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 : **Vishakha Bhaskar Patil**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
Bsc III	A	Communication Electronics-I	U-ELE-563	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- Introduction to Communication System	11	04/07/2024 To 25/07/2024	Career Guidance	-
Unit II- Amplitude Modulation	12	26/07/2024 To 17/08/2024	-	Unit Test-I
Unit III- Frequency Modulation	11	22/08/2024 To 14/09/2024	Problem Solving	Unit Test-II
Unit IV- Pulse Modulation	11	19/09/2024 To 19/10/2024	-	-

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Department of Physics And Electronics
Teaching Plan

Timetable Duration : July 2024 to November 2024

Name of the Teacher : **Vishakha Bhaskar Patil**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
Bsc III	A	Quantum mechanics	U-PHY-551	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 - Origin of Quantum Mechanics	12	01/07/2024 To 25/07/2024	Problem Solving	-
Unit II-Schrodinger wave equation and operators	10	26/07/2024 To 17/08/2024	-	Unit test -I
Unit III- Applications of Schrodingers Steady State Equations	11	22/08/2024 To 14/09/2024	Problem Solving	Unit test - II
Unit IV-Quantum Theory of Hydrogen Atom	12	19/09/2024 To 19/10/2024	-	-

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Department of Physics And Electronics
Teaching Plan

Timetable Duration : July 2024 to November 2024

Name of the Teacher : **Vishakha Bhaskar Patil**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
Msc I	A	Mathematical Methods In Physics	601PHY1101	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-Matrix Algebra and Eigen Value Problem	11	22/07/2024 To 12/08/2024	Career Guidance	CAT-I
Unit II-Partial differential equation	12	13/08/2024 To 10/09/2024	-	-
Unit III- Calculus of Residues	11	17/09/2024 To 07/10/2024	Problem solving	CAT-II
Unit IV-Fourier Series	11	08/10/2024 To 23/10/2024	-	-

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Department of Physics And Electronics
Teaching Plan

Timetable Duration : July 2024 to November 2024

Name of the Teacher : **Vishakha Bhaskar Patil**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
Msc II	A	Thin film and Nanotechnology	701PHY3201A	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- Thin film and Deposition technique	11	12/07/2024 To 08/08/2024	Career Guidance	CAT-I
Unit II- Nucleation , Film growth and Structure of film	12	09/08/2024 To 06/09/2024	-	-
Unit III- Properties of Thin Films	11	12/09/2024 To 03/10/2024	ICT Based Teaching	-
Unit IV- Nanotechnology	11	04/10/2024 To 24/10/2024	-	CAT-II

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Department of Physics And Electronics
Teaching Plan

Timetable Duration : December 2024 to March 2025

Name of the Teacher : **Vishakha Patil**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
Bsc I	A	Amplifier and Number System	101ELE1202	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 - Transistor Biasing	12	05/12/2024 To 28/12/2024	Carrier Guidance	-
Unit II- Small Signal Amplifiers	12	02/01/2025 To 25/01/2025	ICT based teaching	-
Unit III - Feedback Amplifiers	12	30/01/2025 To 22/02/2025	-	CAT - I
Unit IV - Number System	9	27/02/2025 To 22/03/2025	-	CAT - II

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Department of Physics And Electronics
Teaching Plan

Timetable Duration : December 2024 to March 2025

Name of the Teacher : **Vishakha Patil**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
Bsc I	A	Basic Electronics - IV	101PHY2102	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 - Electronic components and Instruments	11	09/12/2024 To 01/01/2025	Carrier Guidance	-
Unit II- Semiconductor Devices	11	06/01/2025 To 28/01/2025	ICT based teaching	-
Unit III - Transistors	12	29/01/2025 To 18/02/2025	-	CAT - I
Unit IV- Sinusoidal Oscillators	11	24/02/2025 To 26/03/2025	-	CAT-II

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Department of Physics And Electronics
Teaching Plan

Timetable Duration : December 2024 to March 2025

Name of the Teacher : **Vishakha Patil**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
Bsc III	A	Communication Electronics - II	U-ELE-654	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 - Radio Receiver	12	05/12/2024 To 28/12/2024	IIT JAM classes	-
Unit II - RADAR System	10	02/01/2025 To 23/02/2025	-	Unit Test - I
Unit III - Introduction to Optical fibre	12	24/01/2025 To 20/02/2025	Carrier Guidance	-
Unit IV- Modern Communication Application	11	21/02/2025 To 22/03/2025	-	-

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Department of Physics And Electronics
Teaching Plan

Timetable Duration : December 2024 to March 2025

Name of the Teacher : **Vishakha Patil**

Details of Classes to be taught

Class	Division	Course Title	Course Code	Total Teaching Hrs
Msc II	A	Physics	Laser System and its application	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 - Industrial application of lasers	11	09/12/2024 To 01/01/2025	Carrier Guidance	-
Unit II - Lasers in chemistry and Medicine	12	06/01/2025 To 29/01/2025	-	CAT - I
Unit III - Holography and its application	11	03/02/2025 To 18/02/2025	ICT based teaching	-
Unit IV - Other application of Lasers	11	24/02/2025 To 26/03/2025	-	CAT - II

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