Shiksha Mandal's

# G. S. College of Commerce & Economics, Nagpur NAAC Accredited "A" Grade Autonomous Institution

# Syllabus for the Course of BACHELOR OF COMMERCE (COMPUTER APPLICATION) w.e.f. 2022-2023

	BACHELOR OF COMMERCE (COMPUTER APPLICATION) [B.C.C.A.]
Α	PROGRAMME OUTCOMES
	After completing three years of B.Com. (Computer Application) programme, students are expected to
PO-1	Gain fundamental as well as advance knowledge of all the key and broad concepts in the field of Information
	Technology and Computer Application in general and the main domains of Commerce, Accountancy and
	Statistics, Business Management and Administration, Economics, and Business Communication in particular
	through various core, elective and skill-foundation
PO-2	Acquire and develop basic and advance skills in computer application and information technology
	for business such as accounting software like Tally.ERP 9.0, management information systems,
	database management systems, programming languages, web designing etc. in order to develop
	into professionals in different fields of Information Technology and apply these IT skills for the
<b>DO 3</b>	promotion of Industry and business.
PO-3	Be able to use and apply their knowledge and skills to find effective solutions to real life situations
PO-4	and challenges and take effective decisions.
PU-4	Be capable of gaining employment in public and private sectors by virtue of their knowledge and skills acquired during the course of graduation.
PO-5	Be competent to serve in various industries and sectors especially in the field of information
FO-3	technology, banking and insurance sectors, finance companies, logistical services etc. in various
	positions viz. system administrator, network system and data analyst, database administrator, chief
	information officer etc.
PO-6	Be capable of self-employment or venturing into a start-up by virtue of course in entrepreneurship
	development
PO-7	Have a solid foundation to build a larger corpus of knowledge through higher studies including post-
	graduation and research not only in the field of Commerce and Information Technology but also in
	other areas owing to the inter-disciplinary approach and study of Open and Generic Electives.
В	PROGRAMME SPECIFIC OUTCOMES
	After completing three years of B.Com. (Computer Application) programme, students would
PSO-1	Have proficiency in the basic and advanced knowledge of the core information technology subjects
	viz. Programming in C, C++ & C#, VB.NET, Core Java, Advanced Java and Android, Python, Dynamic
	Web Designing, Database Management Systems and Oracle, Operating Systems and Computer
	Hardware and Networking Commerce as well as the core Commerce subjects of Accountancy,
	Business Economics, Business Laws, Taxation, Indian Financial Systems etc.
PSO-2	Have proficiency in various Discipline-specific and Generic Electives of their choices and interests.
PSO-3	Have specialized knowledge of Programming Languages, Database Management Systems,
	Management Information Systems, Web designing and key areas of Financial Accountancy,
	Management Accountancy, Cost Accountancy, Economics, Business Laws, Corporate Law and
	Secretarial Practices and Taxation.
PSO-4	Have specialized knowledge of E-commerce, Indian Banking and Insurance System, International
	Trade and Business Administration, Security Analysis and Portfolio Management,
PSO-5	Have proficiency in both Direct and Indirect Taxes with special emphasis on Corporate Tax and GST.
PSO-6	Have proficiency in HRM, Entrepreneurship Development, Industrial and Labour Laws, E-Commerce
PSO-7	Have exposure to Gandhian Economics, Econometrics, Intellectual Property Rights, E- Governance,
	Constitution of India, Public Administration etc. through Electives leading to holistic development
	through an interdisciplinary approach.
PSO-8	Prepare for Competitive Examinations by doing an Elective Course on Quantitative Aptitude
	and Logical Reasoning.
PSO-9	Be able to apply Computer Application and data analytical skills in business decisions making.
PSO-10	Be acquainted with business ethics and corporate culture and corporate governance.

С	<b>COURSE CONTENT</b>	S
	Course	Outcome
1.	English Language Skills	Students will able to develop competence and proficiency in English Language by studying relevant and motivating prose texts, Business Communication and Correspondence skills, Grammar skills and Vocabulary.
2.	Financial	Students will be able to understand the fundamentals of Accounting and the
	Accounting	process of preparation of accounts as per the need of business organization.
3.	Economics	Students will be able to relate the concepts and theories of Economics with the real world and its practical application in business.
4.	Programing in C	Students will be able to work on enterprise applications, games, graphics, and applications requiring calculations, etc. by learning C language. Students would able to design and develop Operating Systems like Windows, Linux etc.
5.	Information System and Information Technology	Students will be able to get benefit of keeping appropriate data about each user's task in a format best suited to that user and can do any task effectively and efficiently in a suitable format
6.	Mathematics	Students will be able to get detailed understanding of various aspects of data collection and tabulation, learn application of measures of central tendency and get acquainted with the practical application of index number and to understand practical applications of business mathematics.
7.	Operating System and Computer Hardware and Networking	Student would able to get the knowledge of Operating System and Computer Hardware & Network connected peripheral devices like printers, scanners and copiers or sharing of system and application software between multiple users.
8.	Programming in C++	Student can develop interest in areas where C++ is popularly used i.e. Operating Systems, Libraries, Graphics, Banking Applications, Databases, Embedded Systems, Compilers.
9.	Business Ethics and Corporate Culture	Students will be able to understand the concept of ethics in business and their importance and develop acceptable attitudes and viewpoints with respect to business ethics and social responsibility.
10.	Cost Accounting	Students will be able to understand the fundamentals of Cost Accounting and the process of preparation of cost accounts and statement to arrive at cost of product as well as to know the amount of profit.
11.	Company Law & Secretarial Practice	Students will be able to understand the process of formation and incorporation of company in India; the framework of Memorandum of Association and Article of Association and Prospectus. Also learn about the concept of Share Capital, Shareholders, Members, Role of a Managing Director and meetings of companies.
12.	Web Designing and HTML	Students will be able to create web pages which can be understood by any web browsers.
13.	Programming in C#	Students would able to develop native windows applications, mobile apps, websites, games and even native Android or iOS apps by learning of C# with some additional frameworks like Xamarin or Mono.
14.	MIS and System Analysis	Students would be able to know the current status of organization at a glance through Management Information System & System Analysis in order to improve the quality of decisions.
15.	Computer Application in Business	Students will be able to use of MS Word, MS Power point and MS Excel Software in business, computerized accounting with the Tally accounting software, E-filing procedures of Direct Taxes and E-compliances of Indirect Taxes.

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16.	Management	Students will understand fundamentals of Management Accounting and practical
	Accounting	knowledge about various tools of management accounting for taking managerial
		decisions.
17.	Business Laws	Students will be able to demonstrate an understanding of Legal Environment of
		Business in Indian scenario, apply basic legal knowledge to business transactions
		and communicate effectively using standard business and legal terminology.
18.	VB.NET	Students can create wide range of applications like console- based applications,
		window-based applications, window services web application, web services etc.
19.	Dynamic Web	Students can present dynamic web content on web browsers for the personal and
	Designing	professional users.
	(PHP and My SQL)	
20.	Database	Students can manage the database by DBMS & Oracle used for running Online
	Management	Transactions Processing (OLTP), Data Warehousing (DW) and mixed database
	System and Oracle	workload. Students can store and retrieve related information.
21.	Environmental	Students will be able to understand the concept of Ecosystems and Environment,
	Studies	the concept of biodiversity and its conservation and environmental pollution.
22.	Auditing and	Students will be able to understand mechanisms of Corporate Governance, role
	Corporate	of Board of Directors in Corporate Governance and corporate Governance in
	Governance	Indian context
23.	Indian Financial	Students will be able to understand the concept of money markets, capital
	System	markets and various instruments of money and capital markets, instruments of
		global capital markets, financial markets and the meaning and working of
		derivative market in India.
24.	Core Java	Students would able to design application software for both desktop and web
		applications.
25.	Python	Students can create and learn Console application, Desktop application, web
		development, Machine learning, Internet of Things (IOT) applications, system
		scripting. Students can connect to database system so that they can handle big
		data and perform complex mathematics.
26.	Indian Banking and	Student will be able to understand, the principles of borrowing and lending,
	Insurance System	Internet banking and concepts of insurance.
27.	, International Trade	Students will be able to Explain the concepts in international business with
	and Business	respect to foreign trade/international business and Administration.
	Administration	
28.	Human Resource	Students would be able to build understanding about the aspects of managing
	Management	Human Resources in an organisation.
29.	Entrepreneurship	Students will be able to understand historical evolution of entrepreneurship,
	Development	various entrepreneurship trends, procedures of opportunity scouting and idea
		generation, the concept, need, problems of Rural entrepreneurship and
		measures to develop the same.
30.	Quantitative	Student will be able to understand concept of ratio and proportion, concept of
	Aptitude and Logical	interest and logical reasoning.
	Reasoning	
31.	Econometrics	Students would be able to develop clarity on application of statistical techniques
51.		to analyses and solve economic issues. Students would build an attitude towards
		the applicability of statistical techniques to various economic issues to evolve
		with a concrete solution.

