# 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.	Class	Name of Asst.	Paper	Paper Code	Practical	Total
No.	Class	Prof.		raper code	paper code	Teaching Hrs
1	B.Sc.C.S. F.Y.		Discrete	U-ADC-271	U-LAC-275	TH: 60
1	[II-Sem] Div- A		mathematics	Total Credit:3	Total Credit:2	Pr: 15
	B.Sc.C.S. F.Y.		Discrete	U-ADC-271	U-LAC-275	TH: 60
2	[II-Sem] Div- B	Bhatade M. B.	mathematics	Total Credit:3	Total Credit:2	Pr:15
		Bridtade IVI. B.		U-MFC-491	U-LAC-495	TH: 60
3	BCA SY [ IV-sem]		foundations	Total Credit:3	Total Credit:2	Pr:15
			of comp.sci	Total cicult.5		

### 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		UNIT I: Sets, Relations and					
		Functions Union					Unit – I
		CHAPTER: 1. Sets theory, .	29.11.18	06.12.18	08	Class room	Chapters 1
		Definition and types of sets				Practice	& 2
		Equal sets, subsets,	07.12.18	18.12.18	10		
		universal sets, Venn					
	<b>.</b>	diagram. Set operations					
	Discrete mathematics	,Properties of set union and					
	U-ADC-271	intersections Cartesian					
		product	19.12.18	24.12.18	05		

			1		1	1
	CHAPTER: 2 Relation,	25.12.18	7.1.19	09		
	types of relation	25.12.10	7.1.13	03		
	CHAPTER: 3 Function,					
	domain, range, Types of					
	function					
	UNIT II: Mathematical logic					
	Propositions ,Truth values					Unit – II
	and truth table , Logical	9.1.19	18.1.19	12		
	connectives and compound				Class room	
	statements Statement				Seminar	
	pattern and logical					
	equivalence ,Tautology,					
	contradiction, contingency					
	UNIT TEST -	- I [ 20.01.	19 TO 28.0	01.19]		
	UNIT III : MATRICES AND					
	DETERMINANTS					Unit – III
	CHAPTER : 1:-					Chapters 1
	DETERMINANTS. Definition	29.01.19	2.02.19	05		(Practice
	of Determinant				Class room	and Class
					Seminar	room
	CHAPTER : 2. MATRICES					Seminar)
	Definition and types of					
	matrices Equality of	4.02.19	1.03.19			
	Matrices and transpose of			22	Class room	
	matrices				Seminar	
	Algebra of matrices :					Chapters 2
Discrete	addition, subtraction of					(Practice
mathematics U-ADC-271	matrices, scalar					and Class
0 NDC 271	Multiplication of matrix					room
	Adjoint of matrices					Seminar)
	Inverse of matrices					
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UNIT IV: GRAPH THEORY					Unit – IV
CHAPTER : 1: Definition					Chapters 1
and types of graphs ,					(Practice
Incidences and degree of	2.03.19	14.03.19	10	Classroom	,Class room
vertices , Isomorphism of				Seminar	Seminar )
graphs, Connected and					
disconnected graphs,					
Walks, paths and circuits,					
Directed graph					
CHAPTER : 2:- Tree					
Centre of Tree , Binary					
Tree , Spanning tree ,. Cut	15.03.19	21.03.19	06	Classroom	Chapters 2
sets and Cut vertices –				Seminar	(Practice
Fundamental circuits and					,Class room
cut sets , Edge Connectivity					Seminar )
- Vertex connectivity ,					
Hamiltonian Paths &					
Graphs , operations on					
graphs					

# 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	Da	ate	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					Unit – I
		CHAPTER: 1. Sets theory, .	29.11.18	06.12.18	08		Chapters 1 & 2
		Definition and types of					
		sets Equal sets, subsets,	07.12.18	18.12.18	10		
		universal sets, Venn				Class room	
		diagram. Set operations				Practice	
		,Properties of set union					
		and intersections					
		Cartesian product	19.12.18	24.12.18	05		
		CHAPTER: 2 Relation,	13.12.10	24.12.10	03		
	Mathematical Foundation for	types of relation	25.12.18	7.1.19	09		
	Computer	CHAPTER: 3 Function,	23.12.10	7.1.13	03		
	Science U-MFC-491	domain, range, Types of					
	0 1011 C 431	function					
		UNIT II: Mathematical				Class room	
		logic				Seminar	Unit – II
		Propositions ,Truth values	9.1.19	18.1.19	12		
		and truth table , Logical					
		connectives and					
		compound statements					
		Statement pattern and					
		logical equivalence					
		,Tautology, contradiction,					
		contingency					

