# RajarshRajarshi Shahu Mahavidyalaya, Latur
## (Autonomous)
### Structured Work Plan for Teaching
### (December-2023 to March-2024)

| Sr. No. | Class | Name of the Teacher | Subject | Paper |
|---|---|---|---|---|
| 1 | B.Sc. II Year | Dr. Nishank S Pimple | Mathematics | Ordinary Differential Equations |

| Sr. No. | Unit | Unit to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test/ Assignment with topic and date |
|---|---|---|---|---|---|---|
| 1 | UNIT – I | Definitions and formation of differential equations | 07 Dec 2023 to 30 Dec 2023 | 12 | NPTEL Registration | Assignment on unit I |
| 2 | UNIT – II | Linear differential equations with constant coefficients | 04 Jan 2024 to 15 Feb 2024 | 16 | Poster Presentation | Assignment on unit II |
| 3 | UNIT – III | Linear differential equations with variable coefficients | 16 Feb 2024 to 29 Mar 2024 | 17 | Quiz Competition | Assignment on unit III |

Teacher

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Department of Mathematics,
Rajarshi Shahu Mahavidyalaya
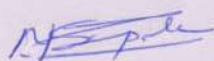(Autonomous) Latur-41354

Principal
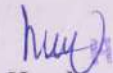PRINCIPAL
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# Rajarshi Shahu Mahavidyalaya, Latur
## (Autonomous)
### Structured Work Plan for Teaching
### (December-2023 to March-2024)

| 2 | B.Sc. I Year | Dr. Nishank S Pimple | Mathematics | Fundamentals of Mathematics |
|---|---|---|---|---|

| Sr. No. | Unit | Unit to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test/ Assignment with topic and date |
|---|---|---|---|---|---|---|
| 1 | UNIT – I | Coordinates Systems and Graphs of Equations | 11 Dec 2023 to 09 Jan 2024 | 18 | ST-1 | CAT-I |
| 2 | UNIT – II | Intersection of Graphs, Symmetry and Functions | 10 Jan 2024 to 13 Feb 2024 | 16 | Poster Presentation | |
| 3 | UNIT – III | Limit and Continuity | 14 Feb 2024 To 05 Mar 2024 | 12 | DSP | CAT-II |
| 4 | UNIT- IV | Derivatives and Applications | 13 Mar 2024 to 29 March 2024 | 14 (Need 6 Extra Lectures ) | DSP | |

Teacher

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Department of Mathematics,
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## (Autonomous)
### Structured Work Plan for Teaching
### (December-2023 to March-2024)

| 2 | B.Sc. I Year | · | Dr. Nishank S Pimple | Mathematics | VSC-II- Programming with Mathematics Software's |
|---|---|---|---|---|---|

| Sr. No. | Unit | Unit to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test/ Assignment with topic and date |
|---|---|---|---|---|---|---|
| 1 | UNIT – I | Programming in MATLAB | 13 Dec 2023 to 03 Jan 2024 | 08 | NPTEL | ST-1 |
| 2 | UNIT – II | User Defined Functions and Functions Files | 10 Jan 2024 to 07 Feb 2024 | 07 | Seminar | |
| 3 | UNIT-III | Two Dimensional and Three-Dimensional Plots | 14 Feb 2024 to 28 Feb 2024 | 07 | Quiz Competition | ST-2 |
| 4 | UNIT-IV | Calculus using Software | 13 Mar 2024 to 29 Mar 2024 | 08 | Pi day | |

**Course Teacher**

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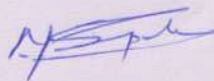Rajarshi Shahu Mahavidyalaya,
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PRINCIPAL
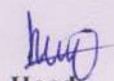Rajarshi Shahu Mahavidyalaya, Latur
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### Structured Work Plan for Teaching
### (December-2023 to March-2024)

| 4 | B.Sc. II Year | Dr. Nishank S Pimple | Mathematics | Ordinary Differential Equations (Practical) |
|---|---|---|---|---|

| Sr. No. | Unit | Practical to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test/ Assignment with topic and date |
|---|---|---|---|---|---|---|
| 1 | UNIT – I | Practical's -1 to Practical-10 | 11 Dec 2023 To 16 Jan 2024 | 15 | Problem Solving | Homework problems |
| 2 | UNIT – II | Practical's -11 to Practical-20 | 27 Jan 2024 to 27 Feb 2024 | 15 | Problem Solving | Homework problems |
| 3 | UNIT – III | Practical's -21 to Practical-30 | 28 Feb 2024 to 29 Mar 2024 | 15 | Problem Solving | Homework problems |

**Course Teacher**

**Head**
Head,
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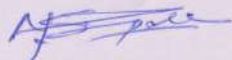Rajarshi Shahu Mahavidyalaya,
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PRINCIPAL
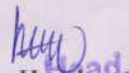Rajarshi Shahu Mahavidyalaya, Latur
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### Structured Work Plan for Teaching
### (December-2023 to March-2024)

| 3 | M.Sc. II year | Dr. Nishank S Pimple | Mathematics | Linear Integral Equations |
|---|---|---|---|---|

| Sr. No. | Unit | Unit to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test/ Assignment with topic and date |
|---|---|---|---|---|---|---|
| 1 | UNIT – I | Classification of Integral equations | 06 Dec 2023 to 06 Jan 2024 | 20 | Surprise Test | Assignment on unit I |
| 2 | UNIT – II | Method of Successive approximation | 10 Jan 2024 to 14 Feb 2024 | 15 | Quiz | Unit Test-I |
| 3 | UNIT – III | Integral equations with symmetric kernel | 15 Feb 2024 to 13 Mar 2024 | 15 | Solving Exercise problems | Assignment on unit III |
| 4 | UNIT – IV | Integral transform method | 14 Mar 2024 to 29 Mar 2024 | 10 | Seminar | Unit Test-II |