32.	E-Governance	Student will be able to understand compliance norms of e-governance related to		
52.		tax filings, GST filings and companies and LLP.		
33.	Introduction to	Student will be able to understand tourism development and impact of tourism		
55.	Travel and Tourism			
24		and rural tourism and other related aspects.		
34.	Corporate Tax	Student will be able to understand the provisions of direct taxes relating to		
	Planning	corporate tax, application of tax provisions in respect of tax planning		
		considerations relating to companies.		
35.	Advanced Java and	Students can learn simplified mobile app development process. Students can also		
	Android	create custom mobile apps that solve customer problems and increase value for		
		their business.		
36.	ASP.NET	Students can get help to create web pages and web technologies like		
		amazon.com, ebay.com and many other popular web sites by using ASP. NET as		
		the framework.		
37.	Security Analysis	Students will be able to understand risk & return analysis, share valuation and		
	and Portfolio	portfolio Management through application of Various Models.		
	Management			
38.	Goods and Service	Student will be able to understand the concept of charge and levy of Goods and		
	Тах	Service Tax and computation of tax liability of Goods and Service Tax.		
39.	Industrial and	Student will be able to understand functioning of factories and industries,		
	Labour Laws	compensation Laws and Union Laws.		
40.	E-Commerce	Student will be able to understand the concepts of E- Commerce & E-Business,		
		basic requirements of E-Commerce and use of digital payment systems.		
41.	Gandhian	Students would be acquainted with the understanding about the various aspects		
	Economics	of socio-economic principles of Gandhian ideology related to Economics and the		
		implications of Gandhian Economics with respect to Indian Economy.		
42.	Introduction to	Student will be able to understand functioning of Public Administrative		
	Public	Authorities, the Concept of Democratic Governance and functioning of		
	Administration	Parliament.		
43.	Intellectual	Student will be able to understand the concept of Intellectual Property Rights,		
	Property Rights	functioning of Patents and concepts of Copyright and Trademarks		
44.	Constitution of India	Student will be able to understand the basics of the Constitution, Citizenship		
	and Human Rights	Rights and Human Rights		
45.	Project	Students would be able to gain practical knowledge through exposure to different		
	-	problems and are expected to find solutions through project work on any given		
		idea/topic. Students would be able to understand which programming language		
		is handy for them to make their project easier. Live projects will allow students to		
		gain valuable work experience		
		during study.		

			MESTER I		
	a abina Haura 4		ge Skills (BCCAL 1.E)	Crewe Longuage	
	aching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Language				
Objec		Fatronronours			
	Introducing great				
	Developing Com	imar and Vocabulary Compo	anonts		
	ing Outcomes:		Jients		
	•	of implementing great en	represeurs would be ach	ieved by introducing 6 best	
	=		-	rs from the book- 'Modern	
•			•	f commerce background. The	
				ttitude, hard work, integrity,	
-		r a great entrepreneur. The			
	•			oducing the students to basic	
	-		-	ated the knowledge of basic	
	of communication				
Unit II	II- The objective fo	r introducing Grammar wa	s to enhance the skills of L	anguage learning, which was	
	=	ng grammar concepts.			
		f implementing Vocabulary	was to enhance language s	kills of students.	
Unit			Content		
I	Great Entreprene	eurs			
	Akio Morita, Dhir	ubhai Ambani, Mallika Srini	vasan, Rahul Bajaj, Ratan Ta	ata, Priya Paul	
Ш	Communication	: Aller			
	Definition, i	importance, nature, scope	TOR STATE		
	<ul> <li>Elements of</li> </ul>	f the Communication Proce	ss- Sender, Channel, Messa	ge. Receiver and Feedback	
		f Communication- Verbal &			
		ommunication- Formal and		lectronic & Print	
		of Communication- Vertical			
		effective communication	, Honzontal, Diagonal		
		Yile I			
		ation Networks			
111	Grammar		ige		
	Parts of Spe				
	• Types of Se	ntences			
	Tenses				
		ition of Sentences- Interrog		-Negative; Exclamatory-	
		uestion tag; Inter-change o	f Degree etc.		
IV	Vocabulary	of words, Drimony words		vivotivos, sesendam	
		of words: Primary words, co	mpound words, primary de	envalives, secondary	
		(Pre-fixes/suffixes)		( vorbe	
Beelv	Formation of Recommended:	of nouns from verbs/adject	ives; adjectives from nouns,	verbs	
		Tayt Book 'Modorn Trailb	lazors' Edg. A Dhoto & U Dh	ata Rublishad by Origant	
	Blackswan.	Text-Book - 'Modern Trailb	azers Eus-A.Dhole & H.Dh	ote, Published by- Ohent	
		Communication Skills - Kri	shna Mohan & Meera Bang	rji (Macmillan), R.C.Sharma	
	& Krishna Mohan	, communication Skills – Kli			
		ol English Grammar & Comp	osition- Wren & Martin Re	vised & Edited by N D V	
	Prasada Rao (S.Cha			VISCU & LUILEU DY 14.D.V.	
	•	-	Carthy & Falicity O'Dall En	glish Vocabulary- N D V	
4		capulary in Lise- Milchael Mi			
	Prasada Rao	cabulary in Use- Michael Mo	continy & relicity O Dell, Ell		

	Financial Accounting – I (BCCAC 1.1)		
Теа	aching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core		
Objec	tives: The objective of this paper is to help students to acquire conceptual knowledge of the financial		
accou	nting and to impart skills for recording various kinds of business transactions.		
Learni	ing Outcomes:		
1.	To understand the fundamentals of accounting.		
2.	To understand the process of preparation of final accounts of sole trading concern.		
3.	To get acquainted with concept and process of joint venture accounts.		
4.	The students would be coherent with the concept of depreciation.		
Unit	Content		
I	Basics of Accounting:		
	Theory: Meaning and scope of Accounting, Need, Development & Definition of accounting, Branches		
	of accounting and Principles, Concepts and Conventions of accounting, Journal Entries of Transactions,		
	Ledgers and Trial Balance		
	Practical Problems: Preparation of Journal, Leaders and Trial Balance		
II	Final Accounts of Sole Traders:		
	<b>Theory:</b> Meaning of Final Account, Characteristics and Format of Trading A/c, Profit and Loss A/c and		
	Balance Sheet, Meaning and nature of Adjustment.		
	Practical Problems: Preparation of Trading A/c, Profit and Loss A/c and Balance sheet from Trail		
	balance and Adjustments		
111	Joint Venture:		
	Theory: Meaning of Joint Venture, Characteristics of Joint Venture, Advantages and Disadvantages of		
	Joint Venture, Methods of Joint Ventures, Distinction between Joint Venture and Partnership.		
	Practical Problems: Preparation of various accounts as per Centralized Method and Decentralized		
	Method of Joint Venture.		
IV	Depreciation:		
	Theory: Meaning of Depreciation, Nature, Characteristics and Advantages of Depreciation, Need of		
	Depreciation, Various Methods of charging Depreciation (i) Straight line method, ii) Reducing balance		
	method iii) Annuity method iv) Depreciation fund method v) Depreciation fund insurance policy		
	method.		
	<b>Practical Problems:</b> Preparation of Depreciation A/c, Machinery A/c under: (i) Straight line method ii)		
	Reducing balance method iii) Annuity method iv) Depreciation fund method v) Depreciation fund		
	insurance policy method.		
	Recommended:		
1.	Financial Accounting, Paul, S. K, New Central Book Agency		
2.	Financial Accounting for Managers- Ghosh, T. P. Taxman Allied Service		
3.	Financial Accounting - Dr. V. K. Goyal, Excel Books		
4.	Financial Accounting - Jain S.P., Narang K.L., Kalyani Publishers, Delhi.		
5.	Financial Accounting- Grewal, Shukla, S. Chand Publications, Delhi		

