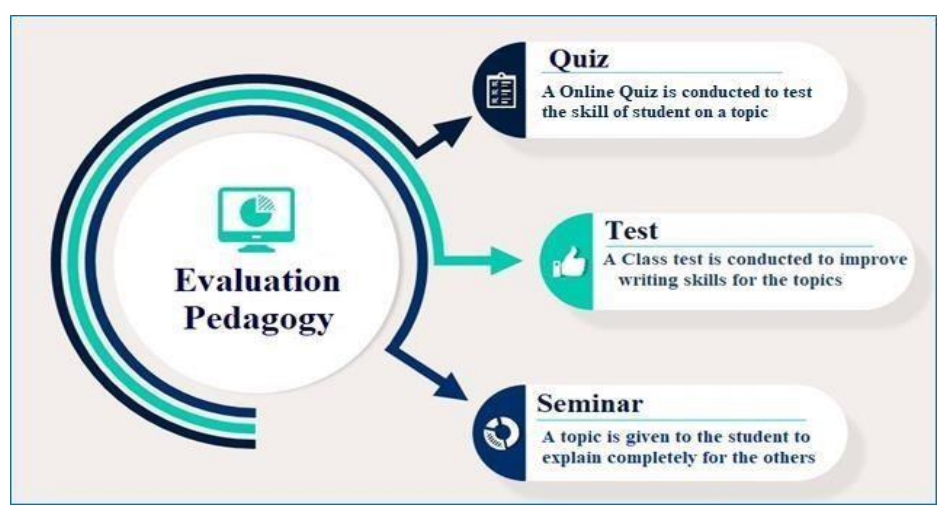
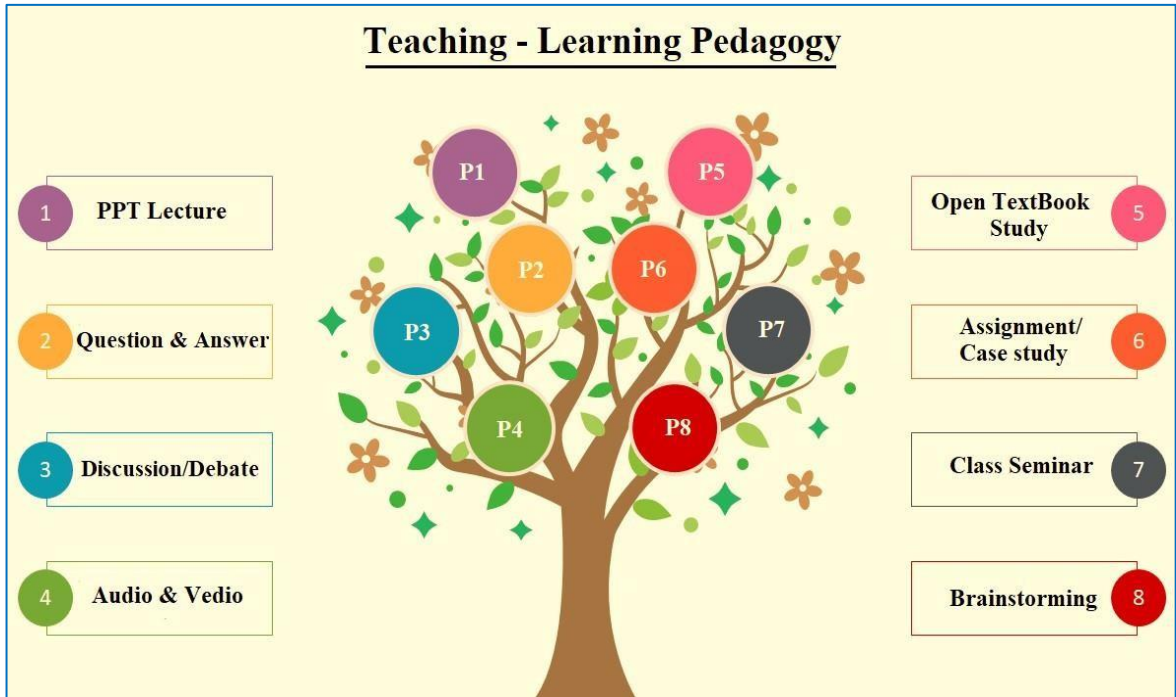


