

Department of Computer Science

Internal Theory Examination Time Table

2022-2023 Semester - I

NOTICE

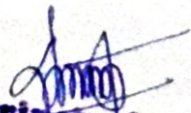
F.Y./S.Y./T.Y.B.Sc Computer Science students are hereby informed that Internal Examination is scheduled from Monday 22nd February 2022.
Time Table for the internal Examination: -

Day	Date	Class	Time	Subject
Monday	22/02/2022	F.Y.B.Sc(CS)	9.00 AM To 10.00AM	Theory Paper-I
		S.Y.B.Sc(CS)	9.00 AM To 10.00AM	Theory Paper-I
		T.Y.B.Sc(CS)	9.00 AM To 10.00AM	Theory Paper-I
				Theory Paper-II
Tuesday	23/02/2022	F.Y.B.Sc(CS)	9.00 AM To 10.00AM	Theory Paper-II
		S.Y.B.Sc(CS)	9.00 AM To 10.00AM	Theory Paper-II
		T.Y.B.Sc(CS)	9.00 AM To 10.00AM	Theory Paper-II
				Theory Paper-III
Wednesday	24/02/2022	T.Y.B.Sc.(CS)	9.00 AM To 10.00AM	Theory Paper-V
			10.00AM To 11.00AM	Theory Paper-VI

Head,

Department Of Computer Science




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Academic Calendar for the year 2022-2023

Examination Section

Second Term

Sr. No.	Level	Program	Activity	Week & Month
1.	U.G.	B.A./B.Com./BBA/ BBA(CA)/B.Sc(CS)	Tutorial-III Tutorial-IV Test-II Term End Examination University Practical Examination University Theory Examination	4 th Week of December 4 th Week of January 4 th Week of February 1 st Week of March 3 rd Week of March 4 th Week of March
		CAP	F.Y.B.A./F.Y.B.Com/BBA/BBA(CA)/B .Sc(CS)	3 rd Week of April




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Academic Calendar for the year 2022-2023

Examination Section

First Term

Sr. No.	Level	Program	Activity	Week & Month
1.	U.G.	B.A./B.Com./BBA/ BBA(CA)/B.Sc(CS)	Tutorial-I	1 st Week of August
			Tutorial-II	1 st Week of September
			Test-I	4 th Week of September
			Term End Examination	3 rd Week of October
			University Practical Examination	1 st Week of October
			University Theory Examination	2 nd Week of October
		CAP	F.Y.B.A./F.Y.B.Com/BBA/BBA(CA)/B. Sc(CS)	1 st Week of November




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"Knowledge is the Supreme Goal."

स्थापना वर्ष : २००५

कै. तुकाराम धोंडीबा पठारे कला, वाणिज्य व विज्ञान महाविद्यालय
चंदन नगर, पुणे - ४११०१४.



शासन मान्यता क्र.: एन.जी.सी. २००४/(१/०४)/मशि-३, दि. १५/०७/२००४ सावित्रीबाई फुले पुणे विद्यापीठ संलग्नता क्र.: PU/PN/AC/218(2005)
PUN CODE : CAAP013450

EXAM CENTRE CODE : 0803

मा. श्री. पंढरीनाथ तथा आण्णासाहेब तुकाराम पठारे
अध्यक्ष

मा. अॅड. राजेंद्र उमाप
सचिव

मा. श्री. महेंद्र पठारे
सदस्य

जायक क्र.:

दि.

Academic Calendar for the year 2017-18

Examination Section

Second Term

Sr. No.	Level	Program	Activity	Week & Month
1.	U.G.	B.A./B.Com./BBA/ BBA(CA)/ B.Sc. (CS)	Tutorial-III Tutorial-IV Test-II Term End Examination University Practical Examination University Theory Examination	4 th Week of December 4 th Week of January 4 th Week of February 1 st Week of March 3 rd Week of March 4 th Week of March
		CAP	F.Y.B.A./F.Y.B.Com/BBA/BBA(CA)/B.Sc(CS)	3 rd Week of April



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References

Sr. No.	Title of the Book	Author/s	Publication	Place
1.	Advanced Accounts	M.C. Shukla, T.S. Grewal, S.C. Gupta	S. Chand Publication	New Delhi.
2.	Financial Accounting for B.Com	CA (Dr.) P.C. Tulsian S.C. Gupta	S. Chand Publication	New Delhi.
3.	Introduction to Accountancy	S.R.N Pillai & Bhagavathi	S.Chand & Company Ltd	New Delhi
4.	Corporate Accounting	Raj Kumar Sah	Cengage Publications	Noida, Uttar Pradesh
5.	Advanced Accounting	S. N. Maheshwari		.
6.	GST Law and Analysis with Conceptual Procedures	Bimal Jain and Isha Bansal (Set of 4 Volumes)	Pooja Law Publishing Company	New Delhi
7.	Guidance Note on GST by ICAI	--	The Institute of Chartered Accountants of India	New Delhi



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Revised syllabi (2019Pattern) for three years F.Y. B. Com. Degree course (CBCS)

Semester-I
Business Economics (Micro) - I

Course Code - 113

No. of Credits :- 03

Objectives of the course:-

1. To impart knowledge of business economics
2. To clarify micro economic concepts
3. To analyze and interpret charts and graphs
4. To understand basic theories, concepts of micro economics and their application




Unit No.	Unit Title	Contents	Purpose & skills to be developed
1	Introduction and Basic Concepts	1.1 Meaning, Nature, Scope and Importance of Business Economics 1.2 Concept of Micro and Macro Economics 1.3 Tools for Economic Analysis- Functional Relationship, Schedules, Graphs and Equations 1.4 Basic Concepts: Household, Consumer, Firm, Plant and Industry 1.5 Goals of Firms- Economic and Non-Economic	<ul style="list-style-type: none"> To make the students aware of concepts in micro economics To help the students understand the difference between micro and macro economics To make the students understand economic and non-economic goals of firms. <p>Skills : Analyze and think critically, develop writing skills</p>
2	Consumer Behavior	Utility: Concept and Types 2.2 Cardinal Approach: Law of Diminishing Marginal Utility and Law of Equi Marginal Utility 2.3 Consumer Surplus: Concept and Measurement 2.4 Ordinal Approach: Indifference curve	<ul style="list-style-type: none"> To help the students understand the concept of utility To impart knowledge of cardinal and ordinal approach To make them understand the concept of consumer surplus <p>Skills: Understanding complex theories and concepts Geometrical skills, mathematical aptitude, writing skills</p>

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		Analysis- Concept Characteristics, Consumer Equilibrium	
3.	Demand and Supply Analysis	3.1 Concept of Demand 3.2 Determinants of Demand 3.3 Law of Demand 3.4 Elasticity of Demand 3.4.1 Price Elasticity of Demand - Meaning, Types, Measurement, Uses and Significance 3.4.2 Income Elasticity of Demand-Meaning and Types 3.4.3 Cross Elasticity of Demand-Meaning and Types 3.5 Supply : Concept, Determinants and Law of Supply 3.6 Equilibrium of Demand and Supply for Price Determination	<ul style="list-style-type: none"> To understand the concept of demand and elasticity of demand To impart knowledge of law of supply and the determinants of law of supply To help the students understand price determination in varied demand and supply condition <p>Skills imparted: Applying mathematical and statistical analysis methods extracting information, drawing conclusions</p>
4.	Production Analysis	4.1 Concept of Production Function 4.2 Total, Average and Marginal Production 4.3 Law of Variable Proportions 4.4 Law of Returns to Scale 4.5 Economies and Diseconomies of Scale- Internal and External	<ul style="list-style-type: none"> To help the students understand the relation between revenue concepts To understand theories of production function To make students know about economies and diseconomies of scale <p>Skills: Interpret economic theories, writing skills, understand charts and graphs.</p>




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Teaching methodology

Topic No.	Total Lectures	Innovative methods to be used	Film shows and AV Applications	Project	Expected Outcome
1	12	<ul style="list-style-type: none"> Open book discussion Case studies Problem solving based learning 	You tube lectures on micro and macro economics	<ul style="list-style-type: none"> Functional relations Goals of firms 	<ul style="list-style-type: none"> Students will understand basic concepts of micro economics, Will be able to analyze and interpret
1.	12	<ul style="list-style-type: none"> Digital lectures Jigsaw reading 	You tube lectures	Types of utility	<ul style="list-style-type: none"> Will know cardinal and ordinal approach Will understand the concept of consumer surplus
2:	12	<ul style="list-style-type: none"> Game oriented classes Pair learning Group discussion 	<ul style="list-style-type: none"> Films You tube lectures 	Type of goods and elasticity of demand	<ul style="list-style-type: none"> Will understand the concept of demand and elasticity of demand Will understand the concept of supply Able to interpret equilibrium in the market
3.	12.	<ul style="list-style-type: none"> Group discussion Teacher driven power point presentation Games and simulation 	<ul style="list-style-type: none"> You tube lectures Online PPTs 	Effect of economies of scale on industries (with an example of an industry)	<ul style="list-style-type: none"> Will understand revenue concept Will know economies and diseconomies of scale

References

Sr. No.	Title of the Book	Author/s	Publication	Place
1	Microeconomics	B. Douglas Bernheim and Michael D. Whinston	Tata McGraw Hill	New York
2	Microeconomics	Pindyck, R.S. and D.L. Rubinfeld	Pearson Education	London




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3	Principles of Economics	Stiglitz, J.E. and C.E. Walsh	Oxford Univ. Press	United Kingdom
4	Microeconomics: Theory and Applications	Salvatore, D.L	Oxford Univ. Press	United Kingdom
5	Intermediate Microeconomics: A Modern Approach	Varian, H.R.,	W.W. Norton	United Kingdom, United states
6	Microeconomic Theory,	Sen, Anindya	Oxford Univ. Press	United Kingdom
7	Modern Microeconomics	Koutsoyiannis, A	MacMillan Press	India
8	Principles of Microeconomics	H.L. Ahuja	S. Chand	New Delhi

Suggested references
Web reference

Sr. no	Lectures	Films	Animation	PPTs	Articles
1.	https://mitpress.mit.edu/books/lectures-microeconomics	https://www.economicsnetwork.ac.uk/teaching/Video%20and%20Audio%20Lectures/Principles%20of%20Microeconomics	https://www.youtube.com/redir ect?q=http%3A%2F%2Fwww.thateconstutor.com&v=Zre4tp90Aog&redir_token=6U11cd7zsOZt8fGKACK3B5JHJh8MTU1NzkyNzkzMUAxNTU3ODQxNTMx&event=video_description	https://ctaar.rutgers.edu/gag/ppc2_files/ppc2.ppt	http://scholar.google.co.in/scholar?q=articles+on+microeconomics&hl=en&as_sdt=0&as_vis=1&oi=sholat
2.	https://www.amazon.co.uk/Lectures-Microeconomics-Questions-Approach-Press/dp/0262038188	https://nptel.ac.in/courses/109104125/	https://www.youtube.com/watch?v=ewPNugIqCUM	https://www.slideshare.net/tribhuwan64/presentation-on-importance-of-microeconomics	http://theconversationn.com/global/topics/microeconomics-3328



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Objective of the Program

1. To introduce the basic concepts in Finance and Business Mathematics and Statistics
2. To familiar the students with applications of Statistics and Mathematics in Business
3. To acquaint students with some basic concepts in Statistics.
4. To learn some elementary statistical methods for analysis of data.
5. The main outcome of this course is that the students are able to analyze the data by using some elementary statistical methods

Unit No.	Unit Title	Contents	Purpose/Skills to be developed
1	Interest and Annuity	Interest: Concept of Present value and Future value, Simple interest, Compound interest, Nominal and Effective rate of interest, Examples and Problems Annuity: Ordinary Annuity, Sinking Fund, Annuity due, Present Value and Future Value of Annuity, Equated Monthly Installments (EMI) by Interest of Reducing Balance and Flat Interest methods, Examples and Problems.	1. To understand the concept of Simple interest, compound interest, effect of compounding. 2. To understand the concept of Annuity and its applications for EMIs and Amortization Schedule.
2	Shares and Mutual Funds	Shares: Concept of share, face value, market value, dividend, brokerage, equity shares, preferential shares, bonus shares. Examples and Problems Mutual Funds: Concept of Mutual Funds, Problems on calculation of Net Income after considering entry load, Dividend, Change in Net Asset Value (NAV) and exit load. Averaging of price under the Systematic Investment Plan (S.I.P.). Examples and Problems	1. To understand the concept of shares and mutual funds. 2. To understand contribution of shares and mutual funds in systematic investment plans 3. To solve problems related to shares and mutual funds
3	Population and Sample	Definition of Statistics, Scope of Statistics in Economics, Management Science and Industry. Concept of population and sample, methods of data collection: Census and sampling with illustration. Methods of random sampling – SRSWR, SRSWOR, Stratified, Systematic (Description of sampling procedures only).	1. Collection of data 2. Analyzing and interpreting data. 3. Knowing different method of sampling



4	Measures of Central Tendency and Measures of Dispersion	<p>Frequency distribution: Raw data, attributes and variables, Classification of data, frequency distribution, cumulative frequency distribution, Histogram and ogive curves.</p> <p>Requisites of ideal measures of central tendency, Arithmetic Mean, Median and Mode for ungrouped and grouped data. Combined mean, Merits and demerits of measures of central tendency, Geometric mean: definition, merits and demerits, Harmonic mean: definition, merits and demerits, Choice of A.M., G.M. and H.M.</p> <p>Concept of dispersion, Measures of dispersion: Range, Variance, Standard deviation (SD) for grouped and ungrouped data, combined SD, Measures of relative dispersion: Coefficient of range, coefficient of variation. Examples and problems.</p>	<ol style="list-style-type: none"> 1. To classify and represent data in tabular and graphical form. 2. To compute various measures of central tendency and measures of dispersion.
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Teaching methodology

Topic No.	Total Lectures	Innovative methods to be used	Expected Outcome
1	16	ICT	Students will be able to apply concepts of interests and annuities to calculate EMI, prepare amortization schedule, calculate insurance premiums etc
2	8	ICT	Students will be able to calculate dividend, brokerage on shares and mutual funds. Also students will be able to identify the contribution of shares and mutual funds in systematic investment plans and to select best investment options
3	8	ICT	Students will be able to recognize and classify different types of data. Students will be able to take a sample of appropriate size using suitable method of sampling.
4	16	ICT	Students will be able to calculate measures of central tendency and measures of dispersion. Students will be able to use appropriate measure of central tendency or measure of dispersion for given data to given problems from business or economics.

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References:

Sr. No.	Title of the Book	Author/s	Publication	Place
1	Practical Business Mathematics	S. A. Bari	New Literature Publishing Company	New Delhi
2	Mathematics for Commerce	K. Selvakumar	Notion Press	Chennai
3	Business Mathematics with Applications	Dinesh Khattar & S. R. Arora	S. Chand Publishing	New Delhi
4	Business Mathematics and Statistics	N.G. Das & Dr. J.K. Das	McFraw Hill	New Delhi
5	Fundamentals of Business Mathematics	M. K. Bhowal	Asian Books Pvt. Ltd	New Delhi
6	Operations Research	P. K. Gupta & D. S. Hira	S. Chand Publishing	New Delhi
7	Mathematics for Economics and Finance: Methods and Modeling	Martin Anthony and Norman Biggs	Cambridge University Press	Cambridge
8	Financial Mathematics and Its Applications	Ahmad Nazri Wahidudin	Ventus Publishing ApS	Denmark
9	Fundamentals of Mathematical Statistics	Gupta S. C. and Kapoor V. K.;	Sultan Chand and Sons	23, Daryaganj, New Delhi 110002
10	Statistical Methods	Gupta S. P.;	Sultan Chand and Sons	23, Daryaganj, New Delhi 110002
11	Applied Statistics	Mukhopadhyaya Parimal	New Central Book Agency Pvt. Ltd.	Calcutta.
12	Fundamentals of Statistics	Goon A. M., Gupta, M. K. and Dasgupta, B.	World Press	Calcutta.
13	Fundamentals of Applied Statistics	Gupta S. C. and Kapoor V. K.;	Sultan Chand and Sons	23, Daryaganj, New Delhi 110002



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Semester: I
Computer Concepts and Application - I

Course Code – 114 (B)

No. of Credits :- 03

Objective:

1. To make the students familiar with Computer environment.
2. To make the students familiar with the basics of Operating System and business communication tools.
3. To make the students familiar with basics of Network, Internet and related concepts.
4. To make awareness among students about applications of Internet in Commerce.
5. To enable make awareness among students about e-commerce and M commerce.

Unit 1 Introduction to Computer and Operating system

[12]

Introduction to Computer

Definition, Block Diagram, Computer Hierarchy, (Classification),
Characteristics of Computer

Computer System Hardware

Computer Memory
Input and Output Devices

Definition – Software

Software Types - System Software, Application Software

Definition of Operating System

Types of Operating Systems,
Functions of Operating Systems




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Working with Windows Operating System:

Introduction, The Desktop, Structure of Windows, Windows Explorer, File and Folder Operations, The Search, The Recycle Bin, Adding or Removing New Programs using, Control Panel, Applications in windows (Paint, Notepad, WordPad, and Calculator)

Introduction to Free and Open Source Software

Definition of Computer Virus, Types of Viruses, Use of Antivirus software.

Unit 2 Office automation tools

[12]

Definition of Information Technology (IT)
Benefits of Information Technology (IT)
Applications of Information Technology (IT)

Office automation tools

MS-Word: Introduction, Starting MS-Word, MS-Word Screen and its Components, Elementary Working with MS-Word

MS-Excel: Introduction, Starting MS-Excel, Basics of Spread sheet, MS-Excel Screen and Its Components, Elementary Working with MS-Excel

MS-PowerPoint: Introduction, Starting MS-PowerPoint, Basics of PowerPoint, MS-PowerPoint Screen and Its Components, Elementary Working with MS PowerPoint

Data Processing: Files and Records, File Organization (Sequential, Direct/Random, Index)

Unit 3 Introduction to Computer Network

[12]

Introduction
Importance of Networking
Computer Network (LAN, WAN, MAN)



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Network Components (Hub, Switch, Bridge, Gateway, Router, Modem)
Network Topology, Wireless Network
Internet and Internet application
Introduction, Internet evolution, Working of Internet, Use of Internet

Overview of World Wide Web (Web Server and Client)
Introduction to Search engine and Searching the Web, Downloading files, Introduction to Web Browsers, Working with E-mail (creation and use of the same)

Introduction to Internet Security
Security, Privacy, Ethical Issues & Cyber Law

Unit 4 Computer applications in Commerce [12]

Computer Applications in Business – Need and Scope

Computer Applications in various fields of Commerce:
Personnel Administration, Accounting, Cost and Budgetary Management, Purchasing, Banking, Insurance and Stock-broking, e-governance

E-Commerce

Defining e-Commerce, Main Activities of Electronic Commerce, Benefits of E-Commerce; Broad Goals of Electronic Commerce; Main Components of E-Commerce; Functions of Electronic Commerce – Communication, Process Management, Service Management, Transaction Capabilities;




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Revised syllabi (2019Pattern) for three years F.Y. B. Com. Degree course (CBCS)

**Semester: I
Organizational Skills Development- I**

Course Code – 115 - A

No. of Credits :- 03

Objectives of the course

1. To introduce the students to the emerging changes in the modern office environment
2. To develop the conceptual , analytical , technical and managerial skills of students efficient office organization and records management
3. To develop the organizational skills of students
4. To develop Technical skills among the students for designing and developing effective means to manage records , consistency and efficiency of work flow in the administrative section of an organisation
5. To develop employability skills among the students

Depth of the program – Fundamental Knowledge

Unit No.	Unit Title	Contents	Purpose Skills to be developed
1	Concept of Modern Office	a. Modern Office :- Definition, Characteristics, importance and functions b. Office environment:- Meaning and Importance c. Office Location :- Meaning, Principles and factors affecting Office location d. Office Layout :- Meaning, Principles and factors affecting Office Layout	1. Conceptual Clarity on the meaning of a modern office 2. Developing understanding on the internal and external factors of an office environment 3. Developing analytical and technical skills to contribute towards planning office location and layout
2	Office Organisation and Management	a. Office Organisation : Definition , Importance, Principles and Types of Organisation b. Office Management:- Definition , Functions c. Scientific Office Management :- Meaning, Aims, Techniques of Scientific Office Management and Steps for installation of Scientific Office Management	1. Conceptual clarity on the meaning of Scientific office management 2. Development of understanding in various techniques for scientific management



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3	Office Records Management	<p>a. Office Records Management - Definition, Objectives, Scope of Records Management, Significance, Principles of Records management.</p> <p>b. Digitalization of records:- Advantages and Problems of Digitalization</p> <p>c. Form Design:- Objectives, types of forms, Significance, Principles of form designing</p> <p>d. Office Manual – Definition, Contents Types, benefits and limitations</p>	<p>1. Introduction to concept of digitalization of records</p> <p>2. Technical skills and critical analysis skills for designing of various office documents for effective records creation and maintenance</p>
4	Office work	Office work :-Meaning and Characteristics, Flow of work :- Significance, Features of Ideal flow of work ,benefits of flow of work ,problems in smooth flow of work , suggestions for even flow of work	<p>1. Analytical skills for process improvement in office work.</p>

Teaching Methodology

Topic No.	Total Lectures	Innovative methods used	Film shows and AV Applications	Project	Expected Outcome
1	12	Power Point Presentation	Online Videos	Making a model of office layout in groups	Conceptual Clarity on meaning of Modern Office, internal and external factors of an office environment
2	12	Power Point Presentation			Conceptual clarity on the meaning of Scientific office management and understanding various techniques for scientific management



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3	12	Guest Lectures by Experts	Visit to any organization , college, bank etc (group assignment)	Report on the records management system based on the visit	Technical skills and Critical analysis skills
4	12	PPT , Educational Videos	Visit to any organization , college, bank etc (group assignment)	Report on the visit and suggestions for improvement in work flow of the organization visited	Development of Technical and Analytical abilities

References :

List of Books Recommended :-

1. Modern Office Management – By Mills, Geoffrey
2. Office Management – By Dr. R.K. Chopra , Priyanka G auri
3. Office Management – By R.S.N. Pillai
4. Office Management – By K.L.Maheshwari , R.K. Mahes hwari
5. Modern Office Management : Principles and Techniques – By J.N.Jian , P.P.Singh



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Semester: I
BANKING & FINANCE- I
(Fundamentals of Banking I)

Course Code – 115 - B

No. of Credits :- 03

Objectives -

- To provide knowledge of fundamentals of Banking
- To create awareness about various banking concepts
- To conceptualize banking operations.

Unit No.	Unit Title	Contents	Purpose Skills to be developed
1.	Evolution of Banking	<ul style="list-style-type: none"> • Meaning, Definition and Origin of 'Bank' • Evolution of Banking in Europe and Asia • Evolution of Banking in India • Structure of Indian Banking System 	<ul style="list-style-type: none"> • Knowledge of evolution of banking. • Understanding structure of Indian Banking
2.	Functions of Bank	Primary Functions: <ul style="list-style-type: none"> o Accepting Deposits: <ul style="list-style-type: none"> i. Demand Deposits - Current Deposit and Savings Deposits; ii. Time Deposits - Fixed Deposit and Recurring Flexi Deposits (Auto Sweep) o Granting Loans and Advances- <ul style="list-style-type: none"> i. Short Term Loan- Overdraft Facility, Cash Credit Facility, Purchasing and Discounting of Bills, ii. Term Loan 	<ul style="list-style-type: none"> • Understanding primary and secondary functions of a bank. • Understanding the concepts related to lending and ratios.



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Secondary Functions:

- A. Agency Functions- Payment and Collection of a Cheque, Bill and Promissory Note, Execution of standing instructions, Acting as a Trustee and Executor
- B. General Utility Functions- Safe Custody, Safe Deposit Vaults, Remittance of funds, Pension payments, Acting as a Dealer in Foreign Exchange (FOREX) Market.
- C. Distribution of Third Party Products, Bancassurance, Mutual Funds, Issuance of Credit Card and Debit Card
- D. Non Fund Based Credit Facilities- Letter of Credit, Bank Guarantee and Deferred Payment.
- E. Government Business – Collecting GST, Stamp Duty, Excise Payment, etc.
- Concepts of Priority and non- priority sector lending Security Based and Purpose Oriented Lending, Bridge Loans, Reserve Ratios- CRR and SLR. Credit Appraisal and Credit Monitoring



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3.	<p>Procedure for Opening and Operating of Deposit Account</p>	<p>Procedure for Opening of Deposit Account: Know Your Customer Norms, (KYC Norms), Application Form, Introduction, Proof of Residence, Specimen Signature, and Nomination Facility: Their Importance. No Frill Account</p> <p>Procedure for Operating Deposit Account: Pay-in-slip, Withdrawal slip, Issue of Pass Book, (Current, Savings or Recurring Deposit), Issue of Cheque Book, Issue of Fixed Deposit Receipt, Premature encashment of a Fixed Deposit and Loan against Fixed Deposit. Recurring Deposit: Premature encashment and loan against Recurring Deposit.</p> <p>a) Closure of Account b) Transfer of Account c) Death Claim Procedure</p> <p>Types of Account Holders</p> <p>a) Individual Account Holders- Individual Account, Joint Account, Illiterate, Minor, Married Woman, Parnashashin Woman, Non-Resident Account</p> <p>b) Institutional Account Holders- Sole Proprietorship, Partnership Firm, Joint Stock Company, Hindu Undivided Family, Clubs, Associations, Societies and Trusts.</p>	<ul style="list-style-type: none"> Understanding the process of opening and operating procedure of bank accounts. Understanding various types of bank accounts holders
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4	Methods of Remittance	<p>Demand Draft, Bankers' Cheque</p> <p>Electronic Funds Transfer (EFT) – Real Time Gross Settlement (RTGS), National Electronic Funds Transfer (NEFT), Procedure of fund transfer through NEFT/ RTGS,</p> <p>Society for Worldwide</p> <p>Interbank Financial Telecommunication (SWIFT)</p> <p>Immediate Payment Service (IMPS) - Interbank (Bank to Bank) and Intra Bank (Branch to Branch) Fund Transfer</p>	<ul style="list-style-type: none"> Understanding various methods of remittance.
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Teaching Methodology

Topic No.	Total Lectures	Innovative methods to be used	Film shows and AV Applications	Project	Expected Outcome
1.	10	Lecture, PPT/ Poster Presentation, Group Discussion, Library / Home Assignment	Relevant YouTube videos	NA	<ul style="list-style-type: none"> Knowledge of evolution of banking. Understanding structure of Indian Banking
2.	14	Lecture, PPT/ Poster Presentation, Group Discussion, Library / Home Assignment	Relevant YouTube videos	Report writing of expert lecture	<ul style="list-style-type: none"> Understanding primary and secondary functions of a bank. Understanding the concepts related to lending and ratios.




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3.	14	Lecture, Expert Lecture, PPT/ Poster Presentation, Group Discussion, Library / Home Assignment,	Relevant YouTube videos	Visit to a bank	<ul style="list-style-type: none"> Understanding the process of opening and operating procedure of bank accounts. Understanding various types of bank accounts holders
4.	10	Lecture, Expert Lecture, PPT / Poster Presentation, Group Discussion, Library / Home Assignment,	Relevant YouTube videos	Visit to a bank	<ul style="list-style-type: none"> Understanding various methods of remittance.

References:

1. Majumdar N. C., 'Fundamentals of Modern Banking', New Central Book Agency (P) Ltd., New Delhi.
2. Arondekar A.M. & Others, 'Principles of Banking', Macmillan India Pvt. Ltd.
3. Srinivasan D. & Others, 'Principles & Practices of Banking', Macmillan India Pvt. Ltd.
4. Agarwal O.P., (4th Edition, 2017), 'Banking and Insurance', Himalaya Publishing House.
5. Gopinath M. N., (1st Edition, 2008), 'Banking Principles and Operations', Snow White Publications Pvt. Ltd, Mumbai
6. Gordon E. & Natarajan K., 'Banking - Theory, Law and Practice', (21st Revised Edition), Himalaya Publishing House.
7. Joshi Vasant & Joshi Vinay, (3rd Edition), 'Managing Indian Banks', Sage Publication, New Delhi.
8. Varshney P.N. (12th Edition, 2003), 'Banking - Law and Practice', Sult an Chand & Co. New Delhi
9. Kothari V., (26th Edition) 'Tannan's Banking Law & Practice in India,' Lexis Nexis Publication.




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Revised syllabi (2019Pattern) for three years F.Y. B. Com. Degree course (CBCS)

Semester- I

Defense Organization and Management in India

DEFENSE ORGANISATION AND MANAGEMENT IN INDIA-I

No. of Credits :- 03


Course Code – 115 - D

Objectives:

- 1) To understand the role of Armed Forces and Defense structure of Indian Armed Forces.
- 2) To know the vital elements of Indian Defense Organization in India.
- 3) To know the second line of Defense in India

Unit No.	Topic	No. of Lectures	Teaching Method	Skills to be developed
1.	Development of Defense Organization after Independence 1.1 Reconstruction of Indian Armed Forces since 1947. 1.2 Development of the Army after Independence. 1.3 Development of the Navy after Independence. 1.4 Development of the Air Force after Independence. 1.5 Principles of Defense Organisation.	12	Lecture, PPT, Group Discussion, Library Work, Assignment	<ul style="list-style-type: none"> Understanding defence organization after independence. Understanding the principles of Defense organization
2.	Elements of Defense Organization in India. 2.1 Powers of the President in relation to the Armed Forces. 2.2 Defense Committee of the Cabinet. 2.3 Ministry of Defense – its organizational & function.	12	Lecture, PPT, Group Discussion, Library Work, Study Visit	<ul style="list-style-type: none"> Understanding the elements of defense organization in India.




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	2.4 National Security Council.			
3.	Defense Structure of Indian Armed Forces 3.1 Chief of Staff Committee. 3.2 Organization of Army, Naval & Air Headquarters. 3.3 Organization of Army, Naval & Air Commands.	12	Lecture, PPT, Group Discussion, Library Work,	<ul style="list-style-type: none"> Understanding the defense structure of Indian Armed Forces
4.	Para Military Forces of Defense 4.1 Border Security Force. 4.2 Coast Guard. 4.3 Territorial Army. 4.4 Home Guard. 4.5 Civil Defense. 4.6 National-Cadet Corps (N.C.C.) 4.7 Central Reserve Police Force. 4.8 State Reserve Police Force.	12	Lecture, PPT, Group Discussion, Library Work, Assignment	<ul style="list-style-type: none"> Understanding the paramilitary force of defense.
	Total	48		



References:

- 1) Ron Mathews, "Defense Production in India" ABC, New Delhi.
- 2) Raju G. C. Thomas (1978), "The Defense of India a Budgetary Perspective of Strategy and Politics", Mac Millan Publication, New Delhi.
- 3) Sam C. Sarhesian - The Military Industrial Complex a Reassessment', Sage Publication, New Delhi.
- 4) Maj. Gen. Pratap Narain [Retd] (1998), India's Arms Bazar," Shilpa Publication, New Delhi.
- 5) L t. Gen. R. K. Jasbir Singh(1999), Indias Defense Year Books', Nataraj Publication, Dehradun.
- 6) Chaudhari A.P., 'Nilkantha Publication, Pune
- 7) Jadhav V.Y., 'Sneshvardhan Publication , Pune.
- 8) Venkateshwaram A. L. 'Defense Organisation in India'
- 9) C. Lakshmi (1998) 'Trends in India's Defense Expend iture,' ABC, New Delhi.

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Revised Syllabi (2019 Pattern) for three years B.Com Degree Course (CBCS)

Semester- I

Theory and Practice of Co-operation- I

Course Code – 115 - E

No. of Credits :- 03

Objectives of the course:

1. To acquaint the students with the concept of co-operative movement.
2. To introduce the scope of Co-operation.
3. To make students build their career in the field of Co-operation and Rural Development.

Depth of Programme: - Fundamental Knowledge

Unit No.	Unit Title	Contents	Purpose Skills to be developed
1	Co-operation-	Meaning & Definitions, Objectives, Nature and Scope of Co-operation, Strength and Weakness of Co-operative Movement ,Principles of Co-operative International Co-operative Alliance (ICA) Meaning ,objectives, ICA Board Code of Governance, International Co-operative Alliance (I.C.A) Committee-1937,1966,1995 Problems & Challenges faced by the Co-operative sector	i. To understand the objectives, Nature and scope of co-operation ii. To understand the Co-operative Movement iii. To understand International Co-operative Alliance and ICA Committee 1937,1966,1995



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2	History of Co-operative Movement in India	Introduction and Development of Co-operative Movement in Pre Independence period. Strength and weakness of Co-operative Movement, Sir Fedrick Nicholson Report 1904, MacLagen Committee Report 1912, Study of eminent supporters and their contribution	i. To understand the development of Co-operative Movement in India ii. To understand Sir Fedrick Nicholson Report and MacLagen Committee Report To understand eminent supporters and their contribution in Co-operative Movement of India
3	Development of Co-operative Movement in India in post Independent Era	Contribution of Co-operative Leaders in post Independent Era up to the present Stage, Gorewala Committee Report 1954, Vaidyanathan Committee Report 2005, Development of Co-operative Movement in Maharashtra, Current scenario of Co-operative Movement in India	i. To understand the Contribution of Co-operative Leaders in India ii. To understand the Gorewala Committee Report, Vaidyanathan Committee Report iii. To understand Current scenario of Co-operative Movement in India
4	Government and Co-operative Movement	Role of Central Government, Role of State Government Co-operative Vs Capitalism & Communism	i. To understand the role of Government in Co-operative Movement ii. To understand Co-operative Vs Capitalism & Communism

Teaching Methodology


Topic No.	Total Lectures	Innovative Methods to be used	Film Shows and AV Application	Project	Expected Outcome
1	12	Pre reading, Class discussion, examples from real life through newspapers and internet resources. Debate on The Strength and Weakness of co-operative movement in Maharashtra, Poster presentation	Short Film Show on Co-operative Movement, AV Application (Audio and Visual Application)	Project on Current scenario of Co-operative Movement in Maharashtra	Understanding of basic knowledge of co-operative movement Understanding Scope, Strength and Weakness of co-operative movement. Understanding International Co-operative Alliance



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2	12	Organise Semesterinar/workshop for students, Pre reading, Class discussion, Internet resources. case studies, Field visit to Co-operative Sugar Factory, visit to Agriculture Co-operative and Non Agriculture Co-operative society, Survey report	You Tube Video on History of Co-operative Movement in India	Project Report on Co-operative Sugar Rural Co-operative Urban Co-operative credit Society	Understanding History and current scenario of Co-operative Movement in India
3	12	Guest Lectures of eminent personalities in co-operative movement and Rural Development, experience sharing, Pre reading, Class discussion, examples from real life through newspapers and internet resources, case studies, PPT, Interview of co-operative leader	Presentation on Contribution of Co-operative Leaders in post Independent Era up to the present Stage	Project Report on Development of Co-operative Movement in Maharashtra	Understanding Contribution of Co-operative Leaders in post Independent Era up to the present Stage, Development of Co-operative Movement in Maharashtra
	12	Pre reading, Class discussion, examples of various co-operative institution through Newspapers and internet resources, Guest Lectures of eminent personalities, PPT	Group discussion on Co-operative Vs Capitalism & Communism	Project Report on Role of Government in Co-operative Movement	Understanding Role of Government in Co-operative Movement




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References

Sr. No	Title of Book	Author/s	Publication	Place
1	Co-operation and Rural Development	Principal Dr. Nitin Ghorpade	Success	Pune
2	Co-operation- Principles and Practice-	Dr. D.G. Karve		
3	Theory, History and Practice of Co-operation	Dr. R.D. Beddy		
4	Bhartiya Sahkari Chalval- Tatve va Vyavhar (Marathi)	Prof. Jagdish Killol; Prof. Arvind Bondre; Prof. A. C. Bhavsar		
5	Sahkari Chalval 1904-2004 (Marathi)	Prof. K. L. F ale		
06	Rural Development in India-Policies and Programme	Abdul Azees NP and S.M. Javed Aktar	Kalpaz Publication	
07	Human Resource Management Practices in Co-operative sector	Principal Dr. Shaikh Aftab Anwar	Idea Publication	New Delhi
08	Report of the High Power Committee on Co-operative May 2009 Ministry of Agriculture Government of India			
09	Journal of Commerce and Management Thought(JCMT)			
10	Journal Co-operative Organization and Management , Journal of Co-operative studies			



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Revised Syllabi (2019 Pattern) for three years B.Com Degree Course (CBCS)

Managerial Economics I

Semester - I

Course Code – 115 - F

No. of Credits :- 03

Objectives:

1. To acquaint the students with the concepts and techniques used in micro and macroeconomics.
2. To give the introduction to basic principles of microeconomics and to demonstrate how application of economic theory can improve decision making.
3. To build a perspective necessary for the application of modern economic concepts, precepts, tools and techniques in evaluating business decision taken by a firm.



