

**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Teaching Plan (Semester-IV)**  
**(May 2021 to June 2021)**

**1. Details of Classes to be taught**

Sr. No.	Class	Name of Assist. Prof.	Subject	Paper	Total Lecturers:
1	MSc. I Sem. II	Mr. S. S. Undalkar	Physics	P-CMP-218 Condensed Matter Physics	60 (4-credits)

**2. Summary of Lesson Plan**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Unit I: Crystal Physics	15	01/05/21 to 16/05/21	ICT based teaching	--
2	Unit II: Crystal Defects	15	17/05/21 to 02/06/21	ICT based teaching	Activity based Unit Test-I (Date will be communicated later)
3	Unit III: Semiconducting and Superconducting Properties	15	03/06/21 to 18/06/21	ICT based teaching	--
4	Unit IV: Magnetic Properties	15	19/06/21 to 30/06/21	ICT based teaching	Unit Test II (Date will be communicated later)

**Mr. S. S. Undalkar**

Date: 30.04.2021

**HOD**

Department of Physics & Electronics  
Rajarshi Shahu Mahavidyalaya, Latur  
(Autonomous)

**Principal**

**PRINCIPAL**

Rajarshi Shahu Mahavidyalaya  
(Autonomous), Latur

**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Teaching Plan (Semester-I)**  
**(March 2021 to May 2021)**

**1. Details of Classes to be taught**

Sr. No.	Class	Name of Assist. Prof.	Subject	Paper	Total Lecturers:
1	MSc. I Sem. I	Mr. S. S. Undalkar	Physics	P-CSM-120 Classical and Statistical Mechanics	60 (4-credits)

**2. Summary of Lesson Plan**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Unit I: Variational Principle and Hamiltonian Formulation	15	06/01/21 to 29/01/21	ICT based teaching	--
2	Unit II: Central Force Problem	15	30/01/21 to 26/02/21	ICT based teaching	Activity based Unit Test-I (Date will be communicated later)
3	Unit III: Statistical Ensembles Theory	15	27/02/21 to 26/03/21	ICT based teaching	--
4	Unit IV: Formulation of Quantum Statistics	15	27/03/21 to 19/04/21	ICT based teaching	Unit Test II (Date will be communicated later)

**Mr. S. S. Undalkar**

**Date: 30.02.2021**

  
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**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**

**Teaching Plan (Semester-III)**

**(July 2020 to November 2020)**

**1. Details of Classes to be taught**

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers
1	MSc. I Sem. III	Mr. S. S. Undalkar	Physics	P-LET-323 Laser Technology	60 (4-credits)

**2. Summary of Lesson Plan**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date
1	Unit I: Basics of Laser	15	14/07/20 09/08/20
2	Unit II: Properties of Laser and Optical Resonator	15	10/08/20 22/09/20
3	Unit III: Laser Cavity Modes	15	25/09/20 11/10/20
4	Unit IV: Types of Laser	15	12/09/20 25/10/20

**Mr. S. S. Undalkar**

**Date: 10.07.2019**

**HoD**

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**Teaching Plan (Semester-IV)**

**(February 2021 to May 2021)**

**1. Details of Classes to be taught**

Sr. No.	Class	Name of Assist. Prof.	Subject	Paper	Total Lecturers:
1	M. Sc. II	Mr. S. S. Undalkar	Physics	P-PDS-421 Photonic Devices and Sensors -III	60 (4-credits)

**2. Summary of Lesson Plan**

**3.**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date
1	Unit I: Light Beam as Sensing Tool	15	25/02/21 to 16/03/21
2	Unit II: Optical Fiber Sensor	15	17/03/21 to 30/03/21
3	Unit III: Liquid Crystal Display	15	01/04/21 to 20/04/21
4	Unit IV: Plasma Display Panels	15	23/04/21 to 13/05/21

**Mr. S. S. Undalkar**

**Date: 30.02.2021**

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**Teaching Plan (Semester-III)**

**(September 2020 to January 2021)**

**1. Details of Classes to be taught**

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	B.Sc II Sem. III	Mr. S. S. Undalkar	Electronics	U-ELE-347 Oscillators, Multivibrators and Sweep Circuits-V	45 (2-credits)

**2. Summary of Lesson Plan**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date
1	Unit I: L-C Oscillators	11	14/07/20 to 30/07/20
2	Unit II: R-C Oscillators	11	01/08/20 to 17/08/20
3	Unit III: Multivibrators	15	21/08/20 to 08/09/20
4	Unit IV: Sweep Circuits (Time Base or Ramp Generators)	08	11/09/20 to 25/09/20

**Mr. S. S. Undalkar**

**Date: 10.07.2020**

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**Teaching Plan (Semester-IV)**

**(February 2021 to May 2021)**

**1. Details of Classes to be taught**

Sr. No.	Class	Name of Assist. Prof.	Subject	Paper	Total Lecturers:
1	B.Sc. II	Mr. S. S. Undalkar	Electronics	U-ELE-447 Fundamentals of Digital Electronics-VII	45 (2-credits)

**2. Summary of Lesson Plan**

**3.**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date
1	Unit I: Binary Codes	09	22.02.2021 to 10.03.2021
2	Unit II: Logic Gates	15	12.03.2021 to 29.03.2021
3	Unit III: Boolean Algebra	10	30.03.2021 to 17.04.2021
4	Unit IV: Karnaugh Map	11	18.04.2021 to 08.05.2021

**Mr. S. S. Undalkar**

**Date: 30.02.2021**

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**Teaching Plan (Semester-IV)**

**(February 2021 to May 2021)**

**1. Details of Classes to be taught**

Sr. No.	Class	Name of Assist. Prof.	Subject	Paper	Total Lecturers:
1	B.Sc. II	Mr. S. S. Undalkar	Physics	U-PHY-436 Waves, Oscillations and Acoustics-VIII	45 (2-credits)


**2. Summary of Lesson Plan**


**3.**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date
1	Unit I: Free, Forced and Resonant Vibrations	09	22.02.2021 to 10.03.2021
2	Unit II: Wave Motion	14	12.03.2021 to 29.03.2021
3	Unit III: Stationary Waves	10	30.03.2021 to 17.04.2021
4	Unit IV: Acoustics And Ultrasonics	12	18.04.2021 to 08.05.2021

  
**Mr. S. S. Undalkar**

Date: 30.02.2021

  
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**Teaching Plan (Semester-V)**

**(July 2020 to November 2020)**

**1. Details of Classes to be taught**

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	BSc. III Sem. V	Mr. S. S. Undalkar	Physics	U-PHY-542 Solid State Physics- X	44 (2-credits)

**2. Summary of Lesson Plan**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Unit I: Crystal Structure	12	14/07/20 to 02/08/20	ICT based teaching	--
2	Unit II: Free Electron Theory of Metals	12	22/08/20 to 13/09/20	ICT based teaching	Activity based Unit Test-I (Date will be communicated later)
3	Unit III: Band Theory of Metals	10	16.09.2020 to 14.10.2020	ICT based teaching	--
4	Unit IV: Nanotechnology	10	8.07.2020 to 14.08.2020	ICT based teaching	Unit Test II (Date will be communicated later)

  
**Mr. S. S. Undalkar**

Date: 10.07.2020

  
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