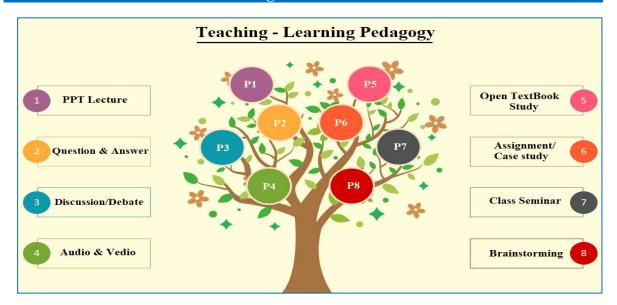
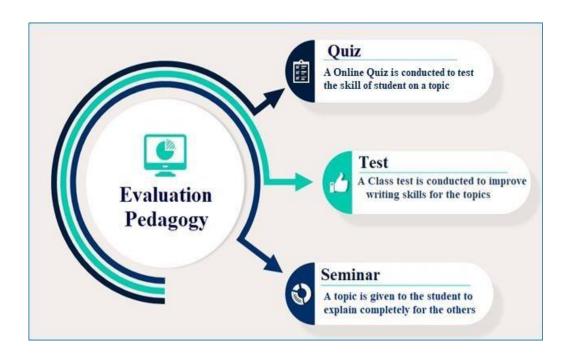
B.Com COMPUTER APPLICATIONS Teaching Plan – 2022-2023





Course:B.Com(Voc)	Year	::I	(Semester:I	
Subject	1	.1INFO	RMATION	ΓΕCHNΟΙ	LOGY
Units	 IntroductiontoComputer MS-Word MS-Excel MS-PowerPoint MS-Access 				
Duration			60hour	S	
LearningObjectives	 MS word creation of documents letters invitations etc., tables, mail merge, animations inword, formatting text MSExcel performing different formulas, creating charts, macros MSpowerpoints lidecreation, creation of animation MSAccesscreation of database, forms and reports 				
Units	U1 U2 U3 U4 U5				
Hours Split:Total: 60	10	10	15	10	15
Internal valuation:30marks	5	10	5	5	5

Resource Material:

 $\frac{\text{http://www.mcrhrdi.gov.in/93fc/material/Computer\%20Fundamentals\%20\&\%20Off}}{\text{ice\%20Applications.pdf}}$

ReferenceBooks:

- (1) P.Mohancomputerfundamentals-HimalayaPublications.
- (2) R.K.SharmaandShashiKGupta,ComputerFundamentals-KalyaniPublications
- (3) FundamentalsofComputersByBalagurusamy,McGrawHill
- (4) ComputerFundamentalsAnitaGoelPearsonIndia
- (5) IntroductiontoComputersPeterNorton
- (6) FundamentalsofComputersRajaramanVAdabalaN
- (7) Office2010All-in-One ForDummiesPeterWeverka
- (8) MS-OfficeS.S.Shrivastava
- (9) MS-OFFICE 2010 Training Guide Prof. Satish Jain, M.Geetha, Kratika BPB Publications

YouTubeLinks:

https://youtu.be/DzTCFsdxMP4

PowerPointPresentations:

https://www.slideshare.net/VijayrajDaksh/a-presentation-on-ms-office

ModelQuestionpaper:

https://www.pdfquestion.in/3771.html

Articles:

https://www.investintech.com/resources/articles/beginnersmsoffice/

UNIT	DESCRIPTION	PEDAGOGY	INTERNAL EVALUATION
I	Computer Introduction - Characteristics and Limitations of Computer—Generations of Computer, Classification of Computers, Applications of Computer, Basic Components of PC, Computer Architecture - Primary and Secondary Memories - Input and Output Devices - Operating System-Function of Operating System—Types of Operating System—Languages and its Types	P1,P2,P3	PQ,P6,PT
П	MSword: WordProcessing—Features- AdvantagesandApplications-PartsofWordWindow- Toolbar- Creating,Saving,Closing,OpeningandEditingofaDoc ument-MovingandCopingaText- FormattingofTextandParagraph-Bulletsand Numbering-Find and Replace - Insertion of objects- Headers and Footers-Page Formatting-AutoCorrect- SpellingandGrammar-MailMerge-Macros	P1,P2,P3,P5	P6,PT
Ш	MSExcel: Features – Spread Sheet-Workbook – Cell-Parts of awindow-Saving, Closing, Openingof a WorkBook – Editing–Advantages–Formulas-TypesofFunction-Templates–Macros– Sorting-Charts– Filtering	P1,P2,P3,P5	PQ,PT
IV	MSPowerpoint: Introduction – Starting – Parts-Creating of Tables-CreatePresentation – Templates-Auto Content Wizard-Slide Show-EditingofPresentation- InsertingObjectsandcharts	P1,P2,P4	PQ,P6,PT
V	MSAccess: OrientationtoMicrosoftAccess- CreateaSimpleAccessDatabase- WorkingwithTableData-ModifyTableData- SortandFilterRecords-QueryingaDatabase- CreateBasicQueries-SortandFilterData inaQuery- PerformCalculations in a Query - Create Basic Access Forms - Workwith Data on Access Forms - Create a Report - Add ControlstoaReport- FormatReports	PQ,P6,PT, P8	PQ,PT

