Progressive Education Society's Modern College of Arts, Science and Commerce,

Shivajinagar, Pune 5 (An Autonomous College Affiliated to Savitribai Phule Pune University)

Detailed Syllabus

For

M. Com (e-Commerce)

(2019-20 Course)

(with effect from **2019-20**)

Semester 1 (Part 1)

Course Type	Course Code	Course / Paper Title	Hours/ Week	Credit	CIA	End Sem Exam	Total
CCT-1	19BaEcoP101	Modern Operating Environment and MS office	4	3	40	60	100
CCT-2	19BaEcoP102	Statistical Methods & Analysis	4	3	40	60	100
CCT-3	19BaEcoP103	Financial And Investment Analysis	4	3	40	60	100
CCT-4	19BaEcoP104	Software Engineering	4	3	40	60	100
CCT-5	19BaEcoP105	Practical(Tally+ MS Office)	4	3	40	60	100
DEC-1	19BaEcoP106	Business Communication	4	3	40	60	100
DEC-2	19BaEcoP107	Management Information System	4	3	40	60	100
DEC-3	19BaEcoP108	Information System Security	4	3	40	60	100
AECCT-1	19CpCysP101	Cyber Security-I	1	1	-	-	25
AECCT-2	19CpHrtP102	Human Rights-I	1	1	-	-	25
		Total	30	22			

Course Type	Course Code	Course / Paper Title	Hours/ Week	Credit	CIA	End Sem Exam	Total
CCT-1	19BaEcoP201	Business Process and Practices	4	3	40	60	100
CCT-2	19BaEcoP202	Financial and Management Accounting Methods	4	3	40	60	100
CCT-3	19BaEcoP203	Database Management System	4	3	40	60	100
CCT-4	19BaEcoP204	Procedure Oriented Programming Using C	4	3	40	60	100
CCT-5	19BaEcoP205	Practical (C + DBMS)	4	3	40	60	100
DEC-1	19BaEcoP206	Human Resource Management	4	3	40	60	100
DEC-2	19BaEcoP207	Operating System Concepts	4	3	40	60	100
DEC-3	19BaEcoP208	Cyber Law	4	3	40	60	100
AECCT-3	19CpCysP201	Cyber Security-I	1	1	-	-	25
AECCT-4	19CpHrtP202	Human Rights-I	1	1		-	25
		Total	30	22			

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP101 **Course Name:** Modern Operating Environment and MS-Office

Teaching Scheme: TH: 4 Lectures/Week **Examination Scheme: CIA:** 40 Marks **Prerequisite Courses:** Credit: 03 End-Sem: 60 Marks

Course Objectives:

Course Outcomes: On completion of the course students will be able to:

• Have knowledge of E-Commerce, Internet, Extranet, E-commerce Security, Electronic payment System, Encryption, etc.

•

Chapter No.	Торіс	Lectures
	Introduction to computer : Computer Characteristics, Concept of Hardware, Software, Evolution of computer and Generations, Types of computer – Analog & Digital computers, Hybrid computers, General purpose & Special Purpose Computer,	6
2	Limitations of Computer Applications of Computer in Various fields. Computer Memory : Memory Concept , Memory cell, memory organization, Semiconductor memory- RAM, ROM, PROM, EPROM, Secondary Storage devices - Magnetic tape, Magnetic Disk (floppy Disk& Hard disk.), Compact Disk.	6
3.	Number System: Digital Signals and Logic gates, Number systems: Binary, octal and hexadecimal number systems, signed binary number, binary arithmetic.	6
	Introduction to software: Software types and Software Development activities (Requirement, Design (algorithm, flowchart, decision table and tree), Coding, Testing,Installation,Maintenance).Lowandhighlevellanguages,assemblers, Compilers, interpreters, linkers.	5
	Introduction to Graphics primitives: Display Devices: Refresh Cathode Ray Tube, Raster Scan Display, Plasma Display, Liquid Crystal Display, Plotters, Printers, Keyboard, Trackball, Joystick, Mouse, Light Pen, Tablet and Digitizing Camera.	7

	External Storage devices.	
6.	Introduction to Computer Networks: Basic elements of a Communication System, Data transmission media, Digital and Analog Transmission, Network topologies, Network Types (LAN, WAN and	7
7.	MAN). MS-OFFICE: Introduction to Ms-office, Components and features.	10
	MS-Word – Creating letter, table , fonts , page layout document formatting spell check, print preview, template, color, mail merge, Auto text, inserting picture, word art.	
	MS-EXCEL – Introduction to Excel , Sorting , Queries, Graphs , Scientific functions.	
	Power Point :- Introduction to Power Point Creation of Slides , Inserting pictures, Preparing slide show with animation. MS-ACCESS - Creation and Manipulation of Files.	
	Guidance / discussion on specific experiential learning through field work	01
	Total	48