Unit No.	Unit Title.	Content	Purpose Skills to be developed
1	Introduction	1.1 Nature, Scope and significance of managerial economics. 1.2 Managerial economics and microeconomics. 1.3 Managerial economics and macroeconomics. 1.4 Main characteristics of managerial economics. 1.5 Fundamental economic concepts- opportunity cost, Discounting Principle, Time perspective, incremental reasoning, equi-marginal concept. 1.6 Application of economics in managerial decision making. 1.7 Role and responsibilities of managerial economist in business.	i) To know the meaning, nature of managerial economics ii) To understand fundamental principles of economics. iii) To know the application of principles of managerial economics in business decision making.
2	Demand Analysis	2.1 Basis for demand - concept of utility 2.2 Cardinal Utility approach- Law of marginal utility, maximization of utility, consumer surplus. 2.3 Ordinal Utility approach- Indifference Curve, maximization of utility. 2.4 Law of demand- determinants of demand. 2.5 Elasticity of demand- Price, Income and Cross elasticity of demand. 2.6 Managerial application and importance of elasticity of demand.	i. To understand the concept of utility. ii. To understand the law of diminishing marginal utility in law of demand. iii. To understand the concept of elasticity and its importance in managerial decision making process.

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3	Demand forecasting	3.1 Demand forecasting-Meaning, Methods of demand forecasting- Expert opinion, surveys and market experiments, Time series analysis, Trend Projection, Barometric forecasting. 3.2 Demand forecasting for a new product.(Developing, Testing and launching of new products)	i. To understand the concept of demand forecasting and its utility in demand forecasting of new product. ii. To make the students understand different methods of demand forecasting
4	Production and Cost Analysis	4.1 Law of supply- Determinants of supply. 4.2 Theory of production- Meaning and concept of production, 4.3 Law of Variable Proportions and Returns to a Scale. 4.4 Cost Analysis- Types of Cost - Economic cost and accounting cost, Private cost and social cost, Actual cost and opportunity cost, Past cost and future cost, Explicit cost and implicit cost, Incremental cost and Sunk cost. 4.5 Cost and cost curves under short-run and long run- Fix cost and variable cost, Average cost and marginal cost, Relation between average cost and marginal cost. 4.7 Revenue Curves- Concept of average, marginal and total revenue under different market conditions, relation between average and marginal revenue.	i. To understand the law of supply. ii. To know the various concept of costs and revenues.

Teaching methodology

Topic No.	Total Lectures	Innovative methods to be used	Film shows and AV Applications	Project	Expected Outcome
1	14	i. Open book discussion ii. Interactive lectures	i. Online PPTs ii. You tube lectures	i. Study costs in a local project. ii. Application of cost principles	The students will be able to decipher, analyze and apply the theory and practice of Managerial Economics
2	12	i. Open book discussion. ii. Group discussion with examples.	i. Online PPTs ii. You tube lectures	i. Study of types of elasticity of demand. ii. Study of elasticity of demand in managerial decision.	Students will develop an understanding of the need of businessman to locate the various factors affecting demand of the product and plans of marketing and business strategies accordingly.
3	08	i.) Interactive lectures	i. Online PPTs ii. You tube lectures	i. Study of methods of demand forecasting in a local firm.	Students will understand the demand forecasting of existing and new




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		ii.) Case studies. iii.) Teacher driven power point presentation.			ii. Comparative study of advantages of methods of demand forecasting.	product and its importance in managerial decision making.
4	14	i. Case studies. ii. Interactive lectures.	i. Online PPTs ii. You tube lectures		i. Study of law of variable proportions in a firm. ii. Study of concept of costs in short run and long run.	Students will understand the analytics of supply and its various uses. Students will follow the relationship between costs, revenue, profit and losses.



References

Sr. No.	Title of the Book	Author/s	Publication	Place
1	Managerial Economics	Domnik Salvatore-	Oxford University Press	Oxford University Press
2	"Managerial Economics-	Mark Hirschey, .	2. Mark Hirschey, Log "managerial Economics-An Integrative Approach", Cengage Learning.	2. Mark Hirschey, Log "managerial Economics-An Integrative Approach", Cengage Learning.
3	Managerial Economics-	D.M.Mithani,	Himalaya Publishing House	Mumbai
4	Managerial Economics,	P.L.Mehatha,	S.Chand Publishing	Mumbai
5	Managerial Economics, Pearson Education	Craig Peterson, Lewis and Jain,	Pearson Education	Pearson Education
6	Modern Economic Theory	K.K.Dewett,		
7	Managerial Economics, Margham Publications, Madras	Shankaran S.	Margham Publications, Madras	Madras
8	Managerial Economics,	Thomas Christopher R. and Charles, Maurice S.	McGraw Hill Irwin, Boston.	McGraw Hill Irwin, Boston.


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Revised syllabus (2019 Pattern) for three years B.Com Degree course (CBCS)

Semester - I

Essentials of E- Commerce

Course Code – 116 A

No. of Credits :- 03

Objectives of the course

1. To acquaint the learner with knowledge on the basics of E-commerce.
2. To develop knowledge on various types of E-commerce business.
3. To develop practical knowledge on effective design of Website and Domain Registration.
4. To Develop knowledge on various modes of online transaction for crating convenience in day to day financial transactions and promoting cashless economy.
5. To introduce the learner to the concept of Electronic Data Inter exchange and its significance.

Depth of the program – Fundamental Knowledge

Unit No.	Unit Title	Contents	Purpose Skills to be developed
1	Overview of Electronic Commerce(EC)	Concept, Features and Functions of e-commerce practices v/s traditional practices ,scope and limitations of e-commerce , Recent trends in e-commerce , Risks in e-commerce and preventive measures	1. Conceptual understanding of basics of e-commerce
2	Types of e-Commerce Business	Definition and types of e-commerce business : B2B, B2C, C2B, C2C,B2G, C2G, B2A, C2A and P2P, B2B service provider.	1. Awareness on the various forms of e-commerce
3	Infrastructure	Internet and its role in e-commerce, Mobile and its role in e-commerce , procedure of registering an Internet domain , establishing connectivity to Internet ,tools and services of Internet , Requisites of selecting an appropriate domain name , Website – Essential factors in designing and importance of an effective website	1. Technical knowledge on registration of a domain 2. Practical Knowledge on role of Internet in e-commerce 3. Analytical skills and Creative skills for web page designing



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4	E- Payment and Electronic Data Inter exchange	<p>A. E- Payment : Transactions through Internet, requirements of e-payments systems, functioning of Debit and credit cards, pre and post payment services Overview on Online Payment Portals and apps in India, CC Avenue, Paytm, BHIM, UPI, Phone Pe etc. Concept of Payment Gateway and Payment Processor</p> <p>B. Electronic Data Inter exchange: Evolution, uses, benefits, Working of EDI, EDI standards (includes variable length EDI standards), Cost Benefit Analysis of EDI, Electronic Trading Networks, EDI Components, File types, EDI Services, EDI Software.</p>	<ol style="list-style-type: none"> 1. Practical Oriented Skills on E-commerce 2. Conceptual Clarity on Online Payment Process 3. Conceptual Clarity on EDI and Electronic
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Teaching Methodology

Topic No.	Total Lectures	Innovative methods to be used	Film shows and AV Applications	Project	Expected Outcome
1	10	Lecture Methods / Guest Lectures	Online Educational Videos		Developing understanding on E-commerce
2	12	Guest Lectures by subject Experts / Case Study	Online Educational Videos and Success stories	Case study on any one success story	Awareness on various e-commerce platforms
3	12	PPT / Lectures / Guest Lectures	Demonstration by Industry Expert		Technical, Practical, Analytical and Creative Skills
4	14	Live Demonstrations/PPT/Lectures	Online Educational Videos	Actual online transactions of Money transfer and online purchase via online payment for small value orders (can be	Technical and Practical Skills



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				undertaken as a group) Payments to vendors via various payment apps apps	
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Method of Evaluation

Subject	Internal Evaluation	External Evaluation	Suggested Add on Course
Unit – I	MCQ /Written Test /PPT	As per University norms	Certificate Web Page Designing
Unit – II	MCQ/Written test /Report Writing	As per University norms	Certificate course on Digital Marketing
Unit – III	Written Test/ Report and /or PPT on any 5 well designed websites	As per University norms	
Unit – IV	Written Test / MCQ	As per University norms	

References :

List of Books Recommended :-

1. The Complete E-Commerce Book - By Janice Reynolds
2. E-Commerce Website optimization - By Dan Corxen- John and Johaan van Tonder
3. E-Commerce Website optimization - By Dan Corxen- John and Johaan van Tonder
4. E-Commerce – Business, Technology, Society – By Kenneth c. Laudon and Carol Guercio Traver
5. Essentials of E-Commerce Technology – By. V.Rajaram and
6. E Business R(Evolution)- By Daniel Amor
7. E-Commerce Management - By Krishnamurthy
8. E-Commerce: Strategy, Technologies and Applications By David Whiteley



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Revised Syllabi (2019 Pattern) for three years B.Com Degree Course (CBCS)

Semester - I Insurance and Transport-I (Insurance)

Course Code – 116 - B

No. of Credits :- 03

Objectives:

1. To acquaint students with the concepts of Insurance.
2. To create awareness regarding basic knowledge about Life Insurance, Fire Insurance and Marine Insurance.
3. To make the students aware of career opportunities in the field of Insurance

Unit No.	Topic	No. of Lectures	Teaching Method	Proposed skills to be developed
1.	Introduction to Insurance 1.1 Meaning and Nature of Insurance 1.2 Importance of Insurance 1.3 Scope of Insurance 1.4 Principles of Insurance 1.5 Risk and Insurance 1.6 Types – Life and General Insurance 1.7 Difference between Life and General Insurance 1.8 Career opportunities in Insurance Sector	16	Lecture, PPT, Group Discussion, Library Work, Assignment Companies	<ul style="list-style-type: none"> Understanding the concept of insurance
2.	Life Insurance 2.1 Meaning and Features of Life Insurance 2.2 Nature of Life Insurance 2.3 Origin of Life Insurance 2.4 Importance of Life Insurance 2.5 Principles of Life Insurance 2.6 Types of Life Insurance Policies 2.7 Procedure of Life Insurance Contract	16	Lecture, PPT, Group Discussion, Library Work, Study Visit to Office of the Insurance	<ul style="list-style-type: none"> Understanding the concept of life insurance.




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(3)

Suggested references
Web reference

1. <https://nptel.ac.in/courses/110101005/2>
2. <https://nptel.ac.in/downloads/110101005/>
3. <http://cec.nic.in/Pages/Home.aspx>
4. <http://en.wikipedia.org/wiki/Economics>
5. <http://www.investopedia.com/university/economics/#axzz1XwhFTmtm>
6. <http://www.tutor2u.net/blog/index.php/economics/>
7. <http://www.economicshelp.org/>
8. <https://www.intelligenteconomist.com/economics-blogs/>
9. <https://www.coursera.org/courses?query=managerial%20economics>
10. <https://www.edx.org/course/introduction-to-managerial-economics-0>
11. <https://www.mooc-list.com/tags/managerial-economics>
12. <https://online.stmary.edu/mba/courses/managerial-economics>
13. <https://www.tru.ca/distance/courses/econ3041.html>
14. <https://www.euomba.org/managerial-economic>




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UNIVERSITY OF PUNE
COURSE STRUCTURE FOR
BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.)
(From 2013-14)

1. Title:

The degree shall be titled as Bachelor of Business Administration (B.B.A.) under the Faculty of Commerce Part I w.e.f. the academic year 2013-2014 B.B.A. Part II w.e.f. 2014-2015 and B.B.A. Part III w.e.f. 2015-2016.

2. Objectives:

- (i) To provide adequate basic understanding about Management Education among the students.
- (ii) To prepare students to exploit opportunities being newly created in the Management Profession.
- (iii) To train the students in communication skills effectively.
- (iv) To develop appropriate skills in the students so as to make them competent and provide themselves self-employment.
- (v) To inculcate Entrepreneurial skills.

3. Duration:

The Course shall be a full time course and the duration of the course shall be of three years.

4. Eligibility:

- (i) A candidate for being eligible for admission to the Degree course in Bachelor of Business Administration shall have passed 12th Std. Examination (H.S.C. 10+2) from any stream with English as passing subject and has secured 40% marks at 12th Std.
- (ii) Two years Diploma in Pharmacy after H.S.C., Board of Technical Education conducted by Government of Maharashtra or its equivalent.
- (iii) Three Year Diploma Course (after S.S.C., i.e. 10th Standard) of Board of Technical Education conducted by Government of Maharashtra or its equivalent.
- (iv) MCVC



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Page 1 of 34



"Knowledge is the Supreme Goal."

स्थापना वर्ष : २००५

विकास प्रतिष्ठान'चे
कै. तुकाराम धोंडीबा पठारे कला, वाणिज्य व विज्ञान महाविद्यालय
चंदन नगर, पुणे - ४११०१४.

[B.A., B.COM., B.B.A., B.B.A.(C.A.), B.Sc.(CS)]

शासन मान्यता क्र.: एन.जी.सी. २००४/(१/०४)/मशि-३, दि. १५/०७/२००४ सावित्रीबाई फुले पुणे विद्यापीठ संलग्नता क्र.: PU/PN/AC/218(2005)
PUN CODE : CAAP013450 EXAM CENTRE CODE : 0803



मा. श्री. पंढरीनाथ तया आण्णासाहेब तुकाराम पठारे
अध्यक्ष

मा. अॅड. राजेंद्र उमाप
सचिव

मा. श्री. महेंद्र पठारे
सवरस्य

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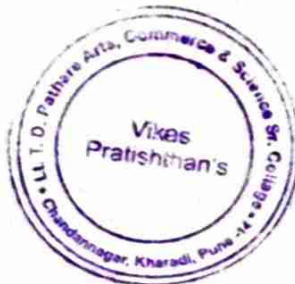
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Academic Calendar for the year 2017-18

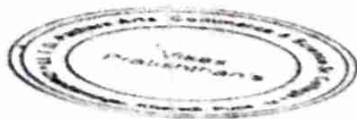
Examination Section

Second Term

Sr. No.	Level	Program	Activity	Week & Month
1.	U.G.	B.A./B.Com./BBA/ BBA(CA)/ B.Sc. (CS)	Tutorial-III Tutorial-IV Test-II Term End Examination University Practical Examination University Theory Examination	4 th Week of December 4 th Week of January 4 th Week of February 1 st Week of March 3 rd Week of March 4 th Week of March
		CAP	F.Y.B.A./F.Y.B.Com/BBA/BBA(CA)/B .Sc(CS)	3 rd Week of April



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(v) Every eligible candidate has to pass a Common Entrance Test to be conducted by the respective Institute/College.

5. Medium of Instruction:

Medium of instruction shall be in English only.

6. Scheme of Examination:

The B.B.A. Examination will be 3600 marks divided into 3 parts as per details given below:

(i) B.B.A. Part I (Sem I, II) Aggregate marks	1200
(ii) B.B.A. Part II (Sem III, IV) Aggregate marks	1200
(iii) B.B.A. Part III (Sem V, VI) Aggregate marks	1200

There will be written Examination of 80 marks and 3 hrs duration for every course at the end of each Semester. The class work will carry 20 marks in each course. For Courses in Business Exposure (Sem IV) there will be viva voce examination of 50 marks and for Written Report on Industrial visits 50 marks. For course on Project work (Sem VI) there will be oral presentation test consisting of 20 marks and Written Report of 30 marks.

7. Backlog:

- A student shall be allowed to keep term for the Second Year, if he/she has a backlog of not more than three theory & one practical or four theory heads of total number of subjects of the First Year examination, which consist of First & Second Semester.
- A student shall be allowed to keep for the Third Year, if he/she has no backlog of First Year & if he/she has a backlog of not more than three theory & one practical or four theory heads of total number of subjects of the Second Year examination, which consist of Third & Fourth Semester.

8. Verification and Revaluation

The candidate may apply for verification and revaluation or result through Principal of the College which will be done by the University as per ordinance framed in that behalf.

9. Equivalence and Transitory Provision

The University will conduct examination of old course for next three academic years from the date of implementation of new course.



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The candidate of old course will be given three chances to clear his subjects as per the old course and thereafter he will have to appear for the subjects under new course as per the equivalence given to old course.

10. Standard of Passing and Award of Class:

In order to pass examination a candidate has to obtain 40% marks out of 100 (Sem-end exam 80 + class work marks 20 taken together) in each course.

The award of class:

The class shall be awarded to the student on the basis of aggregate marks obtained by him in all three years (Part I, II and III). The award of Class is as follows:


(i) Aggregate 70% and above	First Class with Distinction.
(ii) Aggregate 60% and above but less than 70%	First Class.
(iii) Aggregate 55% and above but less than 60%	Higher Second Class
(iv) Aggregate 50% and above but less than 55%.	Second Class.
(v) Aggregate 40% and above but less than 50%	Pass Class.
(vi) Below 40%	Fail.

11. Setting of Question Papers

1. A candidate shall have to answer the questions in all the subjects in English only.
2. The question papers shall be framed so as to ensure that no part of the syllabus is left out of study by a student.
3. The question paper shall be balanced in respect of various topics outlined in the syllabus.
4. The question papers shall have a combination of long and short answer type questions.
5. There shall be no overall option in the question paper; instead, there shall be internal options.

12. The subject wise Revised Syllabus for F.Y. BBA Course shall be as given in the following pages.




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Subject wise Course Structure

B.B.A. First Year (F.Y.) (2013-14)

Sr. No.	Sub. Code	Sem I	Sr. No.	Sub Code	Sem II
1	101	Business Organization and System	1	201	Principles of Management
2	102	Business Communication Skills	2	202	Principles of Marketing
3	103	Business Accounting	3	203	Principles of Finance
4	104	Business Economics (Micro)	4	204	Basics of Cost Accounting
5	105	Business Mathematics	5	205	Business Statistics
6	106	Business Demography and Environmental Studies	6	206	Business Informatics

B.B.A. Second Year (S.Y.) (2014-15)

Sr. No.	Sub. Code	Sem III	Sr. No.	Sub Code	Sem IV
1	301	Personality Development	1	401	Production and Operations Management
2	302	Business Ethics	2	402	Industrial Relations & Labour Laws
3	303	Human Resource Management and Organization Behaviour	3	403	Business Taxation
4	304	Management Accounting	4	404	International Business
5	305	Business Economics (Macro)	5	405	Management Information System
6	306	I.T. in Management	6	406	Business Exposure (Field Visits)

B.B.A. Third Year (T.Y.) (2015-16)

Sr. No.	Sub. Code	Sem V	Sr. No.	Sub Code	Sem VI
1	501	Supply Chain and Logistics Management	1	601	Business Planning and Project Management
2	502	Entrepreneurship Development	2	602	Event Management
3	503	Business Law	3	603	Management Control System
4	504	Research Methodology (Tools and Analysis)	4	604	E-Commerce
5	505	Specialization- I	5	605	Specialization- III
6	506	Specialization- II	6	606	Specialization- IV

Available Specializations

- 1) Finance 2) Marketing 3) Human Resource Management
- 4) Service Sector Management 5) Agri Business Management



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Business Organization and Systems

Course code 101

Objectives:

1. To make the students aware about various activities of business, business practices and recent trends in business world.
2. To study the challenges before the businesses and setting up of a business enterprise.
3. To develop the spirit of entrepreneurship among the students.

	Contents	No. of Lectures
Unit 1	Nature and Evolution of Business 1.1 Human Occupations – characteristics of Business— Divisions of Business—Objectives of Business— Requisites for success in Business 1.2 Development of commerce – Evolution of Industry—The Industrial Revolution— Globalization—Emergence of MNCs 1.3 Recent Trends—Mergers and Acquisitions, Networking, Franchising, BPOs and KPOs, E-Commerce, On-line trading, Patents, trademarks and copy rights—Challenges before Indian business Sector	10
Unit 2	Forms of Business Organizations 2.1 Mixed Economy—Private Sector—Public Sector—Co- operative sector—Joint sector Service Sector 2.2 Forms of Business Organizations—Sole proprietorship— Partnership firm—Joint stock company—Features—Merits demerits and suitability of various forms of business	10
Unit 3	Setting up of a Business Enterprise 3.1 Decision in setting up of an enterprise—Opportunity and idea generation - Role of creativity and innovation 3.2 Project Report—Business size and Location decisions— Factors to be considered in starting a new unit—Government policies	10
Unit 4	Domestic and Foreign Trade 4.1 Whole sale and Retail Trade –Emergence of Foreign players in trading –Government policy, Effects of FDI on retail trade	10




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	4.2 Organization of finance –Insurance—Transportation and communication and other Services—Import and Export procedure	
Unit 5	Business and Society 5.1 Objectives of Business—Changing concept, Professionalization 5.2 Business Ethics and culture—Technological and social changes –Social responsibility of business—CSR—Social Audit	08
	Total	48

Recommended Books:

1. *Modern Business Organization* - S.A. Sherlekar
2. *Industrial Organization Management* - Sherlekar
3. *Business Organization and management* – Y.K. Bhushan
4. *Business Organization and system* – Dr.M.V.Gite, Dr.R.D.Darekar, Prof.S.N.Nanaware, Dr.V.D. Barve- Success Publication,Pune
5. *Business Environment* - F. Cherunilam
6. *Business Organization & Management* – C.B. Gupta.
7. *Entrepreneurial Development* – S.S. Khanna.
8. *Organizing and Financing of Small scale Industry* – Dr. V. Desai




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Semester I
Business Communication Skills

Course Code: 102

Objectives:

1. To improve various skills such as linguistic, non linguistic and Paralinguistic skills.
2. To develop an integrative approach where reading, writing, oral and speaking components are used together to enhance the students' ability to communicate and write effectively.
3. To create awareness among student about Methods and Media of communication.

	Contents	No. of Lectures
Unit 1	Introduction to Communication Meaning, Definition, objective, Process, importance. Principles of good Communication, Barriers to Communication, Overcoming Barriers.	08
Unit 2	Methods and Types of Communication Written Communication, Oral Communication, Silent Communication – Body Language, Proximity, Touch, Signs and Symbols, Paralinguistic, -Advantages and disadvantages of each	10
Unit 3	Oral Communication Meaning, Nature, Scope, Principles of Effective Oral Communication, Techniques of Effective Speech, Press Conference, Group Discussion, Interviews, Negotiation, Presentations, The Art of Listening, Principles of Good Listening, Barriers of Listening, Phone Etiquette, Grapevine	12
Unit 4	Business Correspondence Need, Functions, Component and layout of Business letter, Drafting of letters: Enquiry letter, Placing order, Complaints and follow up letters, Sales letter, Circulars, Application for employment and Resume, Notices, Agenda, Memo, Email etiquette	10
Unit 5	Media of Communication Introduction, Advantages and Disadvantages of – Telex, Telegram, Fax, Voice Mail, Teleconferencing, Video Conferencing, SIM Card, Dictaphone, SMS, MMS, Internet and Social Media Sites.	08
	Total	48




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Recommended Books:

- 1) *Business Communication (Principles, Methods and Techniques)* - Nirmal Singh- Deep & Deep Publications Pvt. Ltd, New Delhi.
- 2) *Essentials of Business Communication* – Rajendra Pal & J. S. Korhalli- Sultan Chand & Sons, New Delhi.
- 3) *Media and Communication Management* – C.S.Raydu - Himalaya Publishing House, Mumbai.
- 4) *Professional Communication*- Aruna Koneru- Tata McGraw-Hill Publishing Co. Ltd, New Delhi.
- 5) *Creating a Successful CV* - Siman Howard - Dorling Kindersley.
- 6) *Business Communication skills* – Dr.G.M.Dumbre, Dr.Anjali Kalkar, Dr.P.N.Shende, Dr.S.D.Takalkar-success Publication, Pune
- 7) *Effective Documentation and Presentation*- Urmila Rai & S.M. Rai – Himalaya Publishing House, Mumbai.
- 8) *Principles Practices of Business Communication* – Aspi Doctor & Rhoda Doctor – Sheth Publishers Pvt. Ltd.
- 9) *Business Communication – Concepts, Cases and Applications* – P.D. Chaturvedi, Mukesh Chaturvedi, 2nd Edition (2013)




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Semester I
Business Accounting
Course Code – 103

Objectives:

1. To enable the students to acquire sound knowledge of basic concepts of accounting
2. To impart basic accounting knowledge
3. To impart the knowledge about recording of transactions and preparation of final accounts
4. To acquaint the students about accounting software packages

	Contents	No. of lectures
Unit 1	Introduction: Financial Accounting-definition and Scope, objectives, Accounting concepts , principles and conventions Accounting Standards in general: - AS1, AS2, AS6.	6
Unit 2	Accounting Transactions and Final Accounts :- Voucher system; Accounting Process, Journals, Ledger, Cash Book , subsidiary books ,Trial Balance preparation of Final Accounts of Sole Proprietorship(Trading and Profit & Loss Account and Balance Sheet)	18
Unit 3	Bank Reconciliation Statement :- Meaning , importance and preparation of Bank Reconciliation Statement	12
Unit 4	Depreciation: - Meaning, need, importance and methods of charging depreciation - Written Down Value, Straight Line Method.	8
Unit 5	Computerized Accounting: Computers and Financial application, Accounting Software packages.	4
	Total	48

Allocation of Marks:

Theory - 30%

Practical problems - 70%




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Recommended Books

1. Fundamentals of Accounting & Financial Analysis: By Anil Chowdhry (Pearson Education)
2. Business Accounting-Dr. G.M. Dumbre, Dr. Kishor Jagtap, Dr. A.H. Gaikwad, Dr. N.M. Nare-Success Publication, Pune
2. Financial accounting: By Jane Reimers (Pearson Education)
3. Accounting Made Easy By Rajesh Agarwal & R Srinivasan (Tata McGraw -Hill)
4. Financial Accounting For Management: By Amrith Gupta (Pearson Education)
5. Financial Accounting For Management: By Dr. S. N. Maheshwari (Vikas Publishing)
6. Advanced Accounts – M.C. Shukla and S P Grewal (S.Chand & Co., New Delhi)




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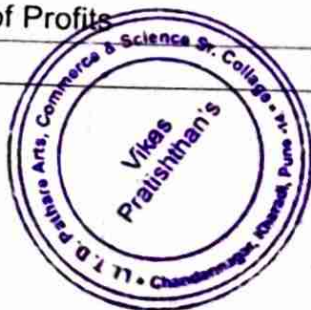
Semester I
Business Economics (Micro)

Course Code - 104

Objectives:

1. To expose students to basic micro economic concepts.
2. To apply economic analysis in the formulation of business policies.
3. To use economic reasoning to problems of business.

	Contents	No. of Lectures
Unit 1	INTRODUCTION 1.1 Meaning, Nature and Scope of Business Economics – Micro and Macro 1.2 Basic Economic Problems 1.3 Circular Flow of Income and Expenditure	07
Unit 2	DEMAND and SUPPLY ANALYSIS 2.1 Concept of Demand and Supply 2.2 Elasticity of Demand and their types. 2.3 Factors Affecting Supply 2.4 Concept and Law of Supply	09
Unit 3	REVENUE AND COST ANALYSIS 3.1 Revenue Concepts - Total Revenue, Marginal Revenue, Average Revenue and their relationship 3.2 Types of costs – i) Accounting Costs and Economic Costs ii) Short Run Cost Analysis: Fixed, Variable and Total Cost Curves, Average and Marginal Costs iii) Long Run Cost Analysis: Long Run Average and Marginal Cost Curves	10
Unit 4	PRICING UNDER VARIOUS MARKET CONDITIONS 4.1 Perfect Competition - Equilibrium of Firm and Industry under Perfect Competition 4.2 Monopoly - Price Determination under Monopoly 4.3 Monopolistic Competition – Non- price competition 4.4 Duopoly and Oligopoly – Meaning and characteristics	10
Unit 5	DISTRIBUTION 5.1 Rent: Modern Theory of Rent 5.2 Wages: Marginal Productivity Theory of Wage Determination 5.3 Interest: Liquidity Preference Theory of Interest 5.4 Profits: Dynamic, Innovation, Risk - Bearing and Uncertainty Bearing Theories of Profits	12
	Total	48




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Recommended Books:

1. Textbook of Economic Theory - Stonier and Hague; Longman Green and Co., London.
2. Introduction to Positive Economics - Richard G. Lipsey
3. Business Economics (Micro) - Dr. Girijashankar; Atharva Prakashan, Pune.
4. Micro Economics - M. L. Seth
5. Business Economics(Micro)-Dr.Girija Shankar, Dr.B.D.Khedkar, Dr.S.G.Shinde, Prof.Anjali Sane-Success Publication,Pune
6. Micro Economics - M. L. Jhingan; Vrinda Publications, New Delhi.
7. Business Economics – Dr. D. M. Mithani and Mrs. Anjali Sane, Himalaya Publications




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Semester I
Business Mathematics
Course code 105

Objectives:

1. To understand applications of matrices in business.
2. To understand the concept and application of Permutations & Combinations in business.
3. To use L.P.P. and its applications in business.
4. To understand the concept of Transportation problems & its applications in business world.
5. To understand the concept of shares & share market.

	Contents	No. of Lectures
Unit 1	Shares and Dividends Concept of Shares, Stock exchange, Face Value, Market Value, Dividend, Equity Shares, Preferential Shares, Bonus Shares, Examples.	08
Unit 2	Permutations and Combinations Permutations of 'n' dissimilar objects taken 'r' at a time (with or without repetition). $nPr = n! / (n-r)!$ (Without proof). Combinations of 'r' objects taken from 'n' objects. $nCr = n! / r! (n-r)!$ (Without proof) problems, Applications.	08
Unit 3	Matrices and Determinants (up to order 3 only) Multivariable data, Definition of a Matrix, Types of Matrices, Algebra of Matrices, Determinants, Adjoint of a Matrix, Inverse of a Matrix via Adjoint Matrix, Homogeneous System of Linear equations, Condition for Uniqueness for the homogeneous system, Solution of Non-homogeneous System of Linear equations (not more than three variables). Condition for existence and uniqueness of solution, Solution using inverse of the coefficient matrix, Problems.	14
Unit 4	Linear Programming problem (L.P.P.) Meaning of LPP, Formulation of LPP, and solution by graphical methods.	10
Unit 5	Transportation problem (T.P.) Statement and meaning of T.P. methods of finding initial basic feasible solution by North West corner Rule, Matrix Minimum method and Vogel's approximation method. Simple numerical problems (concept of degeneracy is not expected).	08
	Total	48



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Reference Books:

- 1) *Business Mathematics* by Dr. Amarnath Dikshit & Dr. Jinendra Kumar Jain.
- 2) *Business Mathematics* by Padmalochan Hazarika – Sultan chand & sons, Delhi
- 3) *Business Mathematics* by Bari - New Literature publishing company, Mumbai
- 4) *Operations Research* by V.K. Kapoor - Sultan chand & sons
- 5) *Operations Research* by Dr. S. D. Sharma – Sultan Chand & Sons.
- 6) *Operations Research* by Dr. J. K. Sharma – Sultan Chand & Sons.
- 7) *Business mathematics* – Dr. Anwar Shaikh, Prof. R.G. Gurav, Prof. Tawade, Prof. Vaibhav Joshi- Success Publication, Pune




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Semester I

Business Demography and Environmental Studies

Course Code: 106

Objectives :

- 1) To develop knowledge base for demographic and environmental factors affecting business.
- 2) To make the students aware of environmental problems related to business and Commerce.
- 3) To inculcate values of Environmental ethics amongst the students.