DEPARTMENT OF COMPUTER SCIENCE



Course: B.COM	Year:I	Semester:II			
Subject	OFFICE AUTOMATION TOOLS				
Units	1.Introduction to MS Office & MS Word 2.MS Word Advanced features 3.Introduction to MS Excel & Its features 4.Ms-Excel Advanced Features 5.Ms-PowerPoint and its Applications				
Duration	60hours				
Learning Objectives	1.The students will be able to Understand concept of Word Processor and use its features. 2.To use the advanced features of Ms-Word to make day to day usage easier. 3.To work comfortably with Ms-Excel Environment. To create work sheets and user advanced feature of Excel. 4.To create make presentations and inserting multimedia in them.				
Units	U1	U2	U3	U4	U5
Hours Split:Total: 60	10	12	14	10	14
Internal valuation:40marks	8	8	8	8	8
Resource Material:	<p>Study Material(Handouts): https://youtu.be/DzTCFsdxMP4 https://youtu.be/Kxf3Az-3sCo</p> <p>Reference Books: 1. Fundamentals of Computer – V . Rajaraman, Printice Hell of India. 2. Introduction to Computers–Peter Norton McGraw-Hill.</p> <p>YouTube Links: https://youtu.be/IUAq9r5B9Go https://youtu.be/utkJiQM4lx4</p> <p>Power Point Presentations: https://youtu.be/zx-syigwAc0</p>				

UNIT	DESCRIPTION	PEDAGOGY	INTERNAL EVALUATION
I	Introduction to MS Office & MS Word: MS-Word: Features of MS-Word, MS-Word Window components, working with formatted text, Shortcut keys, Formatting documents: Selecting text, Copying & moving data, Formatting characters, changing cases, Paragraph formatting ,Indents, Drop Caps ,Using format painter, Page formatting, Header & footer, Bullets & numbering, Tabs, Forming tables. Finding & replacing text, go to(F5) command, proofing text (Spell-check, Auto correct),	P1,P2,P3	PQ,P6,PT
II	: MS Word Advanced features: Difference between Wizard and Template - Customize the Quick Access Tool Bar – Macros: Purpose – Creating Macro – Using Macro – Storing Macro - ,Inserting pictures: From Computer, Online Pictures – Insert 3d Models - Insert Shapes – Insert Text Box – Insert Equation, Hyperlinks, Tables Insert tables Mail merging, Printing documents, Tables : Insert tables, Mathematical calculations on tables data. Insert Text Box etc.	P1,P2,P3,P5	P6,PT
III	: Introduction to MS Excel & Its features: MS-Excel: Excel Features, Spreadsheets, workbooks, creating, saving & editing a workbook, Renaming sheet, cell entries (numbers, labels, and formulas), spell check ,find and replace, Adding and deleting rows and columns Filling series, fill with drag, data sort, Formatting worksheet, Functions and its parts, Some useful Functions in Excel (SUM,AVERAGE,COUNT, MAX,MIN, IF),	P1,P2,P3,P5	PQ,PT
IV	: Ms-Excel Advanced Features: Cell referencing (Relative, Absolute, Mixed), What-if analysis, Introduction to charts: types of charts, creation of charts, printing a chart, printing worksheet – Sort – Filters – View Menu	P1,P2,P4	PQ,P6,PT

