

Eknath B Madhavi Senior College, Dombivli

Teaching Plan

Academic Year: 2023-24

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| Name of the Teacher : Prasad umarji | Faculty | Course : BSCIT |
| Department : BSCIT | | |

Class : TYBSCIT

SUB:AI

| Month | Week | Dates of the week | No of the lectures | Topic |
|--------|----------------------|------------------------|--------------------|--|
| June | 3 rd Week | 19-6-2023 24-6-2023 | 3 | Reopening of S.Y and T.Y. B.Com Introduction to AI 21 st June Yoga day Celebration |
| June | 4 th week | 26-6-2023 01-7-2023 | 3 | 29 th June Holiday on account of Bakri Id Practical 1: Write a program to implement depth first search algorithm. |
| July | 1 st week | 03-7-2023 08-7-2023 | 3 | 6 th July Ashadi Ekadashi and Guru Purnima Day celebration Solving Problems by Searching |
| July | 2 nd week | 10-7-2023 15-7-2023 | 3 | Beyond Classical Search Practical 2: Write a program to implement breadth first search algorithm. |
| July | 3 rd Week | 17-7-2023 22-7-2023 | 3 | Practical 3: Write a program to simulate 4-Queen / N-Queen problem. |
| July | 4 th week | 24-7-2023 29-7-2023 | 3 | 29 th July Muharram Holiday Logical Agents |
| August | 1 st week | 31-7-2023 5-8-2023 | 3 | First Order Logic Write a program to solve tower of Hanoi problem. |
| August | 2 nd week | 7-8-2023 12-8-2023 | 3 | Inference in First Order Logic Write a program to implement alpha beta search. |
| August | 3 rd Week | 14-8-2023 19-8-2023 | 3 | 15 TH August independence day Write a program for Hill climbing problem. 16 th August parsi new year |
| August | 4 th week | 21-8-2023 26-8-2023 | 3 | Planning Write a program to implement A* algorithm. |
| August | 5 th week | 28-8-2023 | 3 | 30 th August Raksha Bandhan |

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| | | 02-9-2023 | | Knowledge Representation Write a program to implement AO* algorithm. |
| September | 1 st week | 4-9-2023 9-9-2023 | 3 | 5 September Teachers day Celebration Practical 5: Write a program to solve water jug problem. 7 th September Janmashtmi |
| September | 2 nd week | 11-9-2023 16-9-2023 | 2 | ATKT Exams of Sem-II & Sem – IV Adversarial Search Design the simulation of tic – tac – toe game using min-max algorithm. |
| September | 3 rd Week | 18-9-2023 23-9-2023 | 0 | 19 th Sept to 23 rd Sept Ganpati Festival |
| September | 4 th week | 25-9-2023 30-9-2023 | 3 | 28 th Sept Anant Chaturdashi & Eid-E-Milad Practical 6: Write a program to solve Missionaries and Cannibals problem. |
| October | 1 st week | 2-10-2023 7-10-2023 | 3 | 2 Oct Gandhi Jayanti Design an application to simulate number puzzle problem. |
| | 2 st week | 9-10-2023 14-10-2023 | 3 | Write a program to shuffle Deck of cards. Intelligent Agents |
| | 3 rd week | 16-10-2023 21-10-2023 | 3 | Practical 7: Solve traveling salesman problem using artificial intelligence technique. |
| | 4 th week | 23-10-2023 28-10-2023 | 3 | 24 th Oct Dussehra (Regular exam Sem-III) Practical; 8: Solve the block of World problem. |
| November | 1 st week | 30-10-2023 04-11-2023 | 3 | Solve constraint satisfaction problem |
| | 2 nd week | 06-11-2023 11-11-2023 | 3 | 10 th November Dhanteras EXAMS |
| | 3 rd Week | 13-11-2023 27-11-2023 | 0 | 13 th November to 27 th November Diwali Vacation |

Eknath B Madhavi Senior College, Dombivli

Teaching Plan

Academic Year: 2023-24

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| Name of the Teacher : MS.NEHA KHORE | Faculty | Course : BSCIT |
| Department : BSCIT | | |

Class : TYBSCIT

Sub:AWP

| Month | Week | Dates of the week | No of the lectures | Topic |
|--------|----------------------|------------------------|--------------------|---|
| June | 3 rd Week | 19-6-2023 24-6-2023 | 3 | Reopening of S.Y and T.Y. B.Com 21 st June Yoga day Celebration Introducing .NET |
| June | 4 th week | 26-6-2023 01-7-2023 | 3 | 29 th June Holiday on account of Bakri Id The C# Language Practical 1:..Demonstrate the use of Calendar control to perform following operations. |
| July | 1 st week | 03-7-2023 08-7-2023 | 3 | 6 th July Ashadi Ekadashi and Guru Purnima Day celebration Types OF AWP |
| July | 2 nd week | 10-7-2023 15-7-2023 | 3 | Objects of AWP Practical 2.Demonstrate the use of Treeview control perform following operations. |
| July | 3 rd Week | 17-7-2023 22-7-2023 | 3 | Namespaces Practical 3:Create Web Form to demonstrate use of Adrotator Control. |
| July | 4 th week | 24-7-2023 29-7-2023 | 3 | 29 th July Muharram Holiday Web Form Fundamentals |
| August | 1 st week | 31-7-2023 5-8-2023 | 3 | Form Controls |
| August | 2 nd week | 7-8-2023 12-8-2023 | 3 | Error Handling |
| August | 3 rd Week | 14-8-2023 19-8-2023 | 3 | 15 TH August independence day Logging 16 th August parsi new year |
| August | 4 th week | 21-8-2023 | 3 | Tracing |