- 1. Digital Fundamentals by B. Basaraj by Vikas Publications.
- 2. Introduction to Information Technology by V. Rajaraman.
- 3. Fundamentals of Computers by V. Rajaram

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP102 **Course Name:** Statistical Methods and Analysis

Teaching Scheme: TH: 4 Lectures/Week Examination Scheme: CIA: 40 Marks Prerequisite Courses: Credit: 03 End-Sem: 60 Marks

Course Objectives:

- To understand and Master the concepts, techniques & applications of Statistical Methods.
- To develop the skills of solving real life problems using Statistical methods.
- To make students to understand the art of applying statistical techniques to solve some real life problems.
- To gain knowledge of Statistical Computations.

Course Outcome:

- To understand and Master the concepts, techniques & applications of Statistical Methods.
- To develop the skills of solving real life problems using Statistical methods.
- To make students to understand the art of applying statistical techniques to solve some real life problems

Chapter	Торіс	No. of
No.		Lectures
1	Multiple correlation and Regression, Partial	8
	correlation : (For trivariate data)	
	1.1 Introduction: Simple Correlation & SimpleRegression.	
	1.2 Trivariate sample data and notation.	
	1.3 Meaning of multiple and partialcorrelation.	
	1.4 Calculation of multiple and partial correlation coefficients when:	
	i) Simple correlation coefficients are given,	
	ii) Sum of squares and products aregiven.	
	1.5 Meaning of multipleregression.	
	1.6 To state equation of multiple regression equations when	
	means, standard deviations and simple correlation	
	coefficients aregiven.	
	Interpretation of regression coefficient.	

	1.7 Examples and Problems.	
2	Simulation :	10
	2.1 Introduction: Discrete random variable, Binomial & Poisson	
	distribution (p.m.f., problems on computation of probabilities).	
	2.1 Definition and scope of simulation.	
	2.2 Advantages and disadvantages of simulation.	
	2.3 Monte – Carlosimulation.	
	2.4 Examples and problems.	
3	Normal Distribution :	8
	3.1 Introduction: Concept of continuous random variable withexamples.	
	3.2 Definition of :Normal distribution with mean 'm' and variance□□	
	3.3 Standard normal variate (SNV).	
	3.4 Properties of normal distribution (without proof).	
	3.5 Additive property of two independent normal variates (without proof).	
	3.5 Problemsonevaluation of probabilities and to find mean and variance.	
	3.6 Examples and problems.	
4	Testing of hypothesis :	14
	Large Sample Test :	
	4.1 Introduction : Concept of hypothesis, Statistical hypothesis,	
	null hypothesis,	
	Alternative hypothesis, Two types of errors, Level of	
	significance, Test of Significance, critical region &	
	acceptance region.	
	4.2 Concept of a large sample test for testing:	
	4.2.1 H0 : M=M0 v/s H _A : M \neq M0	
	4.2.2 H0 : M1=M2 v/s HA : M1 \neq M2	
	4.2.3 H0 : P=P0 v/s HA : P \neq P0	
	4.2.4 H0 : P1=P2 v/s HA : P1 ≠P2	
	4.3 Examples and problems	
	Small Sample Test :	
	4.4 Chi-square (χ^2) test of goodness offit.	
	4.5 Chi-square (χ^2) test of independence of two attributes	
	a) 2 x 2 contingency table	
	b) m x n contingency table	
	4.6 t-test for H0 : $M = M0 \text{ v/s H A } M \neq M0$	
	t –test for H0: M1 = M2 v/s HA M1	

	\neq M2 paired t- test. t - test for H0 : p = 0 v/s HA: p \neq 0 (Test of significance of correlation coefficient)	
	4.7 F – test for testing H0 : $\Box 1^2 = \Box 2^2$ v/s HA : $\Box 1^2 \neq \Box 2^2$	
	4.8 Examples and problems	
5	Time Series : 5.1 Meaning and utility 5.2 Components of time series 5.3 Additive and multiplicative models 5.4 Methods of estimating trend by graphical method, ratio method moving averages method of least squares for linear trend and exponential smoothing method 5.5 Examples and problems.	7
	Guidance / discussion on specific experiential learning through field work	01
	Total	48

- 1. Fundamentals of Statistics by S.C. Gupta
- 2. Statistics for Business and Economics by J.S Chandra.
- 3. Statistical Methods by S. P Gupta -
- 4. Business Statistics by S.C Gupta, Gupta Indra.

