Rajarshi Shahu Mahavidyalaya, Latur (Autonomous)

Department Of Computer Science & I.T.

Structured Work Plan for Teaching

(29 – NOV - 18   TO   21- March-19)

1. Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Paper	Paper Code	Practical paper code	Total Teaching Hrs
1	B.Sc.C.S. F.Y. [II-Sem] Div- A		Discrete mathematics	U-ADC-271 Total Credit:3	U-LAC-275 Total Credit:2	TH: 60 Pr: 15
2	B.Sc.C.S. F.Y. [II-Sem] Div- B	Bhatade M. B.	Discrete mathematics	U-ADC-271 Total Credit:3	U-LAC-275 Total Credit:2	TH: 60 Pr:15
3	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.Sc.C.S. F.Y. (II Sem.) (Div. A & B)

Sr. No.	Course Title & 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	Discrete mathematics U-ADC-271	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	29.11.18	06.12.18	08	Class room Practice	Unit – I Chapters 1 & 2
			07.12.18	18.12.18	10		
			19.12.18	24.12.18	05		

		CHAPTER : 2 Relation , types of relation CHAPTER : 3 Function, domain, range, Types of function	25.12.18	7.1.19	09		
		UNIT II: Mathematical logic Propositions ,Truth values and truth table , Logical connectives and compound statements Statement pattern and logical equivalence ,Tautology, contradiction, contingency	9.1.19	18.1.19	12	Class room Seminar	Unit – II
UNIT TEST – I [20.01.19 TO 28.01.19]
	Discrete mathematics U-ADC-271	UNIT III : MATRICES AND DETERMINANTS CHAPTER : 1:- DETERMINANTS. Definition of Determinant	29.01.19	2.02.19	05	Class room Seminar	Unit – III Chapters 1 (Practice and Class room Seminar)
		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	4.02.19	1.03.19	22	Class room Seminar	Chapters 2 (Practice and Class room Seminar)

		UNIT IV: GRAPH THEORY 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	2.03.19	14.03.19	10	Classroom Seminar	Unit – IV Chapters 1 (Practice ,Class room Seminar)
		CHAPTER : 2:- Tree 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	15.03.19	21.03.19	06	Classroom Seminar	Chapters 2 (Practice ,Class room Seminar)

Name of Teacher: Mr. Bhatade M. B.   **Class : B. C. A. S.Y. (IV Sem.)**

Sr. No.	Course Title & Course Code	Unit and Chapter to be covered	Date		No. of Lectures	Academic ctivities to be organized	No. of Test / Assignment with topic and date
			FROM	TO			
1		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 CHAPTER : 2 Relation , types of relation CHAPTER : 3 Function, domain, range, Types of function	29.11.18 07.12.18 19.12.18 25.12.18	06.12.18 18.12.18 24.12.18 7.1.19	08 10 05 09	Class room Practice	Unit – I Chapters 1 & 2
	Mathematical Foundation for Computer Science U-MFC-491	UNIT II: Mathematical logic Propositions ,Truth values and truth table , Logical connectives and compound statements Statement pattern and logical equivalence ,Tautology, contradiction, contingency	9.1.19	18.1.19	12	Class room Seminar	Unit – II

		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	29.01.19	2.02.19	05	Class room Seminar	Unit – III Chapters 1 (Practice and Class room Seminar)
		Algebra of matrices : addition, subtraction of matrices, scalar Multiplication of matrix Adjoint of matrices Inverse of matrices	4.02.19	1.03.19	22	Class room Seminar	Chapters 2 (Practice and Class room Seminar)
		UNIT IV: GRAPH THEORY 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	2.03.19	14.03.19	10		Unit – IV Chapters 1 (Practice ,Class room Seminar)
		CHAPTER : 2:- Tree Centre of Tree , Binary Tree , Spanning tree ,. Cut sets and Cut vertices – Fundamental circuits and cut sets , Edge Connectivity - Vertex connectivity ,	15.03.19	21.03.19	06	Classroom Seminar	Chapters 2 (Practice ,Class room Seminar)