	Contents	No. of Lectures
Unit 1	Introduction of demography 1.1 Meaning, Definition, Need, Importance & need of Demography Studies for Business 1.2 Scope of demography, interdisciplinary approach of demography 1.3 Components of demography: Fertility, mortality and migration 1.4 Measures to calculate fertility and mortality rate 1.5 Factors affecting fertility and mortality	10
Unit 2	Distribution of Population and Population Growth 2.1 Meaning of population distribution and population density, Physical and cultural factors affecting the distribution of population 2.2 Concepts of over, optimum and under population with suitable examples 2.3 Meaning and definition of population growth, Methods of calculating population growth 2.4 Population growth in India since 1901	08
Unit 3	Population as Resource 3.1 Meaning of resource, types of resources 3.2 Importance of human resource in development and growth of business 3.3 Concept of Literacy: importance of literate population as a resource 3.4 Concept of sex ratio, Concept of Age & Sex Pyramid, Types of age and sex pyramid, age and sex pyramids of different countries 3.5 Classification of population - Urban and rural population 3.6 Population below poverty line, working population, dependent Population	12
	Urbanization	06



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Unit 4	4.1 Meaning, definitions of urbanization, factors responsible for urbanization and problems of urbanization 4.2 Urbanization as Behavioral concept, structural concepts and demographic concept	
Unit 5	Environment and Environmental issues related to Business 5.1 Meaning and definition of environment 5.2 Types of Environment 5.3 Physical and Cultural components of environment 5.4 Need of environmental studies for Business Management 5.5 Environment factors affecting Business – Physical factors –topography, climate, minerals, water resources; Cultural factors – infrastructure – technology tradition, political, social, education 5.6 Global warming and Kyoto Protocol, Oil Crisis and its impact on Business 5.7 Problems related to water resources 5.8 Types of pollution –Air, Water, Noise - Effects and causes of pollution 5.9 Remedial measures to control pollution 5.10 Interrelationship between industrialization and pollution	12
	Total	48

Recommended books:

1. *Population Geography* : R.C. Chandana, Lyall Book Depot/ Kalyani Publishers (2006)
2. *Population Geography*: Qazi, S. Shah, Shargi Qazi APH Publishing Corp. New Delhi
3. *Environmental Geography*: Dr. Savindra Singh Prayag Pustak Bhawan
4. *Geography of India*: Majid Hussain Tata McGraw Hill
5. *Population Geography* : I Singh: Alfa Publication (2006)
6. *Business Demography and Environmental studies*-Miss Joshi Sunita, Dr.Jaybhaye Ravindra- Success Publication,Pune



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Semester II
Principles of Management

Course Code – 201

Objectives:

- a) To provide conceptual knowledge to the students regarding nature, complexity and various functions of management
- b) To give historical perspective of management
- c) Students will also gain some basic knowledge on recent trends and international aspects of management

	Contents	No. of Lectures
Unit 1	Nature of Management 1.1 Meaning, Definition, Nature, Importance & Functions 1.2 Management an Art, Science & Profession-Management as social System 1.3 Concept of Management-Administration-Organization-Universality of management	08
Unit 2	Evolution of management Thoughts 2.1 Contribution of F.W.Taylor, Henri Fayol, Elton Mayo, Chester Barnard & Peter Drucker to the management thought 2.2 Various approaches to management (i.e. School of management thought) Indian management Thought	10
Unit 3	Functions of Management : Part – I 3.1 Planning –Meaning –Need & Importance, types levels – advantages & limitations; Forecasting- Need & Techniques; Decision making – Types - Process of rational decision making & techniques of decision making. 3.2 Organizing – Elements of organizing & process Types of organizations, Delegation of authority – Need, difficulties in delegation – Decentralization. 3.3 Staffing – Meaning & importance	12
Unit 4	Functions of Management : Part –II 4.1 Direction - Nature – Principles	10




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	Communication – Types & Importance Motivation - Importance – Theories Leadership – Meaning - Styles, qualities & functions of leaders 4.2 Controlling – Need, nature, Importance, Process & techniques 4.3 Co-ordination - Need – Importance	
Unit 5	Recent Trends in Management 5.1 Management of change 5.2 Management of Crisis 5.3 Total Quality Management 5.4 Stress Management 5.5 International Management	08
	Total	48

Recommended Books:

1. *Essential of Management - Harold Koontz and Itenz Wiebritch- McGraw-Hill International*
2. *Management Theory & Practice – J.N. Chandan*
3. *Essential of Business Administration – K. Aswathapa, Himalaya Publishing House*
4. *Principles & Practice of management – Dr. L.M. Prasad, Sultan Chand & Sons – New Delhi*
5. *Business Organization & management – Dr. Y.K. Bhushan.*
6. *Management: Concept and Strategies by J.S. Chandan, Vikas Publishing.*
7. *Principles of Management, By Tripathi, Reddy Tata McGraw Hill*
8. *Business organization and management by Talloo by Tata Mc Graw Hill*
9. *Business Environment and policy – A book on Strategic Management/ Corporate Planning By Francis Cherunilam, Himalaya Publishing House.*
10. *Business Organization & Management – C.B. Gupta*



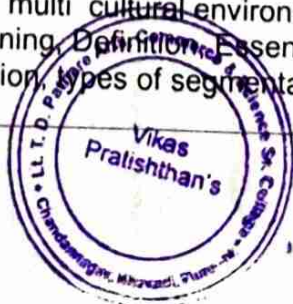

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Semester II
Principles of Marketing
Course Code: 202

Objectives:

- a. To introduce and familiarize the student's basic concepts of marketing, it's general nature, scope and importance.
- b. To impart appropriate knowledge and understanding of its primary functions and applications and its gradual evolution and development.
- c. To develop basic and essential skills related to marketing.
- d. To provide a learning platform for preparing students for marketing employability opportunities essential for industries.

	Contents	No. of Lectures
Unit 1	Introduction and Functions of Marketing 1.1 Marketing – Definitions, Concept, objectives, importance and functions of marketing: on the basis of exchange, on the basis of physical supply and facilitating functions 1.2 Approaches to the study of Marketing 1.3 Relevance of Marketing in a developing economy. 1.4 Changing profile and challenges faced by a Marketing manager	08
Unit 2	Classification and types of markets 2.1 Traditional classification of marketing 2.2 Service Marketing: 7P's of services marketing, importance of services marketing, importance of service sectors 2.3 Rural Marketing: Meaning, feature & importance of rural marketing, Difficulties in rural marketing and suggestions for improvement of Rural Marketing 2.4 Retail marketing 2.5 Tele marketing 2.6 E-Marketing 2.7 Digital marketing: meaning, importance of digital marketing 2.8 Green marketing	08
Unit 3	Marketing Environment and Market Segmentation 3.1 Marketing Environment – Meaning, Internal & external factors influencing Marketing environment: political, social, economical, international, technological multi cultural environment 3.2 Market Segmentation: Meaning, Definition, Essentials of effective Market Segmentation, types of segmentation	08



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Unit 4	Marketing Mix 4.1: Product mix and Price mix Meaning, scope and importance of marketing mix a. Product mix: concept of a product, product characteristics: intrinsic and extrinsic , PLC, Product simplification, product elimination, product diversification , new product development b. Price mix : meaning, element , importance of price mix , factors influencing pricing , pricing methods and recent trends 4.2 : Place mix and Promotion mix c. Place mix: meaning and concepts of channel of distribution, types of channel of distribution or intermediaries, Factors influencing selection of channels, types of distribution strategies: intensive, selective and extensive recent changes in terms of logistics and supply chain management. d. Promotion mix: meaning, elements of promotion mix: advertising: meaning, definitions, importance and limitations of advertising, types of media: outdoor, indoor, print, press, transit - merits and demerits, concept of media mix, Recent trends in promotion	16
Unit 5	Marketing Planning, Marketing Information System, Marketing Research 5.1 Marketing planning: meaning, scope, importance, essentials and steps in marketing planning ,Importance and difficulties in marketing planning 5.2 Marketing Information System: Concept, components and importance of Marketing Information System 5.3 Marketing Research – Meaning, definitions, objectives and scope of marketing research, difference between market research and marketing research, types & techniques of Marketing Research, Use of Marketing Research in management	10
	Total	48

All topics should be supported with assignments, group discussions, visits and case lets as per requirements.

Reference Books

1. Marketing Management By Philip Kotler
2. Marketing Management Cravens By Hills – Woodruff
3. Marketing – A Managerial Introduction By Gandhi
4. Marketing Information System By Davis – Olsan
5. Consumer Behavior By Schiffman – Kanuk
6. Principles and practice of Marketing By John Fraim.




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Semester II
PRINCIPLES OF FINANCE
Course Code – 203

Objectives -

1. To provide understanding of nature, importance, structure of finance related areas.
2. To impart knowledge regarding sources of finance for a business.

	Contents	No. of lectures
Unit 1	Introduction 1.1 Finance - Definition - Nature and scope of finance function 1.2 Financial Management - Meaning – Approaches :- Traditional , Modern 1.3 Role of finance manager.	4
Unit 2	Sources of Finance 2.1 External: - Shares, Debentures, Public Deposits, Borrowing from banks: - meaning, types, advantages and limitations of these sources. 2.2 Internal: - Reserves and surplus, Bonus shares, Retained earnings, Dividend policy; Meaning, advantages and limitations of these sources.	16
Unit 3	Capital Structure 3.1 Meaning - criteria for determining capital structure. 3.2 Factors affecting capital structure. 3.3 Capitalization:- Meaning , 3.4 Over capitalization and Under Capitalization - meaning, causes, consequences, remedies	14
Unit 4	Financial planning 4.1 Meaning and objectives 4.2 Process 4.3 Methods of forecasting 4.4 Basic considerations 4.5 Limitations.	6
Unit 5	Recent Trends in business finance:- Meaning and nature of- 5.1 Venture Capital 5.2 Leasing 5.3 Microfinance 5.4 Mutual Fund	8
	TOTAL	48

BOOKS RECOMMENDED:

1. P.V. Kulkarni - Financial Management - Himalaya Publishing House, Mumbai.
2. S.C. Kucchal - Corporation Finance - Chaitanya Publishing House, Allahabad.
3. I.M. Pandey - Financial Management - Vikas Publishing House.
4. R.M. Shrivastava - Pragati Prakashan, Meerut.
5. M.Y. Khan and P.K. Jain - Financial Management - Tata - McGraw Hill Publishing co. Ltd., New Delhi.
6. Prasanna Chandra - Financial Management - Tata - McGraw Hill Publishing co. Ltd., New Delhi.



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Semester II

Basics of Cost Accounting Course Code: 204

Objectives:

1. To Impart the Knowledge of Basic cost concepts, element of cost & preparation of Cost Sheet.
2. To provide basic knowledge of important Methods of costing.

	Contents	No. of Lectures
Unit 1:	Introduction 1.1 Concept of Cost, Costing, Cost Accounting & Cost Accountancy 1.2 Limitations of Financial Accounting 1.3 Origin, Objectives and Features of Cost Accounting 1.4 Advantages and Limitations of Cost Accounting 1.5 Difference between Financial and Cost Accounting 1.6 Conceptual analysis of Cost Unit & Cost Centre	8
Unit 2:	Elements of cost and Cost Sheet 2.1 Material, Labour and other Expenses 2.2 Classification of Cost & Types of Costs 2.3 Preparation of Cost Sheet	10
Unit 3:	Overheads 3.1 Meaning and Definitions 3.2 Classification of Overheads 3.3 Collection, allocation, apportionment and reapportionment of overheads 3.4 Under and over absorption – Definition and Reasons	8
Unit 4	Methods of Costing 4.1. Contract Costing – Meaning and features of contract costing, works certified and uncertified, escalation clause, cost plus contract, work in progress, profit on incomplete contract 4.2. Process Costing - Meaning, Features of process costing, preparation of process costing including Normal and Abnormal Loss/Gains 4.3 Service costing – Meaning, Features and application, cost unit – simple and composite, Preparation of cost sheet for transport service	16
Unit 5	Cost Audit: 5.1. Meaning , definition, objectives and scope 5.2 Advantages of Cost Audit 5.3 Difference between Financial and Cost Audit 5.4 Types of Cost Audit	6
	Total	48



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Allocation of Marks:

Theory, - 50%

Practical problems - 50%

Area of Practical problems:

Cost-Sheet

Contract costing


Process costing

Service costing

Books Recommended: -

1. *Advanced cost Accounting by S.P.Jain and Narong.*
2. *Cost Accounting by S.N.Maheshwari*
3. *Cost Accounting by Ratnam.*
4. *Practice in Advanced Costing and Management Accounting by Prof. Subhash Jagtap*
5. *Cost Accounting – Bhatta HSM, Himalaya Publication*
6. *Cost Accounting – Prabhu Dev , Himalaya Publication*
7. *Advanced Cost Accounting – Made Gowda, Himalaya Publication*
8. *Cost Accounting Principles and Practice by M.N.Arora*




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Semester II
Business Statistics


Course code 205

Objectives:

1. To understand the basics of statistics - concept of population and sample & to use frequency distribution to make decision.
2. To understand and to calculate various types of averages and variation.
3. To understand Correlation and use of regression analysis to estimate the relationship between two variables and its applications.
4. To understand the concept - Time Series and its applications in business.
5. To understand the concept - Index numbers and applications in business.
6. To inculcate the research culture among students.

	Contents	No. of Lectures
Unit 1	Population and Sample: 1.1 Definition of Statistics, Scope of Statistics in Economics, Management Sciences and Industry. Concept of population and sample with illustration. 1.2 Methods of Sampling – SRSWR, SRSWOR, Stratified, Systematic. (Description of sampling procedures only). Data Condensation and graphical Methods: Raw data, attributes and variables, classification, frequency distribution, cumulative frequency distributions. 1.3 Graphs - Histogram, Frequency polygon. Diagrams - Multiple bar, Pie, Subdivided bar.	08
Unit 2	Measures of Central Tendency & Dispersion: 2.1 Criteria for good measures of central tendency 2.2 Arithmetic mean, Median and Mode for grouped and ungrouped data, combined mean. 2.3 Concept of dispersion, Absolute and relative measure of dispersion, Range, Variance, Standard deviation, Coefficient of variation, Quartile Deviation, Coefficient of Quartile deviation.	11
Unit 3	Correlation and Regression (for ungrouped data): 3.1 Concept of correlation, positive & negative correlation 3.2 Scatter Diagram, Karl Pearson's Coefficient of correlation 3.3 Meaning of regression, Two regression equations, Regression coefficients and properties (Statements Only).	10
Unit 4	Time Series:	




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	<p>4.1 Definitions and Utility of Time Series Analysis; Components of Time Series: Secular Trend, Seasonal Variation, and Cyclic Variation, Irregular or Erratic Variations.</p> <p>4.2 Measurement of Trend: Freehand or Graphic Method, Method of Semi-averages, Moving Average Method, Method of Least Squares.</p> <p>4.3 Measurement of Seasonal Variations: Method of Seasonal Averages, Ratio – to – trend Method, Moving Average method, Link Relative Method. (Only Application, No Proof required.)</p>	
Unit 5	<p>Index Numbers:</p> <p>5.1 Important definitions of Index Numbers</p> <p>5.2 Characteristics of Index Numbers, Uses of Index Numbers, Types of Index Numbers: Price Index, Quantity Index, Value Index, numerical problems</p> <p>5.3 Problems in the construction of Index Numbers; Methods of constructing Index Numbers. (Only Application, No Proof required.)</p>	05
	Total	48

Recommended Books:

1. S.C. Gupta – Fundamentals of Statistics - Sultan chand & Sons, Delhi.
2. D.N. Elhance – Fundamentals of Statistics – Kitab Mahal, Allahabad.
3. Business Statistics by N. D. Vohra – Tata Mc Graw Hill
4. Fundamentals of Mathematical Statistics by V.K. Kapoor -Sultan Chand & Sons, Delhi.



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Semester II

Business Informatics

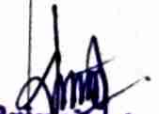
Course Code – 206

Objectives:

1. To know the basics of Computer
2. To understand the basics of networking
3. To know the basics of internet
4. To know the basics of databases

	Contents	No. of Lectures
Unit 1	Introduction to Computers 1.1 Introduction 1.2 Characteristics of Computers 1.3 Block diagram of computer 1.4 Booting Process 1.5 Types of Programming Languages 1.5.1 Machine Languages 1.5.2 Assembly Languages 1.5.3 High Level Languages 1.6 Data Organization 1.6.1 Drives 1.6.2 Files 1.6.3 Directories 1.7 Storage Devices 1.7.1 Primary Memory 1.7.1.1 RAM 1.7.1.2 ROM 1.7.2 Secondary Storage Devices - FD, CD, HDD, Pen drive 1.8 I/O Devices 1.8.1 Monitor and types of monitor 1.8.2 Printer and types of printer 1.8.3 Scanners 1.8.4 Digitizers 1.8.5 Plotters 1.9 Number Systems 1.9.1 Introduction to Binary, Octal, Hexadecimal system 1.9.2 Conversion 1.9.3 Simple Addition, Subtraction, Multiplication, Division	10
Unit 2	Operating System and Services in O.S. 2.1 Definition of operating system 2.2 Services provided by OS 2.3 Types of O.S. 2.4 Features of Windows and Linux 2.5 Files and Directories	8




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	2.6 Internal and External Commands of DOS 2.7 Batch Files	
Unit 3	Editors and Word Processors 3.1 Basic Concepts 3.2 Examples : MS-Word2007 3.3 Introduction to desktop publishing Spreadsheets and Database packages 3.4 Purpose 3.5 MS-Excel2007 3.6 Creation of table in MS-Access2007 3.7 MS –PowerPoint2007	9
Unit 4	Introduction to Networking 4.1 Basics of Computer Networks 4.2 Definition 4.2.1 Goals 4.2.2 Applications 4.2.3 Components 4.3 Topology 4.3.1 Types of Topology 4.4 Types of Networks 4.4.1 (LAN, MAN, WAN) 4.5 Modes of Communication : 4.5.1 (Simplex 4.5.2 Half Duplex 4.5.3 Full Duplex) 4.6 Transmission media 4.6.1 Twisted pair 4.6.2 Coaxial cable 4.6.3 Fiber optic cable 4.7 Protocols and purpose 4.8 Network Connectivity Devices 4.8.1 Hubs 4.8.2 Repeaters 4.8.3 Bridges 4.8.4 Switches 4.8.5 Gateways Internet Basics 4.9 Concept of Internet, Intranet and Extranet 4.10 Web Client 4.11 Web Server 4.12 WWW 4.13 Search Engine 4.14 Internet Service Providers(ISP)	15
Unit 5	Introduction To R.D.B.M.S 5.1 Advantages and Limitations 5.2 Normalization 5.3 Entity Relationships	6



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	5.4 Use Of simple SQL Commands involving both single table and joins.	
	Total	48

Reference Books:

1. Fundamental of Computers – By V. Rajaraman (Prentice Hall)
2. Fundamental of Computers – By P. K. Sinha (B.P.B publication)
3. Computer Applications in Management- By Niranjana Shrivastava (Dreamtech Press)
4. MS- Office 2000(For Windows) – By Steve Sagman
5. Data Communications & Networking- Behrouz Ferouzan (III Edition)



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First Year Bachelor of Business Administration (F.Y. BBA)

Pattern of Question papers (w.e.f. A.Y. 2013-2014)

Following subjects have been identified as theory papers in First Year B.B. A. which will have uniform question paper format as given under:

Semester I:

- 1) 101 - Business Organization and Systems
- 2) 102 - Business Communication Skills
- 3) 104 - Business Economics (Micro)
- 4) 106 - Business Demography and Environmental Studies

Semester II:

- 1) 201 - Principles of Management
- 2) 202 - Principles of Marketing
- 3) 203 - Principles of Finance

Question paper pattern for following Practical Subjects is given separately:

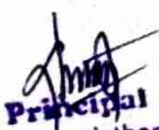
Semester I:

- 1) 103 - Business Accounting
- 2) 105 - Business Mathematics

Semester II:

- 1) 204 - Basics of Cost Accounting
- 2) 205 - Business Statistics
- 3) 206 - Business Informatics




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First Year Bachelor of Business Administration (F.Y. B.B.A.)

Pattern of Question paper of Theory papers

Time: 3 Hours

Total Marks: 80

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Draw neat and well labeled diagrams wherever necessary.

Q.1) Theory question (15)

OR

Theory Question

Q.2) Theory question (15)

OR

Theory Question

Q.3) Theory question (15)

OR

Theory Question


Q.4) Theory question (15)

OR

Theory Question

Q.5) Write Short Notes (Any **four** out of **six**) (20)




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Bachelor of Business Administration (B.B.A.) Semester I

Pattern of Question paper of Business Accounting

Time: 3 Hours

Total Marks: 80

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Use of calculator is allowed.

Q1.	Objective Type Questions (True or False, Fill in the Blanks, Match the pairs)	12
Q2.	Write short notes on (Any three out of five)	12
Q3.	Practical Problem	20
Q4.	Practical Problem	18

OR

	Practical Problem	
Q5.	Practical Problem	18

OR

Practical Problem



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First Year Bachelor of Business Administration (F.Y. B.B.A.)

Pattern of Question paper of Business Mathematics and Business Statistics

Time: 3 Hours

Total Marks: 80

Instructions:

1. All questions are compulsory.
2. All questions carry equal marks.
3. Use of simple electronic calculator is allowed.

Q.1) Answer the following (any four out of six)

Q.2) Answer the following (any four out of six)

Q.3) Answer the following (any four out of six)

Q.4) Answer the following (any four out of six)

Q.5) Answer the following (any two out of six)



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Bachelor of Business Administration (B.B.A.) Semester II

Pattern of Question paper of Basics of Cost Accounting

Time: 3 Hours


Total Marks: 80

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Use of calculator is allowed.

Q1.	Objective Type Questions (True or False, Fill in the Blanks, Match the pairs)	10
Q2.	Theory Question OR Theory Question	15
Q3.	Write short notes on (Any three out of five)	15
Q4.	Practical Problem	16
Q5.	a) Practical Problem b) Practical Problem OR Practical Problem	12 12




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Bachelor of Business Administration (B.B.A.) Semester II

Pattern of Question paper of Business Informatics

Time: 3 Hours

Total Marks: 80

Instructions:

1. All questions are compulsory.
2. All questions carry equal marks.
3. Use of calculator is allowed.

Q.1) Answer the following (any eight out of ten) Small Answer questions

Q.2) Attempt any four out of five Questions

Q.3) Attempt any four out of five Questions

Q.4) Attempt any four out of five Questions

Q.5) Attempt any two out of three Questions



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Syllabus for S.Y.B.Sc.(Computer Science) to be implemented from 2014-15

Important to Note about Laboratory courses: It is absolutely necessary and essential that all the practical's for Paper III and Paper IV be conducted on Free and Open Source Operating System like Linux.

- All the practical's related to C and C++ needs to be conducted using GCC compiler.
- For laboratory work/assignments of Database Systems, PostgreSQL to be used.



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1) Title of the Course : B. Sc. Computer Science

S.Y.B.Sc. Computer Science Syllabus (To be implemented from Academic Year 2014-15)

2) Preamble:

B. Sc.* Computer Science is a systematically designed three year course that prepares the student for a career in Software Industry. The syllabus of computer Science subject along with that of the three allied subjects (Mathematics, Electronics and Statistics) forms the required basics for pursuing higher studies in Computer Science. The Syllabus also develops requisite professional skills and problem solving abilities for pursuing a career in Software Industry.

3) Introduction:

At **first year of under-graduation** basic foundation of two important skills required for software development is laid. A course in programming and a course in database fundamentals forms the preliminary skill set for solving computational problems. Simultaneously two practical courses are designed to supplement the theoretical training. The second practical course also includes a preliminary preparation for website designing in the form of HTML programming.

Alongwith Computer Science two theory and one practical course each in Statistics, Mathematics and Electronics help in building a strong foundation.

At **second year under-graduation**: The programming skills are further strengthened by a course in Data structures and Object oriented programming. The advanced topics in Databases and preliminary software engineering form the second course. Two practical courses alongside help in hands-on training. Students also undertake a mini project using software engineering principles to solve a real world problem.

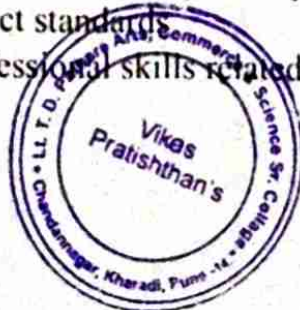
Simultaneously two theory and one practical course each in Mathematics and Electronics help in strengthening problem solving abilities.

At **third year under-graduation**: Six theory papers in each semester and practical courses cover the entire spectrum of topics necessary to build knowledge base and requisite skill set. Third practical course also includes project work which gives students hands on experience in solving a real world problem.

Objectives:

- To develop problem solving abilities using a computer
- To build the necessary skill set and analytical abilities for developing computer based solutions for real life problems.
- To imbibe quality software development practices. To create awareness about process and product standards.
- To train students in professional skills related to Software Industry.

S.Y.B.Sc.(Computer Science)



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- To prepare necessary knowledge base for research and development in Computer Science
- To help students build-up a successful career in Computer Science

4) Eligibility:

Higher Secondary School Certificate (10+2) Science stream or its equivalent Examination as per the University of Pune eligibility norms.

Note: Admissions will be given as per the selection procedure / policies adopted by the respective college, in accordance with conditions laid down by the University of Pune. Reservation and relaxation will be as per the Government rules.

5 A) Examination Pattern:

First Year B. Sc. Computer Science

Subject: Computer Science

Pattern of Examination: Annual

Theory courses (CS-101): Annual

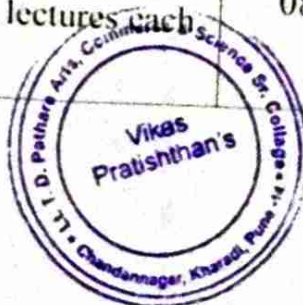
(CS-102): Annual

Practical Course (CS-103): Annual

(CS-104): Annual

Paper/ Course No.	Title	Total Number of lectures/practical's per Term	Standard of passing		
			Internal marks out of 20	External marks out of 80	Total marks out of 100
Computer Science Paper I (CS-101)	Problem Solving Using Computers and 'C' Programmi ng	Three lectures/Week (Total 80 lectures)	08	32	40 *
Computer Science Paper II (CS-102)	File Organizatio n and Fundament al of Databases	Three lectures/Week (Total 80 lectures)	08	32	40 *
Computer Science Practical Paper I (CS-103)	Computer Science Practical Paper I	25 Practical slots of 4 lectures each	08	32	40 *

S.Y.B.Sc.(Computer Science)



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Computer Science Practical Paper II (CS-104)	Computer Science Practical Paper II	25 Practical slots of 4 lectures each	08	32	40 *
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* Subject to compulsory passing in external examination and getting minimum 40 marks out of 100

Notes:

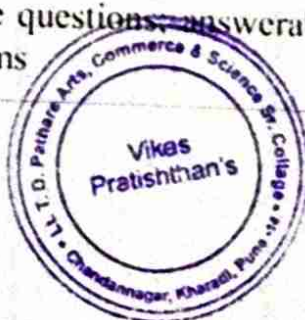
1. Total marks: Theory (100 + 100) = 200 marks
2. Total marks per year 200 (Theory) + 100 marks (practical)+ Grade(practical) = 300 marks +Grade
3. Internal marks for theory papers given on the basis of internal assessment tests and for practicals on continuous assessment of lab work.
4. In case of Computer Science Practical Paper II, marks out of 100 will be converted to grades

Marks	Grade
75 and above	O
65 and above	A
55 and above	B
50 and above	C
45 and above	D
40 and above	E
Below 40 (indicates Failure)	F

Theory examination will be of three hours duration for each theory course. There shall be 5 questions each carrying equal marks. The pattern of question papers shall be:

Question 1.	8 sub-questions, each of 2 marks; answerable in 2 -3 lines and based on entire syllabus
Question 2, 3 ,4 and 5	4 out of 5/6- short answer type questions, answerable in 8 - 10 lines ; mix of theory and problems

S.Y.B.Sc.(Computer Science)



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Internal examination: Internal assessment of the student by respective teacher will be based on written test, 10 marks each term. The written test shall comprise of objective type questions – Multiple Type Questions, True / False, Definitions, Answer in Two or three line question (Describe/Explain). There shall be 20 questions.

Practical: Continuous assessment of Lab work and mini project.

Practical Examination: Practical examination shall be conducted by the respective college at the end of the academic year. Practical examination will be of 3 hours duration for each practical course. Certified journal is compulsory to appear for practical examination. There shall be two expert and two examiners per batch for the practical examination.

Second Year B. Sc. Computer Science

No	Paper	Title: Semester I	Title: Semester II
1	Computer Science Paper I	CS-211: Data Structures using 'C'	CS-221: Object Oriented Concepts using C++
2	Computer Science Paper II	CS-212: Relational Database Management System	CS-222: Software Engineering
3	Computer Science Paper III	CS-223: Data structures Practicals and C++ Practicals	
4	Computer Science Paper IV	CS-224: Database Practicals & Mini Project using Software Engineering techniques	
5	Mathematics Paper I	MT-211: Mathematics Paper I- Sem I	MT-221: Mathematics Paper I- Sem II
6	Mathematics Paper II	MT-212: Mathematics Paper II- Sem I	MT-222: Mathematics Paper II- Sem II
7	Mathematics Paper III	MT-223: Practical Course in Mathematics	
8	Electronics Paper I	EL-211: Electronics Paper I- Sem I	EL-221: Electronics Paper I- Sem II
9	Electronics Paper II	EL-212: Electronics Paper II- Sem I	EL-222: Electronics Paper II- Sem II
10	Electronics Paper III	EL-223: Practical Course in Electronics	
11	English	EN-211: Technical English- Sem I	EN-221: Technical English- Sem II

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Pattern of examination: Semester

Theory courses (Sem I: CS-211 and CS212): Semester
(Sem II: CS-221 and CS-222): Semester
Practical Course (CS-223 and CS-224): Annual

Paper/ Course No.	Title	Total Number of lectures/practicals Per Semester	Standard of passing		
			Internal marks out of 10 (theory) Out of 20 (practicals)	External marks out of 40 (theory) Out of 80 (practicals)	Total passing marks out of 50 (theory) and out of 100 (practicals)
Theory Paper I (CS- 211)	Data Structures using 'C'	Four lectures/Week (Total 48 per Semester)	04	16	20 *
Theory Paper II (CS 212)	Relational Database Management System	Four lectures/Week (Total 48 per Semester)	04	16	20 *
Theory Paper I (CS 221)	Object Oriented Concepts using C++	Four lectures/Week (Total 48 per Semester)	04	16	20 *
Theory Paper II (CS 222)	Software Engineering	Four lectures/Week (Total 48 per Semester)	04	16	20 *
Practical paper I (CS 223) (First & Second Sem)	Data structures Practicals and C++ Practicals	Practicals of 4 lectures each 25 practicals/Yr.)	08	32	40 **
Practical paper II (CS 223) (First & Second Semester)	Database Practicals & Mini Project using Software Engineering techniques	Practicals of 4 lectures each 25 practicals/ Yr.)	08	32	40 **

* Subject to compulsory passing in external examination and getting minimum 20 marks out of 50

** Subject to compulsory passing in external examination and getting minimum 40 marks out of 100

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Notes:

1. Total marks: Theory for each semester (50 + 50) = 100 marks
2. Total marks per year 200 (Theory) + 100 marks (practicals) + Grade(practical) = 300 marks + Grade
3. Internal marks for theory papers given on the basis of Continuous internal assessment

Theory examination will be of two hours duration for each theory course. There shall be 4 questions carrying equal marks. The pattern of question papers shall be:

Question 1	10 questions, each of 1 marks	10 marks
Question 2 3	Sub-questions carrying 5 marks (2 out of 3)	10 marks each
Question 4	Sub-questions carrying marks depending on their complexity with options	10 marks

Internal examination: Internal assessment of the student by respective teacher will be based on written test, 10 marks each Semester. The written test shall comprise of objective type questions – Multiple Type Questions, True / False, Definitions, Answer in Two or three line question (Describe/Explain) There shall be 20 questions.

Practicals: Continuous assessment of practical performance

Practical Examination: Practical examination shall be conducted at the respective college at the end of the academic year. Practical examination will be of 3 hours duration. Certified journal is compulsory to appear for practical examination. There shall be one expert and two examiners per batch for the practical examination. One of the examiners will be external.

Third Year B. Sc. Computer Science

No	Paper	Title: Semester I	Title: Semester II
1	Computer Science Paper I	CS-331: System Programming	CS-341: Operating System
2	Computer Science Paper II	CS-332: Theoretical Computer Science	CS-342: Compiler Construction
3	Computer Science Paper III	CS-333: Computer Networks-I	CS-343: Computer Networks-II
4	Computer Science Paper IV	CS-334: Internet Programming	CS-344: Internet Programming- II
5	Computer Science Paper V	CS-335: Programming in Java-I	CS-345: Programming in Java-II

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6	Computer Science Paper VI	CS-336: Object Oriented Software Engineering	CS-346: Computer Graphics
7	Computer Science Paper VII	CS-347: Practicals Based on CS-331 and CS-341	Sem I & Sem II
8	Computer Science Paper VIII	CS-348: Practicals Based on CS-335 and CS-344	Sem I & Sem II and Computer Graphics using Java
9	Computer Science Paper IX	CS-349: Practicals Based on CS-334 and CS-344	Sem I & Sem II and Project

Subject: Computer Science

Pattern of examination: Semester

Theory courses:


(Sem III: CS-331-CS-336): Semester (Sem IV: CS-341-CS-346): Semester


Practical Course:

(CS-347-CS-349): Annual

(CS-347-CS-349): Annual

Theory Papers					
Paper/Course No.	Title	Total Number of lectures Per Semester	Standard of passing		
			Internal marks out of 10 (theory) Out of 20 (practicals)	External marks out of 40 (theory) Out of 80 (practicals)	Total passing marks out of 50 (theory) and out of 100 (practicals)
SEM III					
CS-331	System Programming	48	4	16	20*
CS-332	Theoretical Computer Science	48	4	16	20*
CS-333	Computer Networks-I	48	4	16	20*
CS-334	Internet Programming- I	48	4	16	20*
CS-335	Programming in Java-I	48	4	16	20*
CS-336	Object Oriented Software Engineering	48	4	16	20*
SEM IV					

The logo of the University of Peshawar is a circular emblem. It features a central design surrounded by the text "UNIVERSITY OF PESHAWAR" in an arc at the top and "Peshawar Arts, Commerce & Sciences" in an arc at the bottom.

A handwritten signature in black ink, located at the bottom right of the page.

