



PSGR Krishnammal College for Women



UGC Certified College of Excellence • Autonomous • Affiliated to Bharathiar University • ISO 9001:2015 Certified • Reaccredited with 'A' Grade by NAAC • Ranked 22nd in NIRF 2019 by MHRD

Department of B.Com. (e-Commerce)

**CHOICE BASED CREDIT SYSTEM &
OUTCOME BASED EDUCATION SYLLABUS**

BACHELOR OF COMMERCE WITH e-COMMERCE

2019 – 2022



PROGRAMME OUTCOME - UG

After completion of the programme, the student will be able to

PO1 Students are able to design and implement an e-commerce application with a shopping cart.

PO2 To train the students in theoretical and practical issues of conducting business over the internet and the Web.

PO3 To develop students on general principles revealed through practical exploration of specific tools, techniques and methods in e-business.

PO4 Students can analyze real business cases regarding their e-business strategies and transformation processes and choices.

PO5 Students are ready to help organizations integrate online business processes and practices. They can also decide to launch their own e-commerce venture.

PROGRAMME SPECIFIC OUTCOME

The students at the time of graduation will

PSO1 To recognize the impact of information and communication technologies, especially of internet in business operations.

PSO2 To gain a comprehensive understanding of the e-commerce landscape, current and emerging business models and the technology and infrastructure under pinnings of the business.

PSO3 To promote entrepreneurship and managerial skills in students so as to enable them to establish and manage their business effectively.

**Department of B.Com. (e-Commerce)****CHOICE BASED CREDIT SYSTEM & OUTCOME BASED EDUCATION
SYLLABUS & SCHEME OF EXAMINATION
2019-2022**

Semester	Part	Subject Code	Title of the Paper	Instruction Hours / Week	Contact Hours	Tutorial Hours	Duration of Examination	Examination Marks			Credits
								CIA	ESE	Total	
I	I	TAM1701/ HIN1701/ FRE1701	Language I – Tamil I/ Hindi I/ French I/	6	86	4	3	40	60	100	3
I	II	ENG1701/ ENG17F1	English I/ Functional English I	6	86	4	3	40	60	100	3
I	III	DA17C01	Financial Accounting	4	56	4	3	40	60	100	4
I	III	EC17C02	Fundamentals of e-Commerce	4	56	4	3	40	60	100	4
I	III	TH17A07B TH17A07A	Allied - Mathematics for Commerce Level I/ Level II	6	86	4	3	40	60	100	5
I	III	BP18CP1	Computer Application Practical I-Office Package	2	27	3	3	40	60	50*	1
I	IV	NME16B1/ NME16A1/ NME18ES/	Basic Tamil I/ Advanced Tamil I/ Introduction to Entrepreneurship	2	26	4	-	100	-	100	2
II	I	TAM1702/ HIN1702/ FRE1702	Language II – Tamil II/ Hindi II/ French II	6	86	4	3	40	60	100	3

Semester	Part	Subject Code	Title of the Paper	Instruction Hours / Week	Contact Hours	Tutorial Hours	Duration of Examination	Examination Marks			Credits
								CIA	ESE	Total	
II	II	ENG1702/ ENG17F2	English II/ Functional English II	6	86	4	3	40	60	100	3
II	III	EC17C03	Web Page Designing	6	86	4	3	40	60	100	5
II	III	TH16A08B/ TH16A08A	Allied - Statistics for Commerce Level I/ Level II	6	86	4	3	40	60	100	5
II	III	EC17CP2	Computer Application Practical II – Accounting Package and Web Page Designing	4	57	3	3	40	60	50*	2
II	IV		Open Course: (Self study- Online Course)	--	--	--	--	--	--	--	2*
			**Advance Tamil/Basic Tamil					--	--	--	Gr.
II	VI		Effective English Communication	2	--	--	--	--	--	--	2
II	VI	NM12GAW	General Awareness	Self Study	--	--	Online Test	100	--	100	Gr.
III	III	EC19C04	Auditing	6	86	4	3	40	60	100	5
III	III	EC19C05	Cyber Law	6	86	4	3	40	60	100	5
III	III	EC19C06	Relational Database Management System	5	71	4	3	40	60	100	4
III	III	BP19A01 EC19A01	Allied - 1. Principles of Taxation 2. Industrial Relations	5	71	4	3	40	60	100	5
III	III	EC17CP3	Computer Application Practical III – Database Programming	3	42	3	3	40	60	50*	1
III	III	EC-19SB01 EC-19SBP1	Skill Based Subject Theory Practical	2 1	29 15	1 --	-- --	-- --	-- --	-- --	-- --

Semester	Part	Subject Code	Title of the Paper	Instruction Hours / Week	Contact Hours	Tutorial Hours	Duration of Examination	Examination Marks			Credits
								CIA	ESE	Total	
III	IV	NM14VHR	Value Education and Human Rights	2	26	4	3	100	-	100	2
III	V	JOB1338	Job Oriented Course	--	60	--	--	40	60	--	Gr
IV	III	EC19C07	e-Commerce technology	5	71	4	3	40	60	100	4
IV	III	EC19C08	Object Oriented Programming with C++	5	71	4	3	40	60	100	4
IV	III	CM19C09	Principles of Financial Management	6	86	4	3	40	60	100	4
IV	III	BP19A03 EC19A02	Allied - 1. Principles of Management 2. Security Analysis and Portfolio Management	5	71	4	3	40	60	100	5
IV	III	BP16CP4	Computer Application Practical IV – Programming in C++	4	57	3	3	40	60	50*	2
IV	III	EC-19SB01 EC-19SBP1	Skill Based subject Theory Practical	2 1	29 13	1 2	3 3	25 40	75 60	100 100	4 2
IV	IV	NM10EVS	Environmental Studies	2	26	4	3	100	--	100	2
IV	IV		Internship Training(2 Weeks) – submission of certificate	--	--	--	--	100	--	100	2
IV	V		NSS, NCC, YRC and Sports & Games, Eco Watch, YI Net, Rotaract	--	--	--	--	100	--	100	1
IV	V		Community Oriented Service	--	--	--	--	--	--	--	Gr.

*100 Marks converted into 50

** Outside regular class hours

COMPUTER APPLICATION PRACTICALS

The computer application practical is spread over all the six semesters and end semester practical examination is conducted in the respective semester for 100 marks and converted to 50 marks. A minimum of 10 exercises will be worked out in each semester. During the end semester

practical examinations, the internal and external examiners will be setting the question paper from the list of practical in the record.

PROJECT VIVA VOCE

Project work, which is compulsory, carries 100 marks. A student should select a topic for the project work in the fifth semester itself and submit the project report (dissertation) at the end of the sixth semester. There is viva for project work carrying 20 marks. The guide and an external examiner shall evaluate the project report and conduct the viva. The project work shall be related to commerce with computer applications in business or it may involve software development.

SKILL BASED SUBJECT

Students have to select any one of the following skill based subject in the III Semester and the papers will be spread over four semesters (III, IV, V, VI semester). The exams will be conducted for these papers in the end of the IV and VI semester.

ELECTIVE PAPERS

Three options are given for the elective papers in the V and VI semester and they have to choose any one paper. Exams will be conducted in the respective semesters.

ONLINE OPEN COURSE

Open Course in the second semester to be substituted by online courses offered by various departments and students should opt any one of the course (Inter disciplinary) and completion certificate to be verified by the department and to be ensured by the end of the Semester-V.

JOB ORIENTED COURSE

Students to complete a job oriented course for 60 hours from a pool of courses offered by different departments before the end of Semester-V.

QUESTION PAPER PATTERN

Semester I & II

ASSESSMENT PATTERN FOR THEORY, ACCOUNTING, FINANCE AND TAX PAPERS

CA I & II – Duration: 2 Hrs

Section	Marks	Word Limit	Total
A – 5*2 marks(No Choice)	10	1 or 2 sentences	50
B - 4 * 5 marks(No Choice)	20	250 words	
C – 2 out of 3* 10 marks	20	500 words	

ASSESSMENT PATTERN FOR THEORY PAPERS

Model Examination & End Semester – Duration: 3 Hrs

Section	Marks	Word Limit	Total
A – 12 out of 15*2 marks	24	1 or 2 sentences	100
B – 6 out of 8 *6 marks	36	250 words	
C – 4 out of 6* 10 marks	40	500 words	

ASSESSMENT PATTERN FOR ACCOUNTING, FINANCE AND TAX PAPERS

Model Examination & End Semester – Duration: 3 Hrs

Section	Marks	Word Limit	Total
A – 11*2 marks (No Choice)	22	1 or 2 sentences or small problems	100
B – 5 out of 6 *6 marks	30	250 words or problems	
C – 4 out of 5* 12 marks	48	500 words or problems	

Semester IV & V

ASSESSMENT PATTERN FOR THEORY, ACCOUNTING, FINANCE AND TAX PAPERS

Continuous Internal Assessment – Duration: 2 Hrs

Section	Marks	Total Marks
A – 5 X 2 marks (No Choice)	10	50
B – 4 X 5 marks(No Choice)	20	
C – 2 out of 3 X 10 marks	20	

Model Examination & End Semester Examination – Duration: 3 Hrs

Section	Marks	Word Limit	Total Marks
A – 11 out of 13 X 2 marks (Open Choice)	22	1 or 2 sentences	100
B – 5 out of 7 X 6 marks (Open Choice)	30	300 words	
C – 4 out of 6 X 12 marks	48	600-800 words	

SKILL BASED SUBJECT

Continuous Internal Assessment – Duration: 1 Hour

Section	Marks	Total Marks
A – 4 out of 6 X 4 Marks	16	25
B – 1 out of 2 X 9 Marks	9	

Model Examination & End Semester Examination – Duration: 2 Hours

Section	Marks	Total Marks
A – 4 out of 6 X 5 Marks	20	50*
B – 2 out of 3 X 15 Marks	30	

(* - Converted to 75 marks)

ADVANCED LEARNERS COURSE (ALC)

Continuous Internal Assessment – Duration: 1 Hour

Section	Marks	Total Marks
A – 4 out of 6 X 4 marks	16	25
B – 1 out of 2 X 9 marks	9	

Model Examination and End Semester Examination – Duration: 2 Hours

Section	Marks	Total Marks
A – 5 out of 8 X 5 marks(Open Choice)	25	75
B – 5 out of 8 X 10 marks(Open Choice)	50	

VALUE EDUCATION AND HUMAN RIGHTS / WOMEN STUDIES / AMBEDKAR STUDIES / GANDHIAN STUDIES / ENTREPRENEURSHIP / ENVIRONMENTAL STUDIES

Continuous Internal Assessment – Duration: 2 Hours

Section	Marks	Total marks
A – 4 out of 6 X 5 Marks	20	50
B – 2 out of 3 X 15 Marks	30	

Value Education and Human Rights & Environmental Studies two internal tests will be conducted for 50 marks each and the total marks secured will be equated to a maximum of 75 marks and 25 marks is allotted for project / group discussion / presentation of a report.