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| | | 26-8-2023 | | |
| August | 5th week | 28-8-2023 02-9-2023 | 3 | 30th August Raksha Bandhan State Management |
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| September | 1st week | 4-9-2023 9-9-2023 | 3 | 5 September Teachers day Celebration Styles 7th September Janmashtmi |
| September | 2nd week | 11-9-2023 16-9-2023 | 2 | ATKT Exams of Sem-II & Sem – IV Themes |
| September | 3rd Week | 18-9-2023 23-9-2023 | 0 | 19th Sept to 23rd Sept Ganpati Festival |
| September | 4th week | 25-9-2023 30-9-2023 | 3 | 28th Sept Anant Chaturdashi & Eid-E-Milad ADO.NET Fundamentals |
| | | | | |
| October | 1st week | 2-10-2023 7-10-2023 | 3 | 2 Oct Gandhi Jayanti |
| | 2st week | 9-10-2023 14-10-2023 | 3 | Master Pages |
| | 3rd week | 16-10-2023 21-10-2023 | 3 | Data Binding |
| | 4th week | 23-10-2023 28-10-2023 | 3 | 24th Oct Dussehra (Regular exam Sem-III) XML |
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| November | 1st week | 30-10-2023 04-11-2023 | 3 | The Data Controls |
| | 2nd week | 06-11-2023 11-11-2023 | 3 | 10th November Dhanteras Security Fundamentals |
| | 3rd Week | 13-11-2023 27-11-2023 | 3 | 13th November to 27th November Diwali Vacation ASP.NET AJAX |

Eknath B Madhavi Senior College, Dombivli

Teaching Plan

Academic Year: 2023-24

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| Name of the Teacher : VIJAY KOTHAWADE | Faculty | Course : IT |
| Department : IT | EJ | |

Class : TYBSCIT

Month JUNE -NOVEMBER

| Month | Week | Dates of the week | No of the lectures | Topic |
|--------|----------------------|------------------------|--------------------|--|
| June | 3 rd Week | 19-6-2023 24-6-2023 | 3 | Reopening of S.Y and T.Y. B.Com 21 st June Yoga day Celebration Understanding Java EE |
| June | 4 th week | 26-6-2023 01-7-2023 | 3 | 29 th June Holiday on account of Bakri Id Java EE Architecture, Server and Containers Create a simple calculator application using servlet |
| July | 1 st week | 03-7-2023 08-7-2023 | 3 | 6 th July Ashadi Ekadashi and Guru Purnima Day celebration Introduction to Java Servlets |
| July | 2 nd week | 10-7-2023 15-7-2023 | 3 | Using Request Dispatcher Interface create a Servlet which will validate the password |
| July | 3 rd Week | 17-7-2023 22-7-2023 | 3 | Create a Servlet application to upload and download a file. |
| July | 4 th week | 24-7-2023 29-7-2023 | 3 | 29 th July Muharram Holiday Develop a simple JSP application to display values obtained from the use of intrinsic objects of various types |
| August | 1 st week | 31-7-2023 5-8-2023 | 3 | Implicit Objects, Scope and El Expressions |
| August | 2 nd week | 7-8-2023 12-8-2023 | 3 | Create an html page with fields, eno, name, age, desg, salary. Now on submit this data |
| August | 3 rd Week | 14-8-2023 19-8-2023 | 3 | 15 TH August independence day 16 th August parsi new year JSP page which will update the employee |

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| | | | | table of database with matching eno. |
| August | 4 th week | 21-8-2023 26-8-2023 | 3 | Introduction To Enterprise Javabeans |
| August | 5 th week | 28-8-2023 02-9-2023 | 3 | 30 th August Raksha Bandhan Working with Session Beans Create a Currency Converter application using EJB. |
| | | | | |
| September | 1 st week | 4-9-2023 9-9-2023 | 3 | 5 September Teachers day Celebration 7 th September Janmashtmi Working with Message Driven Beans |
| September | 2 nd week | 11-9-2023 16-9-2023 | 2 | ATKT Exams of Sem-II & Sem – IV Java Naming and Directory Interface |
| September | 3 rd Week | 18-9-2023 23-9-2023 | 0 | 19 th Sept to 23 rd Sept Ganpati Festival |
| September | 4 th week | 25-9-2023 30-9-2023 | 3 | 28 th Sept Anant Chaturdashi & Eid-E-Milad Persistence, Object/Relational Mapping And JPA |
| | | | | |
| October | 1 st week | 2-10-2023 7-10-2023 | 3 | 2 Oct Gandhi Jayanti Introduction to Java Persistence API |
| | 2 st week | 9-10-2023 14-10-2023 | 3 | Develop simple EJB application to demonstrate Servlet Hit count using Singleton Session Beans |
| | 3 nd week | 16-10-2023 21-10-2023 | 3 | Writing JPA Application |
| | 4 th week | 23-10-2023 28-10-2023 | 3 | 24 th Oct Dussehra (Regular exam Sem-III) Introduction to Hibernate Develop a simple Inventory Application Using JPA. |
| | | | | |
| November | 1 st week | 30-10-2023 04-11-2023 | 3 | Action Elements Develop a simple Inventory Application Using JPA. |
| | 2 nd week | 06-11-2023 11-11-2023 | 3 | 10 th November Dhanteras |
| | 3 rd Week | 13-11-2023 27-11-2023 | 3 | 13 th November to 27 th November Diwali Vacation |