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CS-341	Operating System	48	4	16	20*
CS-342	Compiler Construction	48	4	16	20*
CS-343	Computer Networks-II	48	4	16	20*
CS-344	Internet Programming-I	48	4	16	20*
CS-345	Programming in Java-I	48	4	16	20*
CS-346	Computer Graphics	48	4	16	20*
Practical Papers					
CS 347 (Semester III & IV)	Practicals Based on CS-331 and CS-341 – Sem I & Sem II	25 practicals/year	08	32	40 **
CS 348 (Semester III & IV)	CS-348:Practicals Based on CS-335 and CS-344 – Sem I & Sem II and Computer Graphics using Java	25 practicals/year	08	32	40 **
CS 349 (Semester III & IV)	CS-349:Practicals Based on CS-334 and CS-344 – Sem I & Sem II and Project	25 practicals/year	08	32	40 **

* Subject to compulsory passing in external examination and getting minimum 20 marks out of 50

** Subject to compulsory passing in external examination and getting minimum 40 marks out of 100

S.Y.B.Sc.(Computer Science)



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Notes:

1. Total marks: Theory for each semester $(50 \times 6) = 300$ marks
2. Total marks per year 600 (Theory) + 300 marks (practicals) = 900 marks
3. Internal marks for theory papers given on the basis of continuous internal assessment

Theory examination will be of two hours duration for each theory course. There shall be 4 questions carrying equal marks. The pattern of question papers shall be:

Question 1	10 questions, each of 1 marks	10 marks
Question 2 and 3	Sub-questions carrying 5 marks (2 out of 3)	10 marks each
Question 4	Sub-questions carrying marks depending on their complexity with options	10 marks

Internal examination: Internal assessment of the student by respective teacher will be based on written test, 10 marks each Semester. The written test shall comprise of objective type questions – Multiple Type Questions, True / False, Definitions, Answer in Two or three line question (Describe/Explain) There shall be 20 questions.

Practicals: one internal assessment test + practical journals + attendance + activity.

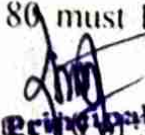
Practical Examination: Practical examination shall be conducted at the respective college at the end of the academic year. Practical examination will be of 3 hours duration. Certified journal is compulsory to appear for practical examination. There shall be one expert and two examiners per batch for the practical examination. One of the examiners will be external.

5 B) Standard of Passing:

- i. In order to pass in the first year theory examination, the candidate has to obtain 40 marks out of 100 in each course. (Minimum 32 marks out of 80 must be obtained in the University Theory Examination.)
- ii. In order to pass in the Second Year and Third Year theory examination, the candidate has to obtain 20 marks out of 50 in each course of each semester. (Minimum 16 marks out of 40 must be obtained in the University Theory Examination.)
- iii. In order to pass in practical examination, the candidate has to obtain 40 marks out of 100 in each course. (Minimum 32 marks out of 80 must be obtained in the University Examination.)

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5 C) ATKT Rules:

While going from F.Y.B.Sc. to S.Y.B.Sc. at least 8 courses (out of total 13) should be passed; however all F.Y.B.Sc. courses should be passed while going to T.Y.B.Sc.

While going from S.Y.B.Sc. to T.Y.B.Sc., at least 12 courses (out of 22) should be passed (Practical Course at S.Y.B.Sc. will be equivalent to 2 courses).

5 D) Award of Class:

The class will be awarded to the student on the aggregate marks obtained during the second and third year in the principal subject only. The award of the class shall be as follows:

1	Aggregate 70% and above	First Class with Distinction First Class
2	Aggregate 60% and more but less than 70%	
3	Aggregate 55% and more but less than 60%	Higher Second Class
4	Aggregate 50% and more but less than 55%	Second Class
5	Aggregate 40% and more but less than 50%	Pass Class
6	Below 40%	Fail

5 E) External Students: There shall be no external students.

5 F) Setting question papers:

F.Y.B.Sc.: For theory papers I and II annual question papers shall be set by the University of Pune and assessment done at the respective colleges. Questions should be designed to test the conceptual knowledge and understanding of the basic concepts of the subject. For Practical Papers, the Question paper slips will be provided by the University of Pune and assessment done at the respective colleges.

S.Y.B.Sc. and T.Y.B.Sc.: For theory papers I and II for each semester and also for the annual practical examination question papers set by the University of Pune. Centralized assessment for theory papers done as per the University instructions. Questions should be designed to test the conceptual knowledge and understanding of the basic concepts of the subject. For Practical Papers: Papers shall be set by the University of Pune and assessment done by the internal examiner and external examiner appointed by University of Pune.

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5G) Verification and Revaluation Rules:

As per university Statutes and rules for verification and revaluation of marks in stipulated time after declaration of the semester examination result.

6) Course Structure:

Duration: The duration of B.Sc. Computer Science Degree Program shall be three years.

a) All are Compulsory Papers:

F.Y.B.Sc. : 2 Theory + 2 Practical (Annual)

S.Y.B.Sc.: 2 Theory per semester + 2 Practical (Annual)

T.Y.B.Sc.: 6 Theory per semester + 3 Practical (Annual)

b) Question Papers :

F.Y.B.Sc.Theory paper:

University Examination - 80 marks (at the end of 2nd term)

Internal Examination - 20 marks

S.Y / T.Y. - B.Sc.Theory paper:

University Examination - 40 marks (at the end of each term)

Internal Examination - 10 marks

F.Y. / S.Y / T.Y. - B.Sc.Practical Paper:

University Examination - 80 marks (at the end of 2nd term)

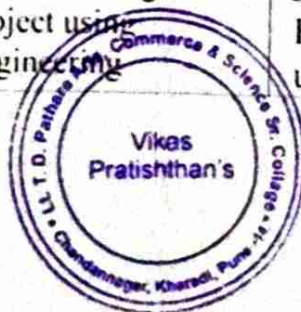
Internal Examination - 20 marks

c) Medium of Instruction: The medium of instruction for the course shall be English.

7) Equivalence of Previous Syllabus:

Semester & Paper	Title of Paper (Old Pattern)(Implemented from the academic year 2009-10)	Title of Paper (New Pattern)(to be implemented from the academic year 2014-15)
Semester-I, Paper-I	CS-211, Data Structures Using C	CS-211 Data Structures using 'C'
Semester-I, Paper-II	CS- 212, Relational Database Management System	CS-212 Relational Database Management System
Semester-II, Paper-I	CS-221, Object Oriented Concepts and Programming in C++	CS-221 Object Oriented Concepts using C++
Semester-II, Paper-II	CS-222, Software Engineering	CS-222 Software Engineering
Practical paper II (CS 223) (First & Second	CS-224: Database Assignments and Mini Project using Software Engineering	CS-224: Database Practicals & Mini Project using Software Engineering

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Semester)	Techniques	Engineering techniques
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8) University Terms: Dates for commencement and conclusion for the first and second terms will be declared by the University authorities. Terms can be kept by only duly admitted students. The term shall be granted only on minimum 75 percent attendance at theory and practical course and satisfactory performance during the term.

9) Qualification of Teachers: M.Sc. Computer Science/M.C.A. or equivalent master degree in science with class/grades and NET/SET as per prevailing University/Government /UGC rules.

10) Detail Syllabus with Recommended Books:

S.Y.B.Sc. Computer Science Paper I

CS-211: Data Structures using 'C'

CS-221: Object Oriented Concepts using C++

S.Y.B.Sc. Computer Science Paper II

CS-212: Relational Database Management System

CS-222: Software Engineering

S.Y.B.Sc. Computer Science Paper III


CS-223: Data structures Practicals and C++ Practicals

S.Y.B.Sc. Computer Science Paper IV

CS-224: Database Practicals & Mini Project using Software Engineering techniques

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S.Y.B.Sc. Computer Science Theory Paper I
Semester – I
CS 211- DATA STRUCTURES USING 'C'
(Compulsory Course)

Total Lectures: 48

Objective:

1. To learn the systematic way of solving problem
2. To understand the different methods of organizing large amount of data
3. To efficiently implement the different data structures
4. To efficiently implement solutions for specific problems

Prerequisites: Knowledge of C Programming Language

1. Introduction to data structures [3]

- 1.1 Concept
- 1.2 Data type, Data object, ADT
 - 1.2.1 Data Type
 - 1.2.2 Data Object
 - 1.2.3 ADT -Definition, Operation, examples on rational number
- 1.3 Need of Data Structure
- 1.4 Types of Data Structure

2. Algorithm analysis [2]

- 2.1 Algorithm – definition, characteristics
- 2.2 Space complexity, time complexity
- 2.3 Asymptotic notation (Big O, Omega Ω)

3. Linear data structures [6]

- 3.1 Introduction to Arrays - array representation
- 3.2 Sorting algorithms with efficiency
 - Bubble sort, Insertion sort, Merge sort, Quick Sort
- 3.3 Searching techniques –Linear Search, Binary search

4. Linked List [8]

- 4.1 Introduction to Linked List
- 4.2 Implementation of Linked List – Static & Dynamic representation.
- 4.3 Types of Linked List
- 4.4 Operations on Linked List
 - create, display, insert, delete, reverse search, sort, concatenate & merge
- 4.5 Applications of Linked List – polynomial manipulation
- 4.6 Generalized linked list – Concept and Representation

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5. Stacks [6]

- 5.1 Introduction
- 5.2 Representation- Static & Dynamic
- 5.3 Operations
- 5.4 Application - infix to postfix, infix to prefix, postfix evaluation.
- 5.5 Simulating recursion using stack

6. Queues [4]

- 6.1 Introduction
- 6.2 Representation - Static & Dynamic
- 6.3 Operations
- 6.4 Circular queue, priority queue (with implementation)
- 6.5 Concept of doubly ended queue

7. Trees [12]

- 7.1 Concept & Terminologies
- 7.2 Binary tree, binary search tree
- 7.3 Representation – Static and Dynamic
- 7.4 Operations on BST – create, Insert, delete, traversals (preorder, inorder, postorder), counting leaf, non-leaf & total nodes , non recursive inorder traversal
- 7.5 Application - Heap sort
- 7.6 Height balanced tree- AVL trees- Rotations, AVL tree examples.

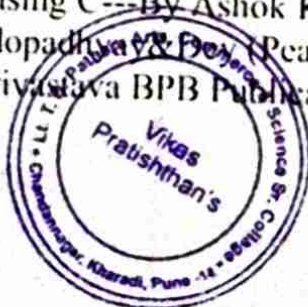
8. Graph [7]

- 8.1 Concept & terminologies
- 8.2 Graph Representation – Adjacency matrix, adjacency list, inverse Adjacency list, adjacency multilist, orthogonal list
- 8.3 Traversals – BFS and DFS
- 8.4 Applications – AOV network – topological sort, AOE network – critical path

References:

1. Fundamentals of Data Structures ---- By Horowitz Sahani (Galgotia)
2. Data Structures using C and C++ --- By Yedidyah Langsam, Aaron M. Tenenbaum, Moshe J. Augenstein
3. Introduction to Data Structures using C --- By Ashok Kamthane
4. Data Structures using C --- Bandopadhyay & Roy (Pearson)
5. Data Structures using C --- By Srivastava BPB Publication.

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University of Pune

STATISTICS

For First Year B. Sc. (Computer Science) Degree Course

(Formerly known as B. C. S. Course)

Syllabus

(To be implemented from Academic Year 2013-14)

Submitted by: Board of Studies, Statistics

1) Title of the Course: First Year B. Sc. (Computer Science)

2) Preamble: Statistics is a branch of science that can be applied practically in every walk of life. Statistics deals with any decision making activity in which there is certain degree of uncertainty and Statistics helps in taking decisions in an objective and rational way. The student of Statistics can study it purely theoretically which is usually done in research activity or it can be studied as a systematic collection of tools and techniques to be applied in solving a problem in real life.

In last 5 to 7 years, computers are playing very crucial role in the society. The use of computers has horizontally spread and also penetrated vertically in the society. It has become a part and parcel of common man. Thus there is a huge demand for computer education.

The University of Pune had done a pioneering work in this area and Three year degree course B. Sc. (Computer Science) of University of Pune (formerly known as B.C.S.) is very popular among the student community and I. T. Industry. This course covers various subjects which are required directly or indirectly for becoming computer professional. Statistics is one such important subject which is required and is extensively used in a vast spectrum of computer based applications. Data Mining and Warehousing, Theoretical Computer Science, Reliability of a computer Programme or Software, Machine Learning, Artificial Intelligence, Pattern Recognition, Digital Image Processing, Embedded Systems are just few applications to name where Statistics can be extensively used.

3) Introduction: The syllabus of Statistics for First Year of this course covers basic concepts and terminology in Statistics and covers basic tools and methods required for data analysis. The teachers teaching this syllabus and students should give emphasis on understanding the concepts and ability to apply statistical tools and techniques and not on the theoretical discussion. It is



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expected that at the end of the course, a student should be well equipped to learn and apply acquired techniques in computer based applications.

4) Eligibility: 12th Science with Mathematics

Students admitted to F.Y.B.Sc.(C.S.) will be taking this as one of the compulsory course. Admissions to F.Y.B.Sc.(C.S.) will be given as per the selection procedure / policies adopted by the respective college keeping in accordance with conditions laid down by the University of Pune. Reservation and relaxation will be as per the Government rules.

5) Examination:

A) Pattern of examination and of question paper:

For Theory Papers (For Paper I and II):

Internal examination - 20 marks (10 marks for each semester)

Objective type/ short answer questions with maximum 2 marks for each question.

University Examination - 80 marks at the end of the year.

5 questions carrying 16 marks each.

Q1: Attempt all of the following: (2 marks each) (8 sub questions)

Q2, Q3, Q4, Q5: Attempt any four of the following (4 marks each) (any 4 out of 5 or out of 6)

For Practical paper in Statistics (Paper III):

Internal Evaluation of 20 marks -

(i) Statistics Journal & Attendance - 10 marks

(ii) Project Evaluation - 5 marks

(iii) Viva - 5 marks

External Examination of 80 marks - Total Duration 3 hours

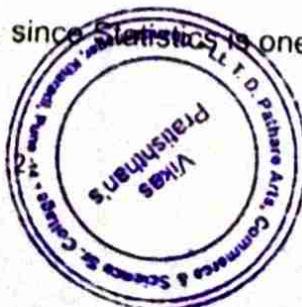
(i) Questions based upon spreadsheet - 3 questions (1 question on diagrams) each of 10 marks should be asked. Total Duration - 1 hour, Total marks - 30.

(ii) Questions to be solved manually using scientific calculator - to solve any two questions out of 3 questions of 25 marks each. Total Duration - 2 hours, Total marks - 50.

B) Standard of Passing: In order to pass in the first year theory and practical examination, the candidate has to obtain 40 marks out of 100 in each course. (Minimum 32 marks must be obtained in the University Theory Examination.)

C) ATKT Rules: Not applicable, since Statistics is one of the compulsory courses taken at F.Y. level.

D) Award of Class: Not applicable, since Statistics is one of the compulsory courses taken at F.Y. level.



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E) **External Students:** There shall be no external students.

F) **Pattern of question paper:** As specified in A)

G) **Verification/Revaluation:** As per the University rules

6) Structure of the Course:

F. Y. B. Sc.(C.S.) Statistics

Paper	Course Title	Marks	Lectures
Paper - I	Statistical Methods I	100	Three Hours/Week per Paper (Total 36/Paper per term)
Paper - II	Statistical Methods II	100	
Practical Course	Practical Course	100	Three Hours / Week

Medium of Instruction: The medium of instruction for the course shall be English

7) **Equivalence of Previous Syllabus:** No equivalence required at F. Y. B. Sc. level, the course titles are same as previous syllabus.

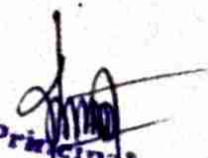
8) **University Terms:** Dates for commencement and conclusion for the first and second terms will be declared by the University authorities. Terms can be kept by only duly admitted students. The term shall be granted only on minimum 75 percent attendance at theory and practical course and satisfactory performance during the term.

9) Course wise Detail Syllabus

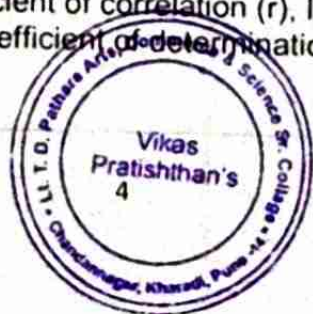
Detailed Syllabus for Statistics Paper I (Statistical Methods I)

1.	Data condensation and Graphical methods	
	1.1 Raw data, attributes and variables, discrete and continuous variables.	
	1.2 Presentation of data using frequency distribution and cumulative frequency distribution. (Construction of frequency is not expected)	
	1.3 Graphical Presentation of frequency distribution – histogram, stem and leaf chart, less than and more than type ogive curves.	
	1.4 Numerical problems related to real life situations.	5




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2.	<p>Review/Revision of Descriptive Statistics</p> <p>2.1 Measures of Central tendency: Mean, Mode, Median. Examples where each one of these is most appropriate.</p> <p>2.2 Partition values: Quartiles, Box-Plot.</p> <p>2.3 Measures of Dispersion: Variance, Standard Deviation, Coefficient of Variation.</p> <p>(Section 2.1 to 2.3 should be covered for raw data, ungrouped frequency distribution and exclusive type grouped frequency distribution)</p>	7
3.	<p>Moments</p> <p>3.1 Raw and Central moments: definition, computations for ungrouped and grouped data (only up to first four moments).</p> <p>3.2 Relation between raw and central moments upto fourth order.</p> <p>3.3 Numerical problems related to real life situations.</p>	3
4.	<p>Measures of Skewness and Kurtosis</p> <p>4.1 Concept of symmetric frequency distribution, skewness, positive and negative skewness.</p> <p>4.2 Measures of skewness-Pearson's measure, Bowley's measure, β_1, γ_1.</p> <p>4.3 Kurtosis of a frequency distribution, measure of kurtosis(β_2, γ_2) based upon moments, type of kurtosis: leptokurtic, platykurtic and mesokurtic.</p> <p>4.5 Numerical problems related to real life situations.</p>	4
5.	<p>Discrete Random variable</p> <p>5.1 Definition of random variable and discrete random variable.</p> <p>5.2 Definition of probability mass function, distribution function and its properties.</p> <p>5.3 Definition of expectation and variance, theorem on expectation.</p> <p>5.4 Determination of median and mode using p.m.f.</p> <p>5.5 Numerical problems related to real life situations.</p>	8
6.	<p>Standard Discrete Distributions</p> <p>6.1 Discrete Uniform Distribution: definition, mean, variance.</p> <p>6.2 Bernoulli Distribution: definition, mean, variance, additive property.</p> <p>6.3 Binomial Distribution: definition, mean, variance, additive property.</p> <p>6.4 Geometric Distribution (p.m.f $p(x) = pq^x$, $x = 0, 1, 2, \dots$): definition, mean, variance.</p> <p>6.5 Poisson Distribution: definition, mean, variance, mode, additive property, limiting case of $B(n, p)$</p> <p>6.6 Illustration of real life situations.</p> <p>6.7 Numerical problems related to real life situations.</p>	15
7.	<p>Correlation (for bivariate raw data)</p> <p>7.1 Bivariate data, Scatter diagram.</p> <p>7.2 Correlation, Positive Correlation, Negative Correlation, Zero Correlation</p> <p>7.3 Karl Pearson's coefficient of correlation (r), limits of r ($-1 \leq r \leq 1$), interpretation of r, Coefficient of determination (r^2), Auto-correlation upto lags 2.</p> <p>7.4 Numerical Problems.</p>	6

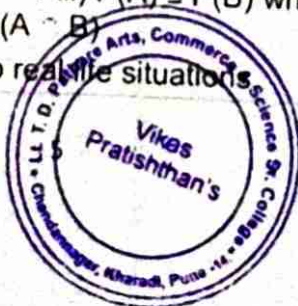


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8	<p>Regression (for ungrouped data)</p> <p>8.1 Regression: illustrations, appropriate situations for regression and correlation.</p> <p>8.2 Linear Regression.</p> <p>8.3 Fitting of straight line using least square method.</p> <p>8.4 Properties of regression coefficients: $b_{xy} \cdot b_{yx} = r^2$, $b_{yx} \cdot b_{xy} < 1$, $b_{yx} = r(\sigma_y/\sigma_x)$ and $b_{xy} = r(\sigma_x/\sigma_y)$</p> <p>8.5 Non Linear regression models: second degree curve, growth curve models.</p> <p>i) $Y = ae^{bx}$ ii) $Y = ab^x$ iii) $Y = aX^b$</p> <p>iv) logistic model $Y = k / (1 + e^{a-bx})$</p> <p>8.6 Residual plot, mean residual sum of squares (m. s. s)</p> <p>8.7 Numerical problems related to real life situations.</p>	9
9	<p>Multiple and Partial Correlation and Regression (for trivariate data)</p> <p>9.1 Yule's notation and concept of multiple regression.</p> <p>9.2 Fitting of multiple regression plane.</p> <p>9.3 Partial regression coefficient, interpretation.</p> <p>9.4 Multiple correlation coefficient, concept, definition, computation and interpretation.</p> <p>9.5 Partial correlation coefficient, concept, definition, computation and interpretation.</p>	8
10	<p>Time Series</p> <p>10.1 Meaning and Utility.</p> <p>10.2 Components of Time Series.</p> <p>10.3 Additive and Multiplicative models.</p> <p>10.4 Methods of estimating trend: moving average method, least squares method and exponential smoothing method.</p> <p>10.5 Elimination of trend using additive and multiplicative models.</p> <p>10.6 Simple time series models: AR (1), AR (2).</p> <p>10.7 Numerical problems related to real life situations.</p>	7
Syllabus for 1 st term is upto Binomial Distribution in Topic 6.		

Detailed Syllabus for Statistics Paper II (Statistical Methods II)

1	<p>Detailed Review / Revision of Theory of Probability</p> <p>1.1 Counting Principles, Permutation, and Combination.</p> <p>1.2 Deterministic and non-determination models.</p> <p>1.3 Random Experiment, Sample Spaces (finite and countably infinite)</p> <p>1.4 Events: types of events, Operations on events.</p> <p>1.5 Probability - classical definition, probability models, axioms of probability, probability of an event.</p> <p>1.6 Theorems of probability (with proof)</p> <p>i) $0 \leq P(A) \leq 1$ ii) $P(A) + P(A^c) = 1$ iii) $P(A) \leq P(B)$ when $A \subset B$</p> <p>iv) $P(A \cup B) = P(A) + P(B) - P(A \cap B)$</p> <p>1.7 Numerical problems related to real life situations.</p>	5
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2	<p>Advanced Theory of Probability</p> <p>2.1 Concepts and definitions of conditional probability, multiplication theorem $P(A \cap B) = P(A) \cdot P(B A)$</p> <p>2.2 Bayes' theorem (without proof)</p> <p>2.3 Concept of Posterior probability, problems on posterior probability.</p> <p>2.4 Definition of sensitivity of a procedure, specificity of a procedure. Application of Bayes' theorem to design a procedure for false positive and false negative.</p> <p>2.5 Concept and definition of independence of two events.</p> <p>2.6 Numerical problems related to real life situations.</p>	12
3	<p>Continuous Random Variable</p> <p>3.1 Definition of continuous random variable (r. v.).</p> <p>3.2 Probability density function (p.d.f.),</p> <p>3.3 Cumulative distribution function (c.d.f.), its properties.</p> <p>3.4 Calculation of mean, mode, median, variance, standard deviation for continuous r. v.</p> <p>3.5 Numerical problems related to real life situations.</p>	6
4	<p>Standard Continuous Probability Distributions</p> <p>4.1 Uniform Distribution: statement of p.d.f., mean, variance, nature of probability curve.</p> <p>4.2 Exponential Distribution: statement of p.d.f. of the form, $f(x) = (1/\theta) e^{(-x/\theta)}$, mean, variance, nature of probability curve, lack of memory property.</p> <p>4.3 Normal Distribution: statement of p.d.f., identification of parameters, nature of probability density curve, standard normal distribution, symmetry, distribution of $aX+b$, $aX+bY+c$ where X and Y are independent normal variables, computations of probabilities using normal probability table, normal approximation to binomial and Poisson distribution, central limit theorem (statement only), normal probability plot.</p> <p>4.4 Pareto Distribution: p.d.f. of the form $f(x) = \frac{\alpha}{x^{\alpha+1}}$, $x \geq 1, \alpha > 0$, mean, variance, applications.</p> <p>4.5 Numerical problems related to real life situations.</p>	13
	End of First term.	
5	<p>Concepts and definitions related to testing of hypothesis</p> <p>5.1 Definitions: population, statistic, SRSWR, SRSWOR, random sample from a probability distribution, parameter, statistic, standard error of estimator.</p> <p>5.2 Concept of null hypothesis and alternative hypothesis, critical region, level of significance, type I and type II error, one sided and two sided tests, p-value.</p>	5



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6	<p>Large Sample Tests</p> <p>6.1 $H_0: \mu = \mu_0$ Vs $H_1: \mu \neq \mu_0, \mu < \mu_0, \mu > \mu_0$ (One sided and two sided tests)</p> <p>6.2 $H_0: \mu_1 = \mu_2$ Vs $H_1: \mu_1 \neq \mu_2, \mu_1 < \mu_2, \mu_1 > \mu_2$ (One sided and two sided tests)</p> <p>6.3 $H_0: P = P_0$ Vs $H_1: P \neq P_0, P < P_0, P > P_0$ (One sided and two sided tests)</p> <p>6.4 $H_0: P_1 = P_2$ Vs $H_1: P_1 \neq P_2, P_1 < P_2, P_1 > P_2$ (One sided and two sided tests)</p> <p>6.5 Numerical problems related to real life situations.</p>	7
7	<p>Tests based on t-distribution</p> <p>7.1 $H_0: \mu = \mu_0$ Vs $H_1: \mu \neq \mu_0, \mu < \mu_0, \mu > \mu_0$ (One sided and two sided tests)</p> <p>7.2 $H_0: \mu_1 = \mu_2$ Vs $H_1: \mu_1 \neq \mu_2, \mu_1 < \mu_2, \mu_1 > \mu_2$ (One sided and two sided tests)</p> <p>7.3 Paired t-test.</p> <p>7.4 Test of significance of correlation coefficient for bivariate raw data.</p> <p>7.5 Test of significance of regression coefficients for bivariate raw data.</p> <p>7.6 Numerical problems related to real life situations.</p>	8
8	<p>Test based on Chi-square distribution</p> <p>8.1 Chi square test for goodness of fit</p> <p>8.2 Test for independence of attributes (m X n contingency table)</p> <p>8.3 Test for significance of variation for a population.</p> <p>8.4 Numerical problems related to real life situations.</p>	3
9	<p>Non parametric tests</p> <p>9.1 Run test</p> <p>9.2 Sign test.</p> <p>9.3 Kolmogorov - Smirnov test</p> <p>9.4 Mann - Whitney test</p> <p>9.5 Numerical problems related to real life situations.</p>	6
10	<p>Simulation</p> <p>10.1 Introduction to Simulation, merits and demerits and pitfall.</p> <p>10.2 Pseudo-random number generator, requisites of a good random number generator, Testing these requirements by using various test of hypothesis using Run test, goodness of fit test, Sign test etc.</p> <p>10.3 Model Sampling from uniform and exponential distribution.</p> <p>10.4 Model sampling from Normal distribution using Box-Muller transformation.</p> <p>10.5 Numerical problems related to real life situations.</p>	7

Detailed Syllabus for Statistics Paper III (Practical)

A) Practicals to be done manually using scientific calculator

1	Measures of Central Tendency and Dispersion.
2	Problems on simple probability, conditional probability, Baye's theorem and independence of events.
3	Measures of skewness and kurtosis.



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4	Correlation and Linear Regression Analysis. (for bivariate raw data)
5	Fitting of second degree and exponential type models. (for bivariate raw data)
6	Multiple and Partial Correlation and Regression Analysis. (for trivariate data) + Using spreadsheet with use of readymade function.
7	Time Series (Moving Average and Fitting of AR(1) and AR(2) models).
8	Fitting of Binomial and Poisson distributions.
9	Fitting of Normal Distribution.
10	Model Sampling from Simple Continuous Distributions
11	Large Sample Tests.
12	Tests based upon t distribution.
13	Tests based upon chi square distribution.
14	Non parametric tests.

B) Practicals to be done using any spreadsheet (like MS-Excel in MS-Windows or Open-Office in Linux etc.)

1	Diagrammatic Representation and Descriptive Statistics for raw data
2	For a bivariate raw data, fitting various models and finding the "best fit". (3 problems to be solved in a slot)
3	Fitting of Geometric Distribution and Normal Distribution
4	Using random numbers, drawing of a sample from exponential distribution, normal distribution (Box Muller Transformation) etc.

C) Project –

Project is compulsory which is equivalent to 2 practicals.
Project will carry 5 marks as part of internal evaluation.
One project should be given to one practical batch of students.
The formal project report should be prepared by each student and it must be attached in Statistics journal.

10) Recommended books

Author Name	Year of Publication	Title	Publisher
Medhi J.	1992	Statistical Methods (An Introductory Text)	New Age International
Freund J.E.	2005	Modern Elementary Statistics	Pearson Publication
Trivedi K.S.	2001	Probability, Statistics, Design of Experiments and Queuing Theory with Applications of Computer Science	Prentice Hall of India New Delhi




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Gupta S. C. and Kapoor V. K.	1987	Fundamentals of Applied Statistics (3rd Edition)	S. Chand and Sons, New Delhi,
Ross S. M.	2006	A First Course In Probability 6th Edition	Pearson publication
Law A. M. and Kelton W. D.	2007	Simulation Modelling and Analysis	Tata McGraw Hill
Box G. E. P. and Jenkins, G. M.	2008	Time Series Analysis, 4 th edition	Wiley
Brockwell P. J. and Davis R. A.	2006	Time Series Methods	Springer
Snedecor G. W. Cochran W. G.	1989	Statistical Methods	John Wiley & sons
Kulkarni M.B., Ghatpande S.B., Gore S.D.	1999	Common Statistical Tests	Satyajeet Prakashan, Pune
Kulkarni M.B., Ghatpande S.B.	2007	Introduction to Discrete Probability and Probability Distributions	SIPF Academy
Sarma K.V.S.	2001	Statistics Made Simple. Do it Yourself on P.C.	Prentice Hall

11) Qualification of Teacher: As per the University rules




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B. C. A. (Semester V)

501 : Java Programming

Objectives:-

1. To learn the basic concept of Java Programming.
2. To understand how to use programming in day to day applications.


Unit No.	Topic	No. of Lectures	Reference Books
1	Introduction to Java 1.1 Features of java 1.2 JDK Environment & tools like(java, javac, appletviewer, javadoc, jdb) 1.3 OOPs Concepts Class, Abstraction, Encapsulation, Inheritance, Polymorphism 1.4 Difference between C++ and JAVA 1.5 Structure of java program 1.6 Data types, Variables, Operators, Keywords, Naming Convention 1.7 Decision Making (if, switch), Looping(for, while) 1.8 Type Casting 1.9 Array Creating an array Types of Array - One Dimensional arrays - Two Dimensional array 1.10 String - Arrays, Methods. - StringBuffer class	8	1,2
2	Classes and Objects 2.1 Creating Classes and objects 2.2 Memory allocation for objects 2.3 Constructor 2.4 Implementation of Inheritance Simple, Multilevel, 2.5 Interfaces	10	1,2



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	2.6 Abstract classes and methods 2.7 Implementation of Polymorphism 2.8 Method Overloading, Method Overriding 2.9 Nested and Inner classes. 2.10 Modifiers and Access Control 2.11 Packages Packages Concept Creating user defined packages 2.12 Java Built in packages java.lang->math java.util->Random, Date, Hashtable 2.13 Wrapper classes		
3	Collection 3.1 Collection Framework. 3.1.1 Interfaces <ul style="list-style-type: none"> - Collection - List - Set - SortedSet - Enumeration - Iterator - ListIterator 3.1.2. Classes <ul style="list-style-type: none"> - LinkedList - ArrayList - Vector - HashSet - TreeSet - Hashtable 3.2 Working with maps 3.2.1 Map interface 3.2.2 Map classes <ul style="list-style-type: none"> - HashMap - TreeMap 	6	1.2





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4	File and Exception Handling Exception 4.1 Exception types 4.2 Using try catch and multiple catch Nested try, throw, throws and finally 4.3 Creating user defined Exceptions File Handling 4.4 Stream ByteStream Classes CharacterStream Classes 4.5 File IO basics 4.6 File operations Creating file Reading file(character, byte) Writing file (character, byte)	8	1.2
5	Applet, AWT and Swing Programming Applet 5.1 Introduction 5.2 Types applet 5.3 Applet Life cycle - Creating applet - Applet tag 5.4 Applet Classes - Color - Graphics - Font AWT 5.5 Components and container used in AWT 5.6 Layout managers 5.7 Listeners and Adapter classes 5.8 Event Delegation model Swing 5.9 Introduction to Swing Component and Container Classes	12	1.2
Total no. of Lectures		44	

Reference Books:

1. Programming with JAVA - E Balgurusamy
2. The Complete Reference - JAVA Herbert Schildt




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Savitribai Phule Pune University, Pune
Second Year B.C.A.(Science)
Semester III
To be implemented Academic year 2017-18

Course Code: BCA-301
Total Contact Hours: 48 hrs.
(60 Lectures)

Course Title: Data Structure
Total Credits: 04 Total Marks: 100

Teaching Scheme: Theory - 05 Lectures/ Week

Course Objective:

- To study the various structures or methods of organizing data in computer's memory and efficiently implement them.

Prerequisite: Knowledge of C programming language

Unit No.	Content	No. of lecture
1	Introduction to data structure 1.1 Data type and data object 1.2 Abstract Data Type (ADT) 1.3 Type of data structure 1.4 Algorithm analysis 1.4.1 Space and Time complexity 1.4.2 Asymptotic notation – BigO, OmegaΩ 1.4.3 Simple algorithms and its complexity as examples	4
2	Array as a data structure 2.1 Array representation- Row and column major 2.2 Sorting techniques with time complexity: Bubble sort, Insertion sort, Merge sort, Quick sort 2.3 Searching techniques with time Complexity: Linear search, Binary search	8
3	Linked List 3.1 Introduction 3.2 Representation -Static &Dynamic 3.3 Types of linked lists- singly, doubly, circular 3.4 Operations-create, display, insert, delete, reverse, search, sort, concat, merge 3.5 Applications –single variable polynomial manipulation	12
4	Stack 4.1 Introduction 4.2 Representation -Static &Dynamic 4.3 Operations– push, pop 4.4 Applications – Recursion, Infix to postfix, Infix to prefix, postfix evaluation	9
5	Queue 5.1 Introduction 5.2 Representation -Static &Dynamic 5.3 Operations– insert, delete 5.4 Circular queue 5.5 Priority queue 5.6 Applications	8




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6	Tree 6.1 Introduction 6.2 Tree terminologies- all definitions, root, leaf, level, height, depth 6.3 Binary tree 6.3.1 Types 6.3.2 Types of Traversal- Preorder, Inorder, Postorder 6.3.3 Representation - Static & Dynamic 6.4 Binary Search Tree (BST)	13
7	Graph 7.1 Introduction 7.2 Graph terminologies 7.3 Representation - Adjacency matrix, Adjacency list, Adjacency multilist 7.4 Traversal- DFS, BFS 7.5 Applications AOV network - Topological sort AOE network - Critical path	6

Reference Books:

1. Fundamentals of Data Structures-Horowitz Sahani (Galgotia)
2. Introduction to Data Structures using C-Ashok Kamthane
3. Data Structures using C-Bandopadhyay & Dey(Pearson)
4. Data Structures using C-By Srivastava BPB Publication.