INFORMATION SECURITY

Continuous Internal Assessment – Duration 2 Hours

Section	Marks	Total Marks
A – 5 out of 8 X 2 Marks	10	40
B – 6 out of 8 X 5 Marks	30	

**WEIGHTAGE ASSIGNED TO VARIOUS COMPONENTS OF
CONTINUOUS INTERNAL ASSESSMENT**

Theory

	CI A I	CI A II	Mode l Exam	Assignmen t/ Class Notes	Semin ar	Qui z	Class Participati on	Librar y Usage	Attendan ce	Max. Mark s
Core / Allied	5	5	6	4	5	4	5	3	3	40
SBS	5	5	15	-	-	-	-	-	-	25
ALC		10	15	-	-	-	-	-	-	25
Informati on Security	40	40		10		10				100

Practical

	Model Exam	Lab Performance	Regularity in Record Submission	Attendance	Maximum Marks
Core / Allied / SBS	12	20	5	3	40

RUBRICS

Assignment/ Seminar

Maximum - 20 Marks (converted to 4 marks)

Criteria	4 Marks	3 Marks	2 Marks	1 Mark
Focus Purpose	Clear	Shows awareness	Shows little awareness	No awareness
Main idea	Clearly presents a main idea.	Main idea supported throughout	Vague sense	No main idea
Organisation: Overall	Well planned	Good overall organization	There is a sense of organization	No sense of organization
Content	Exceptionally well presented	Well presented	Content is sound	Not good
Style: Details and Examples	Large amounts of specific examples and detailed description	Some use of examples and detailed descriptions	Little use of specific examples and details	No use of examples

CLASS PARTICIPATION

Maximum - 20 Marks (converted to 5 marks)

Criteria	5 Marks	4 Marks	3 Marks	2 Marks	1 Mark	Points scored
Level of Engagement in Class	Student proactively contributes to class by offering ideas and asks questions more than once per class.	Student proactively contributes to class by offering ideas and asks questions once per class	Student contributes to class and asks questions occasionally	Student rarely contributes to class by offering ideas and asking no questions	Student never contributes to class by offering ideas	
Listening Skills	Student listens when others talk, both in groups and in class. Student incorporates or builds off of the ideas of others.	Student listens when others talk, both in groups and in class.	Student listens when others talk in groups and in class occasionally	Student does not listen when others talk, both in groups and in class.	Student does not listen when others talk, both in groups and in class. Student often interrupts when others speak.	
Behavior	Student almost never displays disruptive behavior during class	Student rarely displays disruptive behavior during class	Student occasionally displays disruptive behavior during class	Student often displays disruptive behavior during class	Student almost always displays disruptive behavior during class	
Preparation	Student is almost always prepared for class with required class materials	Student is usually prepared for class with required class materials	Student is occasionally prepared for class with required class materials	Student is rarely prepared for class with required class materials	Student is almost never prepared for class.	
					Total	

MAPPING OF POs WITH COs

COURSE	PROGRAMME OUTCOMES				
	PO1	PO2	PO3	PO4	PO5
COURSE 1- DA17C01					
CO1	S	L	L	L	M
CO2	S	L	L	M	M
CO3	S	L	L	L	M
COURSE 2- EC17C02					
CO1	S	S	S	S	S
CO2	S	S	S	S	S
CO3	S	S	S	S	S
COURSE 3- BP18CP1					
CO1	S	S	S	S	M
CO2	S	S	S	S	M
CO3	S	S	S	S	M
COURSE 4- EC17C03					
CO1	S	S	S	S	S
CO2	S	S	S	S	S
CO3	S	S	S	S	S
COURSE 5- EC17CP2					
CO1	S	M	L	L	L
CO2	S	S	S	S	M
CO3	S	S	S	M	M
COURSE 6-EC19C04					
CO1	S	S	S	S	M
CO2	S	S	S	S	M
CO3	S	S	S	S	M
COURSE 7- EC19C05					
CO1	M	S	M	S	M
CO2	S	M	S	M	S
CO3	S	S	S	S	L
COURSE 8- EC19C06					
CO1	S	S	S	S	M
CO2	S	S	S	S	M
CO3	S	S	S	S	M
COURSE 9- EC19A01					
CO1	S	S	S	M	S
CO2	S	S	M	S	S
CO3	S	S	S	S	L
COURSE 10- EC17CP3					
CO1	S	S	S	S	L
CO2	S	S	S	S	L
CO3	S	S	S	S	L
COURSE 11- EC19C07					
CO1	S	S	S	S	S

CO2	S	S	S	S	S
CO3	S	S	S	M	L
COURSE 12- EC19C08					
CO1	S	S	S	S	M
CO2	S	S	S	S	M
CO3	S	S	S	S	M
CO4	S	S	S	S	M
COURSE 13- CM19C09					
CO1	S	S	S	S	S
CO2	S	M	S	S	M
CO3	S	S	M	S	M
COURSE 14- EC19A02					
CO1	S	S	S	M	M
CO2	S	S	S	S	M
CO3	S	S	S	M	L
COURSE 15- BP16CP4					
CO1	S	S	S	S	M
CO2	S	S	S	S	M
CO3	S	S	S	S	M
COURSE 16- EC-19SB01					
CO1	S	M	S	M	S
CO2	M	S	S	S	M
CO3	S	M	S	S	M
CO4	M	S	M	M	S
COURSE 17- EC-19SBP1					
CO1	S	M	S	S	M
CO2	S	S	M	S	S
CO3	M	S	S	S	S
CO4	S	S	S	M	S

S- Strong; M-Medium; L-Low

Course Number	Course Name	Category	L	T	P	Credit
DA17C01	FINANCIAL ACCOUNTING	Theory	56	4	-	4

Preamble

- To provide a strong foundation in fundamental accounting concepts, various elements of financial statements and relevant accounting standards.
- To be familiar with partnership, companies and inventory accounts.
- To inculcate the knowledge of international financial reporting standards.

Prerequisite

- No prerequisite required

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1.	Relate accounting concepts and reproduce financial statements	K1
CO2.	Understand and interpret accounts of Partnership firms, Companies and inventory accounts	K2
CO3.	Examine and interpret financial reports	K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1.	S	L	L	L	M
CO2.	S	L	L	M	M
CO3.	S	L	L	L	M

S- Strong; M-Medium; L-Low

Financial Accounting - DA17C01

(56 Hrs)

Syllabus

UNIT I (11 Hrs)

Accounting Concepts and Accounting Conventions–Journal –Ledger–Trial Balance – Final Accounts – AS 1, 5.

UNIT II (11 Hrs)

Depreciation–AS 6-Bank Reconciliation Statement –AS 27.

UNIT III (11 Hrs)

Consignment–Joint Venture.

UNIT IV (12 Hrs)

Partnership Accounts–Admission, Retirement and Death.

UNIT V (11 Hrs)

Company Accounts–Share capital- Issue and Forfeiture of Shares-IFRS.

Distribution of Marks: 20% Theory, 80% Problems

Text Book

Sl.No.	Author Name	Title of the Book	Publisher	Year and Edition
1.	Jain S P and Narang K L	Advanced Accountancy I	Kalyani Publishers	Reprint 2016 & 18 th Edition
2.	Jain S P and Narang K L	Advanced Accountancy	Kalyani Publishers	2014, 20th Edition

Reference Books

Sl.No.	Author Name	Title of the Book	Publisher	Year and Edition
1.	Nagarajan K.L., Vinayagam. N & P.L.Mani	Financial Accounting	Sultan Chand & Sons	2010, 1 st Edition.
2.	Reddy T.S & Murthy	Financial Accounting	Margham Publications	2016, 6 th Edition.

Pedagogy

- Lecture, PPT, Quiz, Assignment, Group Discussion, Seminar

Course Designers:

1. Dr.Ms. P. Aiswarya
2. Mrs.S. Kiruba Devi

Course Number	Course Name	Category	L	T	P	Credit
EC17C02	FUNDAMENTALS OF E-COMMERCE	Theory	56	4	-	4

Preamble

- To establish knowledge about computers and to acquaint the basic concepts of e-commerce.
- To instill idea of convergence of business relationship through recent technologies.
- To identify, define and differentiate the various modes of electronic commerce.