Teaching Plan

Academic Year: 2023-24

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| Name of the Teacher : Ravikant sir | Faculty | Course :BSCIT |
| Department : BSC IT | | |

Class : TYBSC IT

SUB:IOT

| Month | Week | Dates of the week | No of the lectures | Topic |
|--------|----------------------|------------------------|--------------------|---|
| June | 3 rd Week | 19-6-2023 24-6-2023 | 3 | Reopening of S.Y and T.Y. B.Com The Internet of Things: An Overview. 21 st June Yoga day Celebration |
| June | 4 th week | 26-6-2023 01-7-2023 | 3 | 29 th June Holiday on account of Bakri Id Design Principles for Connected Devices. |
| July | 1 st week | 03-7-2023 08-7-2023 | 3 | 6 th July Ashadi Ekadashi and Guru Purnima Day celebration Internet Principles. Practical 1: Displaying different LED patterns with Raspberry Pi. |
| July | 2 nd week | 10-7-2023 15-7-2023 | 3 | Address Assignment, Dynamic IP Address Assignment. |
| July | 3 rd Week | 17-7-2023 22-7-2023 | 3 | Thinking About Prototyping. Practical 2: Displaying Time over 4-Digit 7-Segment Display using Raspberry Pi. |
| July | 4 th week | 24-7-2023 29-7-2023 | 3 | 29 th July Muharram Holiday Physical Prototypes and Mass Personalisation |
| August | 1 st week | 31-7-2023 5-8-2023 | 3 | Prototyping Embedded Devices. Practical 3:Raspberry Pi Based Oscilloscope. |
| August | 2 nd week | 7-8-2023 12-8-2023 | 3 | Some Notes on the Hardware. Practical 4: Controlling Raspberry Pi with WhatsApp. |
| August | 3 rd Week | 14-8-2023 19-8-2023 | 3 | 15 TH August independence day Prototyping the Physical Design. 16 th August parsi new year |
| August | 4 th week | 21-8-2023 26-8-2023 | 3 | CNC Milling, Repurposing/Recycling. Practical 5: Setting up Wireless Access Point using Raspberry Pi. |
| August | 5 th week | 28-8-2023 02-9-2023 | 3 | 30 th August Raksha Bandhan Prototyping Online Components. |

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| September | 1 st week | 4-9-2023 9-9-2023 | 3 | 5 September Teachers day Celebration Using Curl to Test. Practical 6: Fingerprint Sensor interfacing with Raspberry Pi. 7 th September Janmashtmi |
| September | 2 nd week | 11-9-2023 16-9-2023 | 2 | ATKT Exams of Sem-II & Sem – IV Types of Memory. |
| September | 3 rd Week | 18-9-2023 23-9-2023 | 0 | 19 th Sept to 23 rd Sept Ganpati Festival |
| September | 4 th week | 25-9-2023 30-9-2023 | 3 | 28 th Sept Anant Chaturdashi & Eid-E-Milad Techniques for Writing Embedded Code. |
| | | | | |
| October | 1 st week | 2-10-2023 7-10-2023 | 3 | 2 Oct Gandhi Jayanti Business Models. Practical 7: Raspberry Pi GPS Module Interfacing. |
| | 2 st week | 9-10-2023 14-10-2023 | 3 | Funding an Internet of Things Startup. Practical 8: IoT based Web Controlled Home Automation using Raspberry Pi. |
| | 3 rd week | 16-10-2023 21-10-2023 | 3 | Moving to Manufacture. Practical 9: Visitor Monitoring with Raspberry Pi and Pi Camera |
| | 4 th week | 23-10-2023 28-10-2023 | 3 | 24 th Oct Dussehra (Regular exam Sem-III) Manufacturing Printed Circuit Boards. |
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| November | 1 st week | 30-10-2023 04-11-2023 | 3 | Certification, Costs, Scaling Up Software. Practical 10: Interfacing Raspberry Pi with RFID. |
| | 2 nd week | 06-11-2023 11-11-2023 | 3 | 10 th November Dhanteras Ethics: Characterizing the Internet of Things. |
| | 3 rd Week | 13-11-2023 27-11-2023 | 0 | 13 th November to 27 th November Diwali Vacation |

Eknath B Madhavi Senior College, Dombivli

Teaching Plan

Academic Year: 2023-24

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| Name of the Teacher : vijay kothavde | Faculty | Course : BSCIT |
| Department : BSCIT | | |

