

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Teaching Plan (Semester-III)

(July 2021 to November 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	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Unit I: L-C Oscillators	11	05/07/21 to 28/07/21	ICT teaching Zoom	--
2	Unit II: R-C Oscillators	11	02/08/21 to 25/08/21	ICT teaching Zoom	
3	Unit III: Multivibrators	15	30/08/21 to 29/09/21	ICT teaching Zoom	Unit Test-I Assignment (Date will be communicated later)
4	Unit IV: Sweep Circuits (Time Base or Ramp Generators)	08	04/10/21 to 20/10/21	ICT teaching Zoom	Unit Test-II Activity based (Date will be communicated later)

Mr. S. S. Undalkar
Date: 06.07.2021

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

Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya
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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Teaching Plan (Semester-V)
(July 2021 to November 2021)

1. Details of Classes to be taught


Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	B.Sc. III Sem. V	Mr. S. S. Undalkar	Physics	U-PHY-642 Solid State Physics- X	45 (2-credits)

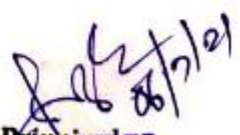
2. Summary of Lesson Plan

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	05/07/21 to 02/08/21	ICT teaching Zoom	--
2	Unit II: Free Electron Theory of Metals	10	03/08/21 to 25/08/21	ICT teaching Zoom	
3	Unit III: Band Theory of Metals	12	30/08/21 to 21/09/21	ICT teaching Zoom	Unit Test-I Assignment (Date will be communicated later)
4	Unit IV: Application of Band Theory	11	31/09/21 to 18/10/21	ICT teaching Zoom	Unit Test-II Activity based (Date will be communicated later)


Mr. S. S. Undalkar

Date:06.07.2021


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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
Teaching Plan (Semester-I)
(Sept 2021 to Dec 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 Mechanics	60 (4-credits)

2. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date
1	Unit I: Variational Principle and Hamiltonian Formulation	15	27/09/21 to 21/10/21
2	Unit II: Central Force Problem	15	25/10/21 to 18/11/21
3	Unit III: Canonical Transformations and Hamilton - Jacobi Theory	15	22/11/21 to 15/12/21
4	Unit IV: Small oscillations & Special theory of Relativity	15	16/12/21 to 31/12/21

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Department of Physics & Electronics
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Date: 30.09.2021

Mr. S. S. Undalkar

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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Teaching Plan (Semester-III)

(Aug 2021 to Oct 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	Physics	U-ADC-334-A Applied Optics (SEC)	30 (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: Lasers	08	08/08/21 to 10/09/21	ICT teaching Zoom	--
2	Unit II: Fiber Optics	07	18/09/21 to 30/10/21	ICT teaching Zoom	

Mr. S. S. Undalkar

Date:10.08.2021

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Teaching Plan (Semester-III)

(July 2021 to November 2021)

1. Details of Classes to be taught

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers
1	MSc. II 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	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Unit I: Basics of Laser	15	05/07/21 to 01/08/21	ICT teaching Zoom	--
2	Unit II: Properties of Laser and Optical Resonator	15	02/08/21 to 29/08/21	ICT teaching Zoom	
3	Unit III: Laser Cavity Modes	15	30/08/21 to 28/09/21	ICT teaching Zoom	Unit Test-I Assignment (Date will be communicated later)
4	Unit IV: Types of Laser	15	29/09/21 to 27/10/21	ICT teaching Zoom	Unit Test-II Activity based Test (Date will be communicated later)

Mr. S. S. Undalkar
Date: 06.07.2021

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Teaching Plan (Semester-V)

(July 2021 to November 2021)

1. Details of Classes to be taught

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	B.Sc. III Sem. V	Mr. S. S. Undalkar	Physics	U-PHY- 632 Solid State Physics- X	45 (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	05/07/21 to 02/08/21	ICT teaching Zoom	--
2	Unit II: Free Electron Theory of Metals	10	03/08/21 to 25/08/21	ICT teaching Zoom	
3	Unit III: Band Theory of Metals	12	30/08/21 to 21/09/21	ICT teaching Zoom	Unit Test-I Assignment (Date will be communicated later)
4	Unit IV: Application of Band Theory	11	31/09/21 to 18/10/21	ICT teaching Zoom	Unit Test-II Activity based (Date will be communicated later)


Mr. S. S. Undalkar

Date:06.07.2021


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Teaching Plan (Semester-IV)

(Dec 2021 to April 2022)

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

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: Free, Forced and Resonant Vibrations	09	17/12/21 to 06/01/22	--	--
2	Unit II: Wave Motion	14	07/01/22 to 05/02/22	--	--
3	Unit III: Stationary Waves	10	10/02/22 to 03/03/22	--	Unit Test-I (1 to 7 Feb 2022)
4	Unit IV: Acoustics And Ultrasonics	12	04/03/22 to 26/03/22	ICT Based Teaching	Unit Test-II (03 to 09 March, 2022)

Date: 22.12.2021 Mr. S. S. Undalkar

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Teaching Plan (Semester-IV)

(Dec 2021 to April 2022)


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

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: Binary Codes	09	20/12/21 to 05/01/22	--	--
2	Unit II: Logic Gates	13	10/01/22 to 07/02/22	--	--
3	Unit III: Boolean Algebra	10	08/02/22 to 01/03/22	--	Unit Test-I (1 to 7 Feb 2022)
4	Unit IV: Karnaugh Map	13	02/03/22 to 28/03/22	ICT Based Teaching	Unit Test-II (03 to 09 March, 2022)

Date: 22.12.2021 Mr. S. S. Undalkar


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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
Teaching Plan (Semester I)
(Feb 2022 to May 2022)

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-121 Condensed Matter Physics	60 (4-credits)

2. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date
1	Unit I: Crystal Physics	15	07.02.2022 to 03.03.2022
2	Unit II: Crystal Defects	15	07.03.2022 to 30.03.2022
3	Unit III: Semiconducting and Superconducting Properties	15	31.03.2022 to 26.04.2022
4	Unit IV: Magnetic Properties	15	27.04.2022 to 10.05.2022


Mr. S. S. Undalkar

Date: 08.02.2022


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Teaching Plan (Semester-IV)

(Dec 2021 to April 2022)

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

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: Light Beam as Sensing Tool	15	16/12/21 to 12/01/22	--	
2	Unit II: Optical Fiber Sensor	15	13/01/22 to 05/02/22	--	--
3	Unit III: Liquid Crystal Display	15	09/02/22 to 04/03/22	--	Unit Test-I (1 to 7 Feb, 2022)
4	Unit IV: Plasma Display Panels	15	05/03/22 to 31/03/22	ICT Based Teaching	Unit Test-II (03 to 09 March, 2022)

Date: 22.12.2021 Mr. S. S. Undalkar

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