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Course Code: BCA302
System

Course Title: Advanced Relational Database Management

Total Contact Hours: 48 hrs.
(60 Lectures)

Total Credits: 04

Total Marks: 100

Teaching Scheme: Theory-05 Lectures/ Week

Course Objective:

- To study fundamental concepts of RDBMS (PL/Pgsql)
- To study database management operations
- To study data security and its importance
- To study client server architecture

Unit No.	Content	No. of Lectures
1	Relational Database Design 1.1. PL/Pgsql: Language structure 1.2. Controlling the program flow, conditional statements, loops 1.3. Views 1.4. Functions 1.5. Handling errors and exceptions 1.6. Cursors 1.7. Triggers	16
2	Transaction Concepts and Concurrency Control 2.1 Transaction, properties of transaction, states of transactions 2.2 Concurrent execution of transactions and conflicting operations 2.3 Schedules, types of schedules, concept of Serializability, precedence graph for Serializability 2.4 Ensuring Serializability by locks, different lock modes, 2PL and its variations 2.5 Multigranularity locking protocol 2.6 Basic timestamp method for concurrency, Thomas Write Rule 2.7 Locks with multiple granularity, dynamic database concurrency (Phantom Problem) 2.8 Timestamps versus locking 2.9 Optimistic concurrency control algorithm, multi version concurrency control 2.10 Deadlock handling methods 2.10.1 Detection and Recovery (Wait for graph). 2.10.2 Prevention algorithms (Wound-wait, Wait-die)	16




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3	Crash Recovery 3.1 Transaction Failure classification 3.2 Recovery concepts 3.3 Checkpoints 3.4 Recovery with concurrent transactions (Rollback, checkpoints, commit) 3.5 Log base recovery techniques (Deferred and Immediate update) 3.6 Buffer Management 3.7 Relationship between Recovery management and Buffer management 3.8 Aries algorithm 3.9 Database backup and recovery from catastrophic failure 3.10 Shadow paging	16
4	Database Security 4.1 Introduction to database security concepts 4.2 Methods for database security 4.3 Discretionary access control method 4.4 Mandatory access control and role based access control for multilevel security 4.5 Use of views in security enforcement 4.6 Overview of encryption technique for security 4.7 Statistical database security	6
5	Client-Server Technology 5.1 Client-server computing 5.2 Evolution of Client-Server information systems 5.3 Client- Server Architecture benefits 5.4 Client Server Architecture (2 tier and 3 tier) 5.5 Components, Principles, Client Components 5.6 Communication middleware components 5.7 Database middleware components 5.8 Client Server Databases	6

Reference Books:

1. Database System Concepts – Avi Silberschatz, Henry F. Korth, S. Sudarshan, 6th edition- McGraw-Hill
2. Fundamentals of Database Systems-RamezElmasri, ShamkantNavathe, 5th edition–Pearson.
3. Practical Postgresql, JoshuaD. Drake, John C Worsley, O'Reilly Publications.
4. Database Management Systems -Raghu Ramakrishnan, 3rdEdition, Tata McGraw Hill
5. Database Management System- Bipin Desai




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**Revised Syllabi for Three - Year Integrated
B.Com. Degree course
(From June 2013)**

1) INTRODUCTION

The revised syllabi for B.Com Degree Course will be introduced in the following order.

- | | | |
|------|--------------------|-----------|
| i) | First Year B.Com. | 2013-2014 |
| ii) | Second Year B.Com. | 2014-2015 |
| iii) | Third Year B.Com. | 2015-2016 |

The B.Com. Degree Course (Revised Structure) will consist of three Years. The first year annual examination will be held at the end of the first year. The Second Year annual examination will be held at the end of the second year. The Third annual examination shall be held at the end of the third year.

2) ELIGIBILITY

1. No Candidates shall be admitted to enter the First Year of the B.Com. Degree Course (Revised Structure) unless he/she has passed the Higher Secondary School Certificate Examination of the Maharashtra State Board of Higher Secondary Education Board or equivalent or University with English as a passing subject.
2. No candidate shall be admitted to the annual examination of the First year B.Com. (Revised Structure) unless he/ she has satisfactorily kept two terms for the course at the college at the college affiliated to this University.
3. No candidate shall be admitted to the annual examination of the Second Year unless he/she has kept two terms satisfactorily for the course at the college affiliated to this University.
4. No candidate shall be admitted to the Third year of the B.Com. Degree Course (Revised Structure) unless he/she has passed in all the papers at the First Year B.Com. Examination and has passed in all the papers at the first Year B.Com. Examination and has satisfactorily kept terms for the second year and also two terms for the third year of B.Com. satisfactorily in a college affiliated to this University.

3) A.T.K.T. Rules :

As far as A.T.K.T. is concerned, a student who fails in two theories and one practical head of passing at F.Y.B.Com may be admitted to S.Y.B.Com, likewise a student who fails in the two theory and one practical head of passing at S.Y.B.Com may be admitted to T.Y.B.Com. But a student passing S.Y.B.Com but fails in any subject at F.Y.B.Com cannot be admitted to T.Y.B.Com.



4) (A) Revised Structure of B.Com. Course.

F.Y.B.Com. w.e.f. 2013-14	
Compulsory / Main Subjects	
101	Compulsory English
102	Financial Accounting
103	Business Economics (Micro)
104 (A)	Business Mathematics and Statistics
	or
104 (B)	Computer Concepts and Applications
105	Optional Group (Any one of the following)
	a) Organizational Skill Development.
	b) Banking & Finance
	c) Commercial Geography
	d) Defense Organization and Management in India
	e) Co-Operation.
	f) Managerial Economics
106	Optional Group (Any one of the following)
	a) Essentials of E-Commerce
	b) Insurance & Transport
	c) Marketing & Salesmanship
	d) Consumer Protection & Business Ethics.
	e) Business Environment & Entrepreneurship
	f) Foundation Course in Commerce
107	(Any one of the language from the following groups)
	Modern Indian Languages (M.I.L.) :- Compulsory English / Marathi / Hindi / Gujarathi / Sindhi / Urdu / Persian.
	Modern European Languages (M.E.L.) :- French / German.
	Ancient Indian Languages (A.I.L.) :- Sanskrit.
	Arabic.

S.Y.B.Com. w.e.f. 2014-15	
Compulsory / Main Subjects	
201	Business Communication.
202	Corporate Accounting.
203	Business Economics (Macro)
204	Business Management
205	Elements of Company Law
206	Special Subject – Paper I
	(Any one of the following)
	a) Business Administration
	b) Banking & Finance.
	c) Business Laws & Practice



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	d) Co-operation & Rural Development. e) Cost & Works Accounting. f) Business Statistics. g) Business Entrepreneurship. h) Marketing Management. i) Agricultural & Industrial Economics. j) Defense Budgeting, Finance & Management. k) Insurance, Transport & Tourism. l) Computer Programming and Applications.
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T.Y. B.Com. w.e.f. 2015-16	
Sr.No.	Compulsory / Main Subjects
301	Business Regulatory Framework (Mercantile Law)
302	Advanced Accounting.
303 (A)	Indian & Global Economic Development Or
303 (B)	International Economics
304	Auditing & Taxation
305	Special Subject – Paper II (Same special subject offered at S.Y. B.Com.) <ul style="list-style-type: none"> a) Business Administration b) Banking & Finance. c) Business Laws & Practices. d) Co-operation & Rural Development. e) Cost & Works Accounting. f) Business Statistics. g) Business Entrepreneurship. h) Marketing Management. i) Agricultural & Industrial Economics. j) Defense Budgeting, Finance & Management. k) Insurance, Transport & Tourism. l) Computer Programming and Applications.
306	Special Subject – Paper III (Same special subject offered at S.Y. B.Com.) <ul style="list-style-type: none"> a) Business Administration b) Banking & Finance. c) Business Laws & Practices. d) Co-operation & Rural Development. e) Cost & Works Accounting. f) Business Statistics. g) Business Entrepreneurship. h) Marketing Management. i) Agricultural & Industrial Economics. j) Defense Budgeting, Finance & Management. k) Insurance, Transport & Tourism. l) Computer Programming and Applications.



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B) Subjects Carrying Practical's

There will be practical examination for the F.Y.B.Com. for the subject Financial Accounting. There will be practical and practical examinations for the special subjects at S.Y.B.Com. and T.Y.B.Com. levels. There will be Practical for the S.Y.B.Com level Compulsory subject Business Communication & for T.Y.B.Com Auditing & Taxation.

(C) A Student must offer the same Special Subject at T.Y.B.Com. which he has offered at S.Y.B.Com.

(D) In an exceptional cases, a student may change the subject chosen by him at second year during the first term of the third year provided he keeps the additional terms of the new subject at S.Y.B.Com.

4. EXTERNAL CANDIDATES

- 1) The student who has registered his name as the external student will appear at the annual examination.
- 2) The result of external student will be declared on the basis of Annual Examination of 80 marks for practical subjects by converting the same out of 100.
- 3) No foreign student shall be allowed to register as an External Student.

5. MEDIUM OF INSTRUCTION.

Medium of instruction for B.Com. degree course shall be either Marathi or English except languages.

The Medium of instructions for Business Communication (S.Y.B.Com) shall be English only.

6. WORKLOAD

The present norms of workload of lectures, tutorials and practicals per subject in respect of B.Com. Course shall continue.

7. UNIVERSITY TERMS

The dates for the commencement and conclusion of the first and the second terms shall be as determined by the University Authorities. The terms can be kept only by duly admitted students. The present relevant ordinances pertaining to grant of terms will be applicable.

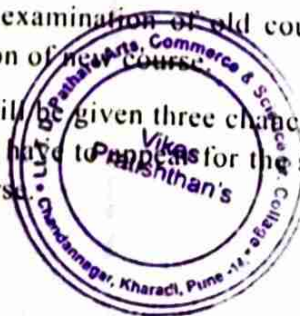
8. VERIFICATION AND REVALUATION

The candidate may apply for verification and revaluation or result through Principal of the College which will be done by the University as per ordinance framed in that behalf.

9. EQUIVALENCE AND TRANSITORY PROVISION

The University will conduct examination of old course for next three academic years from the date of implementation of new course.

The candidate of old course will be given three chances to clear his subject as per the old course and thereafter he will have to appear for the subject under new course as per the equivalence given to old course.



10. **RESTRUCTURING OF COURSES**


This new revised structure shall be made applicable to the colleges implementing 'Restructured Programme' at the undergraduate level from June, 2004. The existing pattern of 'C', 'D', and 'E' Components shall be continued.

The Colleges under the Restructured Programme which has revised their structure in the light of the "2008 Pattern" shall be introduced with effect from academic year 2010-11.

11. **SETTING OF QUESTION PAPERS**

1. A candidate shall have the option of answering the question in any of the subjects either in Marathi or English except in languages.
2. The question papers shall be framed so as to ensure that no part of the syllabus is left out of study by a student.
3. The question paper shall be balanced in respect of various topics outlined in the syllabus.
4. The question papers shall have combination of long and short answer type question. As far as possible short answer type questions should not exceed 15 to 20 percent.
5. There shall be no overall option in the question paper, instead, there shall be internal options (such as either/ or and three short answers out of five etc.).
6. In case of question paper under the Special Subject (Paper No. III) one question carrying 10 marks will be set on current knowledge in relating subject in the academic year.




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F.Y. B.Com.
Compulsory Paper
Subject Name :- Financial Accounting.
Course Code :- 102

Objectives :-

1. To impart the knowledge of various accounting concepts
2. To instill the knowledge about accounting procedures, methods and techniques.
3. To acquaint them with practical approach to accounts writing by using software package.

Term I		
Unit No.	Topic	No. of Lectures
1.	Piecemeal Distribution of Cash Meaning and Introduction, Surplus Capital Method and Maximum Loss Method	12
2.	Amalgamation of Partnership Firms:- Meaning and Introduction, Objectives, Methods of accounting	12
3.	Conversion of a partnership firm into a limited company Meaning and introduction, objectives, effects, methods of calculation of purchase consideration (Net Asset and Net Payment method), accounting procedure in the books of the firm and balance sheet of new company	12
4.	Computerized Accounting Environment Meaning and Introduction, application of accounting software package, Voucher entry through software package.	12
Total		48

Term II

Unit No.	Topic	No. of Lectures
5.	Introduction and Relevance of Accounting Standards Overview of Accounting Standards in India-Concept, Need, Scope and Importance. Study of AS- 1, AS- 2, AS- 4 and AS- 9	10
6.	Royalty Accounts [excluding sub-lease]: Royalty, Minimum Rent, Short Workings, Recoupment of Short Working, Lapse of Short Working. Journal Entries and Ledger Accounts in the Books of Landlord and Lessee.	12
7.	Hire Purchase and Installment System:[Excluding H. P. Trading] Basic Concepts and Distinction, Calculation of Interest and Cash Price, Journal Entries And Ledger Accounts in The Books of Purchaser and Seller.	16
8.	Departmental Accounts Meaning and Introduction, Methods and Techniques, Allocation of expenses, Inter Departmental Transfers, Provision for unrealized profits	10
Total		48

Notes:-

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1. Question Paper for Term and Annual Examination should consist of :
Theory Questions: -30%
Problems:- 70%
2. There will be minimum two practicals.
3. Accounting practical be conducted in Computer or Commerce Laboratory only.
4. Students are expected to study and practice the application of accounting software packages.
5. Colleges are expected to use only licensed copy of software.
6. Practical examination need to be conducted in the computer laboratory.
7. Each student should be given separate set of transactions for practical examination.
8. For practical examination, internal and external examiner shall be appointed by the college.

Recommended Books

1. Financial Accounting: By P. C. Tulsian (Tata McGraw-Hill Publishing Co. Ltd. New Delhi)
2. Financial Accounting: By A. Mukharji & M. Hanif (Tata McGraw-Hill Publishing Co. Ltd. New Delhi)
3. Financial Accounting: By S.N. Maheshwari & S.K. Maheshwari (Vikas Publishing House Pvt. Ltd)
4. Financial Accounting: By Dr. K.N. Jagtap, Dr. S. Zagade & Dr. A.H. Gaikwad (Success Publications, Pune)
5. Advanced Accounts: By M.C. Shukla & S.P. Grewal (S.Chand & Co. Ltd. New Delhi)
6. Advanced Accountancy: By S.P. Jain & K.N. Narang (Kalyani Publishers, New Delhi)
7. Advanced Accountancy: By R.L.Gupta & M. Radhaswamy (Sultan Chand & Sons, New Delhi)

Journals:-

1. The Chartered Accountant: Journal of the Institute of Chartered Accountants of India.
2. The Accounting World : ICFAI Hyderabad



F.Y. B.Com.
Compulsory Paper
Subject Name -: Business Economics (Micro)
Course Code -: 103


Objectives :-

1. To expose Students of Commerce to basic micro economic concepts and inculcate an analytical approach to the subject matter.
2. To stimulate the student interest by showing the relevance and use of various economic theories.
3. To apply economic reasoning to problems of business.

Term I

Unit No.	Topic	No. of Lectures
1.	INTRODUCTION. 1.1 Meaning, Nature and Scope of Business Economics- (Micro) 1.2 Difference between Micro and Macro Economics. 1.3 Tools for Analysis a. Functional Relationships b. Schedules c. Graphs d. Equations 1.4 Goals of firms a) Economic Goals of Firms 1. Profit Maximization 2. Shareholders Wealth Maximization 3. Management Reward Maximization 4. Growth of the firm 5. Sales maximization 6. Long run survival b) Non-Economic goals 1. Political power, Prestige 2. Social responsibility and welfare 3. Goodwill of employees	12
2.	DEMAND ANALYSIS 2.1 Elasticity of Demand, Types of Elasticity, Price Elasticity, Income Elasticity and Cross Elasticity. 2.2 Consumer Behaviour a) Marginal Utility Approach - Limitations b) Indifference Curve Analysis - Concept - Characteristics - Consumer Equilibrium 2.3 Demand Forecasting and Estimation a) Meaning and objectives of Demand forecasting b) Methods of Demand Forecasting c) Descriptive Analysis of	20




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	i) Direct Methods 1) Consumer Survey 2) Expert opinion 3) Simulating market situation 4) Controlled Market Experiments ii) Indirect Methods 1) Simple correlation 2) Trend Projections	
3.	PRODUCTION AND COST ANALYSIS 3.1 Production Function – Meaning 3.2 Law of Variable Proportions - The Three Stages 3.3 Law of Returns to Scale - The Three Stages 3.4 Economics and Diseconomies of Scale – Internal and External 3.5 Cost Analysis – Types of Costs a) Types of Costs 1) Total cost 2) Average Cost 3) Marginal Cost 4) Opportunity cost b) Behaviour of Cost Curves 1) In the Short Run 2) In the Long Run	16
Total		48

Term II

Unit No.	Topic	No. of Lectures
4.	REVENUE BEHAVIOUR 4.1 Meaning and Importance of Revenue Concepts 4.2 Total Revenue (TR), Average Revenue (AR) Marginal Revenue (MR). 4.3 Relationship between Total Revenue, Average Revenue and Marginal Revenue	8
5.	PRICING UNDER VARIOUS MARKET CONDITIONS 5.1 Perfect Competition – Features and equilibrium 5.2 Monopoly – Features and equilibrium, Price Discrimination 5.3 Monopolistic competition - Features and equilibrium 5.4 Oligopoly – Features	20
6.	FACTOR PRICING 6.1 Marginal Productivity theory of Distribution 6.2 Rent a) Theories of Rent i) Ricardian Theory of Rent ii) Modern Theory of Rent	20

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	<p>6.3 WAGES -</p> <p>i) Backward sloping Supply curve of Labour.</p> <p>ii) Collective Bargaining & Trade Unions</p> <p>6.4 INTEREST -</p> <p>a) Theories of Interest –</p> <p>i) Loanable Fund Theory of Interest</p> <p>ii) Keynes Liquidity Preference Theory of Interest</p> <p>6.5 PROFIT -</p> <p>a) Theories of Profit –</p> <p>i) Dynamic Theory of Profits</p> <p>ii) Innovation Theory of Profit</p> <p>iii) Risk and Uncertainty Theory of Profit</p>	
	Total	48

Recommended Books

1. Economics – Samuelson P. A. and Nordhaus W. D. TataMcGraw Hill Publishing Co. Ltd. N.Delhi.
2. A text Book of Economic Theory – Stonier A. W. and Hague D. C. Longman Green and Co. London
3. Business Economics – V. G. Mankar, Macmillan India Ltd. N. Delhi.
4. Vyavasaik Arth Shastra (Sukshm) Dr. T. G. Gite, Atharv Publication. Pune
5. Modern Micro Economics – Theory and Applications H.L. Ahujna S. Chand and Co Ltd. N Delhi.
6. Business Economics – Dr. Girija Shankar – Atharv Publication, Pune.
7. Principals of Economics – N.Gregory Mankiw 6th edition 2012 Cengage learning india pvt ltd Delhi
8. Understanding Microeconomics- Robert L. Helibroner and Lester C. Thurow. Prentice Hall International Inc. London.
9. Micro Economic Theory An Analytical Approach – J M Joshi and R. Joshi Wishwa Prakashan (Division of Wiley Eastern Limited) N. Delhi.
10. Business & Managerial Economics (in the global Context) Sampat Mukherjee. New Central Book Agency, Calcutta.
11. Micro Economics Theory and Application D.N.Dwivedi Second Edition PEARSON.

[Signature]

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F.Y. B.Com.
Optional Paper
Subject Name :- Business Mathematics and Statistics
Course Code :- 104 (A)

Objectives :-

1. To prepare for competitive examinations
2. To understand the concept of Simple interest, compound interest and the concept of EMI.
3. To understand the concept of shares and to calculate Dividend
4. To understand the concept of population and sample.
5. To use frequency distribution to make decision.
6. To understand and to calculate various types of averages and variations.
7. To understand the concept and application of profit and loss in business.
8. To solve LPP to maximize the profit and to minimize the cost.
9. To use correlation and regression analysis to estimate the relationship between two variables.
10. To understand the concept and techniques of different types of index numbers.

FIRST TRM

Medium for this subject shall be ENGLISH only

- Unit 1. Pre-requisites (For objective type questions only) (10)**
1. Natural Numbers and Integers
 2. H.C.F and L.C.M.
 3. Fractions- addition, subtraction multiplication and division of two or more fractions
 4. Laws of Indices
 5. Ratio and Percentage
 6. Proportion and partnership
- Unit 2. Interest (08)**
1. Simple Interest
 2. Compound interest (nominal and effective rate of interest)
 3. Equated Monthly Installments (EMI) (Reducing and flat rate of interest)
 4. Examples
- Unit 3. Shares and dividends (06)**
1. Concept of Shares, face value, market value, Net Asset Value
 2. Equity Shares and Preference shares
 3. Dividend
 4. Bonus Shares
 5. Examples

Total [24]



Unit 4. Population and Sample

(08)

1. Definition and concept of Statistics
2. Scope of Statistics in Economics, Management Science and Industry
3. Concept of Population and Sample
4. Methods of Sampling: Simple Random Sampling and Stratified Random Sampling (Description of procedures only)

Unit 5. Measures of central tendency

(16)

1. Variables Qualitative and Quantitative, Raw data, Classification of data,
2. Frequency distribution, cumulative frequency distribution,
3. Histogram (finding mode graphically) Ogive curves and its uses.
4. Measures of central tendency: Mean, Median for ungrouped and Grouped data.
5. Examples

Total [48]

SECOND TERM

Unit 6. Profit and Loss

(12)

1. Concept of Cost Price, Marked Price and Selling Price
2. Trade Discount and Cash Discount
3. Commission and Brokerage
4. Examples

Unit 7. Linear Programming Problems (For two Variables only)

(12)

1. Definition and terms in a L.L.P.
2. Formulation of L.L.P.
3. Solution by Graphical Method
4. Examples

Total [24]

Unit 8. Measures of dispersion

(08)

1. Concept of Dispersion
2. Measures of Dispersion – Range, Variance and Standard Deviation (S.D.) for Grouped and ungrouped data
3. Measures of relative dispersion- Coefficient of range and coefficient of Variation
4. Examples

Unit 9. Correlation and Regression

(08)

1. Concept of Bivariate data, correlation using scatter diagram
2. Karl Pearson's Coefficient correlation for ungrouped data
3. Spearman's Rank correlation coefficient
4. Concept of regression, lines of regression
5. Regression as prediction Model
6. Examples

Unit 10. Index number

1. Concept of Index Number



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2. Construction of Price Index Number
3. Laspeyre's, Paasche's and Fisher's Method
4. Family Budget and Aggregate Expenditure Method
5. Concept of – Cost of Living /Consumer Price Index Number, SENSEX and NIFTY
6. Examples

----- Total [24]

Grand Total [48]

Recommended Books:

1. Practical Business Mathematics by S.A.Bari (New Literature Publishing Company)
2. Business Mathematics by V.K.Kapoor (Sultan Chand And Sons)
3. Fundamentals of Statistics by S.C.Gupta (Himalaya Publishing House)
4. Basic Statistics by B.L.Agrawal (New Age International Publishers)
5. Statistical Methods by S.P.Gupta (Sultan Chand And Sons)



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F.Y. B.Com.
Optional Paper
Subject Name :- Computer Fundamentals
Course Code :- 104 (B)

Objective:

1. To make the students familiar with Computer environment.
2. To make the students familiar with the basics of Operating System and business communication tools.
3. To make the students familiar with basics of Network, Internet and related concepts.
4. To make awareness among students about applications of Internet in Commerce.
5. To enable students to develop their own web site.

Term - I

Unit No.	Topic	Lectures
1.	Introduction to Computer Fundamentals Introduction to Computer Computer System Hardware Computer Memory Input and Output Devices Interaction between User and Computer Introduction to Free and Open Source Software Definition of Computer Virus, Types of Viruses, Use of Antivirus software	[10]
2.	Basics of Operating System Definition of Operating System Objectives, types, and functions of Operating Systems Working with Windows Operating System: Introduction, The Desktop, Structure of Windows, Windows Explorer, File and Folder Operations, The Search, The Recycle Bin, Configuring the Screen, Adding or Removing New Programs using Control Panel, Applications in windows (Paint, Notepad, WordPad, Calculator)	[12]
3.	Introduction to Business Communication Tools MS-Word: Introduction, Starting MS-Word, MS-Word Screen and its Components, Elementary Working with MS-Word MS-Excel: Introduction, Starting MS-Excel, Basics of Spreadsheet, MS-Excel Screen and Its Components, Elementary Working with MS-Excel MS-Powerpoint: Introduction, Starting MS-PowerPoint, Basics of PowerPoint, MS-PowerPoint Screen and Its Components, Elementary Working with MS-PowerPoint	[12]
4.	Introduction to Computer Network Introduction Importance of Networking Computer Network (LAN, WAN, MAN) Network Components (Hub, Switch, Bridge, Gateway, Router, Modem) Network Topology, Wireless Networks	[06]
5.	Use of Computer in Commerce	



<ul style="list-style-type: none"> Data Processing, Files and Records, File Organization (Sequential, Direct/Random, Index) Computer Applications in Business – Need and Scope Computer Applications in various fields of Commerce: Personnel Administration, Accounting, Cost and Budgetary Management, Purchasing, Banking, Insurance and Stock-broking, e-governance Introduction to E-Commerce, Evolution of E-Commerce, Role of E-Commerce, E-Commerce Framework, E-Commerce Categories 	
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Term - II

Unit No.	Topic	Lectures
1.	Internet and Internet application Introduction, Internet evolution Working of Internet, Use of Internet <ul style="list-style-type: none"> Overview of World Wide Web (Web Server and Client) Introduction to Search engine and Searching the Web Downloading files Introduction to Web Browsers Working with E-mail (creation and use of the same) 	[08]
2.	Electronic Data Interchange Introduction to EDI EDI Architecture Financial EDI Overview of the technology involved in EDI	[04]
3.	Electronic Payment System Introduction to EPS Introduction to EFT (Electronic Fund Transfer) <ul style="list-style-type: none"> Introduction to SET (Secure Electronic Transaction) Business requirement addressed by SET Introduction to Digital Signature and Digital Certificates , Stages of SET Types of Payment System: Digital Cash, Electronic Cheque, Smart Card, Credit/Debit Card 	[08]
4	Introduction to HTML. Introduction to HTML. Working of HTML Creating and loading HTML page, tags Structure of on HTML, Document, Stand Alone Tags Formatting text, Adding Images Creating hyper Links, Tables Sending E-mails through Web Page Sample web pages	[10]
5.	Introduction To Web page Design Introduction to Web design, Types of Web Pages Web design Pyramid Building web sites	



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	Web development process model	
6.	Designing The web pages Page size, Page type, Page margin, Entrance page Exit page, Graphics in Webpage design Animation Effect, Sound Effect Color Effect Uploading the web site (Web space, Domain Name, Hosting the web site)	[08]
7.	Internet Security Security, Privacy Ethical Issues & Cyber Law	[03]

Reference Books

1. Computer Fundamentals by: Anita Goel, Pearson Education India ISBN: 9788131742136
2. Connecting with Computer Science, by Greg Anderson, David Ferro, Robert Hilton, Course Technology, Cengage Learning, ISBN: 9781439080351
3. Fundamentals of Computer : For undergraduate courses in commerce and management, I.T.L. Education Solutions Limited, Pearson Education, ISBN: 9788131733349
4. Introduction to Computer Science, 2/e, I.T.L. Education Solutions Limited, Pearson Education, ISBN: 9788131760307
5. Frontiers of Electronic Commerce, Ravi Kalakota, Andrew B. Whinston, Pearson Education, ISBN: 9788177583922
6. Internet: The Complete Reference, Margaret Levine Young, Tata McGraw Hill Education Private Limited, ISBN: 9780070486997
7. Murach's HTML, XHTML and CSS: Training & Reference, Anne Boehm, Shroff/Murachs Publication, ISBN-9789350230954
8. On the Way to the Web: The Secret History of the Internet and Its Founders, A. Banks, Apress Publication, ISBN: 9781430208693
9. Computers and Commerce: A Study of Technology and Management at Eckert-Mauchly Computer Company, Engineering Research Associates, and Remington, Arthur L. Norberg, MIT Press (MA), ISBN: 9780262140904

Guidelines for Examination:

1. Term End Exam (20 Marks):
To be conducted by college as per rules provided by University of Pune.
2. Annual Exam (80 Marks):
To be conducted by University of Pune at the end of the academic year.
Passing marks for the course are 40 (Out of which **minimum 32** marks are compulsory in Annual Examination).



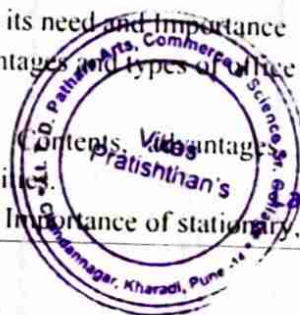
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F.Y. B.Com.
Optional Paper
Subject Name :- Organizational Skill Development.
Course Code :- 105 – a.

Objective:

1. To orient the students towards the concept of Organization and Modern Office.
2. To acquaint the students with the role of and Functions of Office Manager.
3. To develop the insights regarding Organizational Skills for Office Managers.
4. To know the functioning of Modern office appliances equipments and e- format records

Term I		
Unit No.	Topic	No. of Lectures
1.	Modern Office <ol style="list-style-type: none"> 1.1 Introduction, Definition, Characteristics, Importance and Functions 1.2 Traditional and Modern Concepts of Office 1.3 Office Location Meaning, Objectives , Principles of Office Location Office Layout – Meaning , Objectives , Principles and Layout ,Modular and Structured Furniture 1.4 Factors of Good Ambience Office Lighting, ventilation. Temperature, Sanitation, Interior Decoration, Noise and Cleanliness. 	12
2.	Office Organization <ol style="list-style-type: none"> 1.1 Definition, Importance of office organization, 1.2 Principles, Steps. 1.3 Types of Organization 1.4 Concept and Functions of Office Administrator. 	12
3.	Office Manager and Organizational Skills <ol style="list-style-type: none"> 3.1 Office Manager – Role, duties and responsibilities 3.2 Qualification, Qualities and skills of an office manager 3.3 Time Management –Definition, Need, Principles, advantages and Disadvantages, Time Management techniques. 3.4 Goal Setting-Concept of goal-setting - Importance of goals, SMART(Specific, Measurable, Achievable, Realistic, Time-bound) goals , Do's and Don'ts about goals. 	12
4.	Office services <ol style="list-style-type: none"> 4.1 Mail Routine , Courier Services its need and Importance 4.2 Office Forms - objectives, advantages and types of office forms E-forms – advantages. 4.3 Organizational Web Page – Contents, Advantage, Internet Web based applications of office activities. 4.4 Office Stationary and Supplies - Importance of stationary, Essentials of 	12



	a good system of regulating stationary, purchases, storage, Record of stationary,	
	Total	48

Term II

Unit No.	Topic	No. of Lectures
5.	Office Records Management 5.1 Introduction - Need - Objectives - Kinds of Records. 5.2 Organization of records department. 5.3 Classifying and Indexing of Records and Files. Principles - Retention and disposition of records. 5.4 Digitalization of Records: Meaning, advantages, process, utility and feasibility.	12
6.	Office Communications 6.1 Meaning and Elements of Office Communications, 6.2 Channels of Communication – Internal and External 6.3 Significance and barriers to effective communications 6.4 Recent trends in modern communications such as Fax - E-Mail, Internet, Intranet, www(World Wide Web), Tele conferencing, Video Conferencing as means of Communication	12
7.	Public Relations : 7.1 Definition, nature, Scope of PR with customers, investors , employees, government offices and others 7.2 Objectives, importance and functions 7.3 Role of Public Relation Officer in Modern Office 7.4 – Modern methods of Public Relations	12
8	Office Automation 8.1 Office Automation – meaning, scope, feasibility, and advantages 8.2 Different types of modern appliances and machines used in Offices. 8.3 Computerization of office activities - LAN – WAN 8.4 Accounting Packages, Payroll Accounting, Inventory statements, - Vouchers –Invoices - Salary - Maintenance of records and Accounting Books and preparation of financial Report, Leave accounting, Attendance.	12
	Total	48



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Recommended Books

1. Office Organization and Management – By S. P. Arora
2. Office Methods - By M. L. Basu
3. Office Automation – By G. R. Terry
4. Office Management & Control – By G. R. Terry
5. Office Management – By P. K. Ghosh
6. Files and Record Management By Pophan
7. A text book of Office Management By William H & Leflingwell & Robinson
8. Office Administration and Management – by Dr. Khorshed Madon. and Dr. Homai M. Dowell, Vikas Publishing House , Delhi




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F.Y. B.Com.
Optional Paper
Subject Name :- Banking and Finance
[Fundamentals of Banking]
Course Code :- 105 - b.

Objective:

1. To acquaint the students with the fundamentals of banking.
2. To develop the capability of students for knowing banking concepts and operations.
3. To make the students aware of banking business and practices.
4. To give thorough knowledge of banking operations.
5. To enlighten the students regarding the new concepts introduced in the banking system.