			1ESTER I	
			omics (BCCAC 1.2)	
	eaching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Core
-	ctives:		····	
	•	•	sic concepts of business eco	
	behaviour.	mester, students will be a	ble to analyze and predict c	onsumption and production
-				
	ing Outcomes:	rolate the concents and th	poorios of oconomics with th	e real world and its practical
	cation in business.	relate the concepts and th		e real world and its practical
• •		ster students will he ahl	e to analyze and predict co	onsumption and production
behav		iter, students win be usi		
Unit			Content	
1	Foundation of Bus	iness Economics	•••••••	
-		omics – meaning, nature,	scope	
		_	aning, merits and demerits	
		•	narginal utility & law of dimi	nishing utility
	4. Indifference	Curve Analysis: Concept,	definition, Properties, Indi	ifference Map, Consumer's
	equilibrium			
П	Demand – Elasticit	ty of demand & demand f	orecasting	
				n exceptions, Expansion and
		mand, Contraction and De		
			s, Degree of price elasticit	y of demand, Methods of
		of elasticity of demand		<b>C</b>
			nce & techniques of demand	forecasting
	4. Concept of de			
111		ion, cost & revenue	tions Cobb & Douglas Dr	aduction functions CDC 12
		onsumption & Production	otions, coop & Douglas Pr	oduction function; SDG 12
			Production function): Law or	f returns to scale (Long Run
	Production fu		roduction function, law o	
			ost, Variable cost, Total cost,	Average cost, Marginal cost
	(Short and Lor			
	4. Concepts of re	evenue, types of revenue-	Average revenue, Marginal r	evenue, Total Revenue
IV	Market Structure			
		0, ,	•	oncept of firm & Industry,
	-	•	ion, Equilibrium of firm & inc	-
			· •	crimination: Concept, types,
		s for price discrimination t	•	
			atures, price and profit deter	mination.
Deela	4. Oligopoly: Me s Recommended:	aning, features, types, Kin	ked demand curve	
-		dorn Economics Hardwick	K, Khan & Langmead, An, Lor	aman London & Now Vork
1.	Revised Edition.		, Kilali & Langineau, An, Lui	igiliali Lolluoli & New Tork,
2.		c Theory (Micro Economic	: <b>Analysis),</b> H. L. Ahuja, S. Cha	and & Co Itd. 11th Edition.
	2004.			
3.		, H. L. Ahuja, S. Chand & C	o Ltd, 11th Edition, 2004.	
4.		. N. Chopra, , Kalyani Publ		
5.		). D. Chaturvedi, Galgotia F		
6.	Principles of Econo	<b>mics,</b> D.M.Mithani, Himala	ya Publishing House, Latest	Revised Edition.
7.	Modern Economic	<b>Γheory,</b> K. K. Dewett, S. Ch	and & Co Ltd, Latest Revised	l Edition.

- 8. Advance Micro Economic Theory, M. Maria John Kennedy, Himalaya Publishing House, Latest Revised Edition.
- 9. Micro Economic Theory, M. L. Jhingan, Vrinda Publishing Pvt. Ltd, Latest Revised Edition.
- 10. Business Economics, Rashi Arora, Sheth Publishers Pvt Ltd,6th Edition, 2010.



	Programming in C (BCCAC 1.3)				
Tea	ching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Objec	ves: It is basic programming language to improve the background for certain classes of Programming				
proble	ns.				
Learni	ng Outcomes:				
• Stu	dents can get help to work on enterprise applications, games, graphics, and applications requiring				
cal	ulations, etc. by learning of C language				
• Stu	dent would easily learn this language because it is smallest one as compared with the other similar				
cor	iputer languages.				
• Stu	dents would be able to design and develop Operating Systems like Windows, Linux etc.				
Unit	Content				
I	Introduction to C: History of C Language, Environment of C language; Development Tools: Algorithm				
	& Flowchart; C Tokens: Data Types-Basic, Derived, enumerated etc., Variables Operators Character				
	Set, Identifiers and keywords, Constants-Primary constant & Secondary Constant, C Operators, Type				
	Conversion, Escape sequences, Writing a Program in C: Variable declaration, Statements, Simple C				
	Programs, Simple Input and Output Statements, Features of studio. Control Statements: Conditiona				
	Expressions, Loop Statements, Breaking control statements.				
Ш	Function and Program Structures: Introduction, Defining a Function, Return Statement, Types of				
	Functions, Actual & Formal Arguments, Local & Global Variables, Multifunction Program, and The				
	Scope of Variables, Recursive Function. Arrays: Array Notation, Array Declaration, Array Initialization				
	Processing with Arrays, Arrays and Functions, Multidimensional Array, Character Array. Storage Class				
	Automatic, Register, Static, External Storage Class				
Ш	Pointers: Pointer Declaration, Pointer Arithmetic, Pointers and Functions, Pointers and Arrays				
	Pointer and Strings, Array of Pointers, Pointers to Pointers. More on Functions: Pre-processors,				
	Macros, Header Files, standard Functions.				
IV	Structures, unions and Bit Fields: Declaration of Structure, Initializing a Structure, Functions and				
	Structures, Array of Structure, Arrays within Structure, Structure within structure, Pointer and				
	Structure, Union, Bit Fields, Typedef Enumerations. Data File Operations: Review of input/output				
	Functions, Opening and Closing of files, Simple File Operation, Structures and File Operation, Block				
	Read/Write, More on File operations, Low level File operations, Random Access File processing.				
Books	Recommended:				
1. C	n Depth, S. K. Shrivastava & Dipali Srivastava, BPB Publication, New Delhi				
	ogramming in ANSI C, E. Balaguruswami, Tata McGraw-Hill, New Delhi.				
	<ol> <li>Programming in C, R Subburaj, Vikash Publishing House Pvt. Ltd. New Delhi</li> </ol>				
	4. Let Us C (9th Edition)- Yashwant Kanetkar BPB Publication, New Delhi.				
	<ol> <li>Mastering C- Veugopal Prasad, Tata McGraw-Hill, New Delhi.</li> </ol>				
6. Th	e Complete Reference C- Schildt, Tata McGraw-Hill, New Delhi				

	In	formation System and Info	ormation Technology (BCC/	AC 1.4)
Te	eaching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Core
Objec	ctives: Information S	system and Software Packa	ge is a Combination of Basi	c C computer So software and
Hard	ware with Internet	basics. It improves office	e productivity, document	management with Software
Packa	iges.			
	ing Outcomes:			
	•	•	-	nts to keep appropriate data
		ks in a format best suited to		
	udent can do any ta	sk effectively and efficient	•	
Unit			Content	
I				r, Classification of Computer,
		·		Structure, Basic Processor &
	Memory architect	ure of Computer System, F	Primary & Secondary Input,	Output Devices.
II				e & Hardware, Relationship
				troduction, types, Translator,
				n, Evaluation & basic services
			Introduction to Virus and it	
III				lation of MS-Office 2019, <u>MS-</u>
				Parts of MS-Word Window,
	- · ·			on to MS-Excel:- Introduction
				al Formatting, Filtering, Goal
IV				
Beak		v, Creating new Database,	Relationships, Query, Form	s, Reports, Macros, Modules.
		entele D.V. Sinha DDD Dul	alication Now Dalki	
	-			Itd New Dolbi
				Ltd. New Delli
	• • •			strated edition (29 May
		nee 2013, Linua i Guikes, F	acker abhoning Linnea, ina	
IV Book 1. 2. 3. 4.	Formula and Fun Seek, Tables, View Microsoft Power Slides, Slide num Charts, Different an Access Window s Recommended: Computer Fundam A First Course In Co I.T. Today, Encyclo	ections, V-lookup, H-lookup ws, Charts, Linking, Data Co Point and Access:- Introd bering, Header & Footer, D Objects, Animation, Slide To w, Creating new Database, eentals, P. K. Sinha, BPB Pub omputers, Sanjay Saxena, V pedia, S. Jaiswal, Galgotia F	p, Data Sorting, Conditiona onsolidation, Pivot Table. uction to MS-PowerPoint, ifferent Layouts, Master SI ransition. <u>MS-Access:-</u> Intro Relationships, Query, Form plication, New Delhi /ikash Publishing House Pvt	

