Teaching Plan Academic Year 2019-2020

Name of Teacher: A.K. SHAIKH

Class: B.C.A. S.Y. Semester: III

Course Title: Web Designing & Programming. **Course Code: U-WDP-392**

Unit	Topics To be Covered	Date	No. of Lectures
Unit I	1. **HTML Basics and UI:** Structure of HTML document, Basic Markup Tags, Working with Table, Working with Images, Creating and Handling Frames. Forms: What is Form?, Form Tag, Method, Action, Input Tag, Type Attribute: Check box, Hidden, Image, Radio, Reset, Submit, Text; other <input> tags.	24-06-19 to 16-07-19	13
Unit II	2. **Cascading Style Sheet:** Evolution of CSS, Understanding the CSS Syntax, Exploring CSS Selectors (universal, type, class, id, child, descendant, adjacent sibling), Inserting CSS in an HTML document: The Internal Style Sheet, The External Style Sheet, The Inline Style Sheet, Defining Inheritance in CSS, Backgrounds and Color Gradients, Fonts and Text Styles, Creating Boxes and Columns, Displaying, Positioning, Floating an Element, List Styles, Table Layouts Pseudo-classes and Pseudo-element.	17-07-19 to 11-08-19	11
Unit III	3. **JavaScript:** Client-Side JavaScript, Server-Side JavaScript, JavaScript Objects, JavaScript Security, Operators: Assignment Operators, Comparison Operators, Arithmetic Operators, % (Modulus), ++(Increment), --(Decrement), - (Unary Negation), Logical Operators, Short-Circuit Evaluation, String Operators, Special Operators, ?: (Conditional operator), , (Comma operator), delete, new, this, void Statements: Break, comment, continue, delete, do...while, export, for, for...in, function, if...else, import, Event Handling: Click, Bluer, Mouse Over.	13-08-19 to 09-10-19	15
Unit IV	4. **Jquery and XML:** Fundamentals of jQuery, Loading and using jQuery, jQuery Syntax, jQuery Selectors, Element properties and attributes. Introduction to XML: Anatomy of an XML document, Creating XML Documents	10-10-19 to 24-10-19	13

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Teaching Plan Academic Year 2019-2020

Name of Teacher: A.K. SHAIKH

Class: B.Sc.CS. S.Y. Semester: III

Course Title: Computer Network **Course Code: U-CON-384**

Unit	Topics To be Covered	Date	No. of Lectures
Unit I	**1. Networking Fundamentals And Network Components:** Terminologies Client, Server, Topology, Types of Network. Hierarchical Central Computer, Peer to Peer Network, Client Server Network, Types of Network Topologies.	24-06-19 to 16-07-19	13
	2. Network Components: Types of Cablings- Coaxial, UTP, STP, FOC, Types of Connectors, FOC, Types of Connectors- RJ-45, Terminator, T Connector, BNC, HUB, Switch, Router.		
Unit II	**3.Network Hardware and Components, Protocols & Services.** **Network Hardware and Components:** UTP, STP, Fiber Optics, Hub, Unmanageable Switch, Manageable Switch, Router, Modem, Wi-Fi, Access Point..	17-07-19 to 11-08-19	11
	4 Protocols and Services: HTTP, FTP and other Different types of protocols, Media Access Method, DNS services, DHCP services, WINS services RAS services, Web services, Proxy Services etc.		
Unit III	**5.Device Installation And Diagnostic Tools & PC Maintenance:** Graphics Card, Sound Card, LAN Card, Wireless LAN Card, SCSI Card, External Drive, Flash Cards, Web Camera, CCTV Camera.	13-08-19 to 09-10-19	15
	6. Diagnostic Tools & PC Maintenance: Virus and its types, Effect of Viruses. Utilities for Diagnostic, Safety and Preventive Maintenance Tools, Data Recovery		
Unit IV	**7. Network Introduction & Installation And Network Administration:** Installing Network Operating System Windows 2003 Server and Windows 2008 Server, Cable Crimping, Network Sharing and user Permission, Internet Connection **8. Network Administration:** Troubleshooting, Installing Manageable Switches, Routers, Wi-Fi Device.	10-10-19 to 24-10-19	13

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Teaching Plan Academic Year 2019-2020

Name of Teacher: A.K. SHAIKH

Class: B.Sc.CS. S.Y. **Semester:** IV

Course Title: SOFTWARE ENGINEERING **Course Code:** U-SOE-481

Unit	Topics To be Covered	Date	No. of Lectures
Unit I	1. INTRODUCTION TO SOFTWARE ENGINEERING: The evolving role of software, changing nature of software, software myths. The software problem: Cost, Schedule and quality, scale and change.	16-12-19 to 7-1-20	10
	Process and project, component software process. Software development process models- waterfall model, prototyping , iterative development , relational unified process, time boxing model, Extreme programming and agile process, using	8-1-20 to 16-1-20	7
Unit II	3. SOFTWARE REQUIREMENT ANALYSIS AND SPECIFICATION: Value of good SRS, requirement process, requirement specification, functional specifications with use-cases, other approaches for analysis,validation.	20-1-20 to 29-1-20	7
	4. PLANNING A SOFTWARE PROJECT: Effort estimation, project schedule and staffing, quality planning, risk management plans, project monitoring plan, detailed scheduling.	31-1-20 to 8-2-20	5
Unit III	5. SOFTWARE ARCHITECTURE: Role of software architecture, architecture view, components and connector view, Architecture styles for C and C view , documenting architecture design, evaluating architectures.	10-2-20 to 20-2-20	6
	6. DESIGN: Design concepts, function-oriented design, object oriented design, detailed design, verification, and metrics.	21-2-20 to 15-3-20	8
Unit IV	7. CODING AND UNIT TESTING: Programming principles and guidelines, incrementally developing code, managing evolving code, unit testing ,code inspection and metrics. Testing: Testing concepts, testing process, black-box testing, white-box testing and metrics.	17-3-20 to 29-3-20	12

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Teaching Plan Academic Year 2019-2020

Name of Teacher: A.K. SHAIKH
Class: B.C.A. S.Y. **Semester:** IV

Course Title: SOFTWARE ENGINEERING **Course Code:** U-SOE-490

Unit	Topics To be Covered	Date	No. of Lectures
Unit I	1. Software Engineering Fundamentals: Definition of software, Software characteristics, software applications.	16-12-19 to 7-1-20	10
	2. Software Process: Software Process Models- waterfall model, prototyping model spiral model, incremental model, concurrent model. Project Management Concepts: The management spectrum- the people, the product, the process and the project.	8-1-20 to 16-1-20	7
Unit II	3. Software Process and Project Metrics: Measures, metrics and indicators, software measurement : Size-oriented Metrics , function - oriented metrics, extended function point metrics.	20-1-20 to 29-1-20	7
	4. Software Project Planning: Project planning objectives, software project estimation, and decomposition techniques- problem based estimation, process based estimation, empirical estimation models- the COCOMO Model.	31-1-20 to 8-2-20	5
Unit III	5. Risk Analysis And Management: Software risks, risk identification, risk projection, risk refinement, risk mitigation, monitoring and management.	10-2-20 to 20-2-20	6
	6. Software Quality Assurance: Basic concepts- quality, quality control, quality assurance, cost of quality ,software quality assurance(SQA), formal technical review.	21-2-20 to 15-3-20	8
Unit IV	7. Coding And Unit Testing: Programming principles and guidelines, incrementally developing code, managing evolving code, unit testing ,code inspection, and metrics.	17-3-20 to 29-3-20	12

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