Prerequisite

- Basics of computer knowledge

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1.	Enumerate the technological changes in trade.	K1, K2
CO2.	Explain E-commerce on business models and strategy	K1, K2
CO3.	Interpret various terminologies of electronic commerce.	K2, K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1.	S	S	S	S	S
CO2.	S	S	S	S	S
CO3.	S	S	S	S	S

S- Strong; M-Medium; L-Low

Fundamentals of e-Commerce - EC17C02

(56 Hrs)

Syllabus

Unit I (11 Hrs)

Introduction to computers- Importance of Computers- Computer Applications in various Areas of Business- General Application of Computers in Various Fields. Fundamentals of Computers: Classification of Computers- Basic Principles of operation of Digital Computer-Computer system-computer virus- Development of computers and Computer Generation- Computer Number System.

Unit II (11 Hrs)

Electronic commerce – Introduction – Business Models of e-Commerce - B2B e-commerce and EDI – Business Applications of e-commerce. Infrastructure for e-commerce – Communication networks for e-commerce.

Unit III (11 Hrs)

Network services – secure messaging – payment systems in e-commerce – Structured electronic documents.

Unit IV (12 Hrs)

e-online Banking: Introduction Concepts and Meaning-Need for computerization-Electronic delivery channels-Automated Teller Machine(ATM)-Electronic Fund Transfer(EFT)-uses-computerization in clearing houses-Telebanking-Electronic Money Transfer(EMT)-e-Cheque-Financial Transactions Terminals - MICR Cheques-e-Banking in India. Android Applications–Introduction-Concept-Applications. V-Commerce: Introduction and Features.

Unit V (11 Hrs)

E-Commerce Technology – Security Issues in e-Commerce – Legal and Ethical Issues - Role of social media in e-Commerce Industry-M-Commerce and WAP - Mobile Commerce Risk, Security and Payment Methods - Mobile money-infrastructure and fraud prevention for M-payment - Current Trends in electronic world – e-Waste – e-Surveillance – e-Governance - e-Care.

Text Book

Sl.No.	Author Name	Title of the Book	Publisher	Year and Edition
1.	R.Saravana Kumar R.Parameswaran T.Jayalakshmi	Information Technology (Unit I)	S.Chand	2015 Revised Edition
2.	V. Rajaraman	Essentials of E-Commerce Technology(Unit II,III)	PHI Learning Private Limited	2015 Revised Edition
3.	Dr.C.S.Rayudu	e-Commerce e-Business (Unit IV)	Himalaya publishing house	2015 Revised Edition

4.	Dr. U.S. Pandey Er. Saurabh Shukla	e-Commerce and Mobile Commerce Technologies (Unit II,V)	S. Chand	2015 Revised Edition
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Reference Books

Sl.No.	Author Name	Title of the Book	Publisher	Year and Edition
1.	S. Jaiswal	Doing Business on the Internet e-Commerce (Electronic Commerce for Business)	Galgotia Publications	2015 Revised Edition
2.	CSV Murthy	e-Commerce– Concepts, Models, Strategies,	Himalaya Publishing House.	2015 Revised Edition
3.	Ravi Kalakota Andrew B. Whinston	Frontiers of e-Commerce	Pearson Education	2015 Revised Edition

Pedagogy

Lecture, PPT, Quiz, Assignment, Group Discussion, Seminar

Course Designers

1. S. Radhika
2. M. Janani

Course Number	Course Name	Category	L	T	P	Credit
BP18CP1	COMPUTER APPLICATION PRACTICAL I- OFFICE PACKAGE	Practical	-	-	27	1

Preamble

- To give hands on training in basic computer applications.
- To inculcate programming ability to compute data.
- To aim at making experts in the most widely used application packages

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1.	Develop word documents using the word package tools.	K3
CO2.	Construct worksheets using Excel's advanced functionality.	K3
CO3.	Demonstrate presentation slides using power point tools	K2

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1.	S	S	S	S	M
CO2.	S	S	S	S	M
CO3.	S	S	S	S	M

S- Strong; M-Medium; L-Low

Computer Application Practical I- Office Package - BP18CP1

(27 Hrs)

Syllabus

WORD

1. Type a paragraph and Perform:
 - a. Font using font size, font style, line spacing tc.
 - b. Insert page numbers at the bottom right alignment

- c. Insert header consisting of date and time, insert footer consisting of page
 - d. Numbers.
 - e. Change the paragraph into two or three columns
 - f. Check the spelling and grammar
 - g. Use bullets and numbering
 - h. Use drop cap
 - i. Find and replace a word
2. Prepare a class timetable using table option and merging cells. Inserting the table, Data Entry, Alignment of Rows and Columns, Inserting and Deleting the Rows and Columns and Change of Table Format
 3. Prepare an application for a job with the bio-data using auto text.
 4. Prepare a college day invitation using borders and shading option, word art and pictures.
 5. Using mail merge, draft a shareholder's meeting letter for 5 members.
 6. Design an invoice and Account sales by using Drawing tool bar, Clip Art, Word Art, Symbols, Borders and Shading.

EXCEL

7. Enter the data with following fields:

- a) Serial no
- b) Name
- c) Address
- d) City
- e) Date of Joining
- f) Salary
- g) Course
- h) Duration
- i) No of students
- j) Total fees

Perform the following:

- a. Change font as bold
- b. Arrange the alignment as center
- c. Rename the sheet
- d. Insert a new sheet
- e. Move a sheet
- f. Delete a sheet
- g. Hide/Unhide Column

h. Change Column Width

8. Draw different graphs Column Chart, Line Chart, Pie Chart, Bar Chart, Area Chart, Scatter Chart, for a sample data.
9. Calculate Simple and Compound Interest. Prepare a statement of Bank customers account showing simple and compound interest calculations for 10 different customers using mathematical and logical functions
10. Enter the semester marks and calculate total auto-sum and average using function wizard.
11. Sort: Sort by Color, Reverse List, Randomize List.
12. Filter: Number and Text Filters, Date Filters, Advanced Filter, Data Form, Remove Duplicates, Outlining Data.

POWERPOINT

13. Design presentation slides for a product of your choice. The slides must include name, brand name, type of product, characteristics, special features, price, special offer etc
14. Design presentation slides for organization details for 5 levels of hierarchy of a company by using organization chart.
15. Design slides for the headlines News of a popular TV Channel. The Presentation Should contain the following transactions: Top down, Bottom up, Zoom in and Zoom out. The presentation should work in custom mode.
16. Design presentation slides about an organization and perform frame movement by interesting clip arts to illustrate running of an image automatically.
17. Design presentation slides for the Seminar/Lecture Presentation using animation effects and perform the following operations: Creation of different slides, changing background color, font color using wordart

Pedagogy

Demonstration through System, Demonstration through PPT

Course Designers

1. Dr.(Mrs.) R.KrishnaKumari
2. Dr.R.Vasanthi

Course Number	Course Name	Category	L	T	P	Credit
EC17C03	WEB PAGE DESIGNING	Theory	86	4	-	5

Preamble

- To introduce the concepts, terms and technologies used in web page designing.
- To provide the necessary knowledge on using the various technologies and tools for developing web sites.
- To facilitate the students to know the importance of SEO and to build e-commerce applications based on security guidelines.

Prerequisite

- Basics of computer knowledge
- Basics of HTML and CSS

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Design and develop basic web pages using HTML and CSS	K2
CO2	Develop web pages that present information, graphics and hypertext links to other web pages in a cohesive manner, and build up with peers a website using CSS structure, while demonstrating awareness of usability and other web design issues	K2
CO3	Examine and evaluate the effectiveness of a web design in respect to its context	K2 & K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	S	S	S
CO2	S	S	S	S	S
CO3	S	S	S	S	S

S- Strong; M-Medium; L-Low

Web Page Designing - EC17C03

(86 Hrs)

Syllabus

Unit I (17 Hrs)

Introduction to HTML – Information files creation – Web Client / Browser – Hyper Text Markup Language (HTML) – Commonly used HTML commands – Lists – Adding graphics to HTML documents – Tables – Linking Documents – Frames – Projects in HTML.

Unit II (17 Hrs)

Cascading CSS – Introduction to CSS – Where to add CSS Rules – CSS Properties – Controlling Fonts – Text Formatting – Text Pseudo-Classes – Selectors – Lengths – Introduction to Box Model – Links – Backgrounds – Lists – Tables – Outlines - :focus and :active Pseudo-Classes Generated Content – Miscellaneous Properties – Additional Rules – Positioning with CSS. **Dynamic HTML**.

Unit III (18 Hrs)

Search Engine Optimization (SEO):- Introduction-Importance of SEO-History of Search Engines- How search Engines Operate- Crawling Techniques- Basic types of Search Tools- How People use search engines and portals- page rank- anatomy of hyperlink- keywords and Queries- How to conduct keyword research- Why site structure is important- On page optimization vs. off page optimization- critical components of optimizing a site-information architecture – How to build a Traffic Worthy Site.

Unit IV (17 Hrs)

Webhosting: - Webhost-types-VPS-Domain for a website-DNS Information- Webhost: Bandwidth- Control Panels- Statistics- uptime-Ecommerce. **Website Design:** - Introduction-Role of Website in B2C E-commerce- Website strategies and Goals- Website Specification-Design principles-push and pull approaches- E-mail- E-mail Etiquette- E-mail Security-Online Marketing and promotion. **Tools for Website Design:** - Introduction- HTML-Front page- ASP- MS-Access.

Unit V (17 Hrs)

Security Guidelines for Developing E-Commerce Applications: - Introduction- Information Security- Security Threats-Database Security-SQL Injection- Approaches to Avoid SQL Injection- HTTP Char Set- Security Checklist for web Server- Information Disclosure- Session Hijacking- Database Encryption Concepts. **E-Commerce Testing Process:-** Introduction- Setting Up an E-commerce System- Need for Testing- Types of Testing- Testing Web Tier-Testing Middle Tier- Testing Data Tier- Other Tests.