		Mathematic	s (BCCASFC 1.0)	
Teaching Hours: 4		Total Credits: 4	Total Marks: 80	Group: Core Skill
				Foundation
Objec	<b>tives:</b> The objective	of this course is to familia	rize students with the app	lications of mathematics and
statist	ical techniques in b	usiness decision-making.		
Learn	ing Outcomes:			
1. T	o get detailed under	rstanding of various aspect	s of data collection and tab	ulation.
2. T	o understand and le	arn application of measure	es of central tendency.	
3. T	o get acquainted wi	th the practical application	of index number and index	k number
4. T	o understand practi	cal applications of business	s mathematics	
Unit			Content	
I	Number Systems a	and its various conversion	methods	
II	Simple & Compou	nd Interest, Measures of C	entral Tendency, Measures	of Dispersion
III	Percentages, Profi	t, Loss and Discount, Ratio	, Proportion and Variations	, Partnership, Probability
IV	Time and Work, T	ime, Speed and Distance,	Circular motion, Permutat	ion and Combination, Height
	and Distance, Data	a Interpretation		
Books	Recommended:			
1.	Business Managem	ent and Statistics, N G Das	J K Das, Tata McGraw Hill,	New Delhi
2.	<b>Business Mathema</b>	<b>tics,</b> Mri <mark>ntunjay</mark> Kumar, Vik	as Publishing House Pvt. Lt	d, New Delhi.
3.	Mathematics & Sta	tistics, Ajay Goel, Alka Goe	l, Taxmann, New Delhi.	
4.	Principals of Mathe	matical Analysis, Walter R	udin, Tata Mc <mark>Graw-</mark> Hill, Ne	w Delhi.
5.	Business Mathema	Business Mathematics and Statistics, Dr. S. R. Arora, Dr. Kavita Gupta, Taxmann, New Delhi		
6.	Quantitative Aptitude, Arun Sharma, Tata McGraw-Hill, New Delhi.			

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6. Quantitative Aptitude, Arun Sharma, Tata McGraw-Hill, New Delhi. 

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		_	SEMEST		
				kills (BCCAL 2.E)	
					Group: Language
•	tives:				
	Introducing great E				
2.		edge of business con			
3.		nar and Vocabulary (	component	5	
	ing Outcomes:	menting great Ecor	omic Think	ers was achieved by i	ntroducing 6 outstanding
					ne great thinkers taken from
			-		ing for the students as they
		onomic theories wh	-	-	
				•	by introducing the students to
	•		•		udents appreciated the
		ills of formal letter v			
• Ur	nit III- The objective	for introducing Gra	mmar was t	o enhance the skills o	of Language learning, which
Wa	as achieved by imple	ementing grammar	concepts.		
• Ur	nit IV – The objectiv	e of implementing V	ocabulary v	vas to enhance langu	age skills of students.
Unit			Co	ntent	
I	Great Economic				
				l Marx, John Keynes,	
					the book 'The Great Economic
		than Conlin is prese	cribed for st	tudy)	
11	Business Corresp	ondence:	(Berti	123 23	
	Application	for Job		3	
	Preparing B	io-dat <mark>a 🔰 🔚 👔</mark>			
	Letter of enquiry/Reply to enquiry				
	Order letter	r/Reply to Order lett	ter	3	
	Complaint (	Claims) Letter	AO	3/3/5	
		mmunication			
			Sircular Off	ice Note Correspond	ence with Branch Offices)
111	Grammar			ice note, correspond	
	Active/Pass	ive voice			
		irect Narration			
IV	Vocabulary				
	-	ntonyms, homonym	IS		
				e word substitution e	tc.
	Idioms and p	hrases			
Book	s Recommended:				
1.	Unit I - Reference k	ook- 'The Great Ecc	onomic Thin	kers' - Edited by Jona	thon Conlin.
2.				n – Urmila Rai, S.M. Ra	ai - (Himalaya Publishing House
	•	rakash Biyani (S. Ch	•		
3.		orrespondence and	Report Wri	ting – R.C. Sharma &	Krishna Mohan (Tata McGraw
_	Hill)	<b>_</b>			
4.	•	-	skills – R. C.	Sharma, Krishna Mo	ohan & Krishna Mohan, Meera
_	Banerji (Macmillan	•	0.0		
5.	-	-	r & Compo	sition– Wren & Mart	in Revised & Edited by N.D.V
c	Prasada Rao (S. Ch	•			hu Dooroon Michael Macaula
6.	-	•			h by Pearson, Michael McCarthy
	& Felicity O'Dell, N	Iacmillan Foundatio	n English, (N	viacmillan)	

	Financial Accounting -II (BCCAC 2.1)			
Te	eaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core			
Objec	<b>Objectives:</b> To give the knowledge about the preparation of various accounts and their practical utilization.			
Learn	ing Outcomes:			
1. T	To understand the process of preparation of final accounts of co-operative society			
2. T	To understand the practical aspects of issue, forfeiture and re-issue of shares			
3. T	To get in-depth understanding of departmental account			
4. T	o understand the practical aspects of consignment accounts			
Unit	Content			
I	Final Accounts of Co-Operative Society:			
	Theory: Meaning and Introduction of Co-operative Society, Characteristics of and Usefulness of Co-			
	operative Society, Limitations of Co-operative society, Types of Co-operative Society, Meaning,			
	Format and Characteristics Profit and Loss Appropriation A/c.			
	<b>Practical Problems:</b> Preparation of Trading A/c, Profit and Loss A/c, Profit and Loss Appropriation A/c			
	and Balance sheet As per Maharashtra Co-operative Society Act, 1960.			
Ш	Issue and Forfeiture and Re-issue of Shares:			
	Theory: Introduction of Company, Types of Company, types of share capital, Meaning and Methods			
	of Issue of Shares, Meaning of Application, Allotment and Call on shares, Meaning of Forfeiture of			
	shares and Re-issue of Forfeited shares			
	Practical Problems: Preparation Journal in the books of Company with the effect of Issuing shares at			
	Par, Premium and Discount, Pro- rata method, Forfeiture of Shares and Re-issue of Forfeited Shares			
- 111	Departmental Accounts:			
	Theory: Meaning of Departmental Account, Need and Objectives of Departmental Accounting, Nature			
	of Departmental Accounting, Advantages and Disadvantages of Departmental Accounting, Difference			
	between Departments and Branches			
	Practical Problems: Preparation of Trading A/c, Profit and Loss A/c and Balance sheet by allocating			
	the Joint Expenses among the various Departments.			
IV	Consignment Account:			
	Theory: Introduction and Meaning of Consignment, Objectives of Consignment, Advantages and			
	Disadvantages of Consignment, Difference between Consignment and Sale, Difference Between			
	Consignment and Joint Venture, Role of Consigner and Consignee, Types of Various Commissions paid			
	by Consigner to Consignee.			
	<b>Practical Problems:</b> Preparation Journal and Ledgers in the books of Consigner and Consignee			
Deel	including invoice method, Calculation of loss on damaged goods and valuation of Closing Stock.			
	s Recommended:			
1.	Financial Accounting, Paul, S. K, New Central Book Agency			
2. 3.	Financial Accounting For Managers- Ghosh, T. P. Taxman Allied Service Financial Accounting - Dr.V.K.Goyal, Excel Books			
5. 4.	Financial Accounting - Jain S.P., Narang K.L., Kalyani Publishers, Delhi.			
4. 5.	Financial Accounting - Jain S.P., Narang K.L., Karyani Publishers, Denn.			

