

Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

Faculty of Information Technology

Structured Work Plan for Teaching

(06 – July - 20 TO 15- January -21)

1. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code	Practical paper code	Total Teaching Hrs
1	B.Sc.C.S. T.Y. [V-Sem]	Mr. Bhatade M. B.	Aptitude & Reasoning	U-APR-601 Total Credit:2	----	TH:61
2	BCA SY T.Y. [V-Sem]		Aptitude & Reasoning	U-APR-614 Total Credit:2	U-LAC-186 Total Credit:2	TH:61 Pr:15
3	BCA F. Y. { I Sem }		Fundamentals Of Statistics	U-FST-182 Total Credit:3	----	

2. Summary of Lesson Plan

Name of Teacher: Mr. Bhatade M. B.

Class : B. Sc. C. S. T.Y. (V Semester)

Sr. No.	Course Title and Course Code	Unit and Chapter to be covered	Date		No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
			FROM	TO			
1	Aptitude & Reasoning (U-APR-601)	Unit I Quantitative Ability 1.1. Number Systems 1.2. LCM and HCF 1.3. Decimal Fractions 1.4. Simplification 1.5. Square Roots and Cube Roots 1.6. Average 1.7. Problems on Ages 1.8. Surds & Indices 1.9. Percentages 1.10 Problems on Numbers	06.07.20	07.08.20	16	Class room Practice	Online Test on Unit -I at the end of Unit - I

2		Unit 2 2.1. Logarithm 2.2. Permutation and Combinations 2.3 Probability 2.4 Profit and Loss 2.5 Simple and Compound Interest 2.6. Time, Speed and Distance 2.7. Time & Work 2.8. Ratio and Proportion 2.9. Area 2.10. Mixtures and Allegation	08.08.20	12.09.20	18	Class room Seminar	Unit – II Assignment and Online test using google form
3		Unit III Data Interpretation 3.1. Data Interpretation 3.2. Tables 3.3. Column Graphs 3.4. Bar Graphs 3.5. Line Charts 3.6. Pie Chart 3.7. Venn Diagram	14.09.20	03.10.20	12	Class room Seminar	Unit – III (Practice and Class room Seminar) Online test using google form
4	Aptitude & Reasoning (U-APR-601)	Unit IV Logical Reasoning 4.1. Analogy 4.2. Blood Relation 4.3 Directional Sense 4.4. Number and Letter Series 4.5. Coding – Decoding 4.6. Calendars 4.7. Clocks 4.8. Venn Diagrams 4.9. Seating Arrangement 4.10. Syllogism 4.11. Mathematical Operations	05.10.20	15.11.20	14	1. Classroom Seminar	Unit – IV Chapters 1 Assignment and (Practice ,Class room Seminar) Online test using google form

Name of Teacher: Mr. Bhatade M. B.

Class : B..C.A. T.Y. [V-Sem]

Sr. No.	Course Title and Course Code	Unit and Chapter to be covered	Date		No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
			FROM	TO			
1	Aptitude & Reasoning (U-APR-614)	Unit I Quantitative Ability 1.2. Number Systems 1.2. LCM and HCF 1.3. Decimal Fractions 1.4. Simplification 1.5. Square Roots and Cube Roots 1.6. Average 1.7. Problems on Ages 1.8. Surds & Indices 1.9. Percentages 1.10 Problems on Numbers	06.07.20	07.08.20	16	Class room Practice	Online Test on Unit –I at the end of Unit - I
2		Unit 2 2.1. Logarithm 2.2. Permutation and Combinations 2.3 Probability 2.4 Profit and Loss 2.5 Simple and Compound Interest 2.6. Time, Speed and Distance 2.7. Time & Work 2.8. Ratio and Proportion 2.9. Area 2.10. Mixtures and Allegation	08.08.20	12.09.20	18	Class room Seminar	Unit – II Assignment and Online test using google form
		Unit III Data Interpretation 3.1. Data Interpretation 3.2. Tables					Unit – III

3		3.3. Column Graphs 3.4. Bar Graphs 3.5. Line Charts 3.6. Pie Chart 3.7. Venn Diagram	14.09.20	03.10.20	12	Class room Seminar	(Practice and Class room Seminar) Online test using google form
4	Aptitude &Reasoning (U-APR-614)	Unit IV Logical Reasoning 4.1. Analogy 4.2. Blood Relation 4.3. Directional Sense 4.4. Number and Letter Series 4.5. Coding – Decoding 4.6. Calendars 4.7. Clocks 4.8. Venn Diagrams 4.9. Seating Arrangement 4.10. Syllogism 4.11. Mathematical Operations	05.10.20	15.11.20	14	2. Classroom Seminar	Unit – IV Chapters 1 Assignment and (Practice ,Class room Seminar) Online test using google form

Name of Teacher: Mr. Bhatade M. B.