Text Book

Sl. No.	Author Name	Title of the Book	Publisher	Year and Edition
1.	Ivan Bayross	Web Enabled Commercial Application Development Using HTML, Java script, DHTML and PHP(Unit – I, II)	BPB Publications	2015 Revised Edition
2.	Jon Duckett	Beginning Web Programming with HTML, XHTML, and CSS (Unit-II)	Wiley India Pvt. Ltd	2015 Revised Edition
3.	Dr. Pandey U S, Er. Saurabh Shukla	E-Commerce and Mobile commerce Technologies (Unit-III, IV, V)	S. Chand	2015 Revised Edition

Reference Books

Sl.No.	Author Name	Title of the Book	Publisher	Year and Edition
1.	Thomas A. Powell	The Complete Reference HTML & CSS	Tata McGraw-Hill	2015 Revised Edition
2.	Michele Petrovsky	Dynamic HTML in Action	Tata McGraw-Hill	2015 Revised Edition

Pedagogy

Lecture, PPT, Quiz, Assignment, Group Discussion, Seminar

Course Designers

1. Dr. P. Aishwarya
2. S. Radhika

Course Number	Course Name	Category	L	T	P	Credit
EC17CP2	COMPUTER APPLICATION PRACTICAL II - ACCOUNTING PACKAGE AND WEBPAGE DESIGNING	Practical	-	-	57	2

Preamble

- To practice accounting procedures and to maintain books of accounts using accounting software.
- To explore and acquire skills in computerized accounting procedures and practices for accounting needs of every commercial organization.
- To learn the language of the web: HTML and CSS.
- To develop skills in analyzing the usability of a web site. .
- To aim at making experts to design a webpage and accounting package

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1.	Familiarize with accounting and statutory features.	K1
CO2.	Use knowledge of HTML and CSS code and an HTML editor to create personal and/or business websites	K2
CO3.	Use critical thinking skills to design and create websites.	K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1.	S	M	L	L	L
CO2.	S	S	S	S	M
CO3.	S	S	S	M	M

S- Strong; M-Medium; L-Low

Computer Application Practical II - Accounting Package And Webpage Designing - EC17CP2 (57 Hrs)

Syllabus

ACCOUNTING PACKAGE

1. To Create Company, Groups and Ledgers
2. To prepare Receipt & Payment voucher entries
3. To prepare Purchase Order, Purchase voucher and Debit Note for a given list of transactions
4. To prepare Sales Order, Sale voucher and Credit Note for a given list of transactions
5. To prepare Contra and Journal vouchers
6. To prepare simple Payroll voucher and to display payroll report (pay slip report, pay sheet report and payroll statements report)
7. To prepare final accounts for a given trial balance
8. To prepare accounts with inventory
9. To prepare Stock Summary and Godown wise summary

WEBPAGE DESIGNING PROGRAMS

1. Create a webpage using list tags for manufacturing company to publish its information on the Web to draw user attention to its list of products.
2. Create a web page giving the following train details
 - Train name
 - Starting Place
 - Destination
 - Arrival and Departure Time
 - Fare

Place a border for the table and use cell padding to present the cell data with clarity. Align the table in the center of the screen. Use a Caption saying 'Time Table and Fare list'.

3. Create a document with two links to an external document. The first should lead to the beginning of the external document. The second link should lead to a particular section in the external document.
4. Create a specimen of a corporate web page. Divide the browser screen into two frames. The frames on the left will be a menu consisting of hyperlinks. Clicking on any one of these links will lead to a new page, which must open in the target frame, which is on the right hand side.
5. Create a web page, which accepts user information and user comments on the web site. Design the web page using form elements and checks if all the text fields have being entered with data else display an alert.
6. Design a web page for CYBERSHOP INC, Using style sheets.

7. Create a web page for Silicon Chip Technologies using Cascading Style sheets with various attributes.

Pedagogy

- Demonstration through System, Demonstration through PPT

Course Designers:

1. Mrs.S.Radhika
2. Ms.M.Maheshwari

Semester : I
Title : **FOUNDATION COURSE - INTRODUCTION TO ENTREPRENEURSHIP**
Subject Code : NME18ES
Credits : 2
Lecture Hours : 26

Unit 1 :(5 hrs)

Nature of Entrepreneurship: (3 hrs)

Meaning – Definition – Need of Entrepreneurship - Characteristics of Entrepreneurship - Importance of Entrepreneurship to the nation.

Activity: Assignment, Interaction (2 hrs)

Unit 2: (6 hrs)

Role of Entrepreneur (4 hrs)

Factors Influencing Entrepreneurship – Functions of Entrepreneurial Management – Barriers to Entrepreneurship - Pros and cons of Entrepreneurship.

Activity: Quiz / Role Play (2 hrs)

Unit 3: (6 hrs)

Business and Environment: (4 hrs)

Types of Entrepreneurs - Styles of Entrepreneurs – Business Ethics and Social Responsibility of Business – Indian Business Environment.

Activity: 50 Rupees Venture (2 hrs)

Unit 4: (6 hrs)

Creativity and Innovation: (4 hrs)

Identification of Business – Preparation of Business plan – Significance of Business plan – Components of Business plan- Feasibility Study: (Innovative ideas for marketing)

Activity: Business Plan

(2 hrs)

Unit 5: (7 hrs)

(7 hrs)

Project:

- Interface with Successful Entrepreneurs
- Role of Financial Institutions / Supporting Agencies.

Note: Interface – 4 hrs

Presentation – 3 hrs

Reference Books

1. Entrepreneurial Development - Gupta CB & Srinivasan N P, Sultan Chand & Sons, 6th Edition, 2005
2. Projects - Planning, Analysis, Financing, Implementation & Review - Prasanna Chandra, Tata McGraw Hill Publishing Co. Ltd, New Delhi, 2006

Course Number	Course Name	Category	L	T	P	Credit
EC19C04	AUDITING	Theory	86	4	-	5

Preamble

- To provide a strong foundation in Auditing concepts and Audit procedures.
- To impart the knowledge and skill required for Audit work.
- To inculcate the knowledge about the qualification of Audit report.

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1.	Understand the Qualification of an auditor	K1
CO2	In depth knowledge about vouching transactions	K2
CO3.	Examine and interpret audit reports	K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1.	S	S	S	S	M
CO2	S	S	S	S	M
CO3.	S	S	S	S	M

S- Strong; M-Medium; L-Low

Auditing - EC19C04

(86 Hrs)

Syllabus

UNIT I (17 Hrs)

Definition-General objectives of auditing –Advantages and limitations of auditing-Auditing & investigation-Qualification of an auditor- Auditor vis-à-vis errors and frauds. Types of audit-continuous audit-final audit-Interim audit-Balance sheet - Advantages of continuous audit.

UNIT II (17 Hrs)

Audit Procedure- Planning of Audit-Audit Programme –Audit Note book-Audit working papers –Internal control- Internal check as regards cash, wages, and sales etc-Position of external auditor as to internal audit.

UNIT III (17 Hrs)

Vouching-Vouching of cash transactions-Trading transactions-Impersonal ledger

UNIT IV (17 Hrs)

Verification and valuation of assets and liabilities-Auditors position – Auditor’s duty regarding depreciation, reserves and provisions.

UNIT V (18 Hrs)

Company audit-appointment and removal of auditors-rights and duties of co-auditors-liabilities-audit of share capital &share transfer-introduction to EDP Auditing-sample of audit report-Qualification& disqualification of auditor’s report- e-Auditing

Text book

No	Author Name	Book Name	Publisher	Year and edition
1.	DinkarPagare	Principles & Practice of Auditing	Sultan Chand &Sons	11 th Edition 2007, Reprint 2013

Books for Reference

S.No	Author Name	Book Name	Publisher	Year and edition
1.	Kishnadwalla	Auditing	Sultan Chand &Sons	5 th Edition Reprint 2009
2.	Pradeep Kumar	Auditing Principles and Practice	Kalyani Publishers	4 th Edition Reprint
3.	Tandon B.N	Practical Auditing	Sultan Chand &Sons	6 th Edition Reprint 2009

Pedagogy

- Lecture through power point presentations and board, Discussion, Assignment, Practice Problems, Quiz, and Seminar

Course Designers

1. Dr.R.Krishnakumari
2. Dr.R.Vasanthi

Course Number	Course Name	Category	L	T	P	Credit
EC19C05	CYBER LAW	Theory	86	4	-	5

Preamble

- To enlight the student's knowledge in the basics of Cyber law.
- To establish knowledge about cyber crime and cyber offences.

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Explain laws governing cyberspace and analyze the role of Internet Governance in framing policies for Internet security.	K1
CO2	Illustrate the legal issues with online trading, applicable e-contracting and taxation regulations.	K2
CO3	Identify the laws related to cyber crime, patent, trade mark and international convention.	K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1	M	S	M	S	M
CO2	S	M	S	M	S
CO3	S	S	S	S	L

S- Strong; M-Medium; L-Low

Cyber Law - EC19C05

(86 Hrs)

Syllabus

UNIT I (17 Hrs)

Cyber law- Introduction-cyber law in India- salient provisions- jurisprudence of cyber law. Cyber space- salient features of cyberspace-netizen, *Cyber law in India: Need for enactment of the Information Technology Act 2000¹ - An overview of Information Technology Act 2000².*

UNIT II (18 Hrs)

Electronic record-Attribution of electronic records- Acknowledgement of receipt-Time & place of

dispatch and receipt of E- record- On line contracts- Contract under Indian Contract Act 1872- Time & place of formation of E-contract_ *Certifying authority*³- Cross Certification- Role of the certifying authority.Subscriber- Procedure- Duties- Compromise of Digital Signature Certificate.

UNIT III (17 Hrs)

Cryptography, encryption techniques& algorithm and digital signature & electronic signature: - problems in electronic record- Requirements for an electronic record- *Digital signature- Electronic signature- Difference between Digital signature& Electronic signature*⁴-Secure electronic record& secure digital signature- Privacy of online data information. Intellectual property rights- International scenario.

