Shiv Chhatrapati Shikshan Sanstha's

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Department of Computer Science

Teaching Plan (Semester-I, III, V)
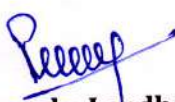
AY 2025-26

1. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
3	B. Sc. TY	Dr Renuka Londhe	Computer Science	Digital Image Processing	45 (Credits 3)

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	Introduction to Image Processing and M Function Programming	10	23.06.2025 To 15.07.2025	Seminar	
2	Intensity Transformations and Filtering	12	26.07.2025 To 12.08.2025	Surprise Test	Activity Based CAT I
3	Image Restoration and Color Image Processing	13	13.08.2025 To 18.09.2025	Group Discussion	
4	Morphological Image Processing and Image Segmentation	10	19.09.2025 To 11.10.2025		CAT II

Date: 15.07.2025

Dr Renuka Londhe
Name and Signature of Teacher

HoD
Head
Dept. of Computer Science
Rajarshi Shahu Mahavidyalaya, Latur

Principal
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Department of Computer Science

Teaching Plan (Semester-I, III, V)

AY 2025-2026

1. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Subject	Paper	Total Lecturers:
1	M. Sc. FY	Dr Renuka Londhe	Computer Science	Design and Analysis of Algorithms	45 (Credits 3)

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	Introduction & Overview of Data Structure	12	17.07.2025 To 06.08.2025	Quiz	
2	Divide and Conquer Algorithms, Greedy Algorithms	13	07.08.2025 To 28.08.2025 (2 Lect extra)	MCQ Test	Activity based CAT I
3	Dynamic Programming, Back Tracking and Branch &Bound Algorithms	10	29.08.2025 To 20.09.2025	Seminar	
4	Lower bound Theory	10	25.09.2025 To 16.10.2025 (extra lect 1)	Problem solving on all units	CAT II

Date: 15.07.2025

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of Teacher**

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Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Department of Computer Science

Teaching Plan (Semester-II, IV V)

AY 2025-2026 (December 2025 to March 2026)

Name of the Teacher: Dr Renuka **R Londhe**

1. Details of Classes to be taught

Sr. No.	Class	Course Title	Course Type	Course Code	Course Credits	Total Lecturers:
1	M. Sc. SY	Big Data Analysis	DSC	602COS4103	3	45

2. Summary of Lesson Plan

Sr. No.	Unit and Chapter to be covered	Expected No. of Lectures	Date	Academic activities to be organized	Number of tests/assignments with the topic and date
1	Introduction to Big Data Analytics and Analytics Life Cycle	15	04.12.2025 to 08.01.2026	Case study on a social media company analyzing user engagement	
2	Basic Analytic Methods using R	12	09.01.2026 To 12.02.2026	Use the **R programming language** to perform basic data exploration and preparation.	CAT I
3	Clustering and Decision Trees	10	13.02.2026 to 28.02.2026	Apply both an **unsupervised** and a **supervised** technique to the data.	CAT II
4	Association Rules and Regression	8	12.03.2026 To 28.03.2026	Building a **Multiple Linear Regression** model	CAT III

Date: 18.11.2025

Dr Renuka Londhe
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Name of the Teacher: Dr Renuka R Londhe

1. Details of Classes to be taught

Sr. No.	Class	Course Title	Course Type	Course Code	Course Credits	Total Lecturers:
1	B. Sc. TY	Pattern Recognitions	DSE	301COS6201	3	45

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	Introduction to Pattern Recognition	12	01.12.2025 to 24.12.2025	Report writing on Comparing SPR and SSPR	
2	Statistical Pattern Recognition	9	29.12.2025 To 19.01.2026	A coding assignment focused on building and evaluating a core SPR classifier.	CAT I
3	Structural and Syntactic Pattern Recognition	12	20.01.2026 to 16.02.2026	Seminar Series: Current Trends in ML for PR	CAT II
4	Machine Learning for Pattern Recognition	12	17.02.2026 25.03.2026	A group-based design on transforming raw data into effective feature vectors.	CAT III

Date: 18.11.2026

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