Class : TYBSC-IT

Sub-software project management

| Month | Week | Dates of the week | No of the lectures | Topic |
|--------|----------------------|------------------------|--------------------|--|
| June | 3 rd Week | 19-6-2023 24-6-2023 | 3 | Reopening of S.Y and T.Y. B.Com Introduction to Software Project Management 21 st June Yoga day Celebration |
| June | 4 th week | 26-6-2023 01-7-2023 | 3 | 29 th June Holiday on account of Bakri Id Project Evaluation and Programme Management |
| July | 1 st week | 03-7-2023 08-7-2023 | 3 | 6 th July Ashadi Ekadashi and Guru Purnima Day celebration Creating a Programme, Aids to Programme Management |
| July | 2 nd week | 10-7-2023 15-7-2023 | 3 | An Overview of Project Planning |
| July | 3 rd Week | 17-7-2023 22-7-2023 | 3 | Selection of an Appropriate Project Approach. |
| July | 4 th week | 24-7-2023 29-7-2023 | 3 | 29 th July Muharram Holiday Lean Software Development, Managing Iterative Processes. |
| August | 1 st week | 31-7-2023 5-8-2023 | 3 | Software Effort Estimation. |
| August | 2 nd week | 7-8-2023 12-8-2023 | 3 | The Top-down Approach and Parametric Models. |
| August | 3 rd Week | 14-8-2023 19-8-2023 | 3 | 15 TH August independence day Activity Planning. 16 th August parsi new year |
| August | 4 th week | 21-8-2023 26-8-2023 | 3 | Identifying Critical Activities, Activity-on- Arrow |

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| | | | | Networks. |
| Identifying Critical Activities, Activity-on-Arrow Networks. | 5 th week | 28-8-2023 02-9-2023 | 3 | 30 th August Raksha Bandhan Risk Management. |
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| September | 1 st week | 4-9-2023 9-9-2023 | 3 | 5 September Teachers day Celebration 7 th September Janmashtmi Resource Allocation. |
| September | 2 nd week | 11-9-2023 16-9-2023 | 2 | ATKT Exams of Sem-II & Sem – IV Resource Allocation. |
| September | 3 rd Week | 18-9-2023 23-9-2023 | 0 | 19 th Sept to 23 rd Sept Ganpati Festival Managing Contracts. |
| September | 4 th week | 25-9-2023 30-9-2023 | 3 | 28 th Sept Anant Chaturdashi & Eid-E-Milad Managing People in Software Environments. |
| | | | | |
| October | 1 st week | 2-10-2023 7-10-2023 | 3 | 2 Oct Gandhi Jayanti The Oldham–Hackman Job Characteristics Model. |
| | 2 st week | 9-10-2023 14-10-2023 | 3 | Working in Teams: Introduction. |
| | 3 rd week | 16-10-2023 21-10-2023 | 3 | Dispersed and Virtual Teams. |
| | 4 th week | 23-10-2023 28-10-2023 | 3 | 24 th Oct Dussehra (Regular exam Sem-III) Software Quality. |
| | | | | |
| November | 1 st week | 30-10-2023 04-11-2023 | 3 | Importance of Software Quality. |
| | 2 nd week | 06-11-2023 11-11-2023 | 3 | 10 th November Dhanteras Project Closeout. |
| | 3 rd Week | 13-11-2023 27-11-2023 | 0 | 13 th November to 27 th November Diwali Vacation |

Eknath B Madhavi Senior College, Dombivli

Teaching Plan

Academic Year: 2023-24

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| Name of the Teacher : RAVIKANT AHIRE | Faculty | Course : IT |
| Department : IT | SUB-BUSINESS INTELLIGENT | |

Class : TYBSCIT

Month NONEMBER APRIL

| Month | Week | Dates of the week | No of the lectures | Topic |
|----------|----------------------|--------------------------|--------------------|--|
| November | 4 th week | 28-11-2023 30-11-2023 | 3 | Re-opening of College Business intelligence: Effective and timely decisions, Data, information and knowledge, |
| December | 1 st week | 01-12-2023 02-12-2023 | 3 | Exams of 1 st year students The role of mathematical models, Business intelligence architectures, Ethics and business intelligence |
| | 2 nd week | 04-12-2023 09-12-2023 | 3 | Exams of 1 st year students Decision support systems: Practical 1: Import the legacy data from different sources such as (Excel, SqlServer, Oracle etc.) and load in the target system. |
| | 3 rd week | 11-12-2023 16-12-2023 | 3 | Definition of system, Representation of the decision-making process, Evolution of information systems |
| | 4 th week | 18-12-2023 23-12-2023 | 3 | Definition of decision support system, Development of a decision support system |
| | 5 th week | 25-12-2023 30-12-2023 | 0 | Christmas Vacation |
| January | 1 st week | 02-01-2024 06-01-2024 | 3 | Cultural activities from 4 th Jan, 2024 to 13 th Jan, 2024 Mathematical models for decision making: Structure of mathematical models, |
| | 2 nd week | 08-01-2024 13-01-2024 | 3 | Cultural and sports activities Development of a model, Classes of models |