Term I		
Unit No.	Topic	No. of Lectures
1.	Evolution of banking 1.1 Origin, Meaning and Definition of 'Bank' 1.2 Evolution of banking- Europe, USA & Asia 1.3 Evolution of banking in India. 1.4 Structure of Indian Banking System	06
2.	Functions of Bank 2.1 Primary functions: A) Accepting deposits: Demand deposits: Current and Savings; No Frills Account, Time deposits-Recurring and Fixed deposits, Flexi Deposits (Auto Sweep) B) Granting Loans and Advances- Term Loan, Short term credit, Overdraft, Cash Credit, Purchasing, Discounting of bills. 2.2 Secondary functions: A) Agency Functions- Payment and Collection of Cheques, Bills and Promissory notes, Execution of standing instructions, Acting as a Trustee, Executor. B) General Utility Functions: Safe Custody, Safe deposit vaults, Remittances of funds, Pension Payments, Acting as a dealer in foreign exchange.	14
3.	Procedure for opening and operating of deposit account 3.1 Procedure for Opening of Deposit Account: Know Your Customer- Needs and Norms (KYC Norms), Application form, Introduction, Proof of residence, Specimen signature and Nomination: Their Importance 3.2 Procedure for Operating Deposit Account: Pay-in-slips, Withdrawal slips, Issue of pass book, (Current Savings or Recurring deposits), Issue of Cheque book, Issue of fixed deposit receipt, Premature encashment of fixed deposits and loan against fixed deposit, Recurring deposits, Premature encashment and loan against recurring deposit 3.3 a) Closure of accounts b) Transfer of accounts to other branches 3.4 Types of account holders a) Individual account holders- Single, Joint, Minor, Married	14

	woman, Pardahnashin woman, Non resident accounts b) Institutional account holders- Sole proprietorship, Partnership firm, Joint stock company, Hindu undivided family, Clubs, Associations and Societies and Trusts.	
4.	Methods of Remittances 4.1 Demand drafts, bankers' Cheques and Truncated Cheques 4.2 Mail transfer, Telegraphic transfer, 4.3 Electronic Funds Transfer- RTGS, NEFT and SWIFT	14
Total		48

Term II

Unit No.	Topic	No. of Lectures
5.	Lending principles, Credit Creation and Balance Sheet of a bank 5.1 Safety, Liquidity, Profitability, Diversification of risks Conflict between liquidity and profitability 5.2 Multiple Credit Creation: Process and Limitations 5.3 Balance sheet of a commercial bank.	16
6.	Negotiable Instruments 6.1 Definition, meaning and characteristics of Promissory note, Bill of Exchange and Cheque 6.2 Types of Cheques- Bearer, Order and Crossed 6.3 Types of Crossing- General and Special.	16
7.	Endorsement 7.1 Definition and meaning of endorsement 7.2 Types of endorsement- Blank, Full or Special, Restrictive, Partial, Conditional, Sans Recourse, Facultative.	08
8.	Technology in Banking 8.1 Need and importance of technology in banking 8.2 E-Banking: ATM, Credit card, Debit card, Tele Banking, Mobile Banking, Net Banking, SWIFT (Society for Worldwide Inter-bank Financial Telecommunication) 8.3 Concept and benefits of Core Banking Solution.	08
Total		48



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Recommended Books

1. Practice and Law of Banking- G.S.Gill
2. Banking: Law and Practice- P.N. Varshney
3. Banking: Theory and practice- E.Gordon, K. Talraj
4. Banking: Law and practice in India- Tannan
5. Banking: Law and practice in India- Maheshwari
6. Fundamentals of Banking- Dr. G.V.Kayandepatil, Prof. B.R.Sangle, Dr.
7. G.T.Sangle, Prof. N.C.Pawar
8. Banking: Law and Practice- Prof. Mugle
9. Banking and financial system - Vasant Desai
10. Banking theory and practice- K.C.Shekhar
11. Fundamentals of banking'- Dr. R.S.S.Swami
12. Annual Report on trends and progress of banking in India- R.B.I.
13. Toor N. S., Handbook of Banking Information



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Optional Paper

Subject Name -: Defense Organization and Management in India
Course Code -: 105 - d.

Objective:

1. To understand the role of Armed Forces for maintaining national security of the country.
2. To understand Higher Defense Mechanism, Role of Intelligence and Management Technique in Decision making at Strategic & Tactical Level

Term I

Unit No.	Topic	No. of Lectures
1.	Principles of Defense Organization 1.1 Reconstruction of Indian Armed Forces since 1947 1.1.1 Development of the Army after Independence 1.1.2 Development of the Navy after Independence 1.1.3 Development of the Air Force after Independence	12
2.	Higher Defense Organization in India 2.1. Powers of the President in relation to the Armed Forces 2.2. Defense Committee of the Cabinet. 2.3. Ministry of Defense – its organization & function 2.4. National Security Council	12
3.	Defense Mechanism of the Indian Armed Forces 3.1 Chief of Staff Committee 3.2 Organization of Army, Naval & Air Headquarters. 3.3 Organization of Army, Naval & Air Commands.	12
4.	Second Line of Defense 4.1. Border Security Force 4.2. Coast Guard 4.3. Territorial Army 4.4. Home Guard 4.5. Civil Defense 4.6. National Cadet Corps (N.C.C) 4.7. Central Reserve Police Force 4.8. State Reserve Police Force	12
Total		48

Term II

Unit No.	Topic	No. of Lectures
5.	Intelligence 5.1. History & Types of Intelligence 5.2. Process & Principles of Intelligence 5.3. Devices for Collecting Intelligence 5.4. Role of Intelligence 5.5. Counter Intelligence 5.6. Indian Intelligence Organization	12



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6.	The Combat Branches 6.1. Infantry 6.1.1. Characteristic, Role & Limitations. 6.1.2. Division & Battalion Organization. 6.2. Armoured Crops 6.2.1. Characteristics, Role & Limitations 6.3. Supporting Arms 6.3.1. Artillery – Characteristics, Role & Limitations 6.3.2. Engineers – Characteristics, Role & Limitations 6.3.3. Signal Corps – Characteristics, Role & Limitations means of signals	12
7.	The Administrative Services 7.1 Army Service Crops 7.2 Army Ordnance Crops 7.3 Electrical & Medical Engineers. 7.4 Army Medical Crops – its role in Peace & War time	12
8	Indian Navy & Indian Air Force 8.1. Characteristic, Role & Limitations Navy & Air Force 8.2. Various Types of Battle Ships in Indian Navy 8.3. Various Types of Aircrafts in Indian Air Force	12
Total		48

Recommended Books

1. Ron Mathews – “Defence Production in India” ABC – New Delhi
2. Raju G. C. Thomas – “The Defence of India – A Budgetary perspective of strategy & politics”, Mac Millan Publication, New Delhi – 1978
3. Sam-C-Sarkesian – “The Military Industrial Complex – A Reassessment”, Sage Publication, 1972
4. Maj. Gen. Pratap Narain (Retd.) “India’s Arms Bazaar” Shilpa Publication, New Delhi – 1998
5. Y. Lakshmi, “Trends in India’s Defence Expenditure” ABC, New Delhi 1998.
6. Lt. Gen. R.K. Jasbir Singh, “India’s Defence Year Books”, Natraj Publication, Dehradun 1999
7. Annual Report, Ministry of Defence, Government of India
8. Venkateshwaram A.L. – “Defence organisation in India”
9. Nagendra Singh – “Defence Mechanism of Modern State”.
10. Lt. Col. Abhyankar M. G. – “Defence Principle & Organisation”.
11. U. C. Jain, Jeevan Nair – “Indian Defence & Security”, Pointer Publishers, Jaipur, 2000
12. D.C.Pathak, “Intelligence: A Security Weapon”, Manas Publication, New Delhi, 2003
13. Stephen Peter Rosen, “Societies & Military Power – India & its Armies”, Oxford University Press, New Delhi, 1996
14. Maj. K.C. Praval, “Indian Army after Independence”, Lancer International, New Delhi, 1990
15. H. B. Mishra, “Defence Programmes of India” – Author Press – New Delhi – 2000
16. Maj. Udaya Chandar, “The Art of Military Leadership”, Vikas Publishing House, Mumbai - 1979



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**F.Y. B.Com.
Optional Paper**

Subject Name :- Co-operation

Course Code :- 105 – e.

Objectives:

1. To acquaint the students with the concept of co-operation and its movement.
2. To introduce the scope of Co-operation.
3. To make students build their career in the field of Co-operation and Rural Development.

Term I

Unit No.	Topic	No. of Lectures
1	Concept of Co-operation- <ul style="list-style-type: none"> ➤ Meaning & Definitions ➤ Objectives ➤ Nature and Scope of Co-operation. 	12
2	Principles of Co-operation- Evaluation of Co-operative principles and modifications there in from time to time. <ul style="list-style-type: none"> ➤ International Co-operative Alliance (I.C.A) Committee-1937 ➤ International Co-operative Alliance (I.C.A.) Commission-1966 ➤ International Co-operative Alliance (I.C.A.) Commission-1995 	12
3	History of Indian Co-operative Movement – Origin of Co-operative movement in India. <ul style="list-style-type: none"> ➤ Sir Fedrick Nicholson Report 1904 ➤ MacLagen Committee Report 1912 ➤ Gorewala Committee Report 1954 ➤ Vaidyanathan Committee Report 2005 	12
4	Contribution to the development of Co-operative Movement in India of: <ul style="list-style-type: none"> ➤ Dr. Dhananjay Gadgil ➤ Padmashri. Vaikuntbhai Mehta ➤ Padmashri. Vitthalrao Vikhe Patil ➤ Dr. Verghese Kurien ➤ Karmaveer Bhausaheb Hiray 	12
Total		48

Term II

Unit No.	Topic	No. of Lectures
5	Different Types of Co-operative: <ul style="list-style-type: none"> ➤ Rural Co-operative and Urban Co-operative ➤ Agriculture Co-operative and Non Agriculture Co-operative ➤ Credit Co-operative and Non Credit Co-operative 	

	<ul style="list-style-type: none"> ➤ Weaker Sections Co-operatives. ➤ Federation of Co-operatives. 	
6	Government and Co-operative movement: <ul style="list-style-type: none"> ➤ Role of Central Government ➤ Role of State Government 	12
7	Achievement of Co-operative movement: <ul style="list-style-type: none"> ➤ Strength and Weakness ➤ Future Trends of Co-operative Movement in India. 	12
8	Co-operative Education and Training: <ul style="list-style-type: none"> ➤ Objectives of Co-operative Education and Training. ➤ Training arrangement in India. ➤ Evaluation of education and training programmes. ➤ Problems and suggestions. 	12
Total		48

Recommended Books

1. Co-operation- Principles and Practice- Dr. D.G. Karve
2. Co-operation in India- Dr. B.S. Mathur
3. Theory, History and Practice of Co-operation- Dr. R.D. Beddy
4. Co-operation in India- Dr. C. B. Memoriya and R.D. Saxena
5. Theory and Practice of Co-operation in India and Abroad- Prof. R.K. Kulkarni
6. Bhartiya Sahkari Chadvad- Tatve va Vyavhar (Marathi)- Prof. Jagdish Killol; Prof. Arvind Bondre; Prof. A. C. Bhavsar
7. Sahkari Chalval 1904-2004 (Marathi) – Prof. K. L. Fale



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F.Y. B.Com.
Optional Paper
Subject Name -: Managerial Economics
Course Code -: 105 – f.

Objectives:

1. To enable students of Commerce to apply economic theory and analysis, practices of business firms.
2. To use tools and techniques of economic analysis to develop managerial decision making
3. To apply economic analysis in the formulation of business policies.

Term I

Unit No.	Topic	No. of Lectures
1	INTRODUCTION 1.1 Definition, Nature & Scope and Characteristics of Managerial Economics. 1.2 Theories of the Firm 1.3 Objectives of the Firm – a. Profit Maximization b. Security Objective c. Profit Satisfying Objective d. Sales maximization e. Utility Maximization f. Growth Maximization	13
2	DEMAND ANALYSIS 2.1 Law of Demand 2.2 Determinants of Demand 2.3 Elasticity of Demand – Concept and Measurement of – 2.3.1 Price Elasticity of Demand 2.3.2 Income Elasticity of Demand 2.3.3 Cross Elasticity of Demand 2.4 Importance of Elasticity of Demand in business decision making. 2.5 Business or Economic Forecasting - 2.5.1 Objectives 2.5.2 Methods of Business Forecasting 2.6 Theory of Supply	20
3	PRODUCTION AND COST ANALYSIS 3.1 Production Function –Meaning & Nature 3.2 Law of Variable-the three stages. 3.3 Law of Returns to scale - the three stages. 3.4 Cost Analysis – 3.4.1 In the short run 3.4.3 In the long run	15

Total

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Term II

Unit.No.	Topic	No. of Lectures
4	PRICING AND INVESTMENT DECISIONS 4.1 Pricing Practices -Objectives 4.2 Investment Decisions – 4.2.1 Concept and Types – a. For Expansion b. For Replacement c. For Modernization d. For Diversification e. For Research and Development. 4.2.2 Aids to Investment Decisions – a. Capital Budgeting – Meaning and Usefulness. 4.2.3 Methods of Investment Decision – Concept and Descriptive analysis of – a. Payback period. b. Average Rate of Return	20
5	COST – BENEFIT ANALYSIS 5.1 Meaning 5.2 Use 5.3 Limitations	13
6	MACRO ECONOMIC ENVIRONMENT 6.1 Business Trends in India – 6.2 Overview of Economic Reforms and Business. 6.3 Role of Multinational Corporations (MNCs) 6.4 Acquisitions and Mergers	15
Total		48

Recommended Books

1. Dean Joel – managerial Economics. Prentice Hill India Pvt. Ltd. New Delhi.
2. Gupta G.S. –Managerial Economics. Tata McGraw Hill, New Delhi.
3. Mithani D.M. – Managerial Economics Theory and Applications. Himalaya Publishing House, N. Delhi.
4. Mmankar V.G. –Business Economics, Macmillan India Ltd. N. Delhi.
5. Varshney and Maheshwari – Managerial Economics.Sultan Chand and sons, N. Delhi.
6. Dr. T. G. Gite - Vyavasaik Arthshstra (Sukshma) Atharve Publication, Pune.
7. Salvatore Dominick – Managerial Economics in a Global Economy. McGraw Hill N. York.
8. Dr.Girija Shankar: Micro Economics – Atharva Publication.
9. H. Craig Peterson, W. Cris Lewis – Managerial Economics, Prentice Hill of India Ltd. New Delhi.
10. Dwivedi D. N. Managerial Economics: Tata McGraw Hill, New Delhi

F.Y. B.Com.
Optional Paper
Subject Name :- Essentials of E-Commerce
Course Code :- 106 – a.

Objective:

To make a student familiar with the mechanism of conducting business transactions through electronic media. Learning Outcomes: After completing this course, a student is expected to be able to

- explain various components of e-commerce,
- understand the dynamics of e-commerce,
- appreciate the Internet technology and its utility in commercial activities,
- understand the methodology of online business dealings using e-commerce infrastructure.

Term I

Unit No.	Topic	No. of Lectures
1.	Overview of Electronic Commerce (EC): Concept, features, and functions of e-commerce, e-commerce practices v/s traditional practices, scope and limitations of e-commerce.	10
2.	Fundamental of e-commerce: Definition and types of e-commerce: B2B, B2C, C2C, and P2P, B2B service provider, e-distributor, procurement and just-in-time delivery.	12
3.	Infrastructure: Internet and its role in e-commerce, procedure of registering Internet domain, establishing connectivity to Internet, tools and services of Internet.	10
4.	E-Payment: Transactions through Internet, requirements of e-payment systems, functioning of debit and credit cards, pre and post payment services.	06
5.	Electronic Data Interchange: Evolution, uses, Benefits, Working of EDI, EDI Standards (includes variable length EDI standards), Cost Benefit Analysis of EDI, Electronic Trading Networks, EDI Components, File Types, EDI Services, EDI Software	10
Total		48

Term II

Unit No.	Topic	No. of Lectures
6.	Digital economy: Major characteristics, economic rules, impact on trading and intermediaries, impact on business processes and functional areas in banking, financial and insurance organizations.	08



7.	E-Marketing: Market place v/s Market space, impact of e-commerce on market, marketing issues in e-marketing, direct marketing, one-to-one marketing.	08
8.	E-Finance: Areas of e-finance, e-banking, traditional v/s e-banking, trading v/s e-trading, importance and advantages of e-trading, operational aspects of e-trading.	08
9.	E-Ticketing: Online booking systems, online booking procedure of railways, airlines, tourist and religious places, hotels and entertainment industry.	08
10	E-Commerce in India: State of e-commerce in India, problems and opportunities in e-commerce in India, legal issues, Social and Ethical Issues, future of e-commerce, Mobile Commerce.	08
11	Security in e-commerce: Setting up Internet security, maintaining secure in Formation, encryption, digital signature and other security measures.	08
Total		48

Recommended Books

Reference Books:

1. Daniel Amor, E Business R(Evolution), Pearson Edude.
2. Krishnamurthy, E-Commerce Management, Vikas Publishing House.
3. David Whiteley, E-Commerce: Strategy, Technologies and Applications, Tata McGraw Hill.
4. P. T. Joseph, E-Commerce: A managerial Perspectives, Tata McGraw Hill.
5. Doing Business on the Internet E-COMMERCE (Electronic Commerce for Business): S. Jaiswal, Galgotia Publications.
6. C.S.V.Murthy: E-Commerce-Concepts, Models & Strategies, Himalaya Publishing.
7. Kamalash K Bajaj & Debjani Nag: E-Commerce, the Cutting Edge of Business- Tata McGraw-Hill, New Delhi.



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**F.Y. B.Com.
Optional Paper**

**Subject Name :- Insurance and Transport
Course Code :- 106 – b.**

Objectives :-

1. To acquaint students with the concept of Insurance and Transport.
2. To introduce the scope of Insurance including Life & General Insurance and Transport including Travel & Tourism.
3. To make the students aware of carrier opportunities in the field of Insurance & Transport and impart appropriate skills.

Marks : 100

No. of Lectures 48

Term I - INSURANCE

Unit No.	Topic	Lectures
1.	Concept of Insurance Risk : Meaning, Definition & Scope ---Types: Human & Business ---Types of Business Risk. Insurance : Meaning, Definition, Need & Scope -Insurance Contract: Meaning, Components.	12
2.	Life Insurance Meaning, Definition, Need, Scope & Principles of Life Insurance. Types of Life Insurance Policies---Carrier Options in Life insurance Business.	12
3.	General Insurance Meaning, Definition, Need, Scope & Principles of General Insurance. Types of General Insurance --- Carrier Options in General Insurance Business.	12
4.	Role of Insurance in Logistics Meaning and significance of logistics – Need for social security – Procedure for claim settlement – Role of Insurance in Logistics in the Global age and challenges.	12
Total		48

Term II - TRANSPORT

Unit No.	Topic	Lectures
5.	Concept & Role of Transport Meaning, Need & Scope of Transport. ---- Transport being a primary mode of Service Trade--Role of Transport in Indian economy --- Existing problems & suggestions.	12
6.	Modes of Transport Types of Transportations in India --- Meaning, Need, Scope & Advantages. Road Transport & Rail Transport in India – Their Suitability and Limitations.	12
7.	Other means of Transports Water Transport : Meaning, Scope, Advantages & Limitations. Air Transport : Meaning, Scope, Advantages and Limitations -- Choice of Transport Mode : Cost, Speed & Flexibility.	12
8.	Travel & Tourism Meaning & Scope - Role and contribution to Economic Development -- Means of Travel & Tourism in India. – Career Options in Travel, Tourism and Hospitality Management.	12



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Recommended List of Reference Books

Insurance

1. Insurance -- Principles & Practices of Insurance – By : G.S. Pande
2. Theory & Practice of Life Insurance – By : Mitra
3. Insurance Principles & Practice
– By : M.N.Mishra & S.B. Mishra (S. Chand Publication)
4. Insurance & Risk Management – By : P.K.Gupta (Himalaya Publication)

Transport

1. Economics of Transport – By : S.K. Shrivastava
2. Transport in Modern India – By : P.P. Bhatnagar
3. Rail & Road Transport in India – By : M.D. Mathur
4. Transportation System & Policy Analysis
– By : S. Sriraman (Himalaya Publication)
5. Challenges To Transportation – By : Rupenthal Karl M. (ASRC Hyderabad)

Tourism

1. Introduction to Tourism – By : M.A. Khan
2. Tourism Management – By Seth P.N. (Sterling Publishers, Delhi)
3. Tourism & Travel : Concepts & Principles
– By : Negi Jagmohan (Gitanjalee Publishers, Delhi)
4. Tourism in India : Trends & Issues – By : Dharmarajan S & Seth Rabindra (Har-Anand Publishers, Delhi)



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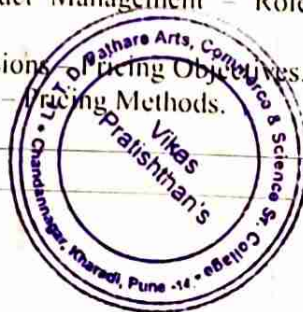
F.Y. B.Com.
Optional Paper
Subject Name :- Marketing and Salesmanship
[Fundamentals of Marketing]
Course Code :- 106 – c.

Objectives :-

- 1) **General Objective of the Paper.**
 - a) To create awareness about market and marketing.
 - b) To establish link between commerce/Business and marketing.
- 2) **Core Objectives of the paper.**
 - a) To understand the basic concept of marketing.
 - b) To understand marketing philosophy and generating ideas for marketing research.
 - c) To know the relevance of marketing in modern competitive world.
 - d) To develop an analytical ability to plan for various marketing strategy.

Term I

Unit No.	Topic	No. of Lectures
1	<u>Basics of marketing</u> <ol style="list-style-type: none"> 1.1) Market – Marketing – Introduction, Meaning, Definition, Scope, Types and Significance. 1.2) Marketing Management – Introduction, Meaning, Definition, Scope, and Significance. 1.3) Functions of Marketing – Basic Functions, Functions of Exchanges, and Subsidiary Functions. 1.4) Marketing Mix - Introduction, Meaning, Definition, Scope, and Significance. 	
2	<u>Marketing Environment</u> <ol style="list-style-type: none"> 2.1) Introduction – Definition and Nature. 2.2) Factors Constituting Marketing Environment. 2.3) Micro and Macro Environment. 2.4) Impact of Marketing Environment on Marketing Decisions. 	
3	<u>Buyer Behaviour and Market Segmentation</u> <ol style="list-style-type: none"> 3.1) Introduction – Meaning, Definition, Scope and Significance of Buyer Behavior. 3.2) Determinants of Buyer Behaviour, Stages of Buyer Behaviour – Buying Process.. 3.3) Introduction, Meaning, Importance of Market Segmentation. 3.4) Bases for Segmentation – Qualities of Good Segmentation. 	
4	<u>Product and Pricing Decision</u> <ol style="list-style-type: none"> 4.1) Concept of Product – Product Classification. 4.2) Factors Considered For Product Management – Role of Product Manager. 4.3) Factors Affecting Pricing Decisions – Pricing Objectives. 4.4) Pricing and Product Life Cycle – Pricing Methods. 	



Term II

Unit No.	Topic	No. of Lectures
5	<u>Logistics and Supply Chain Management –</u> 5.1) Introduction – Definition – Objectives – Scope and Significance 5.2) Market Logistics Decisions – Channel Structure. 5.3) Designing Distribution Channels. 5.4) Types of Marketing Channels.	
6	<u>Market Promotion Mix –</u> 6.1) Promotion Mix – Meaning, Scope and Significance. 6.2) Factors Affecting Market Promotion Mix 6.3) Advertisement and sales Promotion – Meaning and Definition. Means and Methods of Sales Promotion. 6.4) Advertising Meaning and Goals – Advertising Media– Meaning, Types, Advantages and Limitations.	
7	<u>Rural Marketing–</u> 7.1) Introduction – Meaning – Definition – Features – Importance – 7.2) Rural Marketing Mix – Importance, Elements, Scope 7.3) Present Scenario of Rural Market – 7.4) Problems And Challenges of Rural Market –	
8	<u>Services Marketing –</u> 8.1) Introduction – Meaning – Definition – Features – Importance of Services – Significance of Services in Marketing. 8.2) Classification of Services – Marketing of Industrial Goods Services, Marketing of Consumer Goods Services. 8.3) Marketing Mix for Services 8.4) Services Marketing And Economy – Scope of Services Marketing in Generation of Job Opportunity, Role of Services in Economy, Services Quality	
Total		48

Recommended Books

Sr. No.	Name of the Book	Publisher	Author
1	Marketing Management	Macmillan Publication	V.S.Ramaswamy S. Namakumari
2	Principals of Marketing	Prentice- Hall of India Pvt. Ltd.	Philip Kotler
3	Rural Marketing	Dorling Kindersley (India) Pvt.Ltd.Pearson	Gary Armstrong Pradeep Kashyap
4	Marketing Management	Himalaya Publishing House	Dr.K.Karuna Karan
5	Marketing in India	Vikas Publishing House	S. Neelamegham
6	Basics of Marketing Management	S. Chand	Dr.R.B.Rudani
7	Services Marketing	Himalaya Publishing House	V. Venugopal Raghu V.N.



F.Y. B.Com.

Optional Paper

Subject Name :- Consumer Protection and Business Ethics

Course Code :- 106 – d.

Objectives:

- 1) To acquaint the students with consumer and consumer movement.
- 2) To make the students aware about consumer rights, duties and mechanism for resolving their disputes.
- 3) To make students aware about role of united nations and consumers' associations in protection of consumers.
- 4) To make the students aware about laws relating to consumers.
- 5) To acquaint the students with role of Business Ethics in various functional areas.

First Term		Periods
Unit – I	Consumer and Consumerism:	[18]
	<ol style="list-style-type: none">1. 1. Consumer: Concept, Meaning, Definition and Features1. 2. Problems of consumers: Rural and urban, Its Nature and Types1. 3. Consumerism – Meaning, objectives, Benefits-Consumerism in India1. 4. Rights, Duties and Responsibilities of Consumers.1. 5. Consumer Movement-Meaning-Definition-Importance, Scope and Features1. 6. Development of Consumer Movement in India- Problems and Prospects.	
Unit – II	Voluntary Consumer Organizations (VCO) and Consumer Protection:	[06]
	<ol style="list-style-type: none">2. 1. VCO: Origin, Importance, Functions and Limitations2. 2. Challenges before VCOs2. 3. Role of Voluntary Consumer Organization in Consumer Protection in the area of marketing & Advertisements.2. 4. Consumer Education-Meaning-Definition-Objectives	
Unit - III	United Nations Guidelines for Consumer Protection:	[06]
	<ol style="list-style-type: none">3. 1. United Nations and Consumer Protection3. 2. United Nations Guidelines for Consumer protection, 1985.<ol style="list-style-type: none">3.2.1. Objectives.3.2.2. General principles.3.2.3. Guidelines<ol style="list-style-type: none">a) Physical Safetyb) Promotion and protection of consumers' economic interestsc) Standards for the safety and quality of consumer goods and services	



	goods and services d) Education and Information Programme c) Promotion of Sustainable Consumption	
Unit - IV	Consumer Protection Act, 1986:	[18]
	4. 1. Background – Need-Scope and Features 4. 2. Definitions- Consumer-Goods-Services- Complaints, Complainant- Defect in Goods- Deficiency in Services, Unfair Trade Practices, Restricted Trade Practices. 4. 3. Consumer Protection Councils-Composition-Working-and Objectives of: a) District Consumer Protection Council b) State Consumer Protection Council c) National Consumer Protection Council 4. 4. Mechanism for Redressal-Composition and working of- Consumer Disputes Redressal Agencies: a) District Consumer Disputes Redressal Forum b) State Consumer Disputes Redressal Commission c) National Consumer Disputes Redressal Commission 4. 5. Procedure of filing complaints	
Second Term		
Unit - V	An overview of various Laws for the Protection of Consumers:	[18]
	5. 1. The Bureau of Indian Standards Act, 1986 (Sections - 1,10,11,14,33) 5. 2. The Competition Act, 2002 (Sections – 1, 3 to 6) 5. 3. Right to Information Act, 2005 (Sections – 1 to 11, 18, 19 and 20) 5. 4. Food Safety and Standards Act, 2006 (Sections– 1 to 3, 18 to 28)	
Unit - VI	Protection of Consumer against Standard Form of Contract:	[04]
	6. 1. Nature and Relevance of Standard Form of Contract 6. 2. Judicial Response to Standard Form of Contract in India and abroad 6. 3. Legislative Reforms	
Unit - VII	Conceptual Framework of Business Ethics:	[08]
	7. 1. Concept of Ethics: Its Meaning and Nature 7. 2. Definition importance and Scope of Business Ethics 7. 3. Types of Business Ethics; viz:- i. Professional business ethics	



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	ii. Ethics of accounting information iii. Ethics of Production iv. Ethics of intellectual property skill, knowledge etc.	
Unit - VIII	Business Ethics in Modern Times:	[10]
	8. 1. Social Responsibilities of Business 8. 2. Business Ethics and Environmental Issues: Indian and International level - Green initiatives 8. 3. Management and Ethics i. Ethical Issues in Marketing ii. Ethical Issues in Human Resource Management	

Recommended Books:

1. Law of Consumer Protection in India- P.K. Majumdar (2011), Orient Publishing Co. New Delhi.
2. Practical Guide to Consumer Protection Law, Anup K. Kaushal (2006), Universal Law Publishing Co, New Delhi.
3. Consumer Protection Laws, Prof. Rakesh Khanna, (2005) Central Law Agency, Alahabad.
4. Business Ethics and Corporate Governance, S.K. Bhatia 92005),
5. Consumer Protection Law, Dr. S. R. Myneni, (2010), Asia Law House, Hyderabad.
6. Law of Consumer Protection, Dr. Gurbax Singh, Bharat Law Publication, Jaipur.



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Optional Paper**

**Subject Name :- Business Environment & Entrepreneurship
Course Code :- 106 – e.**

Objectives :

1. To make the students aware about the Business Environment.
2. To create entrepreneurial awareness among students,
3. To motivate students to make their mind set for taking up entrepreneurship as career.

FIRST TERM

Unit No.	Name of the Topic	Periods
1	Business Environment - Concept- Importance - Inter relationship between environment and entrepreneur, Types of Environment- Natural, Economic - Political - Social - Technical - Cultural - Educational - Legal - Cross-cultural – Geographical etc.	12
2	Environment Issues Protecting the Natural Environment – prevention of pollution and depletion of natural resources; conservation of natural resources, Opportunities in Environment.	12
3	Problems of growth Relevance to entrepreneurship -Unemployment- Poverty-Regional imbalance- Social injustice-Inflation - Parallel Economy- Lack of Technical knowledge and information.	12
4	The Entrepreneur- Evolution of the term entrepreneur-" Competencies of an entrepreneur - Distinction between entrepreneur and manager- Entrepreneur and enterprise -Entrepreneur and Intrapreneur. Entrepreneur and Entrepreneurship.	12

SECOND TERM

Unit No.	Name of the Topic	Periods
1	Entrepreneurial Behaviour - Comparison between entrepreneurial and non-entrepreneurial Personality-Habits of Entrepreneurs - Dynamics of Motivation	12
2	Entrepreneurship Importance of Entrepreneurship - Economic Development and Industrialization, Entrepreneurship in Economic Theory- Role of Entrepreneurship ~ Entrepreneur as a catalyst.	12
3	<u>National Level</u> Training Organizations in promoting entrepreneurship (1) Entrepreneurship Development Institute of India (EDII) <u>State Level</u> Training Organizations in promoting entrepreneurship (1) MCED (2) DIC (3) Maratha Chamber of Commerce and their role. (4) Local NGO's and their roles.	12
4	Biographical study of entrepreneurs i) Narayan R. Murthy ii) Cyrus Poonawala iii) Any successful Entrepreneur from your area (Milind Raisinghani)	12



Recommended Books & Journals


Recommended Books

1. Dynamics of Entrepreneurship Development and Management - Desai Vasant - Himalaya Publishing House
2. Crusade - Shirke B.G. - Ameya Prakashan
3. Entrepreneurship - Robert D. Histrith - Tata McGraw Hill Publishing Co.
4. Entrepreneurial Development - Khanka - S. Chand.
5. Entrepreneurial Development - Gupta, Shrinivasan - S. Chand.
6. Essentials of Business Environment - K. Aswathappa - Himalaya Publishing House
7. Indian Economy - Dutta Sundaram -
8. A complete guide to successful Entrepreneurship - Pandya G. N. - Vikas Publishing House
9. Trainers Manuals - NIESBUD, New Delhi.
10. Trainers Manuals - NIMID, Mumbai,
11. Business Environment - Francis Cherunilam - Himalaya Publishing House.
12. Business Environment - Tandon B C.
13. Udyog - Udyog Sanchalaya, Mumbai.
14. Environmental Studies basic concepts - U. K. Ahluwalia
15. Environmental Pollution & Health - U. K. Ahluwalia

Recommended Journal

1. The Journal of Entrepreneurship EDI Ahmedabad.
2. Udyojak - M.C.E.D.
3. Government of Maharashtra Website
4. Government of India Website




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F.Y. B.Com.
Optional Paper
Subject Name :- Foundation Course in Commerce.
Course Code :- 106 – f.

Objective :

1. To Study the forms of Business Organization.
2. To understand the basic concepts and recent trends in Commerce & Business Practices.
3. **To Understand the functioning of Stock Exchange, Commodity exchange, Trade. Associations and Chamber of Commerce.**

FIRST TERM

Unit No.	Name of the Topic	Periods
1	Organization - Meaning, Importance Forms of business organizations; Proprietary - Partnership firms- Limited Liability Partnership (LLP) -Joint Ventures and Business Alliances, Organizational structures, Functional areas of business and their operations, Formal & informal organizations: principles of organizations, Criteria for grouping	12
2	Economic Sector - Role and challenges of Public sector, Co operative Sector, Joint Sector (Public and Private). Corporate Sector and Non Government organizations. Industrial Policy, Foreign Investment Policy, Current Foreign Policy, Joint ventures, drafting of agreement	12
3	Business Practices and Government Policies - Importance - Role of Trade. Commerce & Industry, Outsourcing - franchising -Turn key Management - Important Features of current labour policy. Indian joint ventures abroad & Indian experiences.	12
4	Recent Trends in Service Sector, Banking Sector - ATM Debit & Credit Cards Internet Banking etc. Insurance Sector - Malhotra Committee Report - Opening of insurance sector for private players. Logistics - Net working – Importance - Challenges.	12

SECOND TERM

Unit No.	Name of the Topic	Periods
1	Security Market Stock Exchange –Introduction of stock exchanges in India, Online Trading, Working of Stock Exchange, Trading through NSDL, Role of SEBI, Protection & Education of Investors. SEBI & Its Guidelines.	12
2	Commodity Exchange & its working - History & overview, terms used of Commodity Market - working & procedure followed in commodity exchanges, future of commodity exchanges. Study of regional & local commodity market.	12
3	Business Ethics	



	Nature, purpose of ethics and morals for organizational interests; ethics and conflicts of interests; ethical and social implications of business policies and decisions; Corporate Social Responsibility; ethical issues in Corporate Governance. Ethics in Accounting and Finance	
4	Basic Concepts in Commerce Study of following terms & concepts used in recent field of commerce	12.