UNIT IV (17 Hrs)

Cyber crime- Introduction-Classification-Prevention-Cyber crimes existing in the society- cyber contraventions under information technology Act 2000- *Cyber offences under the information technology Act 2000*⁵

UNIT V (17 Hrs)

Patent issues in digital medium- Introduction- scope- Requirement-features- International law relating to patent-International convention for the protection of new varieties of plants 1961- Patent cooperation treaty 1970- Patent law in India. *Trademark*⁶ issues in digital medium- Meaning- Functions-attributes-*Registrable& non registrable trade mark*⁷- International law relating to trade mark- Indian law relating to trade mark.

Text Books:

S.No	Author Name	Title of the Book	Publisher	Year and Edition
1.	Jyoti Rattan	Cyber Law& Information Technology (unit-II,III,IV, V)	Bharat Law House	8 th Edition 2016
2.	Pandey U.S. SayrabhShuklaEr.	E-commerce& Mobile commerce Technologies (unitI)	S.Chand	4 th Edition 2010

Book for Reference:

S.No	Author Name	Title of the Book	Publisher	Year and Edition
1.	Sharma Vakul	Hand book of cyber law	Landmark books	2016

Blended Learning - Links

1. shodhganga.inflibnet.ac.in/bitstream/10603/7829/16/16_chapter%207.pdf
2. <https://www.youtube.com/watch?v=TAz-E06SdBk>
https://www.tutorialspoint.com/information...law/.../information_technology_act.pdf
3. http://www.indiancybersecurity.com/cyber_law/21_certifying_authorities.html
4. <https://www.approveme.com/e-signature/difference-between-digital-signature-and-electronic-signature/>
5. <https://www.lawctopus.com/academike/offences-act-2000>
6. <http://www.legalserviceindia.com/trademarks-copyrights/trade%20markmainpage.html>
7. <https://www.indiafilings.com/learn/registrable-trademarks/>
8. <https://swayam.gov.in/courses/5150-information-and-communication-technology>

Pedagogy

- Lecture, Assignment, Group Discussion, Power Point Presentation and Seminar.

Course Designers:

1. Ms. S.Chitra
2. Ms. M.Maheswari

Course Number	Course Name	Category	L	T	P	Credit
EC19C06	RELATIONAL DATABASE MANAGEMENT SYSTEM	Theory	71	4	-	4

Preamble

- To provide comprehensive knowledge about relational database management system
- To enlighten about prominent commands used in structured query language

Prerequisite

- No prerequisite required

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Interpret about relational database management concepts	K1
CO2	Develop the tables using normalization	K2
CO3	Illustrate about the SQL operators and keys	K3

Mapping with Programme Outcomes

Cos	PO1	PO2	PO3	PO4	PO5
CO1	S	S	S	S	M
CO2	S	S	S	S	M
CO3	S	S	S	S	M

S- Strong; M-Medium; L-Low

Relational Database Management System - EC19C06

(71 Hrs)

Syllabus

UNIT I (15 Hrs)

Introduction to database management system-Data models-Database system architecture- The SQL Language- Relational database Management System- Candidate key, primary tables key, Foreign key-Relational operators-Attribute domains and their implementations-New conventions for Database object-Structure of SQL statements and SQL writing guidelines-Creating tables-Describing the structure of a table-Populating tables.

UNIT II (14 Hrs)

Functional dependencies-*Normalization process: 1NF-2NF-3NF-BCNF¹*. The E-R model-Entities and attributes-Relationships-Normalizing the model-Table instance charts

UNIT III (14 Hrs)

Implementation of the selection operator-Using aliases to control column headings-
Implementation of the projection and join operators -Creating foreign keys and primary keys and check constraints -adding and modifying columns - *Removing constraints from a table²*.

UNIT IV (14 Hrs)

Built in functions-Numeric- Character conversion functions - Introduction to group functions- sum, avg, max, min, count - combining single value and group functions- Displaying specific groups- Introduction to processing date and time- Arithmetic with dates- Date functions- Formatting dates and time.

UNIT V (14 Hrs)

Sub queries-Correlated queries- Using sub queries to create, update, insert and delete rows from a table - Transaction – Commit, rollback, save point and auto commit- *Introduction to PL/SQL-user defined functions-Triggers³*-Stored procedures.

Text Book

S.No	Author Name	Book Name	Publisher	Year and edition
1	Ramon A Mata- Toledo Pauline K Cushman	Database Management System	Tata McGraw-Hill Publishing company limited, New Delhi.	2010, 2 nd edition

Reference books

S.No	Author Name	Book Name	Publisher	Year and edition
1	Ramakrishnan&Gehrke	Database Management Systems	Tata McGraw Hill	2009, 8 th edition
2	Nilesh Shah	Database Systems using Oracle	PHI learning pvt Ltd	2014, 2 nd edition
3	Alexis Leon & Mathews Leon	Fundamentals of database management systems	Tata McGraw Hill	2011, 3 rd edition

Blended Learning Links

1. <https://www.youtube.com/watch?v=-InF1bpXCn0>
2. https://www.youtube.com/watch?v=jB1btTR_b4s
3. <https://www.youtube.com/watch?v=xofpqrU3cD4>

Pedagogy

- Presentation, practice, Quiz, Assignment, Group Discussion and Seminar.

Course Designers:

1. Mrs. R.KrishnaKumari
2. Ms. R.Kalaivani

Course Number	Course Name	Category	L	T	P	Credit
EC19A01	INDUSTRIAL RELATIONS	Theory	71	4	-	5

Preamble

- To establish knowledge about company's act and to acquaint the basic concepts of Industrial Relations.
- To identify, Legal Framework of Trade Union
- To identify role of labour administration in dispute settlement

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1.	Outlines and examines the industrial relation concept, roll and functional requirements.	K1
CO2.	Examine the theoretical aspects, problems and issues in arbitration and bargaining and models of bargaining and arbitration	K2
CO3.	Find solutions to industrial relations problems based on research and assessment of current practices..	K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1.	S	S	S	M	S
CO2.	S	S	M	S	S
CO3.	S	S	S	S	L

S- Strong; M-Medium; L-Low

INDUSTRIAL RELATIONS - EC19A01

(71 Hrs)

Syllabus

UNIT I (14 Hrs)

Industrial Relations:- Introduction – Definition of Industrial Relations – Content of Industrial Relations – Objectives of Industrial Relations – Participants in Industrial Relations – change in the Role of the Three Actors – Functional Requirement for Successful IR Programme – Industrial Relations Perspectives – The Nature of Employment Organisations – The Hawthorne studies.

UNIT II (15 Hrs)

Trade Unionism: - Definition- Principles- Significance- Objectives and Functions- History- Principal- Recognition- Multiplicity- Features and Weaknesses- Essentials of a successful Trade Union- What a trade union should do – Recommendations of the National Commission on Labour. **Collective Bargaining:-** Definition- features- significance and objectives -Extent and scope – The Bargaining Area – Coverage of Issues – Prerequisites – Hindrances – Practices and Procedures – Bargaining Procedure – Labour Agreement – Process – Work in India – Types of Agreements – Arbitration and Collective Bargaining.

UNIT III (14 Hrs)

Participative Management:-Meaning – Difference - Managerial Philosophy – Decision Making – Forms – Evolution – Objectives – Workers participation in India – Government Approaches – Hurdles. **Employee Grievance:-** Definition – Approaches – Causes – Effects – handling Grievance – Discovery – Process – Steps – Do's and Don'ts – Grievance and Industrial Relations.

UNIT IV (14 Hrs)

Industrial Disputes: Prevention: - Forms – Types – Causes – Conflict Resolution – Preventive Process – Labour Administration Machinery. **Disciplinary Proceedings:** - Statutory set up before 1971 – ID(Amendment) Act, 1982 – Principles of Natural justice – steps

UNIT V (14 Hrs)

Industrial Relations: Settlement – process – Reference of Disputes to Boards, Courts, or Tribunals – Other Statutory Measures – Role of Players. **Future Scenario of Union-Management Relationship:-**Concepts and values – Industrial Relations Environment in India – Upcoming Challenges – HRD Dimension – Managing for Good Industrial Relations.

Text Book:

Sl.No.	Title of the Book	Author Name	Publisher	Year and Edition
1.	Industrial Relations	MonalArora	Excel Books	Current Edition

Books for Reference:

Sl.No.	Title of the Book	Author Name	Publisher	Year and Edition
1.	Modern Industrial Relations And Labour Laws	Jain And Bhola	Regal Publication - New Delhi	Current Edition
2.	Industrial Relations And Labour Welfare	Sivarethinamohan,R	Phi Learning Private Limited	Current Edition

Pedagogy

- Lecture, Assignment, Group Discussion, Power Point Presentation and Seminar.

Course Designers:

1. Mrs.M.Bhuvanewari
2. Mrs.S.Radhika

Course Number	Course Name	Category	L	T	P	Credit
EC17CP3	COMPUTER APPLICATION PRACTICAL III - DATABASE PROGRAMMING	Practical	-	3	42	1

Preamble

- To enhance practical knowledge in Database Management

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Relate the access database application environment and queries using built-in functions and operators	K1
CO2	Enumerate and demonstrate the database in Access in SQL	K2
CO3	Construct data definition and data manipulation languages in SQL	K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	S	S	L
CO2	S	S	S	S	L
CO3	S	S	S	S	L

S- Strong; M-Medium; L-Low

Computer Application Practical III - Database Programming - EC17CP3

(42 Hrs)

Syllabus

ACCESS

- Normalize and form a table structure for Student, Employee and Product.
- Create a table using Design View and Table Wizard for Student Database and enter values.