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP103 **Course Name:** Financial and Investment Analysis

Teaching Scheme: TH: 4 Lectures/Week Examination Scheme: CIA: 40 Marks Prerequisite Courses: Credit: 03 End-Sem: 60 Marks

Course Objectives :

Course Outcome :On successful completion of this subject the student are enabled with the Knowledge of fundamental, technical analysis, Portfolio Analysis and Management

Chapter No.	Торіс	Lectures
1.	Introduction: Properties Of Financial Assets, Financial Market Investment, Objectives Of Investment, Investmentvs.Speculation Investment Analysis, Portfolio Management.	
2.	Stock Exchange in India : BSC, NSC, OTEL market regulations, regulations primary market secondary mutual funds institutional Investors derivative trading investors protecting services of Intermediaries.	
3.	Fundamental analysis: Economic Analysis ,Industry Analysis, Company Analysis	5
4.	Technical Analysis: charting tools-flow of fund, marketstructure, market indicators	6
5.	Portfolio Analysis and Management : Traditional Portfolio analysis, Effects of combing securities ,diversification,markowiz model location of the efficiency front tier	

6.	Portfolio Performance, Measurement And Evaluation: Measurement of Portfolio performance risk and return risk-adjustment and performance measure, componentsof portfolio investment performance. Stock selection and market timing	
	Guidance / discussion on specific experiential learning through field work	01
	Total	48

- 1. Fundamental Analysis for Investors by Raghu Palat.
- 2. Financial Management by Thomson.
- 3. Introduction to Finance by Pearson.
- 4. Security Analysis and Portfolio Management by Dr.VanitaTripathi.

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP104 **Course Name:** Software Engineering

Teaching Scheme: TH: 4 Lectures/Week **Examination Scheme: CIA:** 40 Marks

Credit: 03 End-Sem: 60 Marks

Prerequisite Courses:

Course Objectives :

Course Outcome : On successful completion of the course the students should have knowledge of software engineering concepts, understanding of software engineering, understand software requirements, system implementation, system analysis tools like ERD, DFD, process models.

Chapter No.	Topics	No. of lectures
1	 Introduction to System Concepts and Software Engineering 1.1 Definition , Elements of System 1.2 Characteristics of System 1.3 Types of System 1.4 System Concepts 1.5 Definition, Need for software Engineering 1.6 Software Characteristics 1.7 Software Qualities (McCall's Quality Factors) 	6
2	Process Models 2.1 SDLC 2.2 Waterfall Model 2.3 Prototyping Model 2.4 Spiral Model	8

3	System Analysis Tools and Techniques 3.1 System Analysis 3.2 System Analyst & its role 3.3 Feasibility Study	4
	3.4 Fact Finding Techniques	
4	 Analysis and Design Tools 5.1 Entity-Relationship Diagrams 5.2 Decision Tree and Decision Table 5.3 Data Flow Diagrams (DFD) 5.4 Data Dictionary 5.4.1 Elements of DD 5.4.2 Advantage of DD 5.5 Pseudo code 5.6 Input And Output Design 	15
5	System Testing and Quality Assurance 5.1 Definition 5.2 Testing Principles 5.3 Testing Process 5.4 Types of Testing 5.5 McCall's Quality factors	4
6	System Implementation	5
	6.1 Implementation Approaches	
	6.1.1. Incremental	
	6.1.2. Traditional.	
	6.2 Implementation Steps	
	6.3 Post Implementation review	
7	System Maintenance	5
	7.1Types of Maintenance	
	7.2 Side effects of Maintenance	
	7.3 Reverse Engineering	
	7.4 Re-engineering	
	Guidance / discussion on specific experiential learning through field work	01
	Total	48

- 1. Software Engineering Roger Pressman
- 2. System Analysis and Design (SADSE) Parthsarthy, Khalkar
- 3. System Analysis and Design Elias Awad.
- 4. System Analysis and Design of Information system- James Senn

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP105 **Course Name:** Practical Paper

Teaching Scheme: TH: 4 Lectures/Week **Examination Scheme: CIA:** 40 Marks

Credit: 03 End-Sem: 60 Marks

Prerequisite Courses:

Course Objectives :

Course Outcome :

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP106 **Course Name:** Business Communication

Teaching Scheme: TH: 4 Lectures/Week **Examination Scheme: CIA:** 40 Marks

Credit: 03 End-Sem: 60 Marks

Prerequisite Courses:

Course Objectives:

- To understand the concept, process and importance of communication.
- To develop an integrative approach where reading, writing, presentation skills are used together to enhance the students' ability to communicate and writeeffectively.
- To create awareness among students about Methods and Media of communication.
- To make students familiar with information technology and improve job seekingskills.

Course outcome:

- On successful completion of the course the students should have to understand the concept, process and importance of communication.
- To develop an integrative approach where reading, writing, presentation skills are used together to enhance the students ability to communicate and write effectively.
- To create awareness among students about Methods and Media of communication.