Sr. No.	Terms / Concepts	Meaning
1	Affidavit	A declaration in writing made on oath.
2	Automation	Use of automatic machinery in industries / organizations.
3	Assimilation	Joining the culture of two or more activities / organizations.
4	Agmark	A mark showing standard / quality of agriculture produce.
5	B P O	Business Process Outsourcing
6	Benchmarking	A level or standard in a scale against which performance can be evaluated. It is a method of job evaluation
7	Body Shopping	A consultancy supplying people at work contract basis.
8	Brand Equity	Goodwill attached to name
9	Bank rate	It is the rate at which the central bank of a country grants credit to the other banks.
10	Capital Intensive	Those industrial activities where the preparation of fixed capital is more than the other factors of production like land, labour, etc.
11	Consortium	A combination of large number of bidder to fulfill the contract deal.
12	Consumer Delight	Consumer's complete satisfaction.
13	Credit rating	Assessment of credit worthiness of an organization by external agency.
14	Credit squeeze	It is state's interference to regulate the level of economic activity by reducing the money supply. In other words, it is an effort of making credit more expensive through controls on bank.
15	Corporate Governance	Accountability of the managers / directors of a company. The recent provision about the listed companies required them to comply with the through annual accounts & reports.
16	Consumerism	A materialistic attitude of consumers of consuming maximum without any consideration of future.
17	Dis-Investment	A policy of the government of gradually withdrawing the investments of public funds from a public sector unit.
18	Distributive negotiation	A term used in personal management of a trade unions approach for solving disputes.
19	Dumping & antidumping	A policy of capturing slice of market by pouring a huge stock a policy of the government of prohibiting the capturing of market by way of dumping.
20	Depository	A system whereby the shares can be lodged physically & need not be handled in the course of transaction.
21	EXIM	Policy regarding import & exports.
22	E-Commerce	Commercial activities with help of electronic devices.
23	Factoring	Taking responsibility of collecting accounts receivable.

24	Franchise	An agency given for distribution of manufactured products.
25	Fringe benefit	A reward beyond the basic pay for the job.
26	Globalization	A process of world market open to local markets.
27	Grapevine	The informal communication of an organization many times more effective than the formal one.
28	Hacking	The unauthorized breaking into data base of a computer.
29	Hedging	Protecting oneself against the financial loss.
30	Internal customer	One department within an organization becoming customer of another.
31	Entrepreneurship	Entrepreneurship is developed from a particular organization.
32	ISO	International Organization of Standard's.
33	ISI	Indian Standard Institute.
34	Internet Banking	Banking activities with the help of internet service.
35	Just in Time	A system of procuring inventory as & when required.
36	Knowledge worker	A worker working in modern society with lot of areas of knowledge.
37	Kaizen	The Japanese concept of continuous improvement.
38	Labour intensive	An organization or an activity mainly relying on labour force as it's investment / capital.
39	Learning organization	An organization where the worker's are always wanting to learn.
40	Liberalization	An economic policy of allowing foreign players to enter the local markets in competition with the indigenous ones.
41	Logistics	A term originally used in military organizations, for moving of troops & equipments, it refers to the detailed planning of the process of distribution or redistribution.
42	Mutual Funds	A method of raising finance for investing in some other capital issues.
43	Mission	An organization goal / objective behind it's establishment.
44	Market niche	A unique place of gap in the market for a given product.
45	Mergers & Acquisitions	Mergers in a combination of two or more business to share risk & rewards no one party to obtain control over the other. Acquisition is the acquiring of share of a company by another by paying purchase consideration as a fair value.
46	Non performing assets	An asset created but not showing any results (a banking asset created by way of loans / advances now becoming unrecoverable).
47	Niche strategy	A marketing strategy adopted for a small segment.
48	Negotiable Instrument	An instrument in commercial transactions recognized by the Negotiable Instrument Act.
49	Organizational Behaviour	A branch of personal management considering interperson & behavioral aspects.
50	Outsourcing	A policy of an organization of depending on external agency for a functional area.
51	Organizational Development	Efforts made for the development of human factor in an organization.
52	Patent	A right on a product or invention claiming its originality or know-how.
53	Primary Market	The Market where the first sale of securities made by way of an offer from the corporate body to the investors.
54	Portfolio	A branch of financial management dealing with the investment.

	Management	organization.
55	Public Relations	Efforts made by an organization of establishing report with the stake holders & the general public.
56	Privatization	A policy of the state of disinvestments in the public sector organization by offering its shares to the public at large.
57	Quality circle	A small group of individuals of an organization, trying to solve there practical problems.
58.	Recession	A phase in an economy when there is sharp decline of demand for goods & services.
59	Sensex	Sensitive index number of a stock market.
60	Subsidy	A financial support provided by the government.
61	Security market	A market where the corporate securities i.e. shares are bought & sold.
62	Surrender value	It is the left our value that the insurance company is expected to pay.
63	Speed capital	It is the initial amount of capital required for any business to invested by the owner.
64	Service Organization	An organization establish for rendering service is support of trade.
65	SWOT analysis	An analysis of an individual or organization about the strength, weaknesses, opportunities & Threads.
66	TQM	Total Quality Management.
67	Trade Cycle	A recurring sequence of changes in business activity, indicating period of prosperity, decline, depression etc.
68.	Trade mark	A mark / logo of an organization treated as official seal.
69	Technology transfer	The transfer of a technology from an area in which it had been successfully applied to an area, which it has not yet been tried.
70	Tele Conferencing	A discussion of participants, geographically scattered
71	Underwrite	To ensure or guarantee to purchase the stock of shares.
72	Value Addition	Increase in the value of an item by adding inputs on it.
73	WTO	World Trade Organization established in 1995.
74	Yellow page	A pace reserved for commercial advertisers.
75	Zero based budgeting	The use of budgets which starts from a present base of zero and regard all items as being new rather than in continuation of existing ones. In practice, this means a budget has to justify each of expenditure every year.

Recommended Books

RECOMMENDED BOOKS AND PERIODICALS.

1. Financial Management – I. M. Pandey.
2. Financial Management – Theory & practical – Prasanna Chandra
3. Financial Management – S. C. Kuchhal
4. Public Sector in India – Laxmi Nariyan
5. Indian Economy – Rudder Datt
6. Indian Economy – KPM Sundaram
7. Law & practice of banking – S. R. Davar
8. Chamber of Commerce and Trade Association in India – Dr. R. Sabade & M. V. Nandoshi
9. The Indian Financial System – Vasant Desai
10. Business Administration – Dr. Y. K. Bhushan
11. Stock exchange Official Directory – The Bombay Stock exchange



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Journals & Periodicals

1. World of Business and – The Maharashtra Chamber Of Commerce, Industries & Agriculture, Pune
2. Sampada Chamber patrika – The Maharashtra Chamber of Commerce & Industries, Mumbai
3. Vanijya Vishwa – Pune Merchants Chamber, Pune



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UNIVERSITY OF PUNE
Revised structure of Syllabus for B.A. Geography to be effective from

F.Y.B.A. – June, 2013

S.Y.B.A. – June, 2014

T.Y.B.A. – June, 2015

F.Y.B.A.		
G-1	Gg-110	Elements of Geomorphology

S.Y.B.A.		
G-2	Gg-210	Elements of Climatology and Oceanography
		OR
G-2	Gg-210	Geography of Disaster Management
S-1	Gg-220	Economic Geography
		OR
S-1	Gg-220	Tourism Geography
S-2	Gg-201	Fundamentals of Geographical Analysis




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University of Pune
First Year B.A.
History General Paper No. 1
Chh. Shivaji and His Times
(1630 – 1707)

Objectives :

To Introduce innovative study techniques in the study of History of Maratha to make it value based, conceptual and thought provocative. To introduce International elements in the study of Marathas to facilitate comparative analysis of this history. To highlight the importance of past in exploration of present context. To understand the Socio –economic, cultural and political background of 17th century Maharashtra. To increase the spirit of healthy Nationalism & Secularism among the student. To encourage student s to for competitive examinations. To promote interest in the discipline of History. Suggesting the Importance of References.

First Term-

1. Sources.

10

A) Literary Sources.

- 1) Sanskrit
- 2) Marathi
- 3) Hindi
- 4) Persian

B) Foreign Sources.


- 1) Portuguese
- 2) Dutch
- 3) French
- 4) English

C) Travellers Accounts.

2. Conceptual study of Chh. Shivaji and his times.

- 1) Bhakti.
- 2) Watan
- 3) Saranjam .
- 4) Mansab
- 5) Jahagir
- 6) Jizya
- 7) Guerrilla Warfare
- 8) Maharashtra Dharma




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- | | |
|---------------|-------------------|
| 9) Shiledars | 10) Swarajya |
| 11) Chauth | 12) Inam |
| 13) Baragirs. | 14) Sardeshmukhi. |

3. Rise and Consolidation of Maratha power. 13

- 1) Establishment of the Swarajya
- 2) Shivaji - Adilashahi Relations
- 3) Shivaji - Mughal Relations
- 4) Shivaji's Coronation.
- 5) Karnataka Expedition.

4. Administration Under Chh. Shivaji 8

- 1) Central
- 2) Provincial
- 3) Military
- 4) Judiciary.

5. Chh. Shivaji & Foreign Powers. 10

- 1) Portuguese.
- 2) Dutch.
- 3) French.
- 4) British.

Second Term.

6. Chh. Sambhaji's Achievements 10

- 1) Consolidation of power.
- 2) Relations with Mughals.
- 3) Relations with Foreign Powers.
- 4) Evaluation.

7. Maratha War of Independence . 10

- 1) Chh. Rajaram and his Achievements
- 2) Maharani Tarabai & her Achievements
- 3) Contribution of Santaji Ghorpade, Dhanaji Jadhav & Ramchandra Pant Amatya.



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8. Social Life.

10

1) Gavgada.

2) Woman

3) Religious

9. Economic Life.

10

1) Agriculture And Revenue System

2) Sources of income

3) Trade & Commerce

4) Currency

10. Arts & Architecture .(Special Ref. to Temple, Gadhi, and Forts)

8

Books for Study :

1. M.G. Ranade-Rise of the Maratha Power.
2. G.S. Sardesai-New History of the Marathas, Vols. I, II and III.
3. J.N. Sarkar-Shivaji and His Times.
4. S.N. Sen-Administrative System of the Marathas.
5. S.N. Sen-Military System of the Marathas.
6. Nadkarni R. V. -Rise and fall of the Maratha Empire.
7. Sarkar J.N.-House of Shivaji.
8. Dr. Balkrishna – Shivaji the Grate.
9. Pagadi Setu Madhavrao – Chh. Shivaji

मराठी ग्रंथ :

१. अ.रा. कुलकर्णी व ग.ह. खरे (संपा.)—मराठ्यांचा इतिहास, खंड १ त ३.
२. प्र.न. देशपांडे—मराठी सत्तेचा उदय आणि उत्कर्ष.
३. वा.कृ. भावे—शिवराज्य व शिवकाल.
४. वेद्रे, वा.सी. — शिवाजी महाराजांचे विधीनिकटवर्त चरित्र
५. रामचंद्र पंत अमात्य — आज्ञापत्र.



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६. सौ.कमल गोखले — शिवपुत्र संभाजी.
७. काळे, दि.वि.—छत्रपती शिवाजी महाराज.
८. शहा, जी.बी. — उपेक्षित दुर्ग, भाग एक व दोन
९. तांबोळी, एन.एस. — मराठ्यांचा इतिहास
१०. चिटणिस, कृ.ना. — मध्ययुगीन भारतीय संस्था व संकल्पना, खंड १ ते ४.
११. पवार जयसिंगराव — मराठी सत्तेचा उदय व उत्कर्ष
१२. सावंत, व जाधव — मराठ्यांचा प्रशासकिय, सामाजिक व आर्थिक इतिहास
१३. कदम उमेश — मराठा—फ्रेंच संबंध
१४. पिसुर्लेकर पांडुरंग — मराठा—पोर्तुगीज संबंध
१५. बेंद्रे. वा.सी. — छत्रपती संभाजी महाराजांचे विचिकित्सक चरित्र
१६. पवार जयसिंगराव — महाराणी ताराबाई
१७. शिवदे सदाशिव — महाराणी ताराबाई
१८. पवार जयसिंगराव — संताजी घोरपडे स्मारक ग्रंथ
१९. कुलकर्णी, अ.रा. — शिवकालीन महाराष्ट्र
२०. माटे, म.श्री. — मराठे कालीन वास्तुकला
२१. पाटील आर.ए. — मराठ्यांचा इतिहास
२२. सरदेसाई गो.स. — मराठी रियासत, खंड १ ते ३
२३. कठारे अनिल व घोडके जयश्री — शिवकालीन महाराष्ट्र




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University of Pune

First Year B.A.

History of Civilization : Cultural History of Maharashtra (upto 13th century)

Objectives

1. To introduce the student to the culture of Maharashtra from ancient times onwards.
2. To create a sense of pride in the student about his cultural tradition.
3. To highlight how this regional cultural identity forms a part of the main flow of the Indian cultural tradition.
4. To restructure the value based syllabus.
5. To get acquainted with basic concepts, theories and methodology of social philosophy.
6. New thoughts, trends and ideologists should be included and knowledge extension needs to be taken into consideration.

First Term

12

1. Civilization

1. Concept & scope of civilization
2. Geographic identity of Maharashtra
3. Nomenclature of Maharashtra
4. Origin of Marathi language

2. Maharashtra Culture

12

1. Concept & scope of civilization
2. Cultural identity of Maharashtra
3. Proto historic culture – Dayamabad, Nevase, Inamgaon
4. Megalithic culture

3. Political outline

12

1. Satvahan
2. Vakatak
3. Rashtrakut
4. Chhatrap
5. Shilahar
6. Yadav



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4. Social Life 12
1. Caste System
 2. Village Life
 3. Position of Women
 4. Fairs & Festivals

Second Term

5. Economic life 12
1. Agriculture
 2. Trade and commerce
6. Art and Architecture 12
1. Sculpture, Painting, Folk Arts
 2. Caves, Forts and temples
7. Bhakti Cult – Philosophy and teaching 12
1. Nath
 2. Mahanubhav
 3. Varkari
 4. Shakti
8. Literature – A brief survey 12
1. Sanskrit, Spl. Ref. to Manassollas
 2. Prakrit, Spl. Ref. to Gatha Saptshati
 3. Apabramsha, Spl. Ref. to Jain Agam
 4. Marathi, Spl. Ref. to Jyotish Ratnamala, Lila Charitra, Vivek Sindu


Books for Study :

1. Gokhale B.G., Buddhism in Maharashtra, Popular Prakashan, Mumbai, 1976.
2. Mate M.S., Maratha Architecture, Mansanman Publication, Pune.

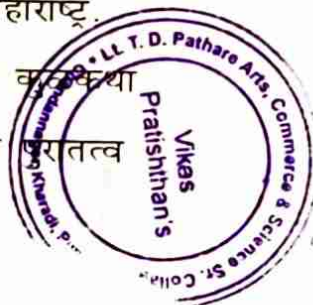
मराठी.

१. जोगळेकर ग.ना. (संपा), गाथासप्तशती
२. साखरे विजया — वाकाटक काला




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३. साखरे विजया — पुरातत्व विद्या.
४. कठारे अनिल व साखरे विजया — भारतीय कलेचा इतिहास.
५. कुलकर्णी गो.त्रं., मध्ययुगीन महाराष्ट्राचा इतिहास इ.स. १२९६-१६३६, महाराष्ट्र राज्य साहित्य संस्कृती मंडळ, मुंबई, २००१.
६. केतकर श्री.व्यं., प्राचीन महाराष्ट्र, वरदा प्रकाशन, पुणे, १९८९.
७. जाधव रा.ग. संपा., विचारशिल्प, कॉन्टिनेन्टल प्रकाशन, पुणे, १९९४.
८. जोशी महादेवशास्त्री, गाजती दैवते, ज्ञानराज प्रकाशन, पुणे १९५९.
९. जोशी वसंत (संपा.), मराठी संस्कृती काही समस्या, व्हीनस प्रकाशन, पुणे १९८०.
१०. डिसकळकर द.बा., महाराष्ट्राचा प्राचीन इतिहास आणि संस्कृति, पुणे विद्यापीठ, पुणे, १९६७.
११. ढेरे रा.चिं., नाथ संप्रदायाचा इतिहास, पद्मगंधा प्रकाशन, पुणे, २००१.
१२. ढेरे रा.चिं., महाराष्ट्राचा देव्हारा, विश्वकर्मा प्रकाशन, पुणे १९७६.
१३. तुळपुळे शं.गो., प्राचीन मराठी कोरीव लेख, पुणे विद्यापीठ प्रकाशन, पुणे, १९६३.
१४. दांडेकर गो.नी., महाराष्ट्र दर्शन, मृण्मयी प्रकाशन, पुणे, २००१.
१५. पाठक अ.शं. संपा., इतिहास: प्राचीन काळ खंड १, दर्शनिका विभाग, मुंबई २००२.
१६. पाठक अ.शं. संपा., महाराष्ट्र: इतिहास प्राचीन काळ खंड १, भाग २ स्थापत्य व कला, दर्शनिका विभाग, मुंबई २००२.
१७. माटे म.श्री., प्राचीन भारतीय कला, कॉन्टिनेन्टल प्रकाशन, पुणे.
१८. सोवनी म.वि., महाराष्ट्राच्या कालमुद्रा, नितीन प्रकाशन, पुणे, १९८३.
१९. सहस्रबुध्दे पु.ग., महाराष्ट्र संस्कृती, कॉन्टिनेन्टल प्रकाशन, पुणे, १९७९.
२०. शेणोलीकर ह.श्री. व देशपांडे प्र.न. — महाराष्ट्र संस्कृती.
२१. पानसे मु.ग. — यादवकालीन महाराष्ट्र.
२२. ढवळीकर म.के. — महाराष्ट्राची कलेचा इतिहास.
२३. सांकलिया (संपा) — महाराष्ट्राचे पुरातत्व



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२४. देव शं.भा. — पुरातत्व विद्या
२५. ढवळीकर म.के. — महाराष्ट्राची पुरातत्व विद्या.
२६. अत्रे शुभांगणा — महाराष्ट्र संस्कृती.
२७. गोखले शोभना — पुराभिलेख विद्या.
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Equivalence of Syllabus in Geography (S.Y.B.A.)

Effective from June 2014

Old Syllabus (June 2009)		New Syllabus (June 2014)		Equivalent (Yes/ No)
Gg-210	Geography of Human Resources	Gg-210	Elements of Climatology and Oceanography	No
Gg-210	Geography of Natural Hazards	Gg-210	Geography of Disaster Management	Yes
Gg-220	India: A Geographical Analysis	Gg-220	Economic Geography	No
Gg-220	China: A Geographical Analysis	Gg-220	Tourism Geography	No
Gg-201	Fundamentals of Geographical Analysis	Gg-201	Fundamentals of Geographical Analysis	Yes




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Structure /Pattern of syllabus- S.Y.B.A

1. Title of the course – **Gg- 210- Elements of Climatology and Oceanography (G-2)**

2. Preamble of the syllabus

- i. To introduce the students to the basic principles and concepts in Climatology and Oceanography.
- ii. To acquaint the students with the applications of Climatology and Oceanography in different areas and environment.
- iii. To make the students aware of the Planet Earth and thereby to enrich the student's knowledge.

3. Introduction: Pattern –**Annual (20 marks internal, 80 marks University)**

4. Eligibility- **F.Y.B.A. pass**

5. Examination-

A. Pattern of examination-

i. Internal term end and University exam,

ii. Pattern of question paper- 20 : 80

Internal Exam- 60 Marks = (converted to 20 marks)

University Exam- 80 Marks =

B. Standard of passing- **Internal -08- University -32= Annual marks 40**

C. ATKT rules- Yes

D. Award of class- **S.Y.B.A. Pass**

E. External students- **S.Y.B.A. Pass**

F. Setting of question papers / pattern of question paper

Internal Exam- 60 Marks = (converted to 20 marks)

Question 1. Answers in 20 words- 14marks (any 7 out of 10)

Question 2. Answers in 50 words -08 marks (any 2 out of 4)

Question 3. Answers in 150 words- 18 marks (any 3 out of 5)

Question 4. Answers in 300 words- 20 marks (any 1 out of 2)

University Exam- 80 Marks =

Question 1. Answers in 20 words- 20 marks (any 10 out of 15)

Question 2. Answers in 50 words -10 marks (any 2 out of 4)

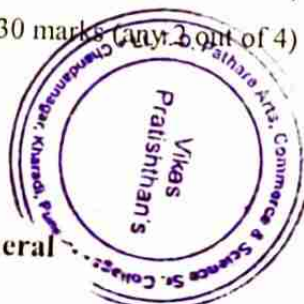
Question 3. Answers in 150 words- 20 marks (any 2 out of 4)

Question 4. Answers in 300 words- 30 marks (any 1 out of 4)

G. Verification / Revaluation- Yes

6. Structure of the Course

a. Compulsory paper- **S.Y.B.A. General**



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- b. Optional paper- **Yes**
- c. Question paper and papers etc - **One**
- d. Medium of instructions- **Marathi and English**
- 7. Equivalence of previous syllabus along with propose syllabus- **yes**
- 8. University terms- **Annual**
- 9. Subject wise detail syllabus – **As per attached sheets**
- 10. Recommended books- **Mentioned in Syllabus**

Qualification of teacher- **M.A./M.Sc (Geography), as per UGC and University norms**




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Structure /Pattern of Syllabus- S.Y.B.A

1. Title of the course – **Gg- 210- Geography of Disaster Management (G-2)**

2. Preamble of the syllabus

- i. To introduce students the concept of disaster & its relation with Geography.
- ii. To acquaint the students with the utility & application of hazards in different areas & its management.
- iii. To make the students aware of the need of protection & disaster management.

3. Introduction: Pattern –**Annual (20 marks internal; 80 marks University)**

4. Eligibility- **F.Y.B.A. pass**

5. Examination-

A. Pattern of examination-

- i Internal term end and University exam,
- ii. Pattern of question paper- 20 : 80

Internal Exam- 60 Marks = (converted to 20 marks)

University Exam- 80 Marks =

B. Standard of passing- Internal -08, University -32= Annual marks 40

C. ATKT rules- Yes

D. Award of class- S.Y.B.A. Pass

E. External students- S.Y.B.A. Pass

F. Setting of question papers / pattern of question paper:

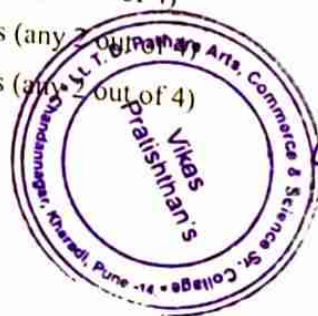
Internal Exam- 60 Marks = (converted to 20 marks)

- Question 1. Answers in 20 words- 14 marks (any 7 out of 10)
- Question 2. Answers in 50 words -08 marks (any 2 out of 4)
- Question 3. Answers in 150 words- 18 marks (any 3 out of 5)
- Question 4. Answers in 300 words- 20 marks (any 1 out of 2)

University Exam- 80 Marks =

- Question 1. Answers in 20 words- 20 marks (any 10 out of 15)
- Question 2. Answers in 50 words -10 marks (any 2 out of 4)
- Question 3. Answers in 150 words- 20 marks (any 2 out of 4)
- Question 4. Answers in 300 words- 30 marks (any 2 out of 4)

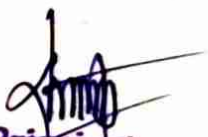
G. Verification / Revaluation- Yes




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6. Structure of the Course
 - a. Compulsory paper- **S.Y.B.A. General**
 - b. Optional paper- **Yes**
 - c. Question paper and papers etc - **One**
 - d. Medium of instructions- **Marathi and English**
 7. Equivalence of previous syllabus along with proposed syllabus- **Yes**
 8. University terms- **Annual**
 9. Subject wise detail syllabus – **As per attached sheets**
 10. Recommended books- **Mentioned in Syllabus**
- Qualification of teacher- **M.A./M.Sc (Geography), as per UGC and University norms**




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Structure /Pattern of Syllabus- S.Y.B.A

1. Title of the course – **Gg- 220- Economic Geography (S-1)**
2. Preamble of the syllabus
 - i. To introduce the students to the basic principles and concepts in Economic Geography
 - ii. ~~To acquaint the students with the applications of Economic Geography in~~ different areas and development.
 - iii. The main aim is to integrate the various factors of economic development and to acquaint the students about this dynamic aspect of economic geography
3. Introduction: Pattern –**Annual (20 marks internal, 80 Marks University)**
4. Eligibility- **F.Y.B.A. pass**
5. Examination-
 - A. Pattern of examination-
 - i **Internal term end and University exam,**
 - ii. **Pattern of question paper- 20 : 80**

Internal Exam- 60 Marks = (converted to 20 marks)

University Exam- 80 Marks =

B. Standard of passing- Internal -08, University -32= Annual marks 40

C. ATKT rules- Yes

D. Award of class- S.Y.B.A. Pass

E. External students- S.Y.B.A. Pass

F. Setting of question papers / pattern of question paper:

Internal Exam- 60 Marks = (converted to 20 marks)

Question 1. Answers in 20 words- 14 marks (any 7 out of 10)

Question 2. Answers in 50 words -08 marks (any 2 out of 4)

Question 3. Answers in 150 words- 18 marks (any 3 out of 5)

Question 4. Answers in 300 words- 20 marks (any 1 out of 2)

University Exam- 80 Marks =

Question 1. Answers in 20 words- 20 marks (any 10 out of 15)

Question 2. Answers in 50 words -10 marks (any 2 out of 4)

Question 3. Answers in 150 words- 20 marks (any 2 out of 4)

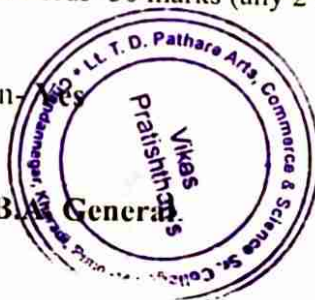
Question 4. Answers in 300 words- 30 marks (any 2 out of 4)

G. Verification / Revaluation- Yes

6. Structure of the Course

a. Compulsory paper- S.Y.B.A. General

b. Optional paper- Yes




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- c. Question paper and papers etc - **One**
- d. Medium of instructions- **Marathi and English**
- 7. Equivalence of previous syllabus along with propose syllabus- **yes**
- 8. University terms- **Annual**
- 9. Subject wise detail syllabus – **As per attached sheets**
- 10. Recommended books- **Mentioned in Syllabus**

Qualification of teacher- **M.A./M.Sc (Geography), as per UGC and University norms**




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Revised Course Structure of English

S. Y. B. A. Special Paper-I (S-1) (w. e. f- 2014- 2015)

Title of the Paper: Appreciating Drama

(1) Objectives:

1. To acquaint and familiarize the students with the terminology in Drama Criticism (i.e. the terms used in Critical Analysis and Appreciation of Drama)
2. To encourage students to make a detailed study of a few sample masterpieces of English Drama from different parts of the world
3. To develop interest among the students to appreciate and analyze drama independently
4. To enhance students awareness in the aesthetics of Drama and to empower them to evaluate drama independently

(2) Course content:

A) Theory of Drama

- (a) What is Drama?
- (b) Elements of Drama: Theme, Characters, Plot, Dialogue, Stage Properties, The Three Unities, Conflict, Elements of Structure
- (c) Types of Drama: Tragedy, Comedy, Tragi-Comedy, Problem Plays, Absurd Drama
- (d) In addition, other terms related to Drama be considered for background study

- B) Texts:** 1) *The Merchant of Venice*- William Shakespeare
2) *A Doll's House*- Henrik Ibsen
3) *The Old Stone Mansion*- Mahesh Elkunchwar

Term-wise division of the syllabus:

Term-I- A. Theory of Drama

- B. Text-1) *The Merchant of Venice*- William Shakespeare

- Term-II- Texts:** 2) *A Doll's House*- Henrik Ibsen
3) *The Old Stone Mansion*- Mahesh Elkunchwar



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Question Paper Pattern (Term-End Exam)

Time:- Two Hours

- | | |
|--|-------------------------|
| Q.1) Questions on the theory of drama. (3 out of 5) | Total Marks:- 60 |
| Q.2) Questions on the theory of drama. (3 out of 5) | Marks 12 |
| Q.3) Questions on 'The Merchant of Venice'. (1 out of 2) | Marks 12 |
| Q.4) Questions on 'The Merchant of Venice'. (2 out of 3) | Marks 12 |
| Q.5) Practical questions on the application of theory of the drama prescribed (4 out of 6) | Marks 12 |

Question Paper Pattern (Annual Exam)

Time:- Three Hours

- | | |
|---|-------------------------|
| Q.1) Questions on the theory of drama. (4 out of 6) | Total Marks:- 80 |
| Q.2) Questions on 'The Merchant of Venice'. (1 out of 2) | Marks 16 |
| Q.3) Questions on 'A Doll's House'. (2 out of 3) | Marks 16 |
| Q.4) Questions on 'The Old Stone Mansion'. (2 out of 3) | Marks 16 |
| Q.5) Practical questions on the application of theory of the drama prescribed (8 out of 10) | Marks 16 |




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Revised Course Structure of English

S. Y. B. A Special Paper-II (S-2) (w. e. f- 2014- 2015)

Title of the Paper: Appreciating Poetry

(1) Objectives:

1. To acquaint and familiarize the students with the terminology in poetry criticism (i.e. the terms used in critical analysis and appreciation of poems)
2. To encourage students to make a detailed study of a few sample masterpieces of English poetry
3. To enhance students awareness in the aesthetics of poetry and to empower them to read, appreciate and critically evaluate the poetry independently

(2) Course Content:

A) Theory of Poetry

- (a) What is poetry? Significant development in the art of poetry during major periods
- (b) Elements of poetry: Rhythm, Metre, Sound structure, Stanza Forms,
- (c) Figures of Speech, Symbols, Imagery, and other Poetic Devices like Repetition, Contrast.
- (d) Types of poetry: Elegy, Sonnet, Dramatic Monologue, Lyric, Ode, Ballad

B) Prescribed Text: *Auroral Musings: An Anthology of English Poetry*
Ed. Board of Editors, Orient Blackswan

Introduction


1. The Ballad of Sir Patrick Spens
2. *Edmund Spenser*
Men Call You Fair
3. *Sir Philip Sidney*
O Grammar Rules
4. *William Shakespeare*
Sonnet 130
5. *John Donne*
Broken Heart
Batter My Heart
6. *Andrew Marvell*
The Coronet
The Definition of Love




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7. **John Milton**
The Invocation' (an excerpt from *Paradise Lost*)
On His Blindness
8. **John Dryden**
Alexander's Feast: or the Power of Music; An Ode in Honor of St Cecilia's Day
9. **Alexander Pope**
Excerpt from Canto 1 of *Rape of the Lock*, 'Toilet Scene'
10. **Thomas Gray**
Ode on the Death of a Favourite Cat, Drowned in a Tub of Gold Fishes
11. **William Wordsworth**
Expostulation and Reply
The Tables Turned
A Slumber did my Spirit Seal
12. **Samuel Taylor Coleridge**
The Nightingale
Kubla Khan: A Vision in Fragments
13. **P. B. Shelley**
Ode to the West Wind
14. **John Keats**
La Belle Dame Sans Merci
Ode to Autumn
15. **Alfred, Lord Tennyson**
Ulysses
16. **Robert Browning**
My Last Duchess
17. **Matthew Arnold**
Dover Beach
18. **Dante Gabriel Rossetti**
The Blessed Damozel
19. **Thomas Hardy**
The Oxen
To an Unborn Pauper Child
20. **G.M Hopkins**
Pied Beauty
God's Grandeur
21. **W. B. Yeats**
Sailing to Byzantium
22. **Ralph Waldo Emerson**
Brahma
23. **Walt Whitman**
A Noiseless Patient Spider




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24. Emily Dickinson

Because I Could Not Stop for Death

Term-wise division of the syllabus:

Term-I

1. Theory of poetry
2. From- Auroral Musings: 01 to 10

Term-II

From- Auroral Musings: 11 to 24

Question Paper Pattern (Term-End Exam)

Textbook:- Auroral Musings

Time:- Two Hours

Total Marks:- 60

- Q 1- Questions on the theory of poetry (3 out of 5) [12]
Q 2- Practical questions on the application of theory to the poems prescribed (4 out of 6) [12]
Q 3- Theme-based questions on the poems prescribed (2 out of 3) [12]
Q 4- Theme-based questions on the poems prescribed (2 out of 3) [12]
Q 5- Reference to context (3 out of 5) [12]

Question Paper Pattern (Annual Exam)

Time:- Three Hours

Total Marks:- 80

- Q-1- Questions on the poems prescribed for the first term (3 out of 5) [16]
Q 2- Questions on the poems prescribed for the first term (3 out of 5) [16]
Q 3- Practical questions on the application of theory to the poems prescribed for the second term (2 out of 3) [16]
Q 4- Theme-based questions on the poems prescribed for the second term (2 out of 3) [16]
Q 5- Reference to context- poems prescribed for the second term (4 out of 6) [16]



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Structure /Pattern of Syllabus- S.Y.B.A

Title of the course – Gg- 201- FUNDAMENTALS OF GEOGRAPHICAL ANALYSIS (S-2)

11. Preamble of the syllabus

- i To enable the students to use various Projections and Cartographic Techniques.
- ii To acquaint the students with basic of Statistical data.
- iii To acquaint the students with the principles of surveying, its importance and utility in the geographical study.