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| | | | | Practical 3: Data Visualization from ETL Process |
| | 3 rd week | 15-01-2024 20-01-2024 | 3 | 15 th January, Makar Sankranti Data mining: Definition of data mining, Representation of input data , Data mining process, Analysis methodologies 20 th January, Annual Sports Day |
| | 4 th week | 22-01-2024 27-01-2024 | 3 | 22 th January, Lord Shri Ram Mandir Pran Pratistha 24 th January, Distribution of Regular & ATKT Marksheets 26 th January, Republic Day Celebration Data preparation: |
| | 5 th week | 29-01-2024 31-01-2024 | 3 | Data validation, Data transformation, Data reduction Practical 4: Creating a Cube in SQL server 2012 |
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| February | 1 st week | 01-02-2024 03-02-2024 | | Classification: Classification problems, Evaluation of classification Practical 5: Apply the what – if Analysis for data visualization. Design and generate necessary reports based on the data warehouse data. |
| | 2 nd week | 05-02-2024 10-02-2024 | 3 | 6 th February, Form filling of Regular & ATKT exams Bayesian methods, Logistic regression, Neural networks, Support vector machines 10 th February, Prize distribution (Tentative) |
| | 3 rd week | 12-02-2024 17-02-2024 | 3 | Clustering: Clustering methods, Partition methods, Hierarchical methods, Evaluation of clustering models |
| | 4 th week | 19-02-2024 24-02-2024 | 3 | 19 th February, Shivaji Jayanti Practical 6: Implementation of Classification algorithm in R Programming. |
| | 5 th week | 26-02-2024 29-02-2024 | 3 | Business intelligence applications Marketing models: Relational marketing, Sales force management, |
| | | | | |
| March | 1 st week | 01-03-2024 02-03-2024 | 3 | Marketing models: Relational marketing, Sales force management, |
| | 2 nd week | 04-03-2024 09-03-2024 | 3 | 8 th March, Mahashivratri Logistic and production models: Supply chain optimization, |

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| | 3 rd week | 11-03-2024 16-03-2024 | 3 | Optimization models for logistics planning, Revenue management systems. |
| | 4 th week | 18-03-2024 23-03-2024 | 3 | Data envelopment analysis: Efficiency measures, Efficient frontier, The CCR model, Identification of good operating practices |
| | 5 th week | 25-03-2024 30-03-2024 | 3 | 25 th March, Holi Data envelopment analysis: Efficiency measures, Efficient frontier, The CCR model, Identification of good operating practices 29 th March, Good Friday |
| April | 1 st week | 01-04-2024 06-04-2024 | 3 | Knowledge Management: Introduction Practical 7: Practical Implementation of Decision Tree using R Tool |
| | 2 nd week | 08-04-2024 13-04-2024 | 3 | 9 th April, Gudi Padwa 11 th April, Ramzan Eid Information Technology (IT) In Knowledge Management, Knowledge Management Systems Implementation, Roles of People in Knowledge Management |
| | 3 rd week | 15-04-2024 20-04-2024 | 3 | 17 th April, Ram Navmi Systems Implementation, Roles of People in Knowledge Management Artificial Intelligence and Expert Systems: Concepts and Definitions of Artificial Intelligence, Artificial Intelligence |
| | 4 th week | 22-04-2024 27-04-2024 | 3 | EXAMS |
| | 5 th week | 29-04-2024 30-04-2024 | 3 | EXAMS |

Eknath B Madhavi Senior College, Dombivli

Teaching Plan

Academic Year: 2023-24

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| Name of the Teacher : MR.PRASAD UMARJI | Faculty | Course : IT |
| Department : IT | SUB-ITSM | |

Class : TYBSCIT

Month NOVEMBER -APRIL

| Month | Week | Dates of the week | No of the lectures | Topic |
|----------|----------------------|--------------------------|--------------------|---|
| November | 4 th week | 28-11-2023 30-11-2023 | 3 | Re-opening of College IT Service Management: Introduction, What is service management? What are services? Business Process, |
| December | 1 st week | 01-12-2023 02-12-2023 | 3 | Exams of 1 st year students The agency principle, Encapsulation, Principles of systems, The service Life Cycle, Functions |
| | 2 nd week | 04-12-2023 09-12-2023 | 3 | Exams of 1 st year students Service Strategy Principles: Value creation, Service Assets, Service Provider Service Structures, Service Strategy Principles. |
| | 3 rd week | 11-12-2023 16-12-2023 | 3 | Service Strategy: Define the market, Develop the offerings, Develop Strategic Assets, Prepare for execution. |
| | 4 th week | 18-12-2023 23-12-2023 | 3 | Challenges, Critical Success factors and risks: Complexity, Coordination and Control, Preserving value, Effectiveness in measurement, Risks. |
| | 5 th week | 25-12-2023 30-12-2023 | 0 | Christmas Vacation |
| January | 1 st week | 02-01-2024 06-01-2024 | 3 | Cultural activities from 4 th Jan, 2024 to 13 th Jan, 2024 Service Design: Fundamentals, Service Design Principles: Goals, Balanced Design, Identifying Service requirements, identifying and documenting business requirements and |

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| | | | | drivers, |
| | 2 nd week | 08-01-2024 13-01-2024 | 3 | Cultural and sports activities Design constraints, Service oriented architecture, Business Service Management, |
| | 3 rd week | 15-01-2024 20-01-2024 | 3 | 15 th January, Makar Sankranti Service Design Processes: Service Catalogue Management, Service Level Management, Capacity Management, Availability Management, IT Service Continuity Management, 20 th January, Annual Sports Day |
| | 4 th week | 22-01-2024 27-01-2024 | 3 | 22 th January, Lord Shri Ram Mandir Pran Pratistha 24 th January, Distribution of Regular & ATKT Marksheets 26 th January, Republic Day Celebration Challenges, Critical Success factors and risks: Challenges, Risks |
| | 5 th week | 29-01-2024 31-01-2024 | 3 | Service Transition: Fundamentals, Service Transition Principles: |
| | | | | |
| February | 1 st week | 01-02-2024 03-02-2024 | 3 | Service Transition Processes: Transition planning and support, Change Management, Service Asses Configuration Management, Service and Deployment Management, |
| | 2 nd week | 05-02-2024 10-02-2024 | 3 | 6 th February, Form filling of Regular & ATKT exams Challenges, Critical Success factors and risks: Challenges, Critical 10 th February, Prize distribution (Tentative) |
| | 3 rd week | 12-02-2024 17-02-2024 | 3 | Service Operation: Fundamentals, Service Operation Principles: Functions, groups, teams, departments and divisions, a chieving balance in service operations, |
| | 4 th week | 19-02-2024 24-02-2024 | 3 | 19 th February, Shivaji Jayanti Providing service, Operation staff involvement in service design and service transition, |
| | 5 th week | 26-02-2024 29-02-2024 | 3 | Service Operation Processes: Event Management, Incident Management, |
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| March | 1 st week | 01-03-2024 02-03-2024 | 3 | Challenges, Critical Success factors and risks: Challenges, Critical |