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	UNIT III : MATRICES AND				Class room	
	DETERMINANTS				Seminar	Unit – III
	CHAPTER: 1:-					Chapters 1
	DETERMINANTS.	29.01.19	2.02.19	05		(Practice and
	Definition of Determinant CHAPTER: 2. MATRICES					Class room
	Definition and types of					Seminar)
	matrices Equality of					
	Matrices and transpose of					
	matrices	4.02.19	1.03.19			
	Algebra of matrices :			22	Class room	
	addition, subtraction of				Seminar	Chapters 2
	matrices, scalar					(Practice and
	Multiplication of matrix					Class room
	Adjoint of matrices					Seminar)
	Inverse of matrices					
	UNIT IV: GRAPH THEORY					Unit – IV
	CHAPTER : 1: Definition					Chapters 1
	and types of graphs,					(Practice ,Class
	Incidences and degree of	2.03.19	14.03.19	10		room Seminar )
	vertices , Isomorphism of					
	graphs, Connected and					
	disconnected graphs,					
	Walks, paths and circuits,					
	Directed graph					
	CHAPTER : 2:- Tree				Classroom	
	Centre of Tree , Binary				Seminar	Chapters 2
	Tree , Spanning tree ,. Cut	15.03.19	21.03.19	06		(Practice ,Class
	sets and Cut vertices – Fundamental circuits and					room Seminar )
	cut sets , Edge					
	Connectivity - Vertex					
	connectivity ,					

# 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.	Class	Name of Asst.prof	Course Title	Course Code	Practical	Total
No					paper code	Teaching Hrs
1	B.C.A. T.Y.(V Sem)		Aptitude &	U-APR-614		TH:61
		Bhatade M. B.	Reasoning	Total Credit:2		
2	B.C.A. F.Y.(I Sem)		Fundamentals	U-FST-182	U-LAC-186	TH:61
			of Statistics	Total Credit:3	Total Credit:2	Pr:15
3	B.Sc. CS T.Y. (V Sem)		Aptitude &	U-APR-601		
			Reasoning	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		No of Lectures	Academic activities to be	No of Test/ Assignment with topic
			From	То		organized	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

Sr. No	Course Title & Course Code	Unit &Chapter to be covered	Da	ate	No of Lectures	Academic activities to be	No of Test/ Assignment with topic
			From	То		organized	and date
1		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	2.7.18	17.7.18	13	Class room Practice	MCQ based test and Assignment
	Fundamenta ls of Statistics U-FST-182	Relative 1.9. Frequency distributions. 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

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	UNIT – III 3. Data	16.8.18	5.9.18	16	Class	MCQ based
	Interpretation 3.1. Data				room	test and
	Interpretation				Practice	Assignment
	3.2. Tables					
3	3.3. Column Graphs					
-	3.4. Bar Graphs					
	3.5. Line Charts					
	3.6. Pie Chart					
	3.7. Venn Diagrams					
	UNIT – IV 20Hrs 4. Logical	6.9.18	3.10.18	18	Class	MCQ based
	Reasoning (Deductive				room	test and
	Reasoning) 4.1. Analogy 4.2.				Practice	Assignment
	Blood Relation 4.3 Directional					7 .55 .B
4	Sense 4.4. Number and Letter					
4	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					

Sr. No	Course Title & Course Code	Unit &Chapter to be covered	Da	te	No of Lectures	Academic activities to be	No of Test/ Assignment with topic
			From	То		organized	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-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

	UNIT – IV 20Hrs 4. Logical	11.9.18	3.10.18	18	Class	MCQ based
	Reasoning (Deductive				room	test and
4	Reasoning) 4.1. Analogy 4.2.				Practice	Assignment
	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					