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Faculty of Information Technology

Structured Work Plan For Teaching

(2 July 2018 to 3 October 2018)

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.C.A. T.Y.(V Sem)	Bhatade M. B.	Aptitude & Reasoning	U-APR-614 Total Credit:2	----	TH:61
2	B.C.A. F.Y.(I Sem)		Fundamentals of Statistics	U-FST-182 Total Credit:3	U-LAC-186 Total Credit:2	TH:61 Pr:15
3	B.Sc. CS T.Y. (V Sem)		Aptitude & Reasoning	U-APR-601 Total Credit:2	----	

2. Summary of Lesson Plan

Name of Teacher: Bhatade M. B.   Class:- B.C.A. T.Y.(V Sem)

Sr. No.	Course Title & Course Code	Unit &Chapter to be covered	Date From	Date To	No of Lectures	Academic activities to be organized	No of Test/ Assignment with topic and date
1		UNIT - I 1. Quantitative Ability (Basic Mathematics) 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	2.7.18	20.7.18	15	Class room Practice	MCQ based test and Assignment
2	Aptitude & Reasoning (U-APR-614)	UNIT – II 2. Quantitative Ability (Applied & Engineering Mathematics) 2.1. Logarithm 2.2. Permutation and Combinations	21.7.18	14.8.18	22	Class room Practice	MCQ based test and Assignment

		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					
		UNIT – III 3. 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 Diagrams	16.8.18	10.9.18	15	Class room Practice	MCQ based test and Assignment
		UNIT – IV 20Hrs 4. Logical Reasoning (Deductive 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	11.9.18	3.10.18	18	Class room Practice	MCQ based test and Assignment

Name of Teacher: Bhatade M. B.　　　　　　　　Class:- B.C.A. F.Y.(I Sem)

Sr. No.	Course Title & Course Code	Unit &Chapter to be covered	Date		No of Lectures	Academic activities to be organized	No of Test/ Assignment with topic and date
			From	To			
1	Fundamentals of Statistics **U-FST-182**	UNIT I: 1. INDTRODUCTION AND GRAPHICAL REPRESENTION 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.	2.7.18	17.7.18	13	Class room Practice	MCQ based test and Assignment
		1.10. Graphical representation of Frequency distribution: (Histogram, Frequency Polygon, Frequency Curve and Cumulative Frequency curves (Ogive curves)) 1.11. Diagrammatic representations: Simple bar, Subdivided bar, Pie diagrams.	18.7.18	30.7.18	12	Class room Practice	MCQ based test and Assignment
2		UNIT – II 2. Quantitative Ability (Applied & Engineering Mathematics) 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	30.7.18	16.8.18	12	Class room Practice	MCQ based test and Assignment

3		UNIT – III 3. 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 Diagrams	16.8.18	5.9.18	16	Class room Practice	MCQ based test and Assignment
4		UNIT – IV 20Hrs 4. Logical Reasoning (Deductive 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	6.9.18	3.10.18	18	Class room Practice	MCQ based test and Assignment

Name of Teacher: Bhatade M. B.   Class:- B.Sc. C.S. T.Y.(V Sem)

Sr. No .	Course Title & Course Code	Unit &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. Quantitative Ability (Basic Mathematics) 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	2.7.18	20.7.18	15	Class room Practice	MCQ based test and Assignment
2	Aptitude & Reasoning (U-APR-601)	UNIT – II 2. Quantitative Ability (Applied & Engineering Mathematics) 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	21.7.18	14.8.18	22	Class room Practice	MCQ based test and Assignment
3		UNIT – III 3. 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 Diagrams	16.8.18	10.9.18	15	Class room Practice	MCQ based test and Assignment

| 4 | | UNIT – IV 20Hrs 4. Logical Reasoning (Deductive 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 | 11.9.18 | 3.10.18 | 18 | Class room Practice | MCQ based test and Assignment |