5. Financial Accounting- Grewal, Shukla, S. Chand Publications, Delhi

	Monetary Economics (BCCAC 2.2)					
Te	ching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core					
Objec	Objectives: The objective of this course is to apply the basic theories of economics in critical thinking and					
proble	n solving.					
Learn	ng Outcomes:					
• Stu	dents would be acquainted with an understanding of the significance and role of RBI and Commercial					
Ba	ks in the development of economy.					
• By	he end of the Semester students will be able to know how changes in money supply can lead to					
ec	nomic fluctuations in a dynamic economic system.					
• Stu	dents would be able to understand the policies and measures undertaken by the RBI for the regulation					
of	noney & in turn controlling the money induced economic issues/irregularities in the economy.					
Unit	Content					
I	Money Evolution					
	1. Meaning, Definition, Stages of Evolution of Money					
	2. Nature and Functions of Money					
	<ol><li>Paper Currency: Concept, merits and demerits</li></ol>					
	<ol><li>Methods of Note Issue- Fixed Fiduciary Method, Proportionate Reserve</li></ol>					
	5. Method, Minimum Reserve Method: Concept, merits & demerits					
П	Commercial Banks					
	1. Meaning & Importance of Commercial Banks					
	2. Functions of Commercial Banks					
	3. Credit Creation by Commercial Banks					
	4. Principles of Sound Banking System					
	<ol><li>Non Performing Assets - Concept, Causes, Consequences &amp; Remedies</li></ol>					
	6. Commercial banking schemes for Women - Concept, Role.					
- 111	National Income & Economic Issues					
	1. National Income: Meaning, Methods of Calculation					
	2. Inflation- Meaning, Nature, Causes, Effects, Remedies, Types of inflation					
	3. Deflation - Meaning, Nature, Causes, Effects, Remedies					
	4. Trade cycle: Concept, features, phases					
IV	RBI & Money Market					
	1. History, Meaning & Functions of Central Bank					
	2. Importance of Monetary Policy					
	3. Methods of Credit Control by Central Bank					
	4. Money Market: Concept, Objectives, importance					
	5. Overview of Current Monetary Policy of RBI					
	Recommended:					
	Aonetary Economics, RR Paul, Kalyani Publishers, New Delhi.					
2.	<b>Noney, Banking, Trade &amp; Public Finance,</b> M. V. Vaish, New Age International Pvt. Ltd, New Delhi.					
	<b>Noney, Banking and International Trade,</b> K.P.M. Sundaram , Sultan Chand, New Delhi.					
	Public Finance, Tyagi & Jai Prakash, Nath Publishers, Kolkata					
5.	Aoney and Financial System, P.K. Deshmukh, Phadke Prakashan, Kolhapur					
6.	Principles of Economics, H.L Ahuja, S Chand Publication, New Delhi					

	Operating System and Computer Hardware & Networking (BCCAC 2.3)				
Те	aching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Objec	Objectives: Operating System is interface between the hardware's resources which include the processors,				
memo	bry, data storage and I/O devices. It understands basic concepts & structure of computer hardware &				
netwo	orking.				
Learn	ing Outcomes:				
Stude	nt would able to get the knowledge of Operating System and Computer Hardware & Network connected				
peripl	neral devices like printers, scanners and copiers or sharing of system and application software between				
multip	ple users.				
Unit	Content				
I	DOS & Windows				
	<b>DOS</b> – Introduction booting procedure, types of simple batch, multiprogramming, time sharing,				
	parallel system, distributed system, real time system, multiprocessing, DOS Commands: Internal &				
	External Commands.				
	Windows 11: - Introduction, Functions, Customize setting, use of control panel.				
П	Linux				
	Introduction to Linux, uses. <b>File Handling Commands</b> - ls, pwd, vim, cp, mv, rm, find; history; pattern;				
	text processing – cut, echo, wget, grep, wc, sort, linux, file permission, system administration –				
	chnode, chown, su, password, who; Process Management commands – ps, kill, Archival commands -				
	tarzip, unzip				
- 111	Computer Hardware				
	Introduction about Computer: Basics of computer, Organization of computer, Software and				
	hardware. Input/output devices: Motherboard, Types of Motherboards, SMPS, troubleshooting.				
	Inside the PC: Opening the PC and identification, Study of different blocks, Assembling and				
	dissembling.				
IV	Networking: Network basic and configuration: Setting IP addresses, Sharing files and folders.				
	Network troubleshooting, PING test, ipconfig etc., Types of servers: Introduction to server, Files				
	servers, Email Servers, Proxy servers etc. Network Security, Network topologies, Network Types: LAN,				
	WAN, MAN & PAN Networking Model: The OSI model, TCP/ IP Model. Introduction to various				
	networking devices: Routers, Switches, Modems, Hubs etc. Wired and Wireless technology, Basics of				
	Internet and Intranet				
	Recommended:				
1.	Operating System Concept, Silberschatz, Galvin & Gagne, John Willey & Sons Inc, Haboken, NJ				
2.	The UNIX Programming Environment, Kernighan & Pike, PHI, London				
3.	Linux: The Complete Reference (Sixth Edition), Richard Petersen, McGraw Hill, New Delhi				
4.	The Complete Reference, PC Hardware- Craig Zacker John Rourke, McGraw Hill, New Delhi				
5.	Cisco Networks, Christopher Carthern, William Wilson, Noel Rivera, Richard Bedwell				
6.	Computer Networks, Fourth Edition, Andrew S., Tanebaum				

Programming in C++ (BCCAC 2.4)				
Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
<b>Objectives:</b> C++ improves C with object-oriented features. It is a general-purpose Programming language				
which is regarded as a middle-level language, as it comprises a combination of both high-level and low-lev	/el			
language features.				
Learning Outcomes:				
Student can get their interest in some areas where C++ is popularly used i.e. Operating Systems, Librarie	es,			
Graphics, Banking Applications, Databases, Embedded Systems, Compilers				
Unit Content				
I Introduction to Object Oriented Programming:- What is OOP, Structured, Procedural Programmir	ıg,			
Basic concepts of OOPS, Advantages of OOPs, Disadvantages of OOPs, Applications of OOP	٬S,			
Comparison of PPL & OOP, Steps in developing OOPs Programs, Token:- Keywords, Identifier and	nd			
Constants, Data type, Symbolic Constant, Variables, Dynamic initialization of variables, Operators				
C++, Scope resolution Operator, Memory Dereferencing Operator, Memory Management Operator				
Manipulator, <b>Functions in C++:-</b> Main(), Function Prototyping, Call by Reference, Return by reference	æ,			
Default Argument, Constant Arguments				
II Classes and Object:- Structure and Class, Declaration of class, Member Function, Access Specifie	-			
Arrays within class, Pointer and Classes, Nested Class, Special Member Functions:- Constructor	-			
Destructor, Inline Function, Static Class Member, Friend Function, Dynamic Memory Allocation, Th	nis			
Pointer, Mutable				
III Inheritance:- Introduction, Types, Define Derived Class, Types of Derivation, Types of Base Clas	-			
Ambiguity and resolution in single and multiple inheritance, Array of class object in single inheritance	-			
Container Classes, Virtual Base Class, Abstract Class, Constructor in derived class, Member Class				
(Nesting of Classes), <b>Overloading function and Operator:-</b> Function Overloading, Operat				
Overloading, Rules of Overloading Operators, Overloading unary operator, Overloading Bina	-			
Operator, Manipulation of string using operator, Overloading Binary operator using Friend Functio				
IV Polymorphism and Virtual Functions:- Introduction to polymorphism, Early Binding, Late Bindir Relumershipm with Relators Virtual Function, Pure Virtual Function, Abstract Class, Construct	0.			
Polymorphism with Pointers, Virtual Function, Pure Virtual Function, Abstract Class, Construct				
under Inheritance, Destructor under Inheritance, Virtual Destructor, Virtual Base Class, <b>Templat</b> and Exception Handling:- Function Template, Class Template, Exception Handling Mechanism Thro				
Try, Catch, Multiple Catch Statement, File Operations:- Opening & Closing files, stream state, memb	-			
function, reading, writing a character from a file, Classes and File operations, Structure and f				
operation, Array of classes object and file operation, Random Access Files.	ie			
Books Recommended:				
1. Object Oriented Programming, E. Balagurusamy, Tata McGraw Hill, New Delhi				
2. Let Us C++, - Yashwant Kanitkar, BPB Publications, New Delhi				