Chapter	Торіс	No. of
No		Lectures
Unit 1	Introduction to Communication	
	1.1 Meaning	
	1.2 Definition	00
	1.3 Process, importance.	08
	1.4 Principles of effectivecommunication	
	1.5 Scope of Business communication - Internal &External	
	1.6 Barriers to Communication, Overcoming thebarriers	

Unit 2	Media of Business Communication	
	2.1 Verbal Communication	
	2.1.1 – Written Communication-Advantages &	
	Limitations (writing a Cover Letter, Memo, Agenda,	06
	Notice & Minutes)	
	2.2.2 Oral Communication -Advantages & Limitations	
	2.2 Non-Verbal Communication	
	2.2.1 Body Language (Positive & Negative Gestures)	
	2.3 Grapevine	
Unit 3	Listening Skills	
	Importance	
	Types of Listening	0.6
	Barriers to Effective	06
	listening How to make	
	listening effective 10	
	Commandments of listening	
Unit 4	Business Correspondence	
	4.1 Need of Business Correspondence	
	4.2 Components and layout of Businessletter,	
	4.3 Drafting of letters: Enquiry, Quotation, order, Complaints and	08
	follow up ,Recovery	
	4.4 Emailetiquette	
Unit 5	Information Technology for Communication	
	Introduction, Advantages and Limitations of - Telex, Telegram,	08
	Fax, Voice Mail, Teleconferencing, Video Conferencing, Internet	00
	and Social Media Sites, E-communication at workplace.	
Unit 6	Job Skills	
	6.1 Job applicationletter	
	6.2 Essentials of an impressive Resume	06
	6.3 Group Discussion	
	6.4 InterviewSkills	
TT== 94 /7	6.5 Learning to deliver an EffectivePresentation	
Unit 7	Introduction to Grammar	
	Parts of Speech	
	Noun - Pronouns - Adjective - verb - adverb - Preposition -	05
	Conjunction - Interjection	
	Correct Usage of Tenses	
	Guidance / discussion on specific experiential learning	01
	through field work	
	Total	48

- 1. Modern Business Organization S.A.Sherlekar
- 2. Industrial Organization Management -Sherlekar
- 3. Business Organization and management Y.K.Bhushan
- 4. Business Environment F.Cherunilam
- 5. Business Organization & Management C.B.Gupta.
- 6. Entrepreneurial Development S.S.Khanna.
- 7. Organizing and Financing of Small scale Industry Dr. V.Desai

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP107 Course Name: Management Information System

Teaching Scheme: TH: 4 Lectures/Week **Examination Scheme: CIA:** 40 Marks Credit: 03 End-Sem: 60 Marks

Prerequisite Courses:

Course Objectives:

Course outcome:

•

On successful completion of this subject the students should have inculcate knowledge on Computer based information system MIS support for the functions of management

Chapter	Topics	No. of
No.		Lectures
1	1. Management Information Systems	8
	- Need, Purpose andObjectives	
	- Contemporary Approaches toMIS	
	- Information as a strategicresource	
	– Use of information for competitive advantage	
	- MIS as an instrument for the organizational	
	change	
2	2. Information, Management and Decision Making	6
	- Models of DecisionMaking	
	- Classical, Administrative and Herbert Simon's Models	
	- Attributes of information and its relevance to Decision	
	Making	
	- Types of information	

3	3. Information Technology	5
	- Definition, IT Capabilities and their organizational impact	
	-Telecommunication and Networks	
	- Types and Topologies of Networks	
4	4. Data Base Management Systems –	6
	Data Warehousing and Data Mining	
5	5. Systems Analysis and Design	8
	- Systems Development Life Cycle	
	- Alternative System BuildingApproaches	
	- Prototyping model	
	- Spiral model	
	- Rapid DevelopmentTools	
	- CASETools	
6	6. Decision Support Systems - Group Decision Support	7
	Systems	
	- Executive InformationSystems	
	- Executive SupportSystems	
	- Expert Systems and Knowledge Based ExpertSystems	
	- Artificial Intelligence	
7	7. Management Issues in MIS	7
	Information Security and Control	
	- QualityAssurance -Ethical and Social Dimensions	
	- Intellectual Property Rights as related	
	to IT Services / ITProducts	
	- Managing Global InformationSystems	
	Guidance / discussion on specific experiential learning	01
	through field work	
	Total	48