STRUCTURED QUERY LANGUAGE (SQL)

Programs 1-5 are to be worked out and executed using Oracle-SQL and MS-SQL

1) Data Definition Language

Table: Student

Regno number (5) primary key

Studname varchar2 (15)

Gender char (6)

Deptname char (15)

Address char (25)

Percentage number (4, 2)

Queries:

- a) To create a table
- b) To describe a table
- c) To alter a table
- d) To drop a table
- e) To truncate a table

2) Data Manipulation Language

Table: Student

Regno number (5) primary key

Studname varchar2 (15)

Gender char (6)

Deptname char (15)

Address char (25)

Percentage number (4, 2)

Queries:

- a. To insert values
- b. To retrieve records
- c. To update records
- d. To delete records

3) Create an Employee table with following field.

Eno number (5) primary key

Ename varchar2 (20) not null

Deptno number (2) not null

Desig char (10) not null

Sal number (9, 2) not null

Comm. Number (7, 2) null

Queries:

- a) Insert values and display the records
- b) Display sum, maximum amount of basic pay
- c) List the name of the clerks working in the department 20
- d) Display name that begins with 'G'
- e) List the names having 'I' as the second character
- f) List the names of employees whose designation are 'Analyst' and 'Salesman'
- g) List the different designation available in the Employee table without duplication (distinct)

4) Create a table "Company" with the following fields and insert the values for 10 employees.

Compid number (6) primary key

Compname varchar2 (15) not null

Proprietor varchar2 (15) not null

Address varchar2 (25) not null

Supname varchar2 (15)

Noofempl number (4)

GPPercent number (6, 2)

Queries:

a) Display all the records of the company which are in the ascending order of GP percent.

b) Display the name of the company whose supplier name is "Telco".

c) Display the details of the company whose GP percent is greater than 20 and

Order by GP Percent.

d) Display the detail of the company having the employee ranging from 300 to 1000.

e) Display the name of the company whose supplier is same as the Tata's.

5) Create a student table with the following fields

Stuno number (5) primary key

Stunm Varchar2 (20)

Age number (2)

Mark1 number (3)

Mark2 number (3)

Mark3 number (3)

Queries:

a) Insert values and display the records

b) List the names and age of the student whose age is more than 12

c) Display total and average of marks

d) Display the names of the maximum total & minimum total student

e) List the names of the student that ends with 'A'

f) List the names of student whose names have exactly 5 characters

(Programs 1 to 5 are to be worked out and executed in both Oracle SQL and Microsoft SQL)

6) Create a table "Product" with the following fields and insert the values:

Prodno number (6)

Prodname varchar2 (15)

Unitofmeasure varchar2 (15)

Qty number (6, 2)

Totamt number (8, 2)

Queries:

a) Using update statements calculate the total amount and then select the record.

b) Select the records whose unit of measure is "Kg".

c) Select the records whose quantity is greater than 10 and less than or equal to 20.

d) Calculate the entire total amount by using sum operation.

e) Calculate the number of records whose unit price is greater than 50 with count operation.

7) Create the table Payroll with the following fields and insert the values:

Emplno number (8)

Emplname varchar2 (8)

Dept varchar2 (10)

Baspay number (8, 2)

HRA number (6, 2)

DA number (6, 2)

Pf number (6, 2)

Netpay number (8, 2)

Queries:

- a) Update the records to calculate the net pay.
- b) Arrange the records of the employees in ascending order of their net pay.
- c) Display the details of the employees whose department is "Sales".
- d) Select the details of employees whose HRA \geq 1000 and DA \leq 900.
- e) Select the records in descending order.

8) Create a Table Publisher and Book with the following fields:

Table: publisher

Pubcode Varchar2 (5)

Pubname Varchar2 (10)

Pubcity Varchar2 (12)

PubState Varchar2 (10)

Bookcode Varchar2 (5)

Table: Book

Booktitle Varchar2 (15)

Bookcode Varchar2 (5)

Bookprice Varchar2 (5)

Queries:

- a) Insert the records into the table publisher and book.
- b) Describe the structure of the tables.
- c) Show the details of the book with the title "DBMS".

- d) Show the details of the book with price>300.
- e) Show the details of the book with publisher name "Kalyani".
- f) Select the book code, book title; publisher city is "Delhi".
- g) Select the book code, book title and sort by book price.
- h) Count the number of books of publisher starts with "Sultan chand".
- i) Find the name of the publisher starting with "S".

9) Create a table Deposit and loan with the following fields:

Table: Deposit

Accno	number (3)
Account	varchar2 (6)
Branch Name	varchar2 (15)
Custname	varchar2 (20)
Balanceamt	varchar2 (10)

Table: Loan

Loanno	number (5)
Branchnm	varchar2 (15)
Custnm	varchar2 (30)
Loanamt	number (10)

Queries:

- a) Insert the records into the table.
- b) Describe the structure of the table.
- c) Display the records of Deposit and Loan.

- d) Find the number of loans with amount between 10000 and 50000.
- e) List in the alphabetical order the names of all customers who have a loan at the Coimbatore branch.
- f) Find the average account balance at the Coimbatore branch.
- g) Update deposits to add interest at 5% to the balance.
- h) Arrange the records in descending order of the loan amount.
- i) Find the total amount of deposit in 'Erode' branch.

10) Create a Route chart with the following fields

Routenonumber(2) unique

Origin varchar2(15)

Destn varchar2(15)

Fare number (5)

Distance number (5)

Queries:

- a) Insert values and display the records
- b) List the details whose origin are Chennai, Kerala, Coimbatore(use in operator)
- c) Display the records whose distance >20
- d) List the details not belonging to the origin Mumbai, Calcutta, Goa (use not in operator)
- e) List Routeno, Origin where fare between 1000 and 2000

11) Create the course and batch table with following fields

Table: Course

Courseno number (5) primary key

Coursename varchar2(20)

Syllabus varchar2(25)

Table: Batch

Batchno number (5) primary key

Courseno number (5) foreign key

Startingdt date

Duration varchar2 (15)

Income number (5)

Queries:

- a) Insert values and display the records
- b) Display the records from batch table whose Courseno is '9'
- c) Display the Courseno, Coursename for the batch starting from '25 June 2000'
- d) List Batchno for the batch starting before '30th June 2001' and after 'December 2001'
- e) List the details of the batch who have joined before the end of 'September 2001'

12) Create Employee and Department table with following fields

Table: Employee

Eno number (5) primary key

Ename varchar2 (20) not null

Deptno number (2) not null

Desig char (10) not null

Sal number (9, 2) not null

Comm. Number (7, 2) null

Table: Department

Deptno varchar2 (15) primary key

Deptnm varchar2 (15)

Queries:

- a) Display the details of department table
- b) List the name, salary and PF amount of all the employees(PF is calculated as 10% of salary)
- c) List the department numbers and number of employees in each department(Group by)
- d) List the average salary from each job excluding managers
- e) List the jobs and the number of employees in each job. The result should be in descending order of the number of employees
- f) List the employees who are eligible for commission
- g) List the names of the employees who are not 'managers'

13) Create Employee and Department table with following fields

Table: Employee

Eno number (5) primary key

Ename varchar2 (20) not null

Deptno number (2) not null

Desig char (10) not null

Sal number (9, 2) not null

Comm. Number (7, 2) null

Table: Department

Deptno varchar2 (15) primary key

Deptnm varchar2 (15)

Queries:

- a) List the department number and the total salary payable in each department
- b) List the total salary, maximum and minimum salary and the average salary of employees designation wise

- c) Display the empno, name whose shift is morning
- d) List average salary for all departments employing more than five people (having)
- e) List jobs of all the employees where maximum salary is greater than or equal to 5000 (having)
- f) Raise employee salary by 0.15 for the employees working as 'programmers'
- g) Delete the records where commission is 'null'
- h) List the average salary and number of employees working in the department '20'

14) Create Library with the following fields

Bookno	number (5)
Booknm	varchar2 (10)
Authornm	varchar2 (10)
Price	number (3, 8)
Status	varchar2 (5)
Category	varchar2 (5)

Queries:

- a) Display the author name, price of tax book
- b) Display the price of book banking
- c) Display the count of category commerce
- d) List the book details in ascending order of price (order by)
- e) List the book details in descending order of book no and price (order by)

15. Create Hospital details with the following fields

Pid number (5) primary key

Pnm varchar2 (20) not null

Wardnonumber (5)

Doa date

Dod date

Disease varchar2 (25)

Fees number (9, 2)

Queries:

- a) Insert values into the table
- b) Append patient name and disease
- c) Capitalise the first character of patient name to convert into upper and lower case
- d) Display the records having phonetic representation like 'Jai'
- e) Select four characters from the third position of patient name
- f) Display the current date
- g) Display date of discharge and add 7 months to it and deduct 7 months from it
- h) To calculate number of days patient admitted
- i) Display corresponding day of discharge of patient

Pedagogy

- Lecture , Demo in System

Course Designers:

- 1. Dr. Mrs. Meenakshi
- 2. Ms. A. AnuMenon

COURSE NUMBER	COURSE NAME	Category	L	T	P	Credit
EC19C07	E-COMMERCE TECHNOLOGY	THEORY	71	4	-	4

Preamble

- To demonstrate an awareness of the main components and concepts of e-commerce, and the vital role it plays in modern business practice.
- To understand the basic concepts in E-Commerce.

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1.	Design and implement an e-commerce application with a shopping cart.	K1
CO2.	Explain the effectiveness of network computing and cloud computing policies in a multi- location organization.	K2
CO3.	Analyze real business cases regarding their e-business strategies and transformation processes and choices.	K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
C01	S	S	S	S	S
C02	S	S	S	S	S
C03	S	S	S	M	L

S- Strong; M-Medium; L-Low

e-Commerce Technology - EC19C07

71 Hrs

Syllabus

UNIT I(14 Hrs)

Electronic Commerce Framework – Electronic Commerce and Media convergence. The Network Infrastructure for Electronic Commerce: Components of the I-Way-Network Access Equipment-Global Information Distribution Networks. The Internet as a Network Infrastructure: *Internet Terminology*¹-NSFNET-National Research and Educational Network.

