

**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Teaching Plan FIRST TERM 21-22**  
**(July 21 to Nov 21)**


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

Sr. No.	Class	Name of Assist. Prof.	Subject	Paper	Total Lecturers:
1	B.Sc.II (Sem-III)	Dr.D.V.Raje	Physics	U-PHY-336 Mathematical Physics and Transducers	45 (2-credits)

**2. Summary of Lesson Plan**

Sr. No.	Unit and Chapter to be covered	Expected No. Of Lectures	Date(Duration)		Academic activities To be organized	No. of Test /Assignment with topic and date
			From	To		
1	Unit I: Vector Analysis	12	5/7/21	10/8/21	ICT Based Teaching	--
2	Unit II: Complex Variables	10	11/8/21	6/9/21	ICT Based Teaching	---
3	Unit III : Fourier Series and Laplace Transform	13	7/9/21	5/10/21	ICT Based Teaching	Unit Test-I (7/09/21)
4	Unit IV: Transducers	10	6/10/21	3/11/21	ICT Based Teaching	Unit Test II (17.10.2021)

  
**Teacher**  
**Dr.D.V.Raje**  
 Date: 10.07.2021

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

  
**Principal**  
**VICE PRINCIPAL**  
 Rajarshi Shahu Mahavidyalaya,  
 (Autonomous)

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**Teaching Plan FIRST TERM 21-22**  
**(July21toNov21)**

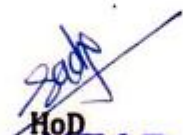
**1. DetailsofClasses tobetaught**


Sr. No.	Class	Nameof Assist. Prof.	Subject	Paper	TotalLecturers:
1	B.Sc.III (Sem-V)	Dr.D.V.Raje	Physics	U-PHY-541 QuantumMechanics	45 (2-credits)

**2. SummaryofLessonPlan**

Sr. No.	Unit and Chapter to be covered	Expected No. Of Lectures	Date (Duration)		Academic activities to be organized	No. of Test /Assignmen twithtopic anddate
			From	To		
1	Unit I: OriginOfQuantum Mechanics	12	8/7/21	31/7/21	ICT BasedTea ching	--
2	UnitII: Schrödinger'sWave EquationandOperators	10	5/8/21	28/8/21	ICT BasedTea ching	---
3	Unit III :Applicationso f Schrödinger'sSteady stateEquation	11	2/9/21	25/9/21	ICT BasedTea ching	UnitTest-I (11/9/21)
4	UnitIV: QuantumTheoryOf Hydrogenatom	12	30/9/21	3/11/21	ICT BasedTea ching	Unit Test II (29.10.2021)

  
**Teacher**  
**Dr.D.V.Raje**  
**Date:10.07.2021**

  
**HEAD**  
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**Teaching Plan FIRST TERM 21-22**  
**(July21 to Nov21)**

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


Sr. No.	Class	Name of Assist. Prof.	Subject	Paper	Total Lecturers:
1	M.Sc.II (Sem-III)	Dr.D.V.Raje	Physics	P-NPP-322 Nuclear and Particle Physics	60 (4-credits)

**2.Summary of Lesson Plan:**

Sr. No.	Unit and Chapter to be covered	Expected No. Of Lectures	Date(Duration)		Academic activities to be organized	No. of Test /Assignment with topic and date
			From	To		
1	Unit I: Nuclear Reactions and Detectors	16	5/7/21	5/8/21	ICT Based Teaching	
2	Unit II Nuclear Models	14	9/8/21	7/9/21	ICT Based Teaching and Group discussion through Seminar	--
3	UnitIII: Charged Particle Accelerators	14	8/9/21	30/9/21	ICT Based Teaching	UnitTest-I (25.09.2021)
4	Unit IV :ParticlePhysics	16	4/10/21	3/11/21	ICT Based Teaching	UnitTest II (17.10.2021)

  
**Teacher**  
**Dr.D.V.Raje**  
 Date:10.07.2021

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

  
**Principal**  
**Rajarshi Shahu Mahavidyalaya,**  
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**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Teaching Plan FIRST TERM**  
**(Sept 2021 to Oct. 2021)**

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

Sr. No.	Class	Name of Assist. Prof.	Subject	Paper	Total Lecturers:
1	M.Sc.I (Sem-I)	Dr.D.V.Raje	Physics	Bridge Course in Mathematics	12

**4. Summary of Lesson Plan**

Unit and Chapter to be covered for	Expected No. of Lectures	Date (Duration)		Academic activities to be organized	No. of Test / Assignment with topic and date
		From	To		
Bridge Course in Mathematics	12	27/9/21	16/10/21	ICT Based Teaching	Unit Test II (31/12/2021)