- 1. Management Information Systems, Laudon and Laudon, 7th Edition, Pearson EducationAsia
- 2. Management Information Systems, Jawadekar, Tata McGrawHill
- 3. Management Information Systems, Davis and Olson, Tata McGrawHill
- 4. Analysis and Design of Information Systems, Rajaraman, PrenticeHall
- 5. Decision Support Systems and Intelligent Systems, Turban and Aronson, Pearson EducationAsia
- 6. Management Information Systems, Schulthesis, Tata McGrawHill
- 7. Management Information Systems Sadagopan, PrenticeHall

Progressive Education Society's

Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune – 5

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP108 **Course Name:** Information Security System

Teaching Scheme: TH: 4 Lectures/Week **Examination Scheme: CIA:** 40 Marks Credit: 03 End-Sem: 60 Marks

Prerequisite Courses:

• Course Objectives:

Course outcome:

•

On successful completion of this subject the students understand the concepts of computer security, cryptography, data integrity etc.

Chapter	Topics	No. Of
No.		Lectures
Chapter 1	Introduction to security	-
	1. The need forsecurity	5
	2. Securityapproaches	
	3. Principles of security	
	4. Types of attack	
Chapter 2	Overview of	10
	computerSecurity	10
	1. The BasicComponents	
	a) Confidentiality	
	b) Integrity	
	c) Availability	
	2. Threats	
	3. Policy and Mechanism	
	a) Goals of Security	
	4. Protectionstate	
	5. Access Control Matrix Model	
	6. Assurance	
	a) Specification	
	b) Design	

	c) Implementation
	7. OperationalIssues
	a) Cost Befitanalysis
	b) Risk Analysis
	c) Laws and Customs
	8. Human Issues
	a) OrganizationalProblems
 10	b) PeopleProblems
12	Chapter 3 Information and Network Security Policies
	1. SecurityPolicies
	a) Definitions
	d) Type of Accesscontrol
	e) Example Academic Computer SecurityPolicy
	2. ConfidentialityPolicies
	a) Goal of Confidentialitypolicies
	b) The Bell-LaPadulaModel
	3. IntegrityPolicies
	a) Goals
	b) BibaIntegrityModel
	c) Clark-Wilson IntegrityModel
	Role Based AccessControl
 8	Chapter 4 Cryptography
	1. What iscryptography?
	2. What is Cipher?
	3. Classical cryptosystem
	a) Transpositioncipher
	b) Substitution cipher
	4. Encryption
	a) Mathematical Basis of encryption
	b) Symmetric and shared keyencryption
	c) Data encryptionstandards
	i) TripleDES
	ii) skipjack
	d) Data Integrity
8	b) Types of securityPolicies c) The Role ofTrust d) Type of Accesscontrol e) Example Academic Computer SecurityPolicy 2. ConfidentialityPolicies a) Goal of Confidentialitypolicies b) The Bell-LaPadulaModel 3. IntegrityPolicies a) Goals b) BibaIntegrityModel c) Clark-Wilson IntegrityModel 4. HybridPolicies a) Chinese WallModel b) Clinical Information SystemsSecurity c) Originator Controlled AccessControl Role Based AccessControl Role Based AccessControl 1. What iscryptography? 2. What is Cipher? 3. Classical cryptosystem a) Transpositioncipher b) Substitution cipher 4. Encryption a) Mathematical Basis of encryption b) Symmetric and shared keyencryption c) Data encryptionstandards i) TripleDES

Chapter 5	Authentication	6
	1. Authentication Basic	
	2. Passwords	
	a) Attacking a passwordsystem	
	b) Countering Passwordsystem	
	3. Biometrics	
	a) Fingerprints	
	b) Voices	
	c) Eyes	
	d) Faces	
	e) Keystrokes	
	f) Combination	
	g) caution	
Chapter 6	System and Application Security	6
	1. Mail security	
	2. File systemsecurity	
	3. Program and security	
	4. Memorysecurity	
	Guidance / discussion on specific experiential learning	01
	through field work	
	Total	48

- 1. Introduction to computer Security Matt Bishop (Published by Pearson)
- 2. Cryptography and Network Security Second Edition -AtulKahate
- 3. Computer security, Dictergouman, John Wiley & sons.

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP201 **Course Name:** Business Processes and Practices

Teaching Scheme: TH: 4 Lectures/Week **Examination Scheme: CIA:** 40 Marks Credit: 03 End-Sem: 60 Marks

Prerequisite Courses:

Course Objectives:

Course outcome:

•

On successful completion of this subject the students acquires the knowledge about the various types of Innovation Management, Entrepreneurship Management etc

Chapter No.	Торіс	Lectures
1.	Innovation Management	12
	Meaning, Introduction, Characteristics, Components.	
	Types of Innovation.	
	Module of Innovation Process.	
	Innovation Management.	
	Evaluation of Innovation Management	
	Significance, Principles, key drives of Innovation management.	
	Innovation impact, Innovation behavior.	
	Strategy Innovation.	
	Creative Individual & their development.	
2	Quality Management	11
	Meaning, Development, TQM.	
	Components of TQM, Fundamentals of TQM.	
	Approaches to TQM, Steps of TQM	
	TQM models/Methods.	
	Team work of quality	
	Quality Circle.	