Class : B..C.A. F.Y. [I-Sem]

Sr. No.	Subject	Unit and Chapter to be covered	Date		No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
			FROM	TO			
1		UNIT I: 1. Indtroduction And Graphical Representation 1.1. Definitions of Statistics. 1.2. Importance of statistics. 1.3. Advantages and Limitations. 1.4. Scope of Statistics 1.5. Collection of Data 1.6. Types of Data 1.7. Attributes and variables 1.8. Construction of Frequency, Cumulative and Relative 1.9. Frequency distributions. 1.10. Graphical representation of Frequency distribution: (Histogram, Frequency Polygon, Frequency Curve and Cumulative Frequency curves (Ogive curves))	10.09.20	5.10.20	14	Class room Practice	Unit – I Chapters 1 ,2 assignment and online test

	Fundamentals of Statistics	1.11. Diagrammatic representations: Simple bar, Subdivided bar, Pie diagrams.					
	Course Code: U-FST-182	UNIT II: 2. MEASURES OF CENTRAL TENDENCY 2.1. Concept of central tendency 8 2.2. Arithmetic Mean: Definition, Formulae and computation for ungrouped and grouped data, Merits and Demerits. 2.3. Median: Definition, Formulae and Computation for ungrouped and grouped data, Merits and Demerits. 2.4. Quartiles: Definition, Formulae and Computation for ungrouped and grouped data. 2.5. Mode: Definition, Formulae and Computation for ungrouped and grouped data, Merits and Demerits.	06.10.20	5.11.20	16	Class room Seminar	Unit – II Assignment & online test
		UNIT III: 3. MEASURES OF DISPERSION 3.1. Concept of Dispersion. 3.2. Range: Definition, Formulae and Computation for ungrouped and grouped data.				Class room	Unit – III

		<p>3.3. Standard Deviation: Definition, Formulae and Computation for ungrouped and grouped data.</p> <p>3.4. Variance: Definition, Formulae and Computation for ungrouped and grouped data.</p> <p>3.5. Coefficient of variance: Definition, Formulae and Computation for ungrouped and grouped data</p>	06.11.20	05.12.20	13	Seminar	(Practice and Class room Seminar) Online test
		<p>UNIT IV:</p> <p>4. CORRELATIONS AND TIME SERIES</p> <p>4.1. Definition of Correlation</p> <p>4.2. Types of Correlation</p> <p>4.3. Karl Pearson's coefficient of correlations for ungrouped data and problems</p> <p>4.4. Definition and components of time series</p> <p>4.5. Measures of trends</p> <p>4.6. Moving average method and least square method and problems.</p>	06.12.20	15.01.21	15	Classroom Seminar	Unit – IV Chapters 1 & 2 (Practice ,Class room Seminar) Online test

Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

Faculty of Information Technology

Structured Work Plan for Teaching

(22 – February- 21 TO 30- May-21)

1. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code	Practical paper code	Total Teaching Hrs
1	B.Sc.C.S. F.Y. [II-Sem]	Mr. Bhatade M. B.	Discrete mathematics	U-DIM-271 Total Credit:3	U-LAC-275 Total Credit:2	TH: 60 Pr: 15
2	BCA SY [IV - Sem]		Mathematical foundations of comp.sci	U-MFC-491 Total Credit:3	U-LAC-495 Total Credit:2	TH: 60 Pr:15

2. Summary of Lesson Plan

Name of Teacher: Mr. Bhatade M. B.