12. Introduction: Pattern –Annual (100 marks University)

13. Eligibility- F.Y.B.A. pass

14. Examination-

H. Pattern of examination-

University Exam- 100 Marks =

I. Standard of passing- University - Annual marks 40

J. ATKT rules- Yes

K. Award of class- S.Y.B.A. Pass

L. External students-No

M. Setting of question papers / pattern of question paper

University Exam- 100 Marks = As per scheme of marking

N. Verification / Revaluation- No

15. Structure of the Course

e. Compulsory paper- S.Y.B.A.

f. Optional paper- No

g. Question paper and papers etc – As per batch

h. Medium of instructions- Marathi and English

16. Equivalence of previous syllabus along with propose syllabus- yes

17. University terms- Annual

18. Subject wise detail syllabus – As per attached sheets

19. Recommended books- Mentioned in Syllabus

Qualification of teacher- M.A./M.Sc(Geography), as per UGC and University norms



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Structure /Pattern of Syllabus- S.Y.B.A.

(From June 2014)

1. Title of the Course – **Gg- 220- Tourism Geography (S-1)**

2. Preamble of the Syllabus

- i. To acquaint the student's basic concepts of Geography & Tourism.
- ii. To aware the students with the utility and application of Tourism.
- iii. To help the students & society to understand the interrelationship between tourism and employment generation opportunities.
- iv. To understand the impact of tourism on Physical and Human Environments.

3. Introduction: Pattern –**Annual (20 marks internal; 80 marks University)**

4. Eligibility- F.Y.B.A. pass

5. Examination-

A. Pattern of examination-

i (Internal term end and University exam),

ii. Pattern of question paper- 20 : 80

Internal Exam- 60 Marks = (converted to 20 marks)

University Exam- 80 Marks =

B. Standard of passing- Internal -08, University -32 = Annual marks 40

C. ATKT rules- Yes

D. Award of class- S.Y.B.A. Pass

E. External students- S.Y.B.A. Pass

F. Setting of question papers / pattern of question paper

Internal Exam- 60 Marks = (converted to 20 marks)

Question 1. Answers in 20 words- 14 marks (any 7 out of 10)

Question 2. Answers in 50 words -08 marks (any 2 out of 4)

Question 3. Answers in 150 words- 18 marks (any 3 out of 5)

Question 4. Answers in 300 words- 20 marks (any 1 out of 2)

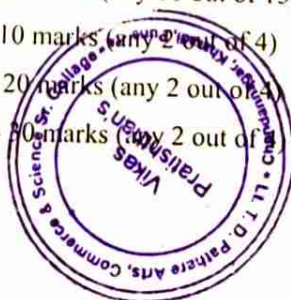
University Exam- 80 Marks =

Question 1. Answers in 20 words- 20 marks (any 10 out of 15)

Question 2. Answers in 50 words -10 marks (any 2 out of 4)

Question 3. Answers in 150 words- 20 marks (any 2 out of 5)

Question 4. Answers in 300 words- 20 marks (any 2 out of 3)



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G. Verification / Revaluation- Yes

6. Structure of the Course

a. Compulsory paper- **S.Y.B.A. General**

b. Optional paper- **Yes**

c. Question paper and papers etc - **One**

d. Medium of instructions- **Marathi and English**

7. Equivalence of previous syllabus along with proposed syllabus- **No**

8. University terms- **Annual**

9. Subject-wise detail syllabus – **As per attached sheets**

10. Recommended books- **Mentioned in Syllabus**

Qualification of teacher- **M.A./ M.Sc (Geography), as per UGC and University norms**




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Structure /Pattern of Syllabus- S.Y.B.A

Title of the course – Gg- 201- FUNDAMENTALS OF GEOGRAPHICAL ANALYSIS (S-2)

Preamble of the syllabus

- i To enable the students to use various Projections and Cartographic Techniques.
- ii To acquaint the students with basic of Statistical data and diagrams.
- iii To acquaint the students with the principles of surveying, its importance and utility in the geographical study.

1. Introduction: Pattern –Annual (100 marks University)
2. Eligibility- F.Y.B.A. pass
3. Examination-
 - A. Pattern of examination-
University Exam- 100 Marks
 - B. Standard of passing- University - Annual marks 40
 - C. ATKT rules- Yes
 - D. Award of class- S.Y.B.A. Pass
 - E. External students- No
 - F. Setting of question papers / pattern of question paper-
University Exam- 100 Marks = As per scheme of marking
 - G. Verification / Revaluation- No
4. Structure of the Course
 - a. Compulsory paper- S.Y.B.A.
 - b. Optional paper- No
 - c. Question paper and papers etc – As per batch
 - d. Medium of instructions- Marathi and English
5. Equivalence of previous syllabus along with proposed syllabus- Yes
6. University terms- Annual
7. Subject wise detail syllabus – As per attached sheets
8. Recommended books- Mentioned in Syllabus

Qualification of teacher- M.A./M.Sc (Geography), as per UGC and University norms



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Gg 210: Elements of Climatology and Oceanography (G2)

Objectives:

1. To introduce the students to the basic principles and concepts in Climatology and Oceanography.
2. To acquaint the students with the applications of Climatology and Oceanography in different areas and environment.
3. To make the students aware of the Planet Earth and thereby to enrich the student's knowledge.

Section I - Climatology			
No.	Unit	Sub Units	Periods
1	Introduction to Climatology and Atmosphere	1. Definition, nature and scope 2. Importance of Climatology in modern times. 3. Weather and climate, elements of weather and climate 4. Composition and structure of the atmosphere	10
2	Insolation	1. Heat budget of the Earth. 2. Factors affecting horizontal distribution of temperature. 3. Inversion of temperature, lapse rate and its types. 4. Global warming.	8
3	Atmospheric Pressure and Wind System	1. Vertical and horizontal distribution of pressure. 2. Formation of pressure belts and their relation with winds. 3. Concept of pressure gradient. 4. Type of winds- planetary winds, periodic winds (Monsoon winds), local winds - land and sea breezes, mountain and valley winds. 5. El Niño and La Niña	10
4	Atmospheric Moisture and Precipitation	1. Sources of moisture, methods to express humidity of the air- absolute and relative humidity. 2. Forms of precipitation- rain, snow, dew, hail and fog. 3. Types of clouds- high, medium low clouds.	10
5	Atmospheric Disturbances	1. Cyclones- tropical and temperate and associated weather conditions. 2. Anticyclones and associated weather conditions.	7



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Section II – Oceanography			
6	Oceanography	1. Definition, nature and scope. 2. Relevance of Oceanography on earth	8
7	Submarine Relief	1. General idea of ocean relief. 2. Relief of Atlantic, Pacific and Indian oceans.	8
8	Properties of Ocean Water	1. Properties of ocean water- temperature, density. 2. Salinity- meaning and causes. 3. Salinity of oceans, seas, and lakes with examples.	10
9	Movements of Ocean Water	1. Waves- Characteristics of sea waves, tsunamis. 2. Ocean currents- meaning, causes, types. 3. Ocean currents of Atlantic, Pacific and Indian Oceans 4. Effects of ocean currents. 5. Tides- meaning, causes, types. 6. Equilibrium theory of tides.	12
10	Coastal Environment	1. Significance of Coastal Environment. 2. Oceans as Storehouse of Resources for the future	7

Reference Books:

- Critchfield, H.J., 1997. General Climatology, Prentice Hall of India Pvt. Ltd, New Delhi.
- Dasgupta, A. and Kapoor, A.N., Principles of Physical Geography.
- Grald, S., General Oceanography.
- Ttrewartha, G., Introduction to Weather and Climate.
- King, C.A.M., Oceanography for Geographers.
- Lake, P., Physical Geography.
- Lutgens, F.K. and Tarbuck, E.J., 2007. The Atmosphere, Pearson Prentice Hall,
- Pirie, R.G., Oceanography (Contemporary).
- Ross, D.A., 1988. Introduction to Oceanography. Prentice Hall, New Jersey.
- ~~Sharma, R.C. and Vatel, M.~~ **Oceanography for Geographers.**
- Strahler, A.A. and Strahler, A. N., 2002. Physical Geography: Science and Systems of the Human Environment, John Wiley and Sons, INC.
- Strahler, A.H. and Strahler, A. N., 1992. Modern Physical Geography, John Wiley and Sons, Inc.
- Strahler, A.N., 1965. Introduction to Physical Geography, John Wiley and Sons, INC.
- Ahirrao, W.R., Alizad, S.S. and Dhapte, C.S., 1998. Climatology and Oceanography, Nirali Prakashan, Pune.
- Bhagvat Arvind and Karlekar Shrikant : Prakrutik Bhuvidnyan
- Datye and Datye : Sugam Prakrutik Bhuvidyan.

Various websites of internet.



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Gg-210 Geography of Disaster Management (G2)

Objectives:-

- 1) To introduce students the concept of disaster & its relation with Geography.
- 2) To acquaint the students with the utility & application of hazards in different areas & its management.
- 3) To make the students aware of the need of protection & disaster management.

SECTION - I

Sr. No.	Topic	Sub Topic	Learning Points	Periods
1	Introduction to hazards, disasters	Definition and types	a) Meaning, definition, b) Geographical conditions and disasters c) Classification of disasters	10
2	Basic concepts in disaster management.	Terminology and concepts	a) Concept of management b) Aims and objectives c) Pre-disaster management d) Post – disaster management	12
3.	Disaster management and measures	Structural and Non -structural measures	a) Structure of disaster management -Preparedness, Response, Recovery, Mitigation, Rehabilitation b) Standard operating procedure of management on government level c) Role of media	13
4	Climatic disasters and their management	causes, effects, area and management	a) Cyclones as disasters b) Droughts as disasters c) Floods as disasters	10


SECTION – II

Sr. No.	Topic	Sub Topic	Learning Points	Periods
5	Geological and Geomorphic disasters and their management	Causes, effects, area and management	a) Earthquakes as disasters b) Landslides as disasters c) Tsunami as disasters	10
6	Anthropogenic disasters and their management	Trend, types, area, causes, effects and remedies.	a) Deforestation b) Forest fire as disasters c) Soil degradation d) Over exploitation of resources	12
7	Global issues and movements	Causes, effects and measures to conservation.	a) Global warming b) Ozone depletion c) Acid rain	10
8	Case-Studies of disaster Managements	Management of Indian and Global disasters	a) Tsunami Indian ocean -2004 b) Kerdarnath Cloud Burst -2013 c) Fukushima Nuclear disaster -2011 d) Had storm in Maharashtra -2014	13

Reference books:

1. Alexander David, 2000, Introduction in Confronting Catastrophe, Oxford University Press.
2. Alexander, D. (1993): Natural Disasters. UCL Press Ltd., London
3. Andharia J. 2008, Vulnerability in Disaster Discourse, JTCDM, Tata Institute of Social Sciences Working Paper no. 8.
4. Blakie, P. Cannon T, Davis I, Wisner B. 1997, At Risk Natural Hazards, People Vulnerability and Disasters Rourledge.
5. Bloom, A.L., 1998. Geomorphology. A Systematic Analysis of Late Cenozoic Landforms. Pearson Education (Singapore) Pte. Ltd.
6. Chandna, R. C., 2000. A Geography of Population, Concepts, Determinants and Patterns, Kalyani Publishers, New Delhi.
7. Copola P Damon, 2007, Introduction to International Disaster Management
8. Cuny, F. 1983, Development and Disaster, Oxford University Press.
9. Govt. of India, 2005, Disaster Management Act Government of India, New Delhi.
10. Hamblin, W.K., 1989. The Earth's Dynamic Systems, Macmillan Publishing Company, New York.
11. Huggett, D.A., 2004. Fundamentals of Biogeography, Routledge.
12. Kale, V.S. and Gupta, A., 2001. Introduction to Geomorphology, Orient Longman, Calcutta.
13. Knox, P. and Agnew J., 1998. The Geography of the World Economy, Arnold, London.
14. Lutgens, F.K. and Tarbuck, E.J., 2007. The Atmosphere. Prentice Hall, Englewood Cliffs, New Jersey, USA.
15. Ross, D. A., 1988. Introduction to Oceanography. Prentice Hall, New Jersey.
16. Saptarshi P. G., More J. C., Ugale V. R. (2009), "Geography and Natural Hazard" Diamond, Pune.
17. Savindra Singh, (2000): Environmental Geography. Prayag Pustak Bhavan, Allahabad
18. Singh, S., 1998. Geomorphology, Prayag Pustak Bhavan, Allahabad.
19. Strahler, A.A. and Strahler, A. N., 2002. Physical Geography: Science and Systems of the Human Environment, John Wiley and Sons, INC.
20. A.H.Choudhar ,P.N.Salve, S.M.Kadam,R.H.Choudhar,V.C.Ithape (2010), "Contemporary Issues and Geography",Atharva ,Pune.




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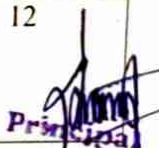
Gg 220: Economic Geography (S-1)

Objectives:

1. To introduce the students to the basic principles and concepts in Economic Geography
2. To acquaint the students with the applications of Economic Geography in different areas and development.
3. The main aim is to integrate the various factors of economic development and to acquaint the students about this dynamic aspect of economic geography.

Section I			
No.	Unit	Learning Points	Periods
1	Introduction to Economic Geography	1.Introduction, Definition and meaning 2.Nature and Scope 3. Recent trends of economic geography 4. Approaches to study of economic geography	10
2	Economic Activities	1.Sectors of Economy- Primary, Secondary and Tertiary with examples 2. Concept of More Developed, Developing and Less Developed countries. 3. Impact of economic activities on environment.	10
3	Natural Resources	1.Introduction, Meaning 2. Importance of Natural Resources 3. Classification of Natural Resources- Renewable and Non-renewable 4. Conservation of Resources	11
4	Minerals and Energy Resources	1.Classification of Minerals 2. Ferrous and Non-ferrous and their world distribution- Iron Ore, Manganese, Copper, Mica. 3. Energy Resources - (a) Conventional - Coal, Petroleum, Hydel and Atomic (b) Non-Conventional- Solar, Wind, Tidal, Energy from Solid Waste 4. Energy Crisis in India	14
Section-II			
5	Industries	1.Factors affecting on Industrial Location 2.Weber's Theory of Industrial Location 3.Major Industries a) Iron and Steel Industries	12




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		b) Cotton Textile Industries c) Automobile Industries d) Ship Building Industries e) Paper Industries	
6	Agriculture	1.Importance of Agriculture 2.Factors influencing agriculture- physical, economic, social, cultural 3. Spatial Distribution of major food and cash crops- Wheat, Rice, Maize, Rubber 4. Agricultural Classification- a) Subsistence Agriculture b) Commercial Grain Farming c) Plantation Agriculture d) Market Oriented Farming 5.Role of Agriculture in Indian Economy	12
7	Transport and Trade	1.Geographical factors influencing Development of Transportation. 2. World Distribution of Roads, railways, waterways, airways and pipelines. 3. Factors Influencing on International Trade. 4. Ricardo's Classical Theory 5. World Trade Organisation (WTO), OPEC	12
8	Economic Development in India	1.Economic Development in Pre and Post-independence period. 2. Impact of Green Revolution 3.Privatization, Globalisation and Liberalisation.	9

References:-

Gautam Alka, (2010): Advanced Economic Geography, Sharada Pustak Bhavan, Allahabad.

Knowles R, Wareing J : (2004) Economic and Social Geography Made Simple, Rupa and company

Hartshorne T.A., Alexander J.W. (1998): Economic Geography, Prentice Hall.

Janaki V.A. (1985): Economic Geography, Concept Publishing Co.

Bangash M.A. and Shehzad Ahmad, Khan M.A. (2006) : Economic Geography, Anmol Publishers.

Majid Hussain,: Models in Geography (2007)



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- Lloyd P and P. Dicken (1972): Location in Space: A theoretical approach to Economic Geography, Harper and Row, New York.
- Thoman Conking and Yeates (1974) : Geography of Economic Activity, Mc Graw Hill, New York.
- Scott Allen J. (2006) : Geography and Economy, Oxford University Press.
- Knox P. and Agnew J. (1998) : The Geography of the World Economy, Arnold, London
- Hanink D.M. (1997): Principles and Applications of Economic Geography, Economy, Policy, Environment, John Wiley and Sons, New York.
- Dreze J. and Sen A. (1996) : Economic development and Social Opportunity, Oxford University Press, New Delhi.
- Bridge RS. (2010): The Geography of Commerce and Industry
- Sidhharth K. : Economic Geography- Precesses and patterns, Kisalaya Publications.
- Keller, Albert G., Bishop Avarad L. : (2010) : Commercial and Industrial Geography
- Majid Husain (1979) : Agriculture Geography
- Singh Jasbir, Dillon S.S. (2004): Agriculture Geography, Tata McGraw Hill
- Dube R.S. (1987) : Agriculture Geography- Issues and Application, Gian Publishing House.
- Mamoria C.B. (1980): Economic and Commercial Geography of India, Shiva Lal Agarwal and Compnay.



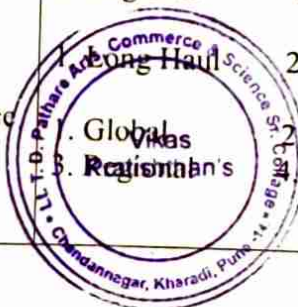
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Gg- 220 : Tourism Geography (S-1)

Objective:-

- 1) To acquaint the student's basic concepts of Geography & Tourism
- 2) To aware the students with the utility and application of Tourism
- 3) To help the students & society to understand the interrelationship between tourism and employment generation opportunities.
- 4) To understand the impact of tourism on Physical and Human Environments.

Section-I				
No.	Unit	Sub-unit	Learning Points	Periods
1	Introduction to Tourism Geography	<p>(A) Introduction and Definition</p> <p>(B) Nature of Tourism Geography</p> <p>(C) Scope of Tourism Geography</p> <p>(D) Importance</p>	<p>1.Introduction 2.Definition of Tourists and Tourism</p> <p>1.Uniqueness 2. Diversity 3.Recreational 4. Dynamic 5.Interdisciplinary 6.Non-Productive 7.Seasonal</p> <p>1 Tourism as a Basic Need of Mankind 2 Tourism and Transportation 3 Natural environment and Tourism 4. Culture and Tourism 5. Religion and Tourism 6. Tourism Products</p> <p>1 Relation Between Geography and Tourism 2 Importance of Tourism</p>	10
2	Concepts and Classification of Tourism	<p>(A) Concepts</p> <p>(B) Classification Based on</p> <p>a) Nationality</p> <p>b) Travel Time</p> <p>c) Travel Distance</p>	<p>1 Geo-Tourism 2 Agro- Tourism 3 Heritage Tourism 4 Adventure Tourism 5 Religious Tourism 6 Health Tourism 7 Sport Tourism 8 Disaster Tourism</p> <p>1. International 2. National 3. Regional 4. Local</p> <p>1. Short Haul. 2. National</p> <p>1. Global 2. Regional 3. Local</p>	15



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		d) Number Of Tourists	1. Groups 3. Individual	2. Family Members	
		e) Purpose	1. Religious 3. Heritage 5. Nature 7. Sports	2. Recreation 4. Adventure 6. Health	
		f) Approach	1. Eco-tourism as an Approach		
3	Assessing Tourism Potentials -I	Physical Factors (A) Relief (B) Water bodies (C) Climatic (D) Forest	1. Mountain 3. Plain 5. River Source	2. Plateau 4. Sea Beaches 6. Water Fall 1. Lakes/ Dams 3. Natural gassers 4. River –Confluences 1. Hill Station 3. Rainy Season 2. Snow Fall 4. Sanatoriums 1. National Park 2. Sanctuaries (With Indian Examples)	10
4	Assessing Tourism Potentials -II	Socio- Cultural Factors (A) Religious (B) Historical (C) Socio- Cultural	Pilgrim – All Religious Centers Historical Monuments Culture, Festivals, Sports Centres, Warli Paintings, Ideal Village (With Indian Examples)		10
Section -II					
5	Transportation and Communication	Infrastructure and Support System	1. Road 4. Air	2. Rail 5. Space	3. Water
			1. Guide 2. Telephone/ mobile/ TV 3. Internet 4. Electronic & Printing Media 5. Travel & Tourist Agencies		
6	Accommodation	Accommodation Types	1 Private Hotels, motels, Inn 2 Govt. accommodation- Tourist home, Guest House, Rest house, Youth Hostel, Tents, Caminas and Bed & Breakfast Rail Yatirbhavan 4. House boats 5. Dharmashala		
			10		



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7	Impact of Tourism	(A) Environmental Impact	1. Land Degradation 2. Pollution – Land, Water, Air 3. Loss of Plants 4. Loss of Wild Animals and Birds	12
		(B) Economic Impacts	1. Tourism as an Economic Activity 2. Effect on foreign Exchange 3. Employment generation 4. Increase of Land Values 5. Increase of Trading Activity 6. Increase of Govt. Revenues 7. Growth of infrastructure development 8. Multiple effect	
		(C) Social and Cultural Impact	1. New colonialism 2. Crime 3. Religion 4. Language 5. Health 6. Traditional Arts	
8.	Case Studies of Major Tourist Centers in India	(A). Hill Station	1. Manali 2. Mahabaleshwar	13
		(B) Beach Point	1. Marina Beach (Chennai) 2. Diveagar (Raigadh)	
		(C). Historical	1. Konark Sun Temple (Orissa) 2. Raigadh Fort	
		(D) Religious	1. Vaishno Devi (Jammu) 2. Shegaon (Buldhana)	
		(E) Dams/ Lake	1. Sardar Sarovar (Gujrat) 2. Lonar Lake (Buldhana)	

References:-

1. Robinson H. (1996): A Geography of Tourism
2. Bhatia A.K., Sterling Publisher Ltd., New Delhi : Tourism Development, Principles and Practices
3. S.N. Singh (1985): Geography of Tourism and Recreation
4. Douglas Pearce (1987) Tourism Today : A Geographical Analysis :
5. Mathieson A. and Wall C, Logman, U.K : Tourism : Economic Physical and Social Impact :
6. Manoj Das India: A tourist Paradise
7. Manoj Kumar Tourism Today: An Indian Perspective
8. Hudman L.E. Geography of Travel and Tourism
9. Seth P.N (1985) Sterling Publisher Ltd., New Delhi Successful Tourism Management
10. Smith S.L.J : Tourism Analysis
11. Gupta V.K : Tourism of India
12. Kaul R.N, Sterline Publisher Ltd : Dynamics of Tourism
13. Shinde S.B, Phadke Prakashana Kolhapur 2: Geography of Tourism
14. Nagtode P.M., Prof. D. Pardhi. Vidya Prakashan Nagpur : Geography of Tourism
15. Vitthal Gharpure., Pimplapure Publication Nagpur : Geography of Tourism
16. Bhagwat A.V., Medha Joshi : Murlidhar Publication : Geography of Tourism
17. Dixit N.K, Vista International Publication Delhi: Tourism Geography.




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18. Sharma A. (2008) : Tourism Development, RBSA Publishers, Jaipur.
19. Thakur Meenakshi Thakur (2008) : Ecotourism and Sustainable Tourism, Omega Publications, New Delhi.
20. Gitanjali, Chaudhary, Gautam P.R., (2010): Tourism Geography, Centurian Press
21. Suryawanshi Rajendra (2012): Assessment of Potentials for Eco-tourism, Lambart Publication.




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Gg-201 : FUNDAMENTALS OF GEOGRAPHICAL ANALYSIS
From June 2014

Workload : Six periods per week per batch (12 Students Per Batch)
(Examination for the Course will be conducted at the end of academic year)

Objectives:

1. To enable the students to use various Projections and Cartographic Techniques.
2. To acquaint the students with basic of Statistical data.
3. To acquaint the students with the principles of surveying, its importance and utility in the geographical study.

SECTION- I

No	Topic	Learning Points	Exercises	No. of periods
1	Maps and Scales	1. Maps : Meaning, definition and Types 2. Map Scale : Definition and Types	1. Map : Meaning, Definition and Types. 2. Map Scale : Definition and Types Conversion of Verbal scale to numeric and vice-versa (in British and Metric Systems) i) Construction of simple graphical scale (Two examples) ii) Construction of comparative scale (Two examples)	15
2	Map Projection	1. Definition and need of Map Projection 2. Classification of map projection based on method of construction and developable surfaces used.	1. Zenithal Polar projection. i. Zenithal Polar Gnomonic Projection ii. Zenithal Polar Stereographic Projection. 2. Conical Projection : i. Projection with one standard parallel ii. Bonne's Projection 3. Cylindrical Projection i. Cylindrical equal area Projection. ii. Mercator's Projection 4. Conventional Map Projections i. Mollweide's Projection (Construction of above map projection with properties and uses of each group : one example from each hemisphere).	20
3	Data Representation by various techniques	1. Graphs and Diagrams	1. Simple Line Graph 2. Polygraph 3. Simple Bar Diagram 4. Compound Bar Diagram 5. Pie Diagram (Chart) 6. Choropleth Mapping Plotting & Presentation using computers	15



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4	Basic analysis of Statistical Data	1. Population and Sample 2. Statistical Data and Frequency	1. Population, sample, Method of sampling. Characteristics of sample 2. Tally marks and frequency table. 3. Frequency distribution (histogram and polygon) 4. Cumulative Frequency and Ogive curve.	10
SECTION II				
5	Surveying	1. Directions 2. Definition of Surveying 3. Types of Surveying 4. Measurement of Land	1. Various Methods of deciding North direction True, Magnetic and Grid North 2. Plane Table Survey. i. Radiation Method ii. Intersection methods 3. Prismatic Compass Surveying Methods: ii. Open Travers ii. Close Travers 4. GPS Survey & Plotting Finding Latitude (X), Longitude (Y) and Altitude (Z). Plotting of X and Y on graph paper 5. Dumpy Level Survey Plotting by- i. Rise and Fall Method ii. Collimation Plane Method 6. At least exercise involving of actual measurement of piece of a land.	40
6	Field Excursion / Village/ Urban Survey	Visit two places of geographical interest anywhere in the country.	One short tour of two days duration and Preparation of tour report. OR One long tour more than five days and preparation of tour report	20

Note : 1. Use of stencils, log tables, computer and calculator is allowed.
2. Journal should be completed and duly certified by practical in-charge and Head of the Department.
3. Int. and Ext examiner should set jointly the question paper for each batch

Reference Books :

1. Singh Leharaj, (1973) : Map Work and Practical Geography, Central Book Depot – Allahabad
2. D. Y. Ahirrao and E. K. Karanjkhale. (2002) : Pratyakshik Bhugol, Sudarshan – Nashik
3. P. G. Saptarshi and S. R. Jog, Statistical Methods
4. S. N. Karlekar, (2008) : Statistical Methods, Diamond – Pune
5. T. P. Kanetkar and S. V. Kulkarni, (1986) : Surveying and Leveling, Pune Vidyarthi Griha Prakashan – Pune
6. Arjun Kumbhare, Practical Geography
7. Pijushkanti Saha & Partha Basu. (2007), 'Advanced Practical Geography', Books and Allied (P) Ltd, Kolkata

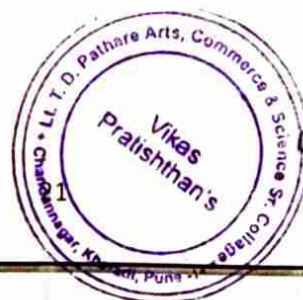


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तृतीय वर्ष कला (T.Y.B.A)
मराठी (विशेषस्तर पेपर -४)
भाषाविज्ञान - S₄
पुनर्रचित अभ्यासक्रम आराखडा
सन २०१५-२०१६ पासून
भाषाविज्ञान- वर्णनात्मक आणि ऐतिहासिक

❖ अभ्यासक्रमाची उद्दिष्ट्ये:-

- १) भाषेचे स्वरूप व कार्य, भाषेच्या अभ्यासाचे महत्त्व, भाषेच्या अभ्यासाची प्रमुख अंगे जाणून घेणे.
- २) भाषा म्हणजे काय व तिचे मानवी जीवनातील कार्य व महत्त्व जाणून घेणे.
- ३) वेगवेगळ्या भाषाअभ्यासपद्धतींचे वेगळेपण व महत्त्व जाणून घेणे.
- ४) स्वननिर्मितीची प्रक्रिया समजावून घेणे.
- ५) वागिंद्रियांची रचना व कार्ये समजावून घेणे.
- ६) स्वनविज्ञान, स्वनिम संकल्पना आणि मराठीची स्वनिम व्यवस्था जाणून घेणे.
- ७) मराठीची रूपिमव्यवस्था समजावून घेणे.
- ८) वाक्यविन्यास व अर्थविन्यास या भाषावैज्ञानिक संकल्पनांचा मराठीच्या संदर्भात स्थूल परिचय.
- ९) ऐतिहासिक भाषाअभ्यासपद्धतीचे स्वरूप व महत्त्व लक्षात घेणे.
- १०) भाषाकुलाची संकल्पना जाणून घेवून मराठी भाषेच्या उत्पत्तीचा अभ्यास करणे.
- ११) मराठी भाषेचा उत्पत्तीकाळ जाणून घेवून तत्कालीन भाषिक स्थित्यंतरांचा आढावा घेणे.
- १२) टप्पाटप्प्याने भाषा म्हणून मराठीच्या वाटचालीचा ऐतिहासिक आढावा घेणे.



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प्रथम सत्र

एकूण तासिका— ४८

१. भाषेचे स्वरूप व कार्य :- भाषा एक सहज क्रिया — भाषा : एक अर्जित वस्तू — संज्ञापन : भाषेचे मुख्य कार्य — संकेत : भाषेचा आधार — शारीरिक आणि मानसिक क्रियांचा संयोग — ध्वनिसंकेत : चिन्ह आणि चिन्हित — संज्ञापनाची अन्य साधने: शरीरस्थित — संज्ञापनाची साधने: शरीरबाह्य — भाषा हे सर्वश्रेष्ठ संज्ञापन साधन — संज्ञापनातील क्रिया प्रतिक्रिया — मानवेतर प्राण्यांची भाषा — भाषा : एक सामाजिक संस्था — भाषा आणि व्यक्तिस्वातंत्र्य — भाषेच्या अभ्यासाची आवश्यकता. भाषाअभ्यासाची अंगे, भाषाभ्यास पद्धती —वर्णनात्मक भाषाभ्यासपद्धती, ऐतिहासिक भाषाभ्यासपद्धती, तौलनिक भाषाभ्यासपद्धती, समाजभाषाभ्यासपद्धती.

२. स्वनविज्ञान आणि स्वननिर्मिती :- वागिंद्रियाची रचना व कार्ये

स्वनविज्ञानाचे स्वरूप—स्वन निर्माण करणारी इंद्रिये—जिभेचे महत्त्व—स्वननिर्मितीची प्रक्रिया—मुखमार्ग, नासिकामार्ग आणि पडजीभ— दात आणि ओठ यांचे कार्य—तालुपटाची रचना व कार्य—स्वरांचे स्वरूप, लक्षणे व प्रकार—व्यंजनांचे स्वरूप लक्षणे व प्रकार—स्वरांच्या वर्गीकरणाची तत्त्वे— स्वननिर्मितीमधील 'प्रयत्ना'चे स्वरूप.

३. स्वनिम विचार :- स्वनिम निश्चितीचे तत्त्वे, विनियोग संकल्पनेचा स्थूल परिचय, स्वन, स्वनिम व स्वनांतर यामधील परस्परसंबंध, मराठी स्वनिमव्यवस्थेची रूपरेखा, स्वरस्वनिम, अर्धस्वरस्वनिम, व्यंजनस्वनिम यांचे वर्गीकरण.

४. रूपिम विचार :- रूपिमचे तत्त्व, रूपिका—रूपिम आणि रूपिकांतर यामधील

परस्परसंबंध, रूपिकांचे प्रकार प्रकृति (धातू) आणि प्रत्यय यांचे वर्गीकरण (आशयबोधक रूपिम व कार्यकारी रूपिम)




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एकूण तासिका— ४८

५. वाक्यविचार — वाक्यविन्यास संकल्पना आणि मराठीतील वाक्यविन्यास व्यवस्था, वाक्याचे घटक
६. अर्थविचार — अर्थविन्यास व मराठीतील त्याचे स्वरूप, अर्थ ही संकल्पना, अर्थाचे विविध प्रकार
७. ऐतिहासिक भाषाभ्यासपद्धती — सर विल्यम जोन्स यांचा सिद्धांत — ऐतिहासिक भाषाविज्ञानाचे स्वरूप — कार्य, भाषाकुलाची संकल्पना — भाषांचे वर्गीकरण — जगातील प्रमुख भाषाकुले — इंडो युरोपियन भाषाकुल — आर्य भाषाकुल व मराठी भाषा — होन्ट्ले यांचा अंतर् बहिर् वर्तुळ सिद्धांत.
८. मराठी भाषेची उत्पत्ती :- मराठी भाषेची उत्पत्ती व त्यासंबंधीची साधने — मराठी भाषेच्या उत्पत्ती संबंधी विविध सिद्धांत — वैद्य-गुणे वाद, मराठीचे कालिक भेद



❖ संदर्भ साहित्य

१. भाषाविज्ञान : वर्णनात्मक व ऐतिहासिक — संपादक— मालशे, इनामदार, सोमण.
२. भाषा: इतिहास आणि भूगोल — डॉ. ना. गो. कालेलकर.
३. ऐतिहासिक भाषाशास्त्र — डॉ. र. रा. गोसावी
४. वर्णनात्मक भाषाविज्ञान— स्वरूप आणि पद्धती — संपादक— डॉ. काळे, डॉ. सोमण.
५. भाषा — अंतःसूत्र आणि व्यवहार— संपादक— मुं. ग. पानसे.
६. भाषा व संस्कृती — डॉ. ना. गो. कालेलकर.
७. अभिनव भाषाविज्ञान — डॉ. गं. ना. जोगळेकर
८. भाषाविज्ञान परिचय — डॉ. मालशे, डॉ. सोमण, डॉ. पुंडे
९. वर्णनात्मक भाषाविज्ञान — डॉ. लीला गोविलकर
१०. भाषाशास्त्र विचार — डॉ. र. बा. मंचरकर
११. मराठी भाषेचा आर्थिक संसार — अशोक केळकर
१२. मराठीचे वर्णनात्मक भाषाविज्ञान — डॉ. महेंद्र कदम
१३. मराठीचा भाषिक अभ्यास — संपादक मु. श्री. कानडे
१४. सुबोध भाषाशास्त्र — डॉ. प्र. न. जोशी
१५. मराठी भाषेचा इतिहास — डॉ. गं. ना. जोगळेकर
१६. सुलभ भाषाविज्ञान — डॉ. द. दि. पुंडे
१७. सामाजिक भाषाविज्ञान — संपादक डॉ. जयश्री पाटणकर
१८. सामाजिक भाषाविज्ञान व बोली— डॉ. शशिकला कांबळे