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| | | | | Success factors, Risks |
| | 2 nd week | 04-03-2024 09-03-2024 | 3 | 8 th March, Mahashivratri Continual Service Improvement(CSI) Principles: CSI Approach, CSI and organizational change, Ownership, CSI |
| | 3 rd week | 11-03-2024 16-03-2024 | 3 | CSI and other service management processes, Organising for CSI: Organisational |
| | 4 th week | 18-03-2024 23-03-2024 | 3 | Technology considerations: Tools to support CSI activities. |
| | 5 th week | 25-03-2024 30-03-2024 | 3 | 25 th March, Holi 29 th March, Good Friday Implementing CSI: Critical Considerations for implementing CSI, |
| | | | | |
| April | 1 st week | 01-04-2024 06-04-2024 | 3 | The start, Governance, CSI and organisational change, Communication Strategy and Plan |
| | 2 nd week | 08-04-2024 13-04-2024 | 3 | 9 th April, Gudi Padwa 11 th April, Ramzan Eid Service Transition Processes: Transition planning and support, Change Management, Service Asses Configuration |
| | 3 rd week | 15-04-2024 20-04-2024 | 3 | 17 th April, Ram Navmi Service Transition Processes: Transition planning and support, Change Management, Service Asses Configuration |
| | 4 th week | 22-04-2024 27-04-2024 | 3 | EXAMS |
| | 5 th week | 29-04-2024 30-04-2024 | 3 | EXAMS |

Eknath B Madhavi Senior College, Dombivli

Teaching Plan

Academic Year: 2023-24

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| Name of the Teacher : RAVIKANT AHIRE | Faculty | Course : IT |
| Department : IT | SUB-Principles of Geographic Information | |

Class : TYBSCIT

Month NOVEMBER- APRIL

| Month | Week | Dates of the week | No of the lectures | Topic |
|----------|----------------------|--------------------------|--------------------|--|
| November | 4 th week | 28-11-2023 30-11-2023 | 3 | Re-opening of College A Gentle Introduction to GIS Familiarizing Quantum GIS: Installation of QGIS, datasets for both Vector and Raster data, Maps. |
| December | 1 st week | 01-12-2023 02-12-2023 | 3 | Exams of 1 st year students The nature of GIS: Some fundamental observations, Defining GIS, GISystems, GIScience and GIApplications, |
| | 2 nd week | 04-12-2023 09-12-2023 | 3 | Exams of 1 st year students The real world and representations of it: Models and modelling, Maps Creating and Managing Vector Data: Adding vector layers, setting properties, formatting, calculating line lengths and statistics |
| | 3 rd week | 11-12-2023 16-12-2023 | 3 | Geographic Information and Spatial Database Models and Representations of the real world |
| | 4 th week | 18-12-2023 23-12-2023 | 3 | Geographic Phenomena: Defining geographic phenomena, types of geographic phenomena, Geographic fields, Working with attributes, terrain Data |
| | 5 th week | 25-12-2023 30-12-2023 | 0 | Christmas Vacation |
| January | 1 st week | 02-01-2024 06-01-2024 | 3 | Cultural activities from 4 th Jan, 2024 to 13 th Jan, 2024 Computer Representations of Geographic Information: Regular tessellations, irregular tessellations, |

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|----------|----------------------|--------------------------|---|--|
| | 2 nd week | 08-01-2024 13-01-2024 | 3 | Cultural and sports activities Vector representations, Topology and Spatial relationships, Scale and Resolution, |
| | 3 rd week | 15-01-2024 20-01-2024 | 3 | 15 th January, Makar Sankranti Organizing and Managing Spatial Data 20 th January, Annual Sports Day Working with Projections and WMS Data |
| | 4 th week | 22-01-2024 27-01-2024 | 3 | 22 th January, Lord Shri Ram Mandir Pran Pratistha 24 th January, Distribution of Regular & ATKT Marksheets 26 th January, Republic Day Celebration Data Management and Processing Systems Hardware and Software Trends |
| | 5 th week | 29-01-2024 31-01-2024 | 3 | Geographic Information Systems: GIS Software, GIS Architecture and functionality, Spatial Data Infrastructure (SDI) |
| | | | | |
| February | 1 st week | 01-02-2024 03-02-2024 | 3 | Stages of Spatial Data handling: Spatial data handling and preparation, Spatial Data Storage and maintenance, Spatial Query and Analysis, Spatial Data Presentation. |
| | 2 nd week | 05-02-2024 10-02-2024 | 3 | 6 th February, Form filling of Regular & ATKT exams 10 th February, Prize distribution (Tentative) Database management Systems: Reasons for using a DBMS, Alternatives for data management, |
| | 3 rd week | 12-02-2024 17-02-2024 | 3 | GIS and Spatial Databases: Linking GIS and DBMS, Spatial database functionality. |
| | 4 th week | 19-02-2024 24-02-2024 | 3 | 19 th February, Shivaji Jayanti |
| | 5 th week | 26-02-2024 29-02-2024 | 3 | Spatial Referencing and Positioning Spatial Referencing: Reference surfaces for mapping, |
| | | | | |
| March | 1 st week | 01-03-2024 02-03-2024 | 3 | Coordinate Systems, Map Projections, Coordinate Transformations |
| | 2 nd week | 04-03-2024 09-03-2024 | 3 | 8 th March, Mahashivratri Satellite-based Positioning: Absolute positioning, Errors in absolute positioning, |