UNIT II(14 Hrs)

*Electronic Payment Systems*²: Overview of Electronic Payment Systems – Smart card and e-Payment system – Credit Cards based e-Payment system, risk and e-Payment system, Designing e-Payment system *Corporate Digital Library*³ Dimension of Internal Electronic Commerce Systems- Types of Digital Documents Issues behind Document Infrastructure. *Corporate data Warehouse*⁴.

UNIT III(15 Hrs)

Internet Payment System: Characteristics of Payment system – 4C Payment methods – SET Protocol for credit card payment – e-Cash – e-Check – Micropayment system – Overview of smart card and Mondex. e-Services: Categories of e-Services – Web enabled services – Match making services – Information selling on the web – e-Entertainment – Auctions & other specialized services. E-Governance.

UNIT IV(14 Hrs)

Consumer oriented e-Commerce: Introduction – Traditional retailing and e-Retailing – Benefits of e-Retailing – Key success factors – Models of e-Retailing – Features – Developing a consumer oriented e-Commerce system – The PASS Model. **Business oriented e-Commerce**⁵ Features – Business Models – Integration. Examples of the types of e-Commerce: Intel - Amazon – e-bay – Priceline.

UNIT V (14 Hrs)

Web advertising and Web publishing: Traditional Vs. Internet advertising – Internet advertising techniques and strategies – Business models for advertising and their revenue streams – Pricing models – Web publishing – Website development methodologies – Logical design of the user interface I & II – Usability testing and quality assurance – Web presence and visibility. Step by step exercise for building the Virtual Book Store(VBS).

Text Books:

Sl.No.	Author Name	Title of the Book	Publisher	Year and Edition
1.	Unit I & II Ravi Kalakota and Andrew B. Whinston	Frontiers of Electronic commerce	Pearson Publication Ltd	2013, V Edition
2.	Unit III, IV & V Henry Chan, Raymond Lee, Tharam Dillon and Elizabeth Chang	E- Commerce Fundamentals and Applications	Wiley India Pvt. Ltd.	Third reprint 2007
3.	Unit III – eGovernance& Unit IV – Intel Kamlesh K Bajaj and Debjani Nag	e-Commerce the cutting edge of business	Tata McGraw Hill	Sixth reprint 2008

Books for Reference:

Sl.No.	Author Name	Title of the Book	Publisher	Year and Edition
1.	P.T. Joseph	Electronic Commerce–A Managerial Perspective	Pearson Education,	Current Edition
2.	CSV Murthy	E-Commerce – Concepts, Models, Strategies	Himalaya Publishing House.	1 st Ed 2011
3.	Schneider	E-Commerce Business Technology. Society,	Thomson Publication	Current Edition

Blended Learning Links

1. <https://www.axisfirst.co.uk/web/advice/internet-terminology-for-beginners/article/77034>
2. <https://securionpay.com/blog/e-payment-system/>
3. <https://www.scribd.com/doc/20489539/Corporate-Digital-Library>
4. <https://www.wisdomjobs.com/e-university/e-commerce-concepts-tutorial-7/date-warehousing-11849.html>
5. <https://www.scribd.com/presentation/244246082/Business-Oriented-E-Commerce>

GENERAL REFERENCE

1. https://www.tutorialspoint.com/e_commerce/e_commerce_resources.htm

Pedagogy

Lecture, PPT, Quiz, Assignment, Group Discussion, Seminar

Course Designers:

1. Mrs.D.Vanisree
2. Dr.P.Aishwarya

Course Number	Course Name	Category	L	T	P	Credit
EC19C08	OBJECT ORIENTED PROGRAMMING WITH C++	Theory	71	4	-	4

Preamble

- To understand the concepts of object oriented programming.
- To develop programming skills in C++ language.

Course Outcomes

On the successful completion of the course, students will be able to

COS Number	CO Statement	Knowledge Level
CO1	Explain the concepts of Object Oriented Programming in C++	K1
CO2	Summarize the functions and operators used in C++	K2
CO3	Develop program involving classes and objects.	K3
CO4	Constructs programs involving C++ concepts	K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	S	S	M
CO2	S	S	S	S	M
CO3	S	S	S	S	M
CO4	S	S	S	S	M

S- Strong; M-Medium; L-Low

Object Oriented Programming With C++ - EC19C08

(71 Hrs)

Syllabus

Unit I (14 Hrs)

Principles of Object Oriented Programming – A Look at Procedure and Object Oriented Programming Paradigm – Basic Concepts of Objects Oriented Programming – Benefits of OOP – Object Oriented Languages – Application of OOP – Beginning with C++ – What is C++ – Application of C++ – C++ Statements – Structure of C++ Program.

Unit II (14 Hrs)

Tokens, Expressions and Control Structures – Tokens – Keywords – Identifiers – Basic and User Defined Data Types – Operators in C++ – Operator Overloading – Operator Precedence – Control Structures. Functions in C++ – The Main Function – Function Prototyping – Call by Reference – Return by Reference – Inline Functions.

Function overloading –friend and virtual functions.

Unit III (15 Hrs)

Classes and Objects – Introduction – Specifying A Class – Defining A Member Function – Static Data Members – Arrays of Objects – Objects as Function Arguments – Friendly Function – Pointers to Members. Constructors and Destructors – Constructors – Copy Constructors – Dynamic Constructors – Destructors.

Unit IV (14 Hrs)

Operator Overloading – Type Conversions – Introduction – Defining Operator Overloading – Overloading : Unary and Binary Operators – Overloading Binary Operators Using Friends – Manipulation of String Using Operators – Rules for Overloading Operators – Types Conversions – Inheritance – Extending Classes – Defining Derived Classes – Single, Multilevel, Multiple, Hierarchical and Hybrid Inheritance – Virtual Base Classes – Abstract Classes.

Unit V (14 Hrs)

Pointers, Virtual Functions and Polymorphism – Pointers to Objects – Pointers to Derived Classes – Virtual Functions. Working With Files – Classes For File Stream Operations – Opening and Closing of a File – File Pointers and their Manipulation – Sequential I/O Operations.

Text Book:

S.No	Author	Title of the Book	Publisher	Year & Edition
1.	Balaguruswamy.E	Object Oriented Programming with C++	Tata McGraw Hill Publishing Co. Ltd	6 th Edition, 2013

Books for Reference:

S.No	Author	Title of the Book	Publisher	Year & Edition
1.	Ravichandran.D	Programming with C++	Tata McGraw Hill Publishing Co. Ltd	5 th Edition Reprint 2011
2.	Venugopal K.R., Rajkumar, Ravishankar T.	Mastering C++	Tata McGraw Hill Publishing Co. Ltd	4 th Edition Reprint 2015

Pedagogy

- Lecture, PPT, Quiz, Assignment, Group Discussion, Seminar

Course Designers:

1.Ms.S.Sangeetha

2.Mrs.D.Vanisree

Course Number	Course Name	Category	L	T	P	Credit
CM19C09	PRINCIPLES OF FINANCIAL MANAGEMENT	Theory	86	4	-	4

Preamble

- To familiarize the students with the principles and practices of financial management
- To understand the concepts of financial management and its application for managerial decision making.

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
C01	Define and identify the concepts of Financial Management	K1
C02	Interpret financial statements for strategic decision making	K2
C03	Apply and practice concepts to enable financial planning	K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1	S	S	S	S	S
CO2	S	M	S	S	M
CO3	S	S	M	S	M

S- Strong; M-Medium; L-Low

Principles of Financial Management - CM19C09

(86 Hrs)

Syllabus

UNIT I(17 Hrs)

Business Finance – Meaning, Definition, Scope, Importance, Finance Functions, Fixed and variable

objectives of Financial Management – Factors influencing Financial Decisions – Source of Capital – Financial Planning – Capitalisation – Time value of money.

UNIT II(17 Hrs)

Capital Structure – Introduction – Importance – Financial Break Even Point – Point of Indifference – Optimal Capital Structure – Risk Return Trade off - Theories of Capital Structure, NI, NOI, MM, Arbitrage process – Factors Determining Capital Structure – Capital Gearing. **Leverage** – Meaning, Types, Impacts, Significance and Limitation.

UNIT III(17 Hrs)

Cost of Capital – Meaning – Significance – Classification of cost – Computation of cost of capital – Cost of debt, Preference, Equity and Weighted average Cost of Capital. **Capital Budgeting** – Meaning – Need – Importance – Kinds and process of Capital Budgeting Techniques of Appraisal of Investment Proposal.

UNIT IV(18 Hrs)

Working Capital Management – Meaning, Concepts, Classification, Importance, Objects of working Capital – Factors determining the Working Capital Requirements – Management of working capital – Methods of Estimating Working Capital Requirements. **Cash Management** – Determining optimum cash balance.

UNIT V(17 Hrs)

Receivables Management – Forming of credit policy. **Inventory Management** – Tools and Techniques of Inventory Management.

Dividend Policy - Factors Affecting Dividend – Types of Dividend – Advantages and disadvantages of stable dividend policy – Theory of Relevance and Irrelevance – Bonus Issue – Rights Issue.