3.	Entrepreneurship Management	12
	Meaning	
	Skills & functions of Entrepreneurs	
	Communication skills of Entrepreneurs	
	Attitude of Entrepreneurship	
	Entrepreneurs	
	Making Entrepreneurship walks.	
	Developing a global mindset	
	Social entrepreneur in India.	
4.	Performance Management & Control	12
	Meaning	
	Goal of performance management	
	Performance management plan techniques to enhance performance.	
	Benefits & barriers.	
	The control function	
	Control techniques	
	Direct control vs. prevention control.	
	Guidance / discussion on specific experiential learning through field	01
	work	
	Total	48

- 1. Fundamental of Business Process Management Marlon Dumas, Paula Berman.
- 2. Principal of Management -Peter Drucker.
- 3. Business Process Management Mathias Weske.

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP202 **Course Name:** Financial Management and Accounting Methods

Teaching Scheme: TH: 4 Lectures/Week Credit: 03 **Examination Scheme: CIA:** 40 Marks

End-Sem: 60 Marks

Prerequisite Courses:

Course Objectives:

Course outcome:

•

On successful completion of this course the student are enabled with the Knowledge in the practical applications of accounting, financial management, Technique & capital Budgeting

Chapter No.	Торіс	Lectures
	Financial Management Meaning, Financial Decision In Firm, Goals Of Financial Management. Financial System-Meaning, Functions, Financial Assets, Financial Market, Financial Intermediaries, Regulatory Infrastructure, Growth & Trends In The Indian Financial System.	12
	Long term finance Source of long term finance: equity capital, Internal Accounts, Preference Capital, Term Loans, Debenture, Venture Capital. Cost of capital: Cost of Debt & Preference Cost of Equity, Weighted Average, and Cost of Capital.	11
	Technique & capital Budgeting Payback Period, Accounting Rate of Return, Net Present Value Method, Profitability Index, Internal Rate of Return, ARR, Budgetary Control & Flexible Budget, Capital Rationing, Responsibility Accounting.	12

4.	Dividend decision Why Firm Pay Dividend, Dimensions, Dimensions of Dividend Policy of	12
	Analysis of Financial Statements, Application and Limitations. Working Capital Management: Inventory, Receivable& Cash Management.	
	Guidance / discussion on specific experiential learning through field work	01
	Total	48

- 1. Theory & Practice in Financial Management -Khan, M.Y.Jain.
- 2. Financial Theory, concept and problems -Rustogi R.P.
- 3. Strategic financial Management -Jakhotia G.P
- 4. Management accounts -Saxena and Vashist.

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP203 Course Name: Database Management System

Teaching Scheme: TH: 4 Lectures/Week **Examination Scheme: CIA:** 40 Marks Credit: 03 End-Sem: 60 Marks

Prerequisite Courses:

Course Objectives:

Course outcome: On successful completion of this subject the students should be able

- To inculcate knowledge on DBMS concepts and Programming with Oracle.
- To acquire practical knowledge about creating and manipulating data.

Chapter	Торіс	No. of
No.		Lect.
1	Database Management System	12
	1.1 Data	
	1.2 Information	
	1.3 Data Vs. Information	
	1.4 Data Warehouse	
	1.5 Data Dictionary	
	1.6 Data Items or fields	
	1.7 Records and Files	
	1.8 Database	
	1.9 Database System Applications	
	1.10 View of data	
	1.11 Database Languages	
	1.12 Data Model	
	1.13 Database architecture	
	1.14 Entity relationship model	
	1.14.1 Basic Concepts	
	1.14.2 Constraints	
	1.14.3 Keys	

	1.14.4 Strong Entity sets	
	1.14.5 Weak Entity sets	
	1.15 Entity relationship diagrams	
	1.16 Extended E-Features'	
	1.16.1 Specialization	
	1.16.2 Generalization	
2	Relational Model and Relational Database Design	7
	2.1 Introduction	
	2.2 Fundamental Relational Algebra operation	
	2.3Overview of relational database design process	
	2.4 Anomalies of Un normalized Database	
	2.5 Normalization 1NF	
	2 NF	
	3 NF	
	2.6 Functional Dependency	
	2.7 Decomposition using functional dependencies	
3	SQL	14
	3.1 Background	
	3.2 Basic structure of SQLqueries	
	3.3 Aggregate Functions	
	3.4 Null values	
	3.5 Nested sub-queries	
	3.6 Views	
	3.7 Integrity constraints	
	3.5 Authorization	
4	Transaction Management	7
	4.1 Transaction concept	
	4.2 Transaction state	
	4.3 Transaction properties	
	4.4 Concurrent Execution	
	4.5 Serializability	
	4.6 Testing for Serializability	
	4.7 Recoverability	
5	Concurrency Control	7
	5.1 Introduction	
	5.2 Lock based protocols	
	5.3 Timestamp based protocols	
	5.4 Validation based protocols	
	5.5 Deadlock Prevention	
	5.6 Deadlock Handling	
	J.0 Deaulock Hallulling	

