

(2018 -2019)

| Sr. No. | Class | Name of Asst. Prof. | Subject | Paper | Total Lectures: |
|---------|----------------|-----------------------|---------------------|--------------------------|-----------------|
| 1 | B.Sc. CS TY | Mrs. K. M. Pradhan | Computer Science | U-ORA -591 Oracle DBA | 60 |

[illegible]

| | | | | | |
|---|--|----|--------------------------------|------------------|--|
| | back, Read consistency, Database recovery, Flash backoperations 4. RAC Database Overview of Real Application Clusters, RAC database | | 13.08.2018 | PPT Presentation | |
| 3 | Unit III . Backup and Recovery Logical Backup -data pump export/import process, Physical backup - Offline Online backup, Flash Recovery area 6. Database Tuning Tuning - application design, effective table design, Distribution of CPU requirements, Effective application design, Tuning SQL, Impact of order of load rates, Additional Indexing options, Generating explain plan. | 15 | 14.08.2018 To 04.09.2018 | PPT Presentation | -- |
| 4 | Unit IV Database security & Auditing Non database security, Database authentication methods, Database authentication, DBA authentication, user and privilege management: Creating database users, Identifying system and object privileges, Granting and revoking privileges, Creating and modifying roles, Auditing | 15 | 05.09.2018 To 06.10.2018 | -- | Unit Test II (MCQ) 07.10.2018 to 22.10.2018 |


(2018 -2019)


| Sr. No. | Class | Name of Asst. Prof. | Subject | Paper | Total Lectures: |
|---------|----------------|-----------------------|---------------------|---|-----------------|
| 1 | M.Sc. CS FY | Mrs. K. M. Pradhan | Computer Science | P-DAA-326 Design Analysis and Algorithms | 60 |

[illegible]

| | | | | | |
|---|---|----|---|------------------|--|
| 2 | <p>UNIT II: Divide and Conquer Algorithms, Greedy Algorithms</p> <p>Introduction to Divide and Conquer Algorithms, Finding the Maximum and Minimum, Quick sort (Derivation of Average case analysis and Worst case analysis), Binary Search (Derivation of average case analysis), and Strassen's Matrix Multiplication.</p> <p>Introduction to Greedy Algorithms – Fractional Knapsack problem, Minimum cost spanning trees, Kruskal's and Prim's Algorithms, Optimal Merge patterns and Single-Source Shortest Paths.</p> | 15 | <p>28.07.2018</p> <p>to</p> <p>20.08.2018</p> | PPT Presentation | |
|---|---|----|---|------------------|--|

| | | | | | |
|---|--|----|---|------------------|--|
| 3 | <p>UNIT III: Dynamic Programming, Back Tracking and Branch & Bound Algorithms</p> <p>Dynamic Programming Definition - All-pairs shortest paths, Traveling salesman problem and optimal parameterization for product of sequence of matrices.</p> <p>Back tracking and Branch and Bound Algorithms Introduction - Nqueens Problem, Sum of Subsets problem using Back tracking algorithms. Traveling Salesman problem using branch and bound method.</p> | 15 | <p>21.08.2018 To 12.09.2018</p> | PPT Presentation | -- |
| 4 | <p>UNIT IV: Graphs and Heaps & Lower bound Theory Graphs and Heaps Definitions - Adjacency Matrix, Adjacency Lists. Breadth First Search and Traversal, Depth First Search and Traversal. Priority Queues using Heap and Design of Heap sort using.</p> | 15 | <p>13.09.2018 To 06.10.2018</p> | -- | <p>Unit Test II (MCQ) 07.10.2018 to 22.10.2018</p> |


Mrs. K. M. Pradhan
Teacher


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


Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Teaching Plan (Semester-II)

(2018 -2019)

4. Details of Classes to be taught

| Sr. No. | Class | Name of Asst. Prof. | Subject | Paper | Total Lectures: |
|---------|----------------|-----------------------|---------------------|--------------------------------|-----------------|
| 1 | M.Sc. CS FY | Mrs. K. M. Pradhan | Computer Science | P-NUM-126 Numerical Methods | 60 |

5. Summary of Lesson Plan

6.