	Business Ethics and Corporate Culture (BCCASFC 2.0)			
Teaching Hours: 4		Total Credits: 4	Total Marks: 80	Group: Core Skill
				Foundation
Obje	<b>tives:</b> The objective	of this paper is to make th	e students more clear abou	it the importance of ethics in
busin	ess and practices of	good corporate governance	2.	
Learr	ing Outcomes:			
i)	-		les, values and ethical theo	ories
ii)		with the concept of corpor		
iii)		-	s in business, LPG and globa	
iv)			wledge in practical situation	on while dealing with ethical
	concerns in various	•		
v)	•	ge about CSR along with its		
vi)		id apply the concept of cor		
vii)	To develop an over	all idea about ethical invest	ing, insider trading and wh	istle blowing.
Unit			Content	
I	Introduction to Bu			
	-		ethics and sources of ethic	cs, values & types of values.
		n values, morals & ethics		
	-			portance of business ethics.
		: & ethical dilemma, Theori		
II	-			or at work, ethical issues,
			ethical behavior at workpla	ace, guidelines for managing
	ethics in the work			
		g: Ethics & marketing, une		Levienielos volaties to othics
		cal behavior/ unethical pra		I principles relating to ethics,
	Corporate Culture			
	-		& importance of cornera	te culture, factors affecting
				terpersonal conflict between
	coworkers,	Types of attitudes, types of		terpersonal connet between
	Relevant Case Stu	dies		
IV			CSR, Need of CSR, forms &	dimensions of CSR
				good corporate governance,
		•		s obligations to stakeholders.
Book	s Recommended:			0
1.		/ Murthy, Himalaya Publish	ing House, Mumbai	
2.		Indian Perspective; A.C. Fe	-	

	Cost Accounting (BCCAC 3.1)			
Te	hing Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core			
Objec	<b>Objectives:</b> This course exposes the students to the basic concepts and the tools used in cost accounting.			
Learn	g Outcomes:			
1.	o understand the concept and practical application of cost sheet and tender sheet.			
2.	o understand the procedure of reconcile the profit as per cost and financial books.			
3.	o understand the basic concept and profit recognition in contract costing.			
4.	o get the detailed understanding of process costing including the concept of loss and by-product.			
Unit	Content			
I	Cost Sheet and Tender Sheet:			
	Theory: Meaning, Nature, Scope, Advantages & Disadvantages of Cost Accounting, Elements of Cost,			
	Concept of Overheads, Direct & Indirect Overheads, Segregation of Indirect Overheads, Advantages			
	and Disadvantages of Cost Sheet and Tender Sheet.			
	Practical Problems: Preparation of Cost sheet and Tender Sheet.			
II	Reconciliation Statement of Profit:			
	Theory: Meaning of Reconciliation statement of Profit, Need, Objectives and Advantages of			
	Reconciliation Statement of Profit.			
	Practical Problems: Preparation of Recompilation Statement of Profit of Cost Sheet and Financial			
	Account by various methods.			
- 111	Contract Account			
	Theory: Meaning of Contract, Types of Contracts, Objectives, Advantages and Disadvantages of			
	Contract Costing, Difference between Contract Costing and Job Costing.			
	Practical Problems: Preparation Contract Account for including Completed Contract and Incomplete			
IV	Contract.			
IV	Process Account: Theory: Meaning of Process, Characteristics, Advantages and Disadvantaged of Process, Meaning of			
	Normal Loss, Abnormal Loss and By-product.			
	Practical Problems: Preparation Process Accounts for Simple Process, By-product, Normal Loss,			
	Abnormal Loss and Gains			
Books	Recommended:			
	ost Accounting, Dr. V.S. P. Rao, Vrinda Publication Pvt. Ltd., Delhi, 2000.			
	ost Accounting, Dr. M.P. Gupta, Mansarovar Publication, Kanpur, 2016.			
	ost Accounting, Dr. R. N. Khandelwal, SBPD Publication, Agra, 2015			
	ost Accounting, Prof. S.N. Patil, Vishwa Publication, Nagpur, 2001.			

	Company Law and Secretarial Practice (BCCAC 3.2)				
Tea	aching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Objec	tives: To impart knowledge of company law and basic practices of a secretary among the students.				
Learni	ing Outcomes:				
After	learning this subject, the student will be able to understand:				
1. T	he formation and incorporation of Company in India.				
2. T	he framework of Memorandum of Association and Article of Association and Prospectus.				
3. T	he concept of Share Capital and Shareholders, Members and Role of a Managing Director.				
4. U	Inderstand the conduct of Company Meetings				
	<b>O</b> a de a d				
Unit	Content				
	<b>Corporate Personality:</b> Meaning of a company, characteristics of a company, Kinds of company, lifting				
	the corporate veil. Formation and Incorporation of company: Stages in formation of a company,				
	Certificate of Incorporation, certificate to commence business, Pre-				
	incorporation contracts				
II	Memorandum of Association and Articles of Association: Meaning of Memorandum of Association,				
	contents of Memorandum of Association, alteration in Memorandum of Association, importance of				
	Memorandum of Association, Meaning and definition of Articles of Association, contents of Articles				
	of Association, Doctrine of constructive notice, Doctrine of ultra vires, procedure for alteration of				
	Articles of Association.				
	Prospectus: Definition of Prospectus, Contents of prospectus, Types of Prospectuses - Abridged				
	prospectus, Shelf prospectus, Deemed Prospectus, Statement in Lieu of Prospectus,				
	misrepresentation in Prospectus, consequences of				
	misrepresentations				
	Share Capital: Classification of share Capital, Meaning of Shares, Kinds of Shares, Issue of Shares				
	Shareholders and Members: Meaning of shareholder/ Member, Procedure to become a member, kinds of members.				
	<b>Directors:</b> Meaning of Directors, D.I.N, Appointment of Directors, Powers and duties of Directors Managing Directors: Meaning of Managing Directors, Qualifications of Managing Directors,				
	Managing Directors: Meaning of Managing Directors, Qualifications of Managing Directors, Appointment of Managing Directors				
IV	Secretary: Meaning, Definition of secretary, qualifications of company secretary, duties of secretary,				
	Liability of Company Secretary, Role of Secretary: As trustee, As an employee, As an administrative				
	officer.				
	<b>Company meetings:</b> Need for meeting, notice, agenda, quorum; Statutory general meeting, Annual				
	general meeting, Extra ordinary general meeting				
Books	Recommended:				
	ompany Law & Secretarial Practice, Kapoor, N.D, Sultan Chand & Sons, New Delhi.				
	idian Company Law, Singh Avtar, Eastern Book Company, Lucknow.				
	4. Corporate & Allied Laws, Munish Bhandari, Best Word Publication				
	nalysis of Companies Act 2013 CCH				

sis of Companies Act, 2013 CCH iary

		Web Designing 8	& HTML (BCCAC 3.3)	
Те	aching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Core
Objec		gn works on getting a webs 'Selling on the internet" or	•	for business requirements.
Learni	ing Outcomes:			
HTMI	L is Basic of all Prog	ramming Languages so th	at students will be able to	create web pages which can
	rstand by any web			1 0
Unit			Content	
I	Disadvantages of Web Publishing, ( <title>, ,&lt;br&gt;tags.&lt;/td&gt;&lt;td&gt;HTML, Flow of Web Inform&lt;br&gt;Creating a Simple Static We&lt;br&gt;, &lt;h1&gt; to &lt;h6&gt;, &lt;ol&gt;, &lt;ul&gt;, &lt;&lt;/td&gt;&lt;td&gt;ation, Role of Web Browse&lt;br&gt;b Page : About HTML, Basic&lt;br&gt;&lt;li&gt;, &lt;dl&gt;, &lt;pre&gt;, &lt;marquee&lt;/td&gt;&lt;td&gt;web site, Advantages and&lt;br&gt;r and Web Server, Process of&lt;br&gt;c elements : &lt;html&gt;, &lt;head&gt;,&lt;br&gt;e&gt;, &lt;hr&gt;, Physical and Logical&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Absolute path, Comments&lt;/td&gt;&lt;td&gt;•&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;II&lt;/td&gt;&lt;td&gt;URLs, creating lin&lt;br&gt;and their related&lt;br&gt;images as hyperlin&lt;/td&gt;&lt;td&gt;ks within the same page, va&lt;/td&gt;&lt;td&gt;rious types of URLs that ca&lt;br&gt;Links to (external) images&lt;br&gt;s for internet and HTML.&lt;/td&gt;&lt;td&gt;ating links to web pages and&lt;br&gt;in be used in links, Image tag&lt;br&gt;, Using Inline images, Using&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;   &lt;/td&gt;&lt;td&gt;Frames and Emb&lt;/td&gt;&lt;td&gt;edding Multimedia: Frame&lt;/td&gt;&lt;td&gt;s, Image Map and Web Fo&lt;/td&gt;&lt;td&gt;nt Creator: Frames and their&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;creation, Image N&lt;br&gt;designs, Form Cor&lt;/td&gt;&lt;td&gt;Maps &lt;map&gt; and &lt;area&gt; tanta ta&lt;/td&gt;&lt;td&gt;ngs, Client – Side and Serve&lt;/td&gt;&lt;td&gt;er – Side image maps. Form&lt;br&gt;g sound/audio formats, video&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;IV&lt;/td&gt;&lt;td&gt;Cascading Style S&lt;br&gt;to a single sheet,&lt;br&gt;Color and Backgro&lt;/td&gt;&lt;td&gt;Embedding style sheet, Us&lt;br&gt;ound properties, Text prope&lt;br&gt;uction, Client-Side Java Scri&lt;/td&gt;&lt;td&gt;ing inline style, Style sheet&lt;br&gt;rties, Box properties.&lt;/td&gt;&lt;td&gt;ng style to document, linking&lt;br&gt;properties, Font properties&lt;br&gt;ons, Incorporating Java Script&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Books&lt;/td&gt;&lt;td&gt;Recommended:&lt;/td&gt;&lt;td&gt;777&lt;/td&gt;&lt;td&gt;प्रह र&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;th HTML, C Xavier, McGraw&lt;/td&gt;&lt;td&gt;Hill New Delhi&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;B Publications, New Delhi&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;(&lt;b&gt;ML,&lt;/b&gt; Xavier (TMH)&lt;/td&gt;&lt;td&gt;,&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>			