<p>V</p>	<p>Ms-PowerPoint and its Applications: MS-Power Point: Features of Power Point, Uses, components of slide, templates and wizards, using template, choosing an auto layout ,using outlines, adding sub headings, editing text, formatting text, using master slide, adding slides, changing color scheme, changing background and shading, adding header and footer, adding cliparts and auto shapes. Various presentation, Working in slide sorter view(deleting, duplicating, rearranging slides),adding transition and animations to slide show, inserting music or sound on a slide, viewing slide show ,Printing slides.</p>	<p>PQ,P6,PT,P8</p>	<p>PQ,PT</p>
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Course: B.COM	Year:II	Semester:III			
Subject	E COMMERCE AND WEB DESIGNING				
Units	<ol style="list-style-type: none"> 1. Basics And Definitions, Frameworks and Architectures 2. B2C Business, B2B Business 3. Security & Compliance Management, Electronic Payment 4. Introduction to Web Programming,Coding Standards, Block Elements 5. Cascading Style Sheet (CSS) 				
Duration	60hours				
Learning Objectives	<ul style="list-style-type: none"> • The student will be able to: Explain how to create an e-commerce website from scratch, using PHP and the Bootstrap framework. • Display featured products correctly on a web page, using the bootstrap system. • Explain how product detail models are programmed to be dynamic 				
Units	U1	U2	U3	U4	U5
Hours Split:Total: 60	10	12	14	10	14
Internal valuation:40marks	8	8	8	8	8
Resource Material:	<p>Study Material(Handouts): 1https://www.teachmint.com/tfile/studymaterial/b-com/e-commerceandwebdesign/e-commerceandwebdesigningunit1studymaterial/4ab7e63d-e279-408d-8be0-b9d36ff68b04</p> <p>Reference Books: 1. . Introduction to E-Commerce:Combining Business And Information Technology By Martin Kutz 2. Lallana, Quimbo, Andam, 4. Cf. Ravi Kalakota and Andrew B. Whinston, Electronic Commerce:A Manager’s Guide (USA: Addison Wesley Longman, Inc., 1997), 19-20. 3. Web Programming with HTML5,CSS and JavaScript, John Dean, Jones & Bartlett Learning 4. HTML & CSS: The Complete Reference, 5th Edition, Thomas. A. Powell</p> <p>YouTube Links: https://youtu.be/CkpWh38xM4g</p> <p>Power Point Presentations: https://youtu.be/o8Alg7bmZy4</p>				

UNIT	DESCRIPTION	PEDAGOGY	INTERNAL EVALUATION
I	Basics And Definitions: Definition, E-Commerce with 5-C Model, Additional Terms, Business Models Related To E-Commerce, Advantages And Disadvantages, Web 2.0, Technical And Economic Challenges Frameworks and Architectures: Actors And Stakeholders, Fundamental Sales Process And His 7+1 Process Steps Work, Technological Elements, Typical Applications Case Study: Identify different E-Commerce websites and write their functionality	P1,P2,P3	PQ,P6,PT
II	B2C Business: B2c Basics, B2c-Business AndCrm, B2c Software Systems, Customer Relationship Management (Crm) B2B Business: B2b Basics, Differences Between B2b And B2c, B2b Software Systems, Supply Chain Management Case Study: Identify B2B and B2C websites in Unit-I Case Study and differentiate their functionality	P1,P2,P3,P5	P6,PT
III	Security & Compliance Management: Foundations Of Risk Management, Compliance Management, Information Security Management (Ism), Technology Electronic Payment: Business and Money, the Payment Challenge, Payment Procedures, Receivables Management, Cyber Money Case Study: Identify different payment methods used in purchasing of goods in Amazon, Flipkart etc.. and write their Pros and Cons of each payment method	P1,P2,P3,P5	PQ,PT
IV	. Introduction to Web Programming: Introduction, creating a website, HTML tags, HTML Elements, HTML attributes, CSS Preview, History of HTML, Differences between old HTML and HTML5, how to check your HTML code Coding Standards, Block Elements: HTML coding conventions, Comments, HTML Elements, Should Describe Web Page Content Accurately, Content Model Categories, Block Elements, block quote Element, Whitespace Collapsing, pre Element, Phrasing Elements, Editing Elements, q and cite Elements, dfn, abbr, and time Elements, Code-Related Elements, br and wbr Elements. Text Elements, and Character References: sup, sub, s, mark, and small Elements, strong, em, b, u, and i Elements, span Element,	P1,P2,P4	PQ,P6,PT

	Character References, Web Page with Character References, and Phrasing Elements. Case Study: Create a web page of your department using standard HTML tags, HTML elements and HTML attributes		
V	Cascading Style Sheet (CSS): CSS Overview, CSS Rules, Example with Type Selectors and the Universal Selector, CSS Syntax and Style, Class Selectors, ID Selectors, span and div Elements, Cascading, style Attribute, style Container, External CSS Files, CSS Properties, Color Properties, RGB Values for Color, Opacity Values for Color, HSL and HSLA Values for Color, Font Properties, line-height Property, Text Properties, Border Properties, Element Box, padding Property, margin Property, Case Study: Description of your City or place with the use of CSS and compare it with previous two case studies	PQ,P6,PT,P8	PQ,PT

