 28/03/2025	College Day Celebration	CAT -II (MCQs)

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