4. JavaScript in Easy Steps, Mike McGrath, Tata McGraw-Hill, New Delhi.

		Programming	in C# (BCCAC 3.4)			
Те	Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core					
Objec	<b>Objectives:</b> The C # Programming language is intended for use in developing software components suitable					
for d	eployment in distrik	outed environments. It is	suitable for writing applic	ations for both hosted and		
embe	dded systems					
Learn	ing Outcomes: Stud	ents would able to develo	p native windows applicat	ions, mobile apps, websites,		
game	s and even native Ar	ndroid or iOS apps by learn	ing of C# with some additic	nal frameworks like Xamarin		
or Mo	ono.					
Unit			Content			
I				, Operators, Program control		
				look at methods and classes.		
			es, Inheritance, Interfaces	structure and Enumeration,		
	Exception Handlin	-				
II	-			assemblies, runtime type ID,		
	Reflection and attributes, Generics, Unsafe code, Pointers, Nullable types, Miscellaneous keywo					
	Constructors, Overloaded Constructors, Static Constructors, Private Constructors, Copy Constructors					
	Destructors	Understandten NET 11				
111		_		Strategy, .NET Framework,		
				gram Interface, Visual Studio String Objects to Write Line		
		Main Methods, Compile Ti		String Objects to write Line		
IV	-			Aultithreaded programming,		
			dows forms features, Deplo			
Book	s Recommended:					
		nce C# 2.0. Schildt Herbert.	Publisher McGraw-Hill Pro	fessional Publishing. New		
	Delhi					
		1010, Waston, Karli Nagel, (	Christian Pedersen, Jacob H	lammer raid, Jon D, John		
	Viley & Sons Incorpo			, ,		
	4. <b>C# Black book,</b> Telles, Matthew A, Coriolis Group books					

		MIS and System	Analysis (BCCAC 3.5)		
Те	Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Objec	<b>Dbjectives:</b> MIS and System Analysis is the process of studying a procedure or business in order to identify its				
goals	and purposes and ci	reate systems and procedu	res that will achieve them i	n an efficient way.	
	-			e organization at a glance of ving the quality of decisions.	
Unit			Content		
I	System concepts a	and the information system	ns environment, System De	velopment Life Cycle, Role of	
	System Analyst				
II	System Planning a	nd the initial investigation,	information gathering, The	e tools of structured analysis	
Ш	Feasibility Study, Input/Output and forms design, System Testing and Quality Assurance				
IV	Implementation, Post Implementation and Software maintenance, Security, Disaster recovery and ethics in system development				
Books	s Recommended:				
1. <b>S</b>	ystem Analysis and	Design Methods, Jeffrey L	Whitten, Lonnie D Bentley,	, McGraw-Hill <i>,</i> New Delhi.	
2. <b>S</b>	ystem Analysis and	Design, Edward, McGrew-	Hill, <mark>N</mark> ew Delhi.		
3. N	Aanagement Inform	ation Systems, A. K. Gupta	, S. Chand, New Delhi.		
4. N	Aanagement Inform	ation Systems, Mahesh Ha	lale, Himalaya Publishing H	ouse	
5. <b>S</b>	System Analysis and Design, Elias M. Awadh, Galgotia Publications, New Delhi				
6 N	Management Information System, D. P. Goval, Vikas Publishing House, New Delhi				

6. Management Information System, D. P. Goyal, Vikas Publishing House, New Delhi



		<b>Computer Application</b>	in Business (BCCASFC 3.0)	
Tea	aching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Core Skill
				Foundation
-				Financial Accounting Tally is
an acc	ounting package wh	nich is used for learning to	maintain accounts.	
	-	_		nt, Order Management, Tax
Mana	gement, Payroll, Ba	anking and many such re	quirements of the busine	ss by learning of Tally.ERP9
Accou	nting Software.			
Unit			Content	
I		•	•	edure, Opening Tally Prime,
	Components of Ta	Illy Prime, Creating a Comp	any. Creating Accounting N	Nasters - Introducing Groups,
	Introducing Ledge	rs, Introducing Vouchers.		
Ш	-	•	Stock Category, Stock Item	s, Unit, Godown, Introducing
	Purchase Orders a			
		uchers entry, Day Book.		
	-	– Cheque Printing, Bank Re		
			-	Vorking with Stock Summary,
		tio Analysis and Display mo		
				ttendance / Production Type
	•	orking with Payroll Voucher		
				avantages, Slabs of GST, GST
				Source (TDS), TDS Invoicing, nvoicing, TCS Challan Printing.
IV				, Disconnect, Remote Access,
	•			Restore), Exchange (Data
				(Reports & Company Data),
	Email, Print, Help		373	(
Books	Recommended:	X to C		
1. <b>T</b>	ally Prime, Tally Edu	ucation Private Ltd (TEPL).	ПЕ	
		ancial Accounting Using Tal	ly Prime, BPB Publications.	
3. N	lastering in Tally Pr	ime, Ascent Prime Publicat	ions.	
4. <b>T</b>	ally Prime GST, Unit	ted Publications		
5. <b>T</b> a	5. Tally Prime Training Guide, BPB Publications.			