Course:B.com	Year:II	Semester:IV
Subject	DATABASE MANAGEMENT SYSTEM WITH ORACLE	
Units	6. Overview of Database Systems AND Data Model 7. Relational Model AND Normalization 8. Entity Relationship Model AND BASIC SQL 9. SQL AND Transaction Control Language 10. PL/SQL AND Transaction processing Concepts	
Duration	30hours	

<p>Learning Objectives</p>	<ul style="list-style-type: none"> • An ability to apply Knowledge of computing and mathematics in Computer Science & Engineering. • They will analyze a problem, identify and define the computing requirements appropriate to its solution. An ability to design, implement and evaluate a computer-based system to meet desired needs with appropriate societal considerations. • The will have knowledge on to conduct investigations, interpret data and provide conclusions in investigating complex problems related to Computer Science & Engineering. • An ability to engage in continuing professional development and life-long learning. 				
<p>Units</p>	<p>U1</p>	<p>U2</p>	<p>U3</p>	<p>U4</p>	<p>U5</p>
<p>Hours Split: Total : 60</p>	<p>10</p>	<p>10</p>	<p>10</p>	<p>10</p>	<p>10</p>
<p>Resource Material:</p>	<p>Study Material (Handouts): https://youtu.be/49Urokq3k7A https://youtu.be/c5HAWKX-suM</p> <p>Reference Books: 1. Database Management Systems, 3rd Edition, Raghurama Krishnan, Johannes Gehrke, TMH. 2. Database System Concepts, 5th Edition, Silberschatz, Korth, TMH</p> <p>YouTube Links: https://youtu.be/bS7Jjhbgt0o https://youtu.be/dl00fOOYLOM</p> <p>Power Point Presentations: https://youtu.be/-uvHespIbQk https://youtu.be/T2zoleNJRw8</p>				

UNIT	DESCRIPTION	PEDAGOGY	INTERNAL EVALUATION
I	<p>Database system, Characteristics (Database Vs File System), Database Users, Advantages of Database systems, Database applications.</p> <p>Data Models: Introduction; types of data models, Concepts of Schema, Instance and data independence; Three tier schema architecture for data independence; Database system structure, environment, Centralized and Client Server architecture for the database.</p>	P1,P2,P3	PQ,P6,PT
II	<p>Introduction to relational model, Codd's rules, concepts of domain, attribute, tuple, relation, constraints (Domain, Key constraints, integrity constraints) and their importance , concept of keys (super key, candidate key, primary key, surrogate key, foreign key) , relational Algebra & relational calculus.</p> <p>Normalization: Purpose of Normalization or schema refinement, concept of functional dependency, normal forms based on functional dependency(1NF, 2NF and 3 NF), Boyce-codd normal form(BCNF)</p>	P1,P2,P3,P5	P6,PT
III	<p>Introduction, Representation of entities, attributes, entity set, relationship, relationship set, constraints, sub classes, super class, inheritance, specialization, generalization using ER Diagrams, BASIC SQL: Database schema, data types, DDL operations (create, alter, drop, rename), DML operations (insert, delete, update), basic SQL querying (select and project) using where clause, arithmetic & logical operations, aggregation, grouping, ordering</p>	P1,P2,P3,P5	PQ,PT
IV	<p>Nested queries/ sub queries, implementation of different types of joins, SQL functions(Date, Numeric, String, Conversion functions), Creating tables with relationship, implementation of key and integrity constraints, views, relational set operations , Transaction Control Language: commit, Rollback, Savepoint , DCL :Grant, Revoke</p>	P1,P2,P3	P6,PT

V	<p>: Introduction, Structure , Control Structures , Cursors , Procedure , Function , Packages , Exception Handling ,Triggers.</p> <p>Transaction processing Concepts : Transaction State, Implementation of Atomicity and Durability, Concurrent Executions, Serializability, Recoverability, Implementation of Isolation, Testing for Serializability, Failure Classification, Storage, Recovery and Atomicity, Recovery algorithm.</p>	P1,P2,P3,P5	PQ,PT