**Course Teacher**

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**Structured Work Plan for Teaching**
**(June-2023 to Dec-2023)**

| Sr. No. | Class | Name of the Teacher | Subject | Paper |
|---|---|---|---|---|
| 1 | B.Sc. I | Dr. Nishank Sudhakar Pimple | Mathematics | DSC-II- Differential Calculus |

| Sr. No. | Unit | Unit to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test/ Assignment with topic and date |
|---|---|---|---|---|---|---|
| 1 | UNIT – I | Hyperbolic functions and successive differentiation | 707/06/2023 To 31/07/2023 | 12 | | CAT-I |
| 2 | UNIT – II | Mean value theorems | 01/08/2023 To 30/08/2023 | 10 | Homework Problem | |

Teacher
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Ik Head

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| Sr. No. | Class | Name of the Teacher | Subject | Paper |
|---|---|---|---|---|
| 1 | B.Sc. I | Dr. Nishank Sudhakar Pimple | Mathematics | Lab Course—II (Based on DSC-II) |

| Sr. No. | Unit | Unit to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test/ Assignment with topic and date |
|---|---|---|---|---|---|---|
| 1 | UNIT – I | Practical's- 1-3 | 707/06/2023 To 31/07/2023 | 06 | Exercise problems | Test-I |
| 2 | UNIT – II | Practical's- 4-7 | 01/08/2023 To 30/08/2023 | 06 | Homework Problem | |

Teacher
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Structured Work Plan for Teaching
(June-2023 to Dec-2023)

| Sr. No. | Class | Name of the Teacher | Subject | Paper |
|---------|-------|---------------------|---------|-------|
| 1 | B.Com. I | Dr. Nishank Sudhakar Pimple | Mathematics | **GE-I Fundamentals of Mathematics** |

| Sr. No. | Unit | Unit to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test/ Assignment with topic and date |
|---------|------|--------------------|------|-----------------|-------------------------------------|----------------------------------------------|
| 1 | **UNIT – I** | Coordinate systems on a line and in a plane | 26/06/2023 To 24/07/2023 | 15 | | CAT- I |
| 2 | **UNIT – II** | Graphs of equations | 25/07/2023 To 14/08/2023 | 15 | Homework Problem | |
| 3 | **UNIT- III** | Limit and continuity | 16/08/2023 To 14/09/2023 | 15 | | CAT- II |
| 4 | **UNIT- IV** | The Derivatives | 18/09/2023 To 30/10/2023 | 15 | | |

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Head,
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| Sr. No. | Class | Name of the Teacher | Subject | Paper |
|---|---|---|---|---|
| 1 | B.Sc. III | Dr. Nishank Sudhakar Pimple | Mathematics | Metric Space (U-MAT-555) |

| Sr. No. | Unit | Unit to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test/ Assignment with topic and date |
|---|---|---|---|---|---|---|
| 1 | UNIT – I | Metric Space | 26/06/2023 To 31/07/2023 | 15 | Ramanujan Maths Competition | Assignment-I |
| 2 | UNIT – II | Cauchy sequence and complete metric space | 01/08/2023 To 07/09/2023 | 15 | Homework Problem | |
| 3 | UNIT- III | Weierstrass theorem and sequentially compactness | 08/09/2023 To 28/10/2023 | 15 | MMS seminar competition | Assignment-II |

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## Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
## Structured Work Plan for Teaching
### (June-2023 to Dec-2023)

| Sr. No. | Class | Name of the Teacher | Subject | Paper |
|---|---|---|---|---|
| 1 | B.Sc. III | Dr. Nishank Sudhakar Pimple | Mathematics | Lab Course-VII Problems in Metric Space (U-MAT-557) |

| Sr. No. | Unit | Unit to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test/ Assignment with topic and date |
|---|---|---|---|---|---|---|
| 1 | UNIT-I | Practical's 1-10 | 26/06/2023 To 31/07/2023 | 08 | Exercise questions solved | Test-I |
| 2 | UNIT-II | Practical's 11-20 | 10/08/2023 To 24/09/2023 | 12 | Homework Problem | |
| 3 | UNIT-III | Practical's 21-30 | 25/09/2023 To 30/10/2023 | 10 | MMS seminar competition | |

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## Rajarshi Shahu Mahavidyalaya (Autonomous), Latur
## Structured Work Plan for Teaching
### (June-2023 to Dec-2023)

| Sr. No. | Class | Name of the Teacher | Subject | Paper |
|---|---|---|---|---|
| 1 | M.Sc. II | Dr. Nishank Sudhakar Pimple | Mathematics | **Functional Analysis (P-FUA-366)** |

| Sr. No. | Unit | Unit to be covered | Date | No. of Lectures | Academic activities to be organized | No. of Test/ Assignment with topic and date |
|---|---|---|---|---|---|---|
| 1 | UNIT – I | Definitions and some examples of Banach Space | 26/06/2023 To 04/08/2023 | 20 | Ramanujan Maths Competition | Assignment-I |
| 2 | UNIT – II | The open mapping theorem | 05/08/2023 To 30/08/2023 | 18 | Homework Problem | |
| 3 | UNIT- III | The conjugate space H* | 01/09/2023 To 24/09/2023 | 12 | MMS seminar competition | Assignment-II |
| 4 | UNIT-IV | Finite dimensional spectral theory | 25/09/2023 To 30/10/2023 | 10 | | |
| 5 | **B.Sc. III and M.Sc. II** | **Seminar and Projects** | **July 2023 To Oct 2023** | 40 | **2 students per week for seminar and 6 students for project** | **2-project presentation for each group** |

Teacher
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