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|-------|----------------------|--------------------------|---|---|
| | 3 rd week | 11-03-2024 16-03-2024 | 3 | Relative positioning, Network positioning, code versus phase measurements, Positioning technology |
| | 4 th week | 18-03-2024 23-03-2024 | 3 | Data Entry and Preparation Spatial Data Input: Direct spatial data capture, Indirect spatial data capture, Obtaining spatial data elsewhere |
| | 5 th week | 25-03-2024 30-03-2024 | 3 | 25 th March, Holi 29 th March, Good Friday Spatial Data Analysis Classification of analytical GIS Capabilities Retrieval, classification and measurement: |
| | | | | |
| April | 1 st week | 01-04-2024 06-04-2024 | 3 | Data Visualization GIS and Maps, The Visualization Process Visualization Strategies: Present or explore? |
| | 2 nd week | 08-04-2024 13-04-2024 | 3 | 9 th April, Gudi Padwa 11 th April, Ramzan Eid The cartographic toolbox: What kind of data do I have? How can I map my data? |
| | 3 rd week | 15-04-2024 20-04-2024 | 3 | 17 th April, Ram Navmi How to map? How to map qualitative data, How to map quantitative data, How to map the terrain elevation, How to map time series |
| | 4 th week | 22-04-2024 27-04-2024 | 3 | |
| | 5 th week | 29-04-2024 30-04-2024 | 3 | |

Eknath B Madhavi Senior College, Dombivli

Teaching Plan

Academic Year: 2023-24

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|-------------------------------------|---------|-------------|
| Name of the Teacher : Ms.Neha Khore | Faculty | Course : IT |
| Department : IT | | |

Class : TYBSCIT

Month NOVEMBER-APRIL

| Month | Week | Dates of the week | No of the lectures | Topic |
|----------|----------------------|--------------------------|--------------------|---|
| November | 4 th week | 28-11-2023 30-11-2023 | 3 | Re-opening of College Information Security Overview Configure, Apply and Verify an Extended Numbered ACL |
| December | 1 st week | 01-12-2023 02-12-2023 | 3 | Exams of 1 st year students Configure Routers |
| | 2 nd week | 04-12-2023 09-12-2023 | 3 | Exams of 1 st year students Risk Analysis |
| | 3 rd week | 11-12-2023 16-12-2023 | 3 | Secure Design Principles Verify connectivity among devices before firewall configuration. |
| | 4 th week | 18-12-2023 23-12-2023 | 3 | Authentication and Authorization Configuring a Zone-Based Policy Firewall |
| | 5 th week | 25-12-2023 30-12-2023 | 0 | Christmas Vacation |
| January | 1 st week | 02-01-2024 06-01-2024 | 3 | Cultural activities from 4 th Jan, 2024 to 13 th Jan, 2024 Encryption |
| | 2 nd week | 08-01-2024 13-01-2024 | 3 | Cultural and sports activities Encryption Secure spanning-tree parameters to prevent STP manipulation attacks. |
| | 3 rd week | 15-01-2024 20-01-2024 | 3 | 15 th January, Makar Sankranti 20 th January, Annual Sports Day Storage Security |
| | 4 th week | 22-01-2024 27-01-2024 | 3 | 22 th January, Lord Shri Ram Mandir Pran Pratistha 24 th January, Distribution of Regular & ATKT Marksheets 26 th January, Republic Day Celebration Database Security |

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|----------|----------------------|--------------------------|---|---|
| | 5 th week | 29-01-2024 31-01-2024 | 3 | Secure Network Design Configure and Verify a Site-to-Site IPsec VPN Using CLI |
| February | 1 st week | 01-02-2024 03-02-2024 | | Network Device Security Configuring ASA Basic Settings and Firewall Using CLI |
| | 2 nd week | 05-02-2024 10-02-2024 | 3 | 6 th February, Form filling of Regular & ATKT exams 10 th February, Prize distribution (Tentative) Firewalls |
| | 3 rd week | 12-02-2024 17-02-2024 | 3 | Wireless Network Security Configure basic ASA settings and interface security levels using CLI |
| | 4 th week | 19-02-2024 24-02-2024 | 3 | 19 th February, Shivaji Jayanti Intrusion Detection and Prevention System |
| | 5 th week | 26-02-2024 29-02-2024 | 3 | Voice over IP (VoIP) and PBX Security |
| March | 1 st week | 01-03-2024 02-03-2024 | 3 | Operating System Security Models |
| | 2 nd week | 04-03-2024 09-03-2024 | 3 | 8 th March, Mahashivratri Virtual Machines and Cloud Computing |
| | 3 rd week | 11-03-2024 16-03-2024 | 3 | Secure Application Design |
| | 4 th week | 18-03-2024 23-03-2024 | 3 | Physical Security |
| | 5 th week | 25-03-2024 30-03-2024 | 3 | 25 th March, Holi 29 th March, Good Friday |
| April | 1 st week | 01-04-2024 06-04-2024 | 3 | Configure a local user account on Router and configure authenticate on the console and vty lines using local AAA |
| | 2 nd week | 08-04-2024 13-04-2024 | 3 | 9 th April, Gudi Padwa 11 th April, Ramzan Eid |
| | 3 rd week | 15-04-2024 20-04-2024 | 3 | 17 th April, Ram Navmi |
| | 4 th week | 22-04-2024 27-04-2024 | 3 | |
| | 5 th week | 29-04-2024 30-04-2024 | 3 | |