	5.7 Deadlock Recovery	
	Guidance / discussion on specific experiential learning through field work	01
Total		48

- 1. Database System Concepts :- Silberschatz , Korth , Tata McGraw-HillPublication
- 2. Database Management System :- Raghu Ramakrishnan, Tata McGraw-HillPublication
- 3. SQL, PL/SQL the Programming Language Oracle: -Ivan Bayross, BPBPublication.
- 4. Database Systems Concepts, Designs and Application -Shiv Kumar Singh, Pearson
- 5. Database Management Systems -DebabrataSahoo ,Tata McGraw-Hill

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP204 **Course Name:** C Programming

Teaching Scheme: TH: 4 Lectures/Week **Examination Scheme: CIA:** 40 Marks

Credit: 03 End-Sem: 60 Marks

Prerequisite Courses:

Course Objectives:

Course outcome:

•

On successful completion of this subject the students have the programming ability in C Language by understand fundamentals and basic concepts of C programming includes arrays, structures, function, strings, Exceptions, pointers and

Chapter No.	Topics	No. of Lectures
1	Introduction to C language 1.1 History 1.2 Basic structure of C Programming 1.3 Language fundamentals 1.3.1 Character set, tokens 1.3.2 Keywords and identifiers 1.3.3 Variables and data types 1.4 Operators 1.4.1 Types of operators	4
2	 1.4.2 Precedence and associativity 1.4.3 Expression Managing I/O operations 2.1 Console based I/O and related built-in I/O functions 2.1.1 print(),scanf() 2.1.2 getch(),get char() 	2

3	Decision Making and looping	8
	3.1 Introduction	
	3.2 Decision making structure	
	3.2.1 If statement	
	3.2.2 If-else statement	
	3.2.3 Nested if-else statement	
	3.2.4 Conditional operator	
	3.2.5 Switch statement	
	3.3 Loop control structures	
	3.3.1 While loop	
	3.3.2 Do-while loop	
	3.3.3 For loop	
	3.3.4 Nested for loop	
	3.4 Jump statements	
	3.4.1 break	
	3.4.2 continue	
	3.4.3 go to	
	3.4.4 exit	
4	Functions and pointers	14
	4.1 Introduction	
	4.1.1 Purpose of function	
	4.1.2 Function definition	
	4.1.3 Function declaration	
	4.1.4 Function call	
	4.2 Types of functions	
	4.3 Call by value and call by reference	
	4.4 Introduction to pointer	
	4.4.1 Definition	
	4.4 2 Declaration	
	4.4.3 Initialization	
	4.5 Indirection operator and address of operator	
	4.6 Pointer arithmetic	
	4.1.4 Dynamic memory allocation	
5	Arrays and Strings	10
	5.1 Introduction to one-dimensional Array	
	5.1.1 Definition	
	5.1.2 Declaration	
	5.1.3 Initialization	
	5.2 Accessing and displaying array elements	
	5.3 Arrays and functions	
	5.4 Introduction to two-dimensional Array	
	5.4.1 Definition	
	5.4.2 Declaration	
	5.4.3 Initialization	
	5.5 Accessing and displaying array elements	
	5.6 Introductions to Strings	
	5.6.1 Definition	

	5.6.2 Declaration 5.6.3 Initialization Standard library functions	
6	Structures and union	5
	6.1 Introduction to structure	
	6.1.1 Definition	
	6.1.2 Declaration	
	6.1.3 Accessing members	
	6.2 Structure operations	
7	File handling	4
	7.1 Definitions of files	
	7.2 File opening modes	
	7.3 Standard functions	
	Guidance / discussion on specific experiential learning through	01
	field work	
	Total	48

- 1) Let us C YashwantKanetkar, BPB publication.
- 2) Programming in C Balguruswamy, Tata McGraw-Hill publication.
- 3) Pointers in C YashwantKanetkar, BPB publication.

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP205 **Course Name:** Practical Paper

Teaching Scheme: TH: 4 Lectures/Week **Examination Scheme: CIA:** 40 Marks

Credit: 03 End-Sem: 60 Marks

Prerequisite Courses:

Course Objectives:

•

Course outcome: On successful completion of this subject the students should be able

.