	Management Accounting (BCCAC 4.1)				
Теа	Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Object	ives: The objective of the course is to enable students to acquire sound Knowledge of concepts,				
metho	ds and techniques of management accounting and to make the students develop competence with				
their u	sage in managerial decision making and control.				
Learni	ng Outcomes:				
1. To	understand practical aspects of preparation of cash budget				
2. To	get acquainted with practical aspects of ratio analysis				
3. To	be coherent with the concepts and practical aspects of fund flow statement				
4. To	understand the concepts of marginal costing and application of the same in short term managerial				
de	cisions.				
Unit	Content				
I	Introduction and Budgetary Control:				
	Theory: Meaning and Definition, Characteristics, Objectives, scope, and functions of Management				
	Accounting- Difference between Financial Accounting, Cost Accounting and Management Accounting.				
	Meaning of Budgetary Control, tools of Budgetary Controls, Types of Budgets, Advantages and				
	Disadvantages of Cash Budget				
	Practical Problems: Preparation of Cash Budget.				
П	Ratio Analysis:				
	Theory: Meaning of Ratios, advantages and limitations of Ratio Analysis. Types of Ratios - Liquidity				
	Ratios, Solvency Ratios, Profitability Ratios, Efficiency Ratios.				
	Practical Problems: Calculation of Operating Ratios and Financial Ratios.				
Ш	Fund Flow Analysis				
	Theory: - Meaning of Fund Flow, Uses of fund flow statement, Objectives, Advantages and				
	Disadvantages of Fund Flow Statement, Meaning of Working Capital, Meaning of Current Assets and				
	Current Liabilities, Changes of Working Capital				
	Practical Problems: Preparation of Statement Showing Changes in Working Capital, Profit and Loss				
	Adjusted Account and Fund Flow Statement.				
IV	Marginal Cost Analysis:				
	Theory: - Meaning of Marginal Costing, Use of Marginal Costing, Advantages of Marginal Costing,				
	Meaning and Use of Break-Even Point, Advantages and Limitation of Break Even Point, Introduction				
	of Various Concepts Like Contribution, Profit Volume Ratio, Fixed Costs, Margin of Safety.				
	Practical Problems: Calculation of BEP in Units and Amount, Profit Volume Ratio, Margin of Safety,				
	Fixed Cost, Sale, Profit, Variable Cost, Contribution				
	Recommended:				
	anagement Accounting, Surendra Singh, PHP Learning Pvt. Ltd., Delhi, 2016.				
	anagement Accounting, M. Y. Khan. K. P. Jain, Tata McGraw Hill Education Pvt. Ltd., Delhi, 2011.				
	anagement Accounting, Dr. B. K. Mehata, SBPD Publication, Agra, 2015.				
	anagement Accounting, RSN Pillai, S. Chand & Co., Ltd., New Delhi, 2012.				
	anagement Accounting, M. Muni raju, Himalaya Pub. House, 2011.				
	anagement Accounting, Dr. Jawaharlal, S. Chand & Co., Ltd., New Delhi, 2006.				
	inciples of Management Accounting, S. N. Maheshwari, S. Chand & Co., Ltd., New Delhi, 2007.				
	nancial Management, Ravi M. Kishore, Taxmann, New Delhi.				
	counting for Management Planning and Control, Richard M. Lynch and Robert Williamson.				
10. <b>A</b>	Ivanced Management Accounting, Ravi Kishor, Taxmann, New Delhi.				

	Business Laws (BCCAC 4.2)			
Т	eaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core			
Obje	ctives: To provide a brief idea of the laws available for the common man.			
Lear	ning Outcomes:			
Aftei	r learning this subject, the student will be able to:			
i)	Demonstrate an understanding of Legal Environment of Business in Indian scenario.			
ii)	Apply basic legal knowledge to business transactions.			
iii)	Communicate effectively using standard business and legal terminology.			
Unit	Content			
Т	INDIAN CONTRACT ACT, 1872			
	Definition, Essential elements of a valid contract, Agreements, Offer and Acceptance, Essentials of a			
	valid offer and acceptance, Consideration, no consideration no contract, Capacity of parties to			
	contract, Free consent, Legality of object, Agreement declared void.			
	Performance of a contract, Types of performance, Discharge of contract, Breach of contract			
	Remedies for breach of contract;			
	Quasi contract, Contingent Contract			
Ш	SALE OF GOODS ACT, 1930			
	Meaning of contract of sale, Difference between sale & agreement to sell, Goods, Classification o			
	goods, Price- modes of fixing price, Conditions and Warranty, Implied Conditions and Warranty			
	Difference between conditions and warranty, Transfer of ownership/property in goods, Doctrine o			
'Caveat Emptor', 'Nemo dat quod non habet', Unpaid seller, Rights of an unpaid seller, Sale b				
Ш	CONSUMER PROTECTION ACT, 1986			
	Definitions- Complaint, Complainant, Consumer, Person, Service, Defect, Deficiency, Unfair trade			
	practices.			
	Rights of consumers; Procedure to file complaint; procedure on receipt of complaint; Remedies			
	available to consumers			
	Consumer protection Councils; Consumer Disputes Redressal agencies- District Forum, State			
	Commission, National Commission- their jurisdiction.			
IV	INTELLECTUAL PROPERTY LAW			
	Copyright- meaning of copyright, infringement of copyright; procedure for registration of copyright			
	works that can be copyrighted			
	Trademark Act1999- Definition of trade mark; Doctrine of deceptive similarity; infringement o			
	trademark; Remedies in case of infringement			
	Patents Act- Definition, patentable inventions; Procedure for obtaining patent; opposition to grant o			
Deal	patents; infringement of patents; Offences under the Patent Act; penalties			
	ks Recommended: Rucinoss Laws, Kappor N.D., Sultan Chand & Sons, Now Dolbi			
	Business Laws, Kapoor N.D., Sultan Chand & Sons, New Delhi Intellectual property Rights & Law, G.B. Reddy –Gogia Law agency Hyderabad.			
	Law and Practice of intellectual Property, Vikas Vashisht, Bharat Law House Delhi, 1999.			
	I.T. Rules with Information Technology Act, 2000, Taxmann Publication Pvt. Ltd. New Delhi			
5.	Law of Information Technology, Paintall D; Taxmann Publication Pvt. Ltd., New Delhi			

VB.NET (BCCAC 4.3)						
Теа	Teaching Hours: 4Total Credits: 4Total Marks: 80Group: Core					
Object	<b>Objectives:</b> Visual Basic .NET (VB.NET) is a multi-paradigm, object- oriented programming language,					
	mented on the .NET	Framework.				
	ng Outcomes:					
		-		de range of applications like		
	le-based applicatior	, window based applicatio	-	oplication, web services etc.		
Unit			Content			
I			<b>o o</b> ,	stalling Visual Basic.NET, The		
				System. The Microsoft.NET		
			· •	Nindows, Common Language		
				ication. Writing Software –		
				ta Types, Sorting Variables,		
			cisions, The if Statement, Se	-		
II	-		• • •	inumerations, Understanding bkup Tables with Hash table,		
				•		
	Advanced Array Manipulation. <b>Building Windows Application</b> – Responding to Events, building a Simple Application. Creating Complex Applications, Using Multiple Forms, <b>Displaying Dialog Poyes</b>					
	Simple Application, Creating Complex Applications, Using Multiple Forms. <b>Displaying Dialog Boxes –</b> The Message Box Dialog box, The Open Dialog Control, The Save Dialog Control, The Font Dialog					
	Control, The Color Dialog Control, The Print Dialog Control.					
	<b>Creating Menu</b> – Understanding Menu Features, Creating Menu, Context Menu. <b>Debugging and Error</b>					
	Handling – Major Error Types, Debugging, Error Handling. Building Objects – Understanding Objects,					
	Reusability, Our First Object, Constructor, Inheritance, and the Framework Classes.					
IV	Accessing Database - What is Database, SQL Select Statement, Queries in Access, Data Access					
	Components, Data Binding. Database Programming with SQL Server and ADO.NET – ADO.NET, The					
	ADO.NET Classes i	n Action, Data Binding. Der	oloying Your Application – V	Vhat is Deployment? Creating		
	a Visual Studio .N	ET Setup Application, Asse	mblies as Installers, The Co	re of Deployment, Deploying		
	Different Solution, Advance Deployment Option.					
Books Recommended:						
1. Beginning VB.Net 2003, Thearon Willis, Jonathan Crossland, Richard Blair, Dreamtech Press, New Delhi						
2. The Complete Reference, Jeffry R. Shapiro, Visual Basic.NET, McGraw- Hill, New Delhi.						
3. Programming Microsoft Visual Basic.Net, Francesco Balena, Microsoft Press.						
			Kent, McGraw- Hill, New De	lhi.		
5. Beginning VB.NET 2003, Jonathan, Richard Blair, Wiley India Pvt. Ltd.						

Dynamic Web Designing (PHP and MySQL) (BCCAC 4.4)						
Teaching Hours: 4Total Credits: 4Total Marks: 80Group: Core						
Object	<b>Objectives:</b> PHP and MySQL make creating dynamic web sites easier and faster. Its purpose is to provide a					
way to	way to publish and retrieve HTML pages. PHP makes web development easy.					
Learni	Learning Outcomes: By using PHP, students can present dynamic web content on web browsers for the					
persor	nal and professional users.					
Unit	Content					
I	Getting Started With PHP- Basic HTML Syntax, Basic PHP Syntax, Using FTP, Testing Your Scripts,					
	Sending Text To The Browser, Using The PHP Manual, Sending HTML To The Browser, Adding					
	Comment To The Script, Basic Debugging Steps.					
	HTML Forms And PHP- Introduction, Installation, PHP Syntax, Comments, Creating A Simple Forms,					
	Choosing A Form Data In PHP, PHP File, Manually Sending Data to A Page.					
	Variables and Constants- Variables, Types of Variables, Quotation Marks, PHP Constants