Ekmath B Madhavi Senior College, Dombivli

Teaching Plan

Academic Year: 2023-24

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| Name of the Teacher : MR. VIJAY KOTHAWADE | Faculty | Course : IT |
| Department : IT | | |

Class : TYBSCIT

Month NOVEMBER -APRIL

| Month | Week | Dates of the week | No of the lectures | Topic |
|----------|----------------------|--------------------------|--------------------|--|
| November | 4 th week | 28-11-2023 30-11-2023 | 3 | Re-opening of College Introduction to Quality |
| December | 1 st week | 01-12-2023 02-12-2023 | 3 | Exams of 1 st year students Software Quality |
| | 2 nd week | 04-12-2023 09-12-2023 | 3 | Exams of 1 st year students Describe the Systems Development Life Cycle (SDLC). |
| | 3 rd week | 11-12-2023 16-12-2023 | 3 | Perform and evaluate feasibility studies like cost-benefit analysis, technical feasibility, time feasibility and Operational feasibility for the project. |
| | 4 th week | 18-12-2023 23-12-2023 | 3 | Evaluate methods of process description to include structured English, decision tables and decision trees. |
| | 5 th week | 25-12-2023 30-12-2023 | 0 | Christmas Vacation |
| January | 1 st week | 02-01-2024 06-01-2024 | 3 | Cultural activities from 4 th Jan, 2024 to 13 th Jan, 2024 Fundamentals of testing Design and evaluate validity checks for input data. |
| | 2 nd week | 08-01-2024 13-01-2024 | 3 | Cultural and sports activities Unit Testing-Boundary Value Testing |
| | 3 rd week | 15-01-2024 20-01-2024 | 3 | 15 th January, Makar Sankranti Equivalence Class Testing 20 th January, Annual Sports Day |
| | 4 th week | 22-01-2024 27-01-2024 | 3 | 22 th January, Lord Shri Ram Mandir Pran Pratistha |

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|----------|----------------------|--------------------------|---|---|
| | | | | Decision Table–Based Testing 24 th January, Distribution of Regular & ATKT Marksheets 26 th January, Republic Day Celebration |
| | 5 th week | 29-01-2024 31-01-2024 | 3 | Path Testing PROJECT REPORT |
| February | 1 st week | 01-02-2024 03-02-2024 | 3 | Brief the maintenance procedures and the role of configuration management in operations. |
| | 2 nd week | 05-02-2024 10-02-2024 | 3 | 6 th February, Form filling of Regular & ATKT exams Data Flow Testing 10 th February, Prize distribution (Tentative) |
| | 3 rd week | 12-02-2024 17-02-2024 | 3 | Software Verification and Validation Develop of the ability to assess the implications of work performed. |
| | 4 th week | 19-02-2024 24-02-2024 | 3 | 19 th February, Shivaji Jayanti V-test Model |
| | 5 th week | 26-02-2024 29-02-2024 | 3 | Levels of Testing |
| March | 1 st week | 01-03-2024 02-03-2024 | 3 | Special Tests REQUIREMENTS AND ANALYSIS |
| | 2 nd week | 04-03-2024 09-03-2024 | 3 | 8 th March, Mahashivratri IMPLEMENTATION AND TESTING |
| | 3 rd week | 11-03-2024 16-03-2024 | 3 | RESULTS AND DISCUSSION |
| | 4 th week | 18-03-2024 23-03-2024 | 3 | EXPLANATION OF CONTENTS |
| | 5 th week | 25-03-2024 30-03-2024 | 3 | 25 th March, Holi 29 th March, Good Friday Figures: List of all Figures, Tables, Graphs, Charts etc. along with their page numbers in a table of figures. |
| April | 1 st week | 01-04-2024 06-04-2024 | 3 | Background: A description of the background and context of the project and its relation to work already done in the area. Summarise existing work in the area concerned with the project work. |
| | 2 nd week | 08-04-2024 13-04-2024 | 3 | 9 th April, Gudi Padwa 11 th April, Ramzan Eid Survey of Technologies |
| | 3 rd week | 15-04-2024 | 3 | 17 th April, Ram Navmi |

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| | | 20-04-2024 | | Summarising the remaining chapters of the project report, in effect, giving the reader an overview of what is to come in the project report. |
| | 4 th week | 22-04-2024 27-04-2024 | 3 | EXAMS |
| | 5 th week | 29-04-2024 30-04-2024 | 3 | EXAMS |