Course: B.COM(VOC)	Yea	r: I	S	emester: I	I
Subject:		Ecommo	erce and web	designing	
Units:	 Introduction E-payment System On-line Business Transactions Website designing Security and Encryption 				
Duration:	hours				
LearningObjectives	 To understand the complexity of e-commerce and its many facets. Analyze the impact of E-commerce on business models and strategy. To identity the impact of e-commerce and web designing To recognize the benefits and limitations of e-commerce. To use classification frame works for analyzing e-commerce. Identify the key security threats in the E-commerce environment. 				
Units	U1 U2 U3 U4 U5				
HoursSplit:Total: 60	10 12 14 10 14				
Internal valuation:40marks	8	8	8	8	8

	StudyMaterial(Handouts):
_	https://masomomsingi.com/cict-notes-web-design-and-e-commerce-notes-pdf/
Resource Material:	http://www.kartrocket.com
	Reference Books:
	YouTube Links: https://www.youtube.com/watch?v=ojgjlotElbw
	Power Point Presentations: https://www.slideshare.net/aminindicsoft/ecommerce-website-development-proposal
	http://www.e-commerceceo.com
	http://www.fastspring.com
	https://teamtreehouse.com/tracks/web-design

UNIT	DESCRIPTION	PEDAGOGY	INTERNAL EVALUATION
I	Introduction: Meaning, Nature, Concepts, Advantages, Disadvantages and reasons for Transacting Online, Types of E-Commerce, e-commerce Business Models (Introduction, Key Elements of a Business Model And Categorizing Major E-Commerce Business Models), Forces Behind e-commerce. Technology used in E-commerce: The dynamics of World Wide Web and Internet (Meaning, Evolution And Features); Designing, Building and Launching e-commerce website (A systematic approach involving decisions regarding selection of hardware, software, outsourcing Vs. in-house development of a website).	P1,P2,P3	PQ,P6,PT
П	E-payment System: Models and methods of e-payments (Debit Card, Credit Card, Smart Cards, emoney), Digital Signatures (Procedure, Working And Legal Position), Payment Gateways, Online Banking (Meaning, Concepts, Importance, Electronic Fund Transfer, Automated Clearing House, Automated Ledger Posting), Risks Involved in e-payments.	P1,P2,P5	P6,PT
Ш	On-line Business Transactions: Meaning, Purpose, Advantages and Disadvantages of Transacting Online, E- Commerce Applications in Various Industries Like {Banking, Insurance, Payment of Utility Bills, Online Marketing, E-Tailing (Popularity, Benefits, Problems and Features), Online Services	P1,P3,P5	PQ,PT
IV	Website designing: Designing a home page, HTML document, Anchor tag Hyperlinks, Head and body section, Header Section, Title, Prologue, Links, Colorful Pages, Comment, Body Section, Heading Horizontal Ruler, Paragraph, Tabs, Images And Pictures, Lists and Their Types, Nested Lists, Table Handling. Frames: Frameset Definition, Frame Definition, Nested Framesets, Forms and Form Elements. DHTML and Style Sheets: Defining Styles, elements of Styles, linking a style sheet to a HTML Document, Inline Styles, External Style Sheets, Internal Style Sheets & Multiple Style Sheets.	P1,P2,P4	PQ,P6,PT

Course: B.Com	Year:	II		Semeste	r:IV
Subject:		Progran	nming with	C & C++	
Units:	 Introduction and Control Structures Loops And Arrays Strings and Functions Classes and Objects Introduction to OOP and its basic features Inheritance and Types of Inheritance 				
Duration:	60hours				
LearningObjectives	 Develop a C program Control the sequence of the program and give logical outputs Implement strings in your C program To understand how C++ improves C with object-oriented features. To learn how to write inline functions for efficiency and performance. To learn the syntax and semantics of the C++ programming language. 				
Units	U1	U2	U3	U4	U5
Hours Split:Total: 60	10	12	14	10	14
Internal valuation:40marks	8	8	8	8	8

https://www.unf.edu/~wkloster/2220/ppts/cprogramming_tutorial.pdf https://www.tutorialspoint.com/cplusplus/cpp_tutorial.pdf

Reference Books:

- Introduction to C programming by REEMA THAREJA from OXFORD UNIVERSITY PRESS
- E Balagurusamy: —COMPUTING FUNDAMENTALS & C PROGRAMMING Tata McGraw-Hill, Second Reprint 2008, ISBN 978-0-07-066909-3.
- 3. Ashok N Kamthane: Programming with ANSI and Turbo C, Pearson Edition Publ, 2002.
- 4. Henry Mullish&HuubertL.Cooper: The Spirit of C An Introduction to modern Programming, Jaico Pub. House, 1996.
- 5. The C++ Programming Language (4th Edition) By BjarneStroustrup
- 6. C++ Primer (5th Edition) By Stanley B. Lippman, JoseeLajoie, and Barbara E Moo

Resource Material:

YouTube Links:

https://youtu.be/8PopR3x-VMY https://www.youtube.com/watch?v=vLnPwxZdW4Y

Power Point Presentations:

https://www.slideshare.net/gauravjuneja11/c-language-ppt https://www.slideshare.net/THOOYAVANV/c-overview-ppt-72294760

OuestionBank:

https://www.acsce.edu.in/acsce/wp-content/uploads/2020/03/Module-wise-Question-Bank-CPS.pdf

UNIT	DESCRIPTION	PEDAGOGY	INTERNAL EVALUATION
I	Introduction and Control Structures: History of 'C' - Structure of C program – C character set, Tokens, Constants, Variables, Keywords, Identifiers – C data types - C operators - Standard I/O in C - Applying if and Switch Statements	P1,P2,P3	PQ,P6,PT
II	Loops And Arrays: Use of While, Do While and For Loops - Use of Break and Continue Statements - Array Notation and Representation - Manipulating Array Elements - Using Multi Dimensional Arrays	P1,P2,P3,P5	P6,PT
Ш	Strings and Functions: Declaration and Initialization of String Variables - String Handling Functions -Defining Functions -Function Call - Call By Value, Call By Reference - Recursion	P1,P2,P3,P5	PQ,PT
IV	Classes and Objects Introduction to OOP and its basic features - C++ program structure - Classes and objects - Friend Functions-Constructor - Types of constructors - Destructors.	P1,P2,P4	PQ,P6,PT
V	Inheritance: Inheritance - Types of Inheritance -Types of derivation- Public - Private - Protected Hierarchical Inheritance - Multiple Inheritance - Hybrid Inheritance	PQ,P6,PT, P8	PQ,PT

Course: B.COM(VOC)	Year	::II	S	emester:II	[
Subject:		Data Ba	ase Managei	ment Syste	m	
Units:	1.Overview of Database Management System 2.Entity-Relationship Model 3.Relational Model 4.Structured Query Language 5.PL/SQL					
Duration:	60hours					
LearningObjectives	1.GainknowledgeofDatabaseandDBMS. 2.UnderstandthefundamentalconceptsofDBMSwithspecialemphasison relationaldatamodel. 3.Demonstrateanunderstandingofnormalizationtheoryandapplysuchkn owledgetothenormalization ofadatabase 4.ModeldatabaseusingERDiagramsanddesigndatabaseschemasbasedonthem odel. 5.Createasmall databaseusingSQL. 6.Store,Retrievedataindatabase.					
Units	U1 U2 U3 U4 U5					
Hours Split:Total: 60	10	12	14	10	14	
Internal valuation:40marks	8	8	8	8	8	

https://sircrrengg.ac.in/images/CSEMATERIALS/R19_DBMS_MATERIAL.pdf

Reference Books:

- 1. Database System Concepts by Abraham Silbers chatz, Henry Korth, and S. Sudarshan, McGrawhill
- 2. Database Management Systems by Raghu Ramakrishnan, McGrawhill
- 3. Principles of Database Systems by J. D. Ullman
- 4. Fundamentals of Database Systems by R. Elmasriand S. Navathe

Resource Material:

5.SQL:TheUltimateBeginnersGuide bySteveTale.

YouTube Links:

https://www.youtube.com/watch?v=c5HAwKX-suM

Power Point Presentations:

 $\underline{https://www.slideshare.net/OECLIBOdishaElectron/database-management-system-ppt}$

QuestionBank:

https://blog.oureducation.in/sample-paper-for-dbmsdata-base-management-system/

UNIT	DESCRIPTION	PEDAGOGY	INTERNAL EVALUATION
I	Overview of Database Management System: Introduction, file-based system, Drawbacks of file-Based System ,Data and information, Database, Database management System, Objectives of DBMS, Evaluation of Database management System, Classification of Database Management System, DBMS Approach, advantages of DBMS, Anis/spark Data Model, data models, Components and Interfaces of Database Management System. Database Architecture, Situations where DBMS is not Necessary, DBMS Vendors and Their Products.	P1,P2,P3	PQ,P6,PT
П	Entity-Relationship Model: Introduction, the building blocks of an entity relationship diagram, classification of entity sets, attribute classification, relationship degree, relationship classification, reducing ER diagram to tables, enhanced entity-relationship model (EER model), generalization and specialization, IS A relationship and attribute inheritance, multiple inheritance, constraints on specialization and generalization, aggregation and composition, entity clusters, connection types, advantages of ER modeling.	P1,P2,P4,P5	P6,PT
Ш	Relational Model: Introduction, CODD Rules, relational data model, concept of key, relational integrity, relational algebra, relational algebra operations, advantages of relational algebra, limitations of relational algebra, relational calculus, tuple relational calculus, domain relational Calculus (DRC). QBE	P1,P2,P3	PQ,PT
IV	Structured Query Language: Introduction, History of SQL Standard, Commands in SQL, Data Types in SQL, Data Definition Language, Selection Operation, Projection Operation, Aggregate functions, Data Manipulation Language, Table Modification Commands, Table Truncation, Imposition of Constraints, Join Operation, Set Operation, View, Sub Query, Embedded SQL,	P1,P2,P4,P5	PQ,P6,PT
V	PL/SQL: Introduction, Shortcoming in SQL, Structure of PL/SQL, PL/SQL Language Elements, Data Types, Operators Precedence, Control Structure, Steps to Create a PL/SQL, Program, Iterative Control, Cursors, Steps to create a Cursors, Procedure, Function, Packages, Exceptions Handling, Database Triggers, Types of Triggers.	PQ,P6,PT	PQ,PT

Course: B.Com (voc)	Year:	III	S	emester: V	
Subject:	Ecommer	ce Applic	ation Develo	pment	
Units:	6.Introduction to e-commerce 7.Bussiness Models of e-commerce 8.Electronic data interchange 9. Html basics, java script basics, PHP basics 10. Logging on to our Word press Website				
Duration:	60hours				
LearningObjectives	1.To apply in an integrative and summative fashion the students' knowledge in allfieldsof business studies bydraftingawebsitepresenceplan. 2.Tounderstandthefactorsneededin ordertobeasuccessfulin ecommerce 3.To gain the skills to bring together knowledge gathered about the differentcomponentsof buildingaweb presence 4.Tocriticallythinkaboutproblemsand issues thatmight popup duringtheestablishmentofthe webpresence 5.To apply Word Press as a content management system (CMS), Plan theirwebsite bychoosingcolour schemes, fonts, layouts, and more				
Units	U1	U2	U3	U4	U5
HoursSplit:Total: 60	10	12	14	10	14
Internal valuation:40marks	8	8	8	8	8

https://masomomsingi.com/cict-notes-web-design-and-e-commerce-notes-pdf/

http://www.kartrocket.com

https://www.tutorialspoint.com/wordpress/

https://www.javascripttutorial.net/

Reference Books:

- 1. Elias.M.Awad, "ElectronicCommerce", Prentice-Hallof IndiaPvt Ltd.
- 2. RaviKalakota, Andrew B. Whinston, "Electronic Commerce-AManager's guide", Addison-Wesley
- 3. https://w3cschools.com
- 4. DavidWhiteley,E-Commerce:Strategy,TechnologiesandApplications,TataMcGrawHill.

Resource Material:

YouTube Links:

https://www.youtube.com/watch?v=ojgilotElbw

Power Point Presentations:

https://www.slideshare.net/aminindicsoft/ecommerce-website-developmentproposal

http://www.e-commerceceo.com

http://www.fastspring.com

https://teamtreehouse.com/tracks/web-design

UNIT	DESCRIPTION	PEDAGOGY	INTERNAL EVALUATION
I	IntroductiontoE–commerce: Meaningandconcept–E– commerce E–commercev/sTraditionalCommerce E–Business&E–Commerce– Historyof E–Commerce EDI–Importance, features&benefits ofE–Commerce Impacts,Challenges &LimitationsofE–Commerce	P1,P2,P3	PQ,P6,PT
II	BusinessmodelsofE—Commerce:BusinesstoBusiness BusinesstoGovernment BusinesstoEmployee Influencingfactorsof successfulE—Commerce ArchitecturalframeworkofElectronicCommerce WebbasedECommerceArchitecture. InternetCommerce.	P1,P2,P3	P6,PT
Ш	ElectronicdataInterchange EDITechnology EDI-Communications EDIAgreements E-Commercepaymentsystem. DigitalEconomy	P1,P2,P3,P5	PQ,PT
IV	APageonthe web- HTMLBasics ClientSidescripting-JAVASCRIPTbasics ServersideScripting-PHPbasics.	P1,P2,Px	PQ,P6,PT
V	LoggingintoYour Word pressSite wordpressdashboard creatingyourfirstpost addingphotos and images creatinghyperlink addingcategoriesand tags	P1,P2,Px	PQ,PT