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP206 **Course Name:** Human Resource Management

Teaching Scheme: TH: 4 Lectures/Week	Credit: 03
Examination Scheme: CIA: 40 Marks	End-Sem: 60 Marks

Prerequisite Courses:

Course Objectives:

Course outcome: On successful completion of this subject the students should be able

• To make a student to learn self and personality development and how to be integrated with exercises and experiential learning. To familiarize the students with concepts and challenges of managing and developing human performance in organizations. Students come to know how interpersonal skills should be practiced and develop within an organization/ personal life.

Is this a objective or outcome???

Chapter no.	Торіс	No. of lectures
1	Introduction of HRM	08
1	Definition & concept of HRM	08
	Difference between HRM&personnelmanagement Importance,	
	Function, limitation of HRM	
	Challenges of HRM	
	HRD-Meaning, definition, scope, importance	
2	Human Resources Planning	08
	Definition, objective & process of HRP	
	Factor influencing estimation of Human Resource, Human Resource	
	Information System	
	Job analysis-concept ,purpose, steps in job analysis, method	
3	Recruitment & selection	08
	Concept, goal, sources, alternatives of recruitment.	
	selection-concept, selection process, limitation of selection process,	
	transfer policy	

4	Training & developmentMeaning,definition,need,objective,importance of training, trainingmethodEmployee development-concept, method Organizationdevelopment- process, methods International training &development issue	08
5	Performance appraisal Concept, objective, process, uses& limitation Performance management system- concept,purpose,challenges of Performance management system	08
6	Labour union Collective bargaining Concept of union, reasons of joining union, union organizing process, critical issue for union today's scenario meaning, objective, scope, process of collective bargaining	07
	Guidance / discussion on specific experiential learning through field work	01
	Total	48

- 1. Human Resource Management by David A.Decenzo& Stephen P. Robbins-, Wiley India
- 2. Human Resource Management by SharadD.Geet&MrsAsmita A. Deshpande.
- 3. Human Resource Management by A. M. Sharma.
- 4. Human Resource Management S. K. Bhatia Personnel Management and Nirmal Sing.

First Year of M-Com (e-Commerce) (2019 Course)

Course Code: 19BaEcoP207 Course Name: Introduction of Operating System

Teaching Scheme: TH: 4 Lectures/Week **Examination Scheme: CIA:** 40 Marks Credit: 03 End-Sem: 60 Marks

Prerequisite Courses:

Course Objectives:

Course outcome: On successful completion of this subject the students should be able

• Enable the students to get sufficient knowledge on various systems, Resources, system software and operating system concepts.

Is this an objective or outcome??? Course Contents

Chapter No.	Topics	No. Of Lectures
1	 Introduction to operating system What is an operating system. Types of operating system. Multiprogramming system Parallel system Distributed System Real time System Services provided by an operating system. 	5
2	Introduction1. Introduction of DOS OS2. Introduction of Windows OS3. Introduction of Linux OS4. Difference between DOS ,Windows and Linux	4

3	Computer System component	4
5	1. Hardware(Basic computing resources)	
	a) CPU	
	b) Memory	
	c) I/O device	
	2. User View	
	3. System View	
	4. Computer System operation	
4	Operating System structure	7
-	1. General system architecture	
	a) Single processor system	
	b) Multiprocessor system	
	c) Clustered system	
	2. I/OStructure	
	3. Storage Structure	
	4. System calls and implementation	
	a) Process or job control	
	b) File management	
	c) Device Management	
	5. System Program	
5	Process management	6
	1. Process concept	
	a) Process States	
	b) Process Control Blocks	
	c) Process scheduling	
	2. Interaction between process and OS	
	3. Context switching	
	4. Operation on process	
6	CPU Scheduling	7
	1. Scheduling concept	
	2. Types of scheduling	
	3. Scheduling criteria	
	4. Scheduling Algorithms	
	a) FCFS	
	b) SJF(preemptive and non-preemptive)	
	c) Priority Scheduling	
	d) Round Robin	
7	Memory Management	4
	1. Introduction to memory management	
	2. Paging	
	3. Segmentation	
	4. Segmentation with paging	
	5. Virtual memory	
	6. Demand paging	

8	File System	6
	1. File concept	
	2. File System structure	
	3. File Access methods	
	4. File Allocation methods	
	5. Directory structure	
	6. File Protection	
	Guidance / discussion on specific experiential learning through field work	01
	Total	48

Operating System Concept by Gilberschatz, Galvin, Addison wisely Newyork System Programming and operating system by D M Dhamdhere, Tata McGraw-Hill Publication.