

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Teaching Plan (Semester-I)

(July 2023 to Nov. 2023)

1. Details of Classes to be taught


Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	B.Sc. I Sem. I	Dr. D. V. Raje	Physics	101-PHY-1101 DSC-I : Mechanics and Properties of Matter	45 Hrs. (3-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: Gravitation	11	08/07/23 to 21/08/23	Problems Solving	--
2	Unit II: Elasticity	12	22/08/23 to 13/09/23	Practical based Activity	Unit Test-I Activity
3	Unit III: Surface Tension	11	18/09/23 to 4/10/23	Problems Solving	Unit Test-II
4	Unit IV: Viscosity	11	09/10/23 to 4/11/23	Problems Solving	


Dr. D. V. Raje

Date: 07/07 / 2023


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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Teaching Plan (Semester-I)

(Aug. 2023 to Nov. 2023)

1. Details of Classes to be taught

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	B.Sc. I Sem. I	Dr. D. V. Raje	Physics	101-PHY-1601 SEC-I: Physics Workshop Skills	30 Hrs. (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: Measuring Units and Mechanical Skill	07	04/08/23 to 31/08/23	Familiar to Scale, Unit conversions, LC of Vernier Calipers and Screw gauge	--
2	Unit II: Use of Multimeter	08	07/09/23 to 23/09/23	Practical based Activity	Assignment
3	Unit III: Experiments	15	29/09/23 to 04/11/23	Practical	Unit Test

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Date: 04/08/2023

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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
Teaching Plan (Semester-III)
(June 2023 to Oct. 2023)

1. Details of Classes to be taught

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	B.Sc. II Sem. III	Dr. D. V. Raje	Physics	U-PHY-336 Mathematical Physics and transducers	45 Hrs. (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: Vector Analysis	12	27/06/23 to 31/07/23	Problems Solving	--
2	Unit II: Complex Variables	10	01/08/23 to 02/09/23	Problems Solving	Unit Test-I Assignment
3	Unit III: Fourier Series and Laplace transform	13	04/09/23 to 30/9/23	--	Unit Test-II (MCQs)
4	Unit IV: Transducers	10	03/10/23 to 14/10/23	--	



Dr. D. V. Raje
Date: 01/07/2023



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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
Teaching Plan (Semester-III)
(July 2023 to Oct. 2023)

1. Details of Classes to be taught

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	M.Sc. II Sem. III	Dr. D. V. Raje	Physics	P-NPP-322 Nuclear and Particle Physics	60 Hrs. (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: The constitution of the Nucleus and Nuclear reactions	15	01/07/23 to 31/07/23	Examples Solving	--
2	Unit II: Nuclear Models	15	01/08/23 to 02/09/23	PPT	Unit Test-I Assignment
3	Unit III: Detection of nuclear radiations and charged Particle accelerators	15	05/09/23 to 30/9/23	--	Unit Test-II (MCQs)
4	Unit IV: Elementary Particles	15	01/10/23 to 14/10/23	--	


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Teaching Plan (Semester-I)

(Aug. 2023 to Sept. 2023)

1. Details of Classes to be taught

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	M.Sc. I Sem. I	Dr. D. V. Raje	Physics	<u>Bridge Course in Mathematics</u>	15 Hrs.

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: Quadratic Equation and its Solution	02	28/08/23 to 29/08/23		--
2	Unit II: Binomial theorem	02	04/09/23 to 05/09/23		
3	Unit III: Logarithms	02	06/09/23 to 09/09/23		
4	Unit IV: Trigonometry	03	11/09/23 to 13/09/23		
5	Unit V: Differentiation	03	16/09/23 to 23/09/23		
6	Unit VI: Integration	03	25/09/23 To 27/09/23	Problem Solving Activity	

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Date: 26/08 / 2023

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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
Teaching Plan (B.Sc. II Semester-IV)
(Dec. 2023 to March 2024)

1. Details of Classes to be taught

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	B.Sc. II Sem. IV	Dr. D. V. Raje	Physics	Nuclear Physics and Relativity-VII (UPHY-435)	45 Hrs. (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: The Nucleus	10	06/12/2023 to 27/12/2023	Motivational Guidance	--
2	Unit II: Peaceful use of Nuclear Energy	12	01/01/2024 to 31/01/2024	Examples to solve	U.T.-I, As per College Schedule (19 to 25 Jan 2024)
3	Unit III: Radioactivity	12	05/02/2024 to 04/03/2024	ICT based teaching	---
4	Unit IV: Special Theory of Relativity	11	05/03/2024 to 27/03/2024	Examples to solve	U.T-II, As per College Schedule


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Teaching Plan (B.Sc. III Semester-VI)


(Dec. 2023 to March 2024)


1. Details of Classes to be taught

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	B.Sc. III Sem. VI	Dr. D.V.Raje	Physics	Atomic, Molecular Physics and Statistical Physics- XI (U-PHY-641)	45 Hrs. (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: Atomic Spectra:	12	07/12/2023 to 30/12/2023	Examples of Spectra formation	---
2	Unit II: Molecular Spectroscopy	11	04/01/2024 to 10/02/2024	ICT based teaching	U.T.-I, As per College Schedule (19 to 25 Jan 2024)
3	Unit III: Maxwell-Boltzmann Statistics:	12	15/02/2024 to 07/03/2024	Examples to solve	---
4	Unit IV: Quantum statistics:	10	09/03/2024 to 29/03/2024	Career Guidance	U.T.-II, As per College Schedule


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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
Teaching Plan (M.Sc. I Semester-II)
(Dec. 2023 to March 2024)

1. Details of Classes to be taught


Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	M. Sc. I Sem. II	Dr. D. V. Raje	Physics	Atomic and Molecular Spectroscopy-VI	45 hrs. (3-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: Atomic Spectroscopy	12	11/12/2023 to 03/01/2024	Guidance on College facilities	---
2	Unit II: Rotational and Vibrational Spectroscopy	11	08/01/2024 to 06/02/2024	-----	U.T.-I, As per College Schedule (19 to 25 Jan 2024)
3	Unit III: Raman and Electronic Spectroscopy	11	07/02/2024 to 05/03/2024	Examples to solve	---
4	Unit IV: Resonance Spectroscopy	11	06/03/2024 to 29/03/2024	PPT	U.T.-II, As per College Schedule


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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Teaching Plan (UG- I, Semester-II)


(Dec. 2023 to March 2024)

1. Details of Classes to be taught

Sr. No.	Class	Name of Assist. Professor	Subject	Paper	Total Lecturers:
1	U.G. I (SEC) Sem. II	Dr. D. V. Raje	Physics	Physics Workshop Skills	30 Hrs. (2-credits: Theory-1 + Practical 1)

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: Measuring Units	07	14/12/2023 to 04/01/2024	Guidance facilities for SEC	---
2	Unit II: Use of Multimeters	08	18/01/2024 to 08/02/2024	-----	U.T.-I, As per College Schedule (19 to 25 Jan 2024)
3	Unit III: Practical	15	15/02/2024 to 28/03/2024	Examples to solve	U.T.-II, As per College Schedule


Dr. D. V. Raje

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