Rajarshi Shahu Mahavidyalaya(Autonomous), Latur

Department of Information Technology.

Academic Year 2019-2020

(24 June 2019 to 3 October 2019)

1.   Details of Classes to be taught

Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code	Practical paper code	Total Teaching Hours
1	B. C.A. F.Y. [I - Sem] Div(A+B)	Mr. Bhatade M.B.	Statistical Foundation	U-FST-182	U-LAC-186	Th-55

2. Summary of Lesson Plan

Sr. No.	Unit and Chapter to covered	Date from	Date To	No. of lecturers	Academic activities to be organized	No. of Assignment with topic
1	Unit- I Introduction and graphical representation	24.06.19	16.07.19	15	Class seminars	Assignment and class test
2	Unit- II Measures of Central Tendency	18.07.19	24.08.19	16	**Class room practice**	Assignment and class test
3	Unit-III Measures of Dispersion	25.08.19	17.09.19	15	**Class room practice**	Assignment and class test
4	Unit –IV Correlation and Time series	26.09.19	23.10.19	14	**Class room practice**	Assignment and class test

Course Teacher

Head
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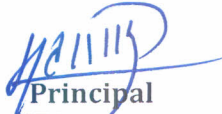(24 June 2019 to 3 October 2019)

1. **Details of Classes to be taught**

Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code	Total Teaching Hours
1	B. C.A. T.Y. [V - Sem]	Mr. Bhatade M.B. .	Aptitude and reasoning	U-APR-614	Th-55

2. **Summary of Lesson Plan**

Sr. No.	Unit and Chapter to covered	Date from	Date To	No. of lecturers	Academic activities to be organized	No. of Assignment with topic
1	Unit- I Quantitative ability(Basic Mathematics)	24.06.19	05.08.19	15	Class seminars	Assignment and class test
2	Unit- II Quantitative ability(Applied and Engineering Mathematics	06.08.19	05.09.19	17	Class room practice	Assignment and class test
3	Unit-III Data Interpretation	06.09.19	17.09.19	09	Class room practice	Assignment and class test
4	Unit –IV Logical Reasoning (Deductive reasoning)	26.09.19	3.10.19	14	Class room practice	Assignment and class test

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1. **Details of Classes to be taught**

Sr. No.	Class	Name of Asst. Prof.	Course Title	Course Code	Total Teaching Hours
1	B.Sc.C.S. T.Y. [V - Sem]	Mr. Bhatade M.B. .	Aptitude and reasoning	U-APR-601	Th-55

2. **Summary of Lesson Plan**

Sr. No.	Unit and Chapter to covered	Date from	Date To	No. of lecturers	Academic activities to be organized	No. of Assignment with topic
1	Unit- I Quantitative ability(Basic Mathematics)	24.06.19	06.08.19	15	Class seminars	Assignment and class test
2	Unit- II Quantitative ability(Applied and Engineering Mathematics	07.08.19	04.09.19	16	**Class room practice**	Assignment and class test
3	Unit-III Data Interpretation	05.09.19	17.09.19	10	**Class room practice**	Assignment and class test
4	Unit –IV Logical Reasoning (Deductive reasoning)	26.9.19	3.10.19	14	**Class room practice**	Assignment and class test

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Teaching Plan Academic Year 2019-2020

Name of Teacher: M. B. Bhatade

Class: B.Sc.CS. F.Y. **Semester:** II (Div A & B)

Course Title: Discrete Mathematics   **Course Code: U-DIM-271**

Unit	Topics To be Covered	Date	No. of Lectures
Unit I	1. SETS, RELATIONS AND FUNCTIONS 1.1. Definition and types of sets 1.2. Equal sets, subsets, universal sets, Venn diagram. 1.3. Set operations 1.4. Properties of set union and intersections 1.5. Cartesian product 1.6. Relation , types of relation 1.7. Function, domain, range, Types of function	16-12-19 to 14-1-20	20
Unit II	2. MATHEMATICAL LOGIC 2.1. Propositions 2.2. Truth values and truth table 2.3. Logical connectives and compound statements 2.4. Statement pattern and logical equivalence 2.5. Tautology, contradiction, contingency	16-1-20 to 29-1-20	10
Unit III	3. MATRICES AND DETERMINANTS 3.1. Definition of Determinant 3.2. Definition and types of matrices 3.3. Equality of Matrices and transpose of matrices 3.4. Algebra of matrices : addition, subtraction of matrices, scalar 3.5. Multiplication of matrix · 3.6. Adjoint of matrices 3.7. Inverse of matrices	30-1-20 to 26-2-20	17
Unit IV	4. GRAPH THEORY 4.1. Definition and types of graphs 4.2. Incidences and degree of vertices 4.3. Isomorphism of graphs 4.4. Connected and disconnected graphs 4.5. Walks, paths and circuits 4.6. Directed graph 4.7. Tree 4.8. Centre of Tree 4.9. Binary Tree 4.10. Spanning tree 4.11. Cut sets and Cut vertices – Fundamental circuits and cut sets 4.12. Edge Connectivity - Vertex connectivity 4.13. Hamiltonian Paths & Graphs 4.14. Operations on graphs	7-3-20 to 29-3-20	15

Bhatade M. B.
Course Teacher

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Teaching Plan Academic Year 2019-2020

Name of Teacher: M. B. Bhatade

Class: B.C. A. S.Y. **Semester:** IV

Course Title: Mathematical Foundation for Computer Science   **Course Code: U-MFC-491**

Unit	Topics To be Covered	Date	No. of Lectures
Unit I	**1. SETS, RELATIONS AND FUNCTIONS** **1.1. Definition and types of sets** **1.2. Equal sets, subsets, universal sets, Venn diagram.** **1.3. Set operations** **1.4. Properties of set union and intersections** **1.5. Cartesian product** **1.6. Relation , types of relation** **1.7. Function, domain, range, types of function** **1.8. Numerical examples**	**16-12-19 to 14-1-20**	20
Unit II	**2. MATHEMATICAL LOGIC** **2.1 Propositions** **2.2 Truth values and truth table** **2.3 Logical connectives and compound statements** **2.4 Statement pattern and logical equivalence** **2.5 Tautology, contradiction, contingency**	**16-1-20 to 29-1-20**	10
Unit III	**3. MATRICES AND DETERMINANTS** **3.1. Definition of Determinant** **3.2. Definition and types of matrices** **3.3. Equality of Matrices and transpose of matrices** **3.4. Algebra of matrices : addition, subtraction of matrices, scalar** **3.5. Multiplication of matrix ·** **3.6. Adjoint of matrices** **3.7. Inverse of matrices**	**30-1-20 to 26-2-20**	17
Unit IV	**4. GRAPH THEORY & TREE** **4. GRAPH THEORY** **4.1 Definition and types of graphs** **4.2 Incidences and degree of vertices** **4.3 Isomorphism of graphs** **4.4 Connected and disconnected graphs** **4.5 Walks, paths and circuits** **4.6 Directed graph** **5. Tree** **5.1 Centre of Tree** **5.2 Binary Tree** **5.3 Spanning tree** **5.4 Cut sets and Cut vertices – Fundamental circuits and cut sets** **5.5 Edge Connectivity - Vertex connectivity**	**7-3-20 to 29-3-20**	15

Bhatade m.B

Course Teacher

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