Class : B. C. A. S.Y. (IV Semester)

Sr. No.	Course Title and Course Code	Unit and Chapter to be covered	Date		No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
			FROM	TO			
1	Mathematical foundations of comp.sci (U-MFC-491)	UNIT I: Sets, Relations and Functions Union CHAPTER : 1. Sets theory, . Definition and types of sets Equal sets, subsets, universal sets, Venn diagram. Set operations ,Properties of set union and intersections Cartesian product	24.02.21	20.03.21	18	Class room Practice	Online Test on Unit –I at the end of Unit - I

		CHAPTER : 2 Relation , types of relation CHAPTER : 3 Function, domain, range, Types of function					
2		UNIT II: Mathematical logic Propositions , Truth values and truth table , Logical connectives and compound statements Statement pattern and logical equivalence ,Tautology, contradiction, contingency	22.03.21	31.03.21	6	Class room Seminar	Unit – II Assignment and Online test using google form
3	Mathematical foundations of comp.sci (U-MFC-491)	UNIT III : MATRICES AND DETERMINANTS CHAPTER : 1:- DETERMINANTS. Definition of Determinant CHAPTER : 2. MATRICES Definition and types of matrices Equality of Matrices and transpose of matrices Algebra of matrices : addition, subtraction of matrices, scalar Multiplication of matrix Adjoint of matrices Inverse of matrices	1.04.21	30.04.21	20	Class room Seminar	Unit – III Chapters 1 (Practice and Class room Seminar) Chapters 2 (Practice and Class room Seminar) Online test using google form

4		<p>UNIT IV: GRAPH THEORY</p> <p>CHAPTER : 1:- Definition and types of graphs , Incidences and degree of vertices , Isomorphism of graphs , Connected and disconnected graphs , Walks, paths and circuits , Directed graph</p> <p>CHAPTER : 2:- Tree</p> <p>Centre of Tree , Binary Tree , Spanning tree ,. Cut sets and Cut vertices – Fundamental circuits and cut sets , Edge Connectivity - Vertex connectivity , Hamiltonian Paths & Graphs , operations on graphs</p>	2.05.21	14.05.21	11	<p>1. Classroom Seminar</p> <p>2. Classroom Seminar</p>	<p>Unit – IV</p> <p>Chapters 1 Assignment and (Practice ,Class room Seminar)</p> <p>Chapters 2 Assignment and (Practice ,Class room Seminar)</p>
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Name of Teacher: Mr. Bhatade M. B.

Class B.Sc.C.S. F.Y. [II-Sem]

Sr. No.	Subject	Unit and Chapter to be covered	Date		No. of Lectures	Academic activities to be organized	No. of Test / Assignment with topic and date
			FROM	TO			
1		UNIT I: Sets, Relations and Functions Union					Unit – I
		CHAPTER : 1. Sets theory, . Definition and types of sets Equal sets, subsets, universal sets, Venn diagram. Set operations ,Properties of set union and intersections Cartesian product	10.03.21	26.03.21	12	Class room Practice	Chapters 1 ,2 & 3 Online test
		CHAPTER : 2 Relation , types of relation	29.03.21	31.03.21	03		
CHAPTER : 3 Function, domain, range, Types of function	01.04.21	05.04.21	03				
	Discrete mathematics (U-DIM-271)	UNIT II: Mathematical logic Propositions ,Truth values and truth table , Logical connectives and compound statements Statement pattern and logical equivalence ,Tautology, contradiction, contingency	05.04.21	15.04.21	07	Class room Seminar	Unit – II Assignment

		<p>UNIT III : MATRICES AND DETERMINANTS</p> <p>CHAPTER : 1:- DETERMINANTS. Definition of Determinant</p> <p>CHAPTER : 2. MATRICES Definition and types of matrices Equality of Matrices and transpose of matrices Algebra of matrices : addition, subtraction of matrices, scalar Multiplication of matrix Adjoint of matrices Inverse of matrices</p>	<p>16.04.21</p>	<p>20.04.21</p>	<p>03</p>	<p>Class room Seminar</p>	<p>Unit – III Chapters 1 (Practice and Class room Seminar) Online test</p>
		<p>UNIT IV: GRAPH THEORY</p> <p>CHAPTER : 1:-. Definition and types of graphs , Incidences and degree of vertices , Isomorphism of graphs , Connected and disconnected graphs , Walks, paths and circuits , Directed graph</p> <p>CHAPTER : 2:- Tree Centre of Tree , Binary Tree , Spanning tree ,. Cut sets and Cut vertices – Fundamental circuits and</p>	<p>14.05.21</p>	<p>31.05.21</p>	<p>10</p>	<p>Classroom Seminar</p>	<p>Unit – IV Chapters 1 & 2 (Practice ,Class room Seminar) Online test</p>

		cut sets , Edge Connectivity - Vertex connectivity ,					
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