***Theory only**

Distribution of marks Theory 40% Problems 60%

Text Book

S.No.	Author name	Title of the book	Publisher	Year &Edition
1	Shashi .K.Gupta Sharma R.K	Financial Management	Kalyani Publishers	7 th Edition, 2014

Books for Reference

S.No.	Author name	Title of the book	Publisher	Year &Edition
1	Khan&Jain	Financial Management	Tata McGraw Hill	6 th Edition, 2017
2	Maheshwari S.N	Financial Management	Sultan Chand & Sons	14th Edition, 2014
3	Pandey I.M	Financial Management	Vikas publishing House Ltd	4 th Edition, 2013
4	Prasanna Chandra	Financial Management	Tata McGraw Hill	4 th Edition, 2017

Pedagogy

- Lecture, PPT, Quiz, Assignment, Group Discussion, Seminar

Course Designers

1. Mrs1. S.Dharchana
2. Mrs2. S.Manasha

Course Number	Course Name	Category	L	T	P	Credit
EC19A02	SECURITY ANALYSIS & PORTFOLIO MANAGEMENT	Theory	71	4	-	5

Preamble

- To obtain information about the financial position of the investor and his ability to assume risk.
- To formulate objective ideas and philosophies concerning the various types of securities
- To know about the behavior of security market, approach to valuation and portfolio management

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Examine the government securities issued from time to time and the yield structure of the government securities.	K1
CO2	Direct attention towards the problem of portfolio management both in theory and in practice	K2
CO3	Manipulate the foreign portfolio investment as an alternative source of financing with a higher future potential.	K3

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
C01	S	S	S	M	M
C02	S	S	S	S	M
C03	S	S	S	M	L

S- Strong; M-Medium; L-Low

Security Analysis & Portfolio Management - EC19A02**(71 Hrs)****Syllabus****UNIT I (14 Hrs)**

Investments: Nature and scope-Investment and Speculation – Feature of an investment programme - Investment Process – Stages in investment – Element of investment – Approaches to Investment. Returns - Risk: Risk Classification – systematic, unsystematic risk Measurement - investor’s attitude towards return and risk.

UNIT II (15 Hrs)

Investment Alternatives: Investor Classification- Bonds –features of Bonds – Types, Classification ,– Evaluation. Analysis of Preference Shares – Equity Shares – Derivatives: Futures and Options. Government Securities - insurance, investment in mutual funds, land, Gold, Silver, Diamonds, Antiques.

UNIT III (14 Hrs)

Fundamental Analysis: Economic analysis - Industry analysis – Company Analysis – Company Financial Statement – Ratio Analysis – Book value – Market Value of Shares – Growth Share, Income Shares. Technical Analysis: Assumptions – Dow Theory Charts and Signals – Technical Indicators.

UNIT IV (14 Hrs)

Efficient Market Theory: Weak Form – Semi Strong form-Strong form of Market- Portfolio Analysis: Traditional Vs Portfolio Analysis - Markowitzs theory – Sharp Ideal Index.

UNIT V (14 Hrs)

Portfolio Selection Portfolio Selection – factor – Internal Diversification. Portfolio techniques - Formula Plans- Constant Rupee Value – Constant Ratio – Variable Ratio – Rupee Cost Averaging.

Text Book:

Sl.No.	Title of the Book	Author Name	Publisher	Year and Edition
1.	Investment Management- Security Analysis & Portfolio Management	Preeti Singh	Sultan Chand & Sons, New Delhi	Current Edition
2.	Security Analysis and Portfolio Management	S. Kevin	PHI Publications	Second Edition

Books For Reference:

Sl.No.	Title of the Book	Author Name	Publisher	Year and Edition
1.	Security Analysis & Portfolio Management	Donald & Fischer	Prentice hall, Delhi	Current Edition
2.	Portfolio Management.	K. Bhalla	S.chand Publishers	Current Edition
3.	Portfolio Management	Prasanna Chandra	Tata MC grawhill Publishers	Current Edition
4.	Security Analysis & Portfolio Management	PunithavathyPandian	Vikas Publishers	Current Edition

Pedagogy

- Lecture, PPT, Quiz, Assignment, Group Discussion, Seminar

Course Designers:

1. Mrs.S.Sangeetha
2. Dr.P.Aishwarya

Course Number	Course Name	Category	L	T	P	Credit
BP16CP4	COMPUTER APPLICATION PRACTICAL IV - PROGRAMMING IN C++	Practical	-	3	57	2

Preamble

- To inculcate C++ programming ability among the students.
- To provide knowledge about the implementation of C++ concepts in to programming

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1.	Demonstrate C++ Programming Structure	K2
CO2.	Apply operators and functions of C++	K3
CO3.	Illustrate the object oriented concept in programming	K2

Mapping with Programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1.	S	S	S	S	M
CO2.	S	S	S	S	M
CO3.	S	S	S	S	M

S- Strong; M-Medium; L-Low

COMPUTER APPLICATION PRACTICAL IV - PROGRAMMING IN C++ - BP16CP4 (57 Hrs)

Syllabus

1. Odd and Even series
2. Maximum and Minimum Numbers
3. Arithmetic operations using member functions
4. Students details
5. Details of manager using array of objects
6. Computation of mean values using friend function

7. Swapping of two values using friend function
8. Static Member function using static data member
9. Sum of two complex numbers using constructors
10. String Manipulation using dynamic constructors
11. Destroy the object using Destructors
12. Simple and compound interest using Single Inheritance
13. Calculation of Depreciation
14. Hybrid Inheritance
15. Virtual Functions

Pedagogy

Demonstration through System, Demonstration through PPT

Course Designers

1. Ms.S.Sangeetha
2. Mrs.D.Vanisree

Course Number	Course Name	Category	L	T	P	Credit
EC-19SB01	DYNAMIC WEB APPLICATION - PHP/MySQL	Theory	58	2	-	4

Preamble

- To provide the knowledge necessary to design and develop dynamic, database-driven web pages
- PHP is a language written for the web, quick to learn, easy to deploy and provides substantial functionality required for e-commerce

Prerequisite

Basic Knowledge in HTML and CSS

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Remember the use of PHP/MySQL in creating Dynamic Web based applications.	K1
CO2	Understand how server-side programming works on the web	K2
CO3	Design a PHP web page that is unique to each visitor	K3
CO4	Analyse the requirements of various e-Commerce businesses and take part in creating customized webpages	K4

Mapping with programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1	S	M	S	M	S
CO2	M	S	S	S	M
CO3	S	M	S	S	M
CO4	M	S	M	M	S

S- Strong; M-Medium

Dynamic Web Application - PHP/MySQL - EC-19SB01

(58 Hrs)

Syllabus

UNIT-I (11 Hrs)

Introduction to PHP – Creating a PHP Environment – Installing Apache – Starting and stopping Apache – Installing MySQL and PHP – Configuring Apache for PHP – Testing PHP – Testing MySQL Connection.

UNIT-II (12 Hrs)

Getting Started with PHP: Variables and Data types – Functions and Function Arguments – Multiple Functions – Variable scope – Multiple Arguments – Operators - Making Statements.

UNIT-III (12 Hrs)

Using Arrays – Generating Dynamic Content – Generating Graphics.

UNIT-IV (12 Hrs)

File handling with PHP – Data Persistence – Sending e-Mail with PHP.

UNIT-V(11 Hrs)

Getting Started with MySQL – PHP & MySQL together – User Authentication.

Text Book:

Sl.No.	Author Name	Title of the Book	Publisher	Year and edition
1.	Mike McGrath	PHP Programming in easy steps	Dreamtech Press	Current Edition
2.	Jeremy Allen & ChrlesHornberger	PHP 4.1	BPB Publications	Current Edition

Reference Books:

Sl.No.	Author Name	Title of the Book	Publisher	Year and edition
1.	Quentin Zervass	Practical Web2.0 Applications with PHP	Eswar Press	Current Edition
2.	Steven Holzner	The Complete Reference PHP	Tata Mc-Graw-Hill	Tenth Reprint 2011

Pedagogy

- Lecture, Assignment, Group Discussion, Power Point Presentation and Seminar

Course Designers

1. S.Radhika
2. Dr.P.Aishwarya

Course Number	Course Name	Category	L	T	P	Credit
EC-19SBP1	DYNAMIC WEB APPLICATION PRACTICAL-I - PHP/MySQL	Practical	-	2	28	2

Preamble

- To inculcate PHP/MySQL programming ability among students
- To provide knowledge about the implementation of PHP/MySQL concepts into dynamic web pages
- To aim at making experts to design a webpage

Prerequisite

Basic Knowledge in HTML and CSS

Course Outcomes

On the successful completion of the course, students will be able to

CO Number	CO Statement	Knowledge Level
CO1	Recall the basic coding for PHP/MySQL	K1
CO2	Illustrate PHP Scripts to handle HTML forms	K2
CO3	Construct PHP programs that use various PHP library functions and that manipulate files and directories	K3
CO4	Analyze and solve common Web application tasks by writing PHP/MySQL programs	K4

Mapping with programme Outcomes

COs	PO1	PO2	PO3	PO4	PO5
CO1	S	M	S	S	M
CO2	S	S	M	S	S
CO3	M	S	S	S	S
CO4	S	S	S	M	S

S- Strong; M-Medium

Dynamic Web Application Practical-I - PHP/MySQL - EC-19SBP1

(28 Hrs)

Syllabus

1. How to Install Wamp server and MySQL server.
2. How to create a function to perform addition of two numbers in PHP.
3. Create a PHP code to makes use of a function and with the help of loops and other variables returns the calculated Factorial value of the number.
4. Write a program that lets you try the various sorting functions on the same data.
5. Write a program to redirect a browser request to another web page
6. Write a program to display different image each time out of four images

7. Write a program to display a client browser and operating system.
8. Write a program to differentiate the GET and POST method.
9. Designing a Web site using PHP along with HTML.
10. Create a table for storing information from a web page using MySQL server. Insert records for the created table and do the select, update and delete operations for the table using MySQL queries.

Pedagogy

- Lecture and Demo in system

Course Designers

1. S.Radhika
2. Dr.P.Aishwarya