| 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 | Unit-I : Computer Arithmetic & Solution of Algebraic equations Computer Arithmetic .Floating Point representation of Numbers, Arithmetic operation with Normalized floating point, Solution of algebraic equations, Bisection method, Method of false position, Newton-Raphson Method | 20 | 29.11.2018 to 24.12.2018 | PPT representation | -- |
| 2 | Unit-II: Interpolation and Numerical Differentiation & Integration Finite differences [forward & backward] Lagrange interpolation , Difference tables Numerical differentiation & numerical integration, Trapezoidalrule, Simpson's 1/3 Rule, Simpson's 3/8 Rule | 14 | 25.12.2018 to 12.01.2019 | PPT Presentation | Activity based Unit Test-I |

| | | | | | |
|---|--|----|--------------------------------|------------------|--------------------|
| 3 | Unit-III: Matrices & Linear system of equations Introduction, Solution of linear system, Matrix inversion method, problems Gaussian elimination method, Modification of gauss method to compute the inverse | 15 | 15.01.2019 To 02.02.2019 | PPT Presentation | -- |
| 4 | Unit-IV: Curve Fitting Least square Curve fitting, Fitting a straight line Problems Non linear curve fitting: problems polynomial of nth degree problems | 15 | 04.02.2019 To 22.02.2019 | -- | Unit Test II (MCQ) |

Rajarshi Shahu Mahavidyalaya (Autonomous), Latur

Teaching Plan (Semester-IV)

(2018 -2019)

7. Details of Classes to be taught

| Sr. No. | Class | Name of Asst. Prof. | Subject | Paper | Total Lectures: |
|---------|----------------|-----------------------|---------------------|-----------------------------|-----------------|
| 1 | M.Sc. CS SY | Mrs. K. M. Pradhan | Computer Science | P-SFC-408 Soft Computing | 60 |

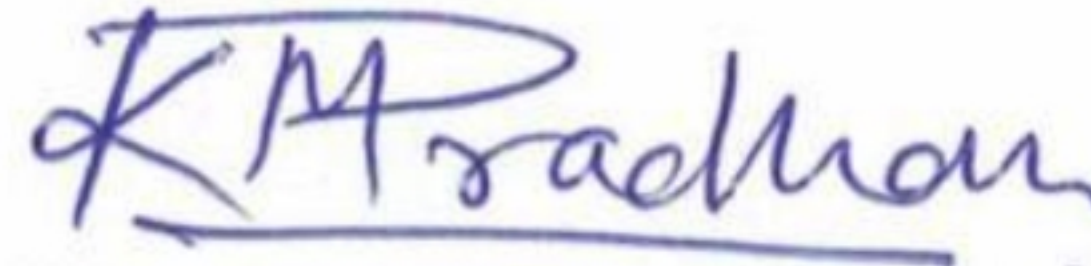
8. Summary of Lesson Plan


9.

| 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 | Unit –I: Introduction to Fuzzy Logic Crisp Sets: an Overview , Fuzzy Sets: Basic Types, Fuzzy Sets: Basic Concepts, Fuzzy Sets Vs Crisp Sets, Additional Properties of alpha cuts, Presentation of fuzzy sets, Extension principle for fuzzy sets. | 20 | 29.11.2018 to 24.12.2018 | PPT representation | -- Activity based Unit Test-I |

| | | | | | |
|---|--|----|--------------------------------|------------------|----|
| 2 | Unit –II: Operations on fuzzy sets & Introduction to Neural Networks Fuzzy complements, Fuzzy Union, Fuzzy Intersections, Crisp & Fuzzy Relation , Binary Fuzzy Relation, Binary Relation on single set, Fuzzy Equivalence Relations, Fuzzy Compatibility Relation. Introduction to Neural Networks and Difference | 14 | 25.12.2018 to 15.01.2019 | PPT Presentation | |
| 3 | Unit- III: Introduction to Neural Networks, Multilayer Feed forward Network Learning Rules-Supervised Learning-Unsupervised Learning-Perceptron Learning-Reinforcement Learning-Delta Learning Rule Multilayer Feed forward Network Generalized Delta Learning, Back propagations training algorithm and derivation of weight, Variant in Back propagations, Radial Basis Function (RBF), Application of BP and RBF N/W | 15 | 16.01.2019 To 04.02.2019 | PPT Presentation | -- |

| | | | | | |
|---|--|----|--------------------------------|----|-----------------------|
| 4 | Unit-IV : Recurrent Network and Unsupervised Learning, Fuzzy System, Neuro Fuzzy System and Applications Hopfield Network, Counter propagation networks, Boltzmann Machine, Adaptive Resonance theory (ART). Fuzzy System, Neuro Fuzzy System and Applications Fuzzy neurons, Fuzzy Neural Network, Fuzzy associative memory, Application in Pattern Recognition, Character, Face, Finger, Palm, Iris Recognitions, Application in Expert System | 15 | 05.02.2019 To 23.03.2019 | -- | Unit Test II (MCQ) |
|---|--|----|--------------------------------|----|-----------------------|


Mrs. K. M. Pradhan
Teacher


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


Principal
PRINCIPAL
Rajarshi Shahu Mahavidyalaya, Latur
(Autonomous)