  
**Teacher**  
**Dr.D.V.Raje**  
**Date: 27. 09. 2021**

  
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**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Teaching Plan FIRST TERM**  
**(Sept 2021 to Dec. 2021)**

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

Sr. No.	Class	Name of Assist. Prof.	Subject	Paper	Total Lecturers:
1	M.Sc.I (Sem-I)	Dr.D.V.Raje	Physics	P-MPP-119 Mathematical Methods in Physics	60 (4-credits)

**2. Summary of Lesson Plan**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date (Duration)		Academic activities to be organized	No. of Test / Assignment with topic and date
			From	To		
1	Unit I : Matrix Algebra and Eigen Value Problems	15	20/10/21	10/11/21	ICT Based Teaching	--
2	Unit II : Differential Equations	15	11/11/21	3/12/21	ICT Based Teaching and Group discussion through Seminar	--
3	Unit III : Calculus Of Residues	15	6/12/21	22/12/21	ICT Based Teaching	Activity based Unit Test-I (16.12.2021)
4	Unit III :Fourier Series	15	23/12/21	30/12/21	ICT Based Teaching	Unit Test II (31/12/20 21)

  
**Teacher**  
**Dr.D.V.Raje**  
 Date: 17. 10. 2021

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

**Teaching Plan SECOND TERM 21-22**

**(Feb. 2022 to May 2022)**

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

Sr. No.	Class	Name of Assist. Prof.	Subject	Paper	Total Lecturers:
1	M.Sc. I (Sem-II)	Dr. D.V.Raje	Physics	P-AMP-219 Atomic and Molecular Spectroscopy	60 (4-credits)

**2. Summary of Lesson Plan**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date (Duration)		Academic activities to be organized	No. of Test / Assignment with topic and date
			From	To		
1	Unit I: Atomic Spectroscopy	15	8/2/22	5/3/22		--
2	Unit II: Rotational and Vibrational Spectroscopy	15	8/3/22	30/3/22	ICT Based Teaching	Activity based Unit Test I (16/3/22)
3	Unit III: Raman and Electronic Spectroscopy	15	1/4/22	22/4/22	ICT Based Teaching	--
4	Unit IV: Resonance spectroscopy	15	23/4/22	10/5/22	---	Unit Test II (MCQ) (25.4.2022)

  
**Teacher**

**Dr.D.V.Raje**

Date:08.02.2022

  
**HEAD**

**HEAD**

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

  
**Principal**  
PRINCIPAL  
Rajarshi Shahu Mahavidyalaya  
LATUR.

**Rajarshi Shahu Mahavidyalaya (Autonomous), Latur**  
**Teaching Plan SECOND TERM 20-21**  
**(Feb 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. III (Sem-VI)	Dr.D.V.Raje	Physics	U-PHY-641 Atomic, Molecular and Statistical Physics	45 (2-credits)

**2. Summary of Lesson Plan**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date (Duration)		Academic activities to be organized	No. of Test / Assignment with topic and date
			From	To		
1	Unit I: Atomic Spectra	12	17/12/21	15/1/22		--
2	Unit II: Molecular Spectroscopy	11	20/1/22	12/2/22	ICT Based Teaching	---
3	Unit III : Maxwell-Boltzmann Statistics	12	17/2/22	12/3/22		Unit Test-I (11/3/22)
4	Unit III : Quantum Statistics	10	17/3/22	16/4/21		Unit Test II (7.4. 2022)

  
**Teacher**  
**Dr.D.V.Raje**  
 Date:20.12.2021

  
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**Teaching Plan SECOND TERM 21-22**  
**(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 (Sem-IV)	Dr.D.V.Raje	Physics	U-PHY-435 Nuclear Physics and Relativity	45 (2-credits)

**2. Summary of Lesson Plan**

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date (Duration)		Academic activities to be organized	No. of Test / Assignment with topic and date
			From	To		
1	Unit I : The Nucleus	10	20/12/21	11/1/22		--
2	Unit II : Peaceful use Of Nuclear Energy	12	12/1/22	14/2/22		---
3	Unit III : Radioactivity	12	15/2/22	15/3/22	ICT Based Teaching	Unit Test-I (28/2/22)
4	Unit IV : Special Theory Of Relativity	11	16/3/22	13/4/22		Unit Test II (11.4.2022)

  
**Teacher**  
**Dr.D.V.Raje**  
 Date:20.12.2021

  
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