

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Teaching Plan (Semester-V)

(Aug 2022 to Oct 2022)

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	03/08/22 to 28/09/22	Introduction of LASER Laboratory	--
2	Unit II: Fiber Optics	07	29/09/22 to 15/10/22	--	

Mr. S. S. Undalkar

Date:14.07.2022

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Teaching Plan (Semester-V)

(June 2022 to November 2022)

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-542 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	23/06/22 to 16/07/22	IIT-JAM Questions Solving	--
2	Unit II: Free Electron Theory of Metals	10	21/07/22 to 11/08/22	IIT-JAM Questions Solving	--
3	Unit III: Band Theory of Metals	12	12/08/22 to 08/09/22	--	Unit Test-I Assignment (01.08.2022 to 07.08.2022)
4	Unit IV: Application of Band Theory	11	09/09/22 to 01/10/22	--	Unit Test-II Activity based (16.08.2022 to 27.08.2022)

Mr. S. S. Undalkar

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Teaching Plan (Semester-I)

(July 2022 to Nov 2022)

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	Academic activities to be organized	No. of Test / Assignment with topic and date
1	Unit I: Variational Principle and Hamiltonian Formulation	15	25/07/22 to 17/08/22	--	--
2	Unit II: Central Force Problem	15	18/08/22 to 14/09/22	--	Unit Test-I Assignment (01.08.2022 to 07.08.2022)
3	Unit III: Canonical Transformations and Hamilton - Jacobi Theory	15	15/09/22 to 10/10/22	--	Unit Test-II Activity based (16.08.2022 to 27.08.2022)
4	Unit IV: Small oscillations & Special theory of Relativity	15	11/10/22 to 21/11/22	ICT Based Teaching	--

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Teaching Plan (Semester-III)


(June 2022 to November 2022)


1. Details of Classes to be taught


Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers
1	M. Sc. (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	24/06/22 to 16/07/22	Introduction of LASER Laboratory	--
2	Unit II: Properties of Laser and Optical Resonator	15	16/07/22 to 12/08/22	--	
3	Unit III: Laser Cavity Modes	15	13/08/22 to 09/09/22	--	Unit Test-I Assignment (01.08.2022 to 07.08.2022)
4	Unit IV: Types of Laser	15	10/09/22 to 07/10/22	--	Unit Test-II Activity based (16.08.2022 to 27.08.2022)


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Teaching Plan (Semester-IV)

(Dec 2022 to March 2023)

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	09/12/22 to 01/01/23	--	
2	Unit II: Optical Fiber Sensor	15	05/01/23 to 29/01/23	--	Unit Test I: Activity Based Test
3	Unit III: Liquid Crystal Display	15	02/02/23 to 26/02/23	ICT Based Teaching (PPT), RAMAN Test	--
4	Unit IV: Plasma Display Panels	15	02/03/23 to 26/03/23	--	Unit Test II (MCQ)

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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
Teaching Plan (Semester-II)

(Jan 2023 to March 2023)

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	16/01/23 to 01/02/23	--	--
2	Unit II: Crystal Defects	15	07/02/23 to 20/02/23	--	Unit Test I: Activity Based Test
3	Unit III: Semiconducting and Superconducting Properties	15	21/02/23 to 10/03/23	--	--
4	Unit IV: Magnetic Properties	15	11/03/23 to 31/03/23	--	Unit Test II (MCQ)

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Teaching Plan (Semester-V)

(Dec 2022 to March 2023)

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	Renewable Energy Harvesting Skill-III (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: Energy	10	14/12/22 to 29/01/23	--	Unit Test I: Activity Based Test
2	Unit II: Solar Energy	10	30/01/23 to 23/02/23	--	--
3.	Unit III: Energy Storage	10	24/02/23 to 29/03/23		Unit Test II (MCQ)

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Teaching Plan (Semester-IV)

(Dec 2022 to March 2023)

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	12/12/22 to 28/12/22	--	--
2	Unit II: Wave Motion	14	03/01/23 to 07/02/23	--	Unit Test I: Activity Based Test
3	Unit III: Stationary Waves	10	08/02/23 to 07/03/23	RAMAN Test	--
4	Unit IV: Acoustics And Ultrasonics	12	08/03/23 to 29/03/23	--	Unit Test II (MCQ)

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Teaching Plan (Semester-IV)

(Dec 2022 to March 2023)

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	11	09/12/22 to 30/12/22	--	--
2	Unit II: Logic Gates	13	31/12/22 to 27/01/23	--	Unit Test I: Activity Based Test
3	Unit III: Boolean Algebra	10	28/01/23 to 26/02/23	RAMAN Test	--
4	Unit IV: Karnaugh Map	11	03/03/23 to 25/03/23	--	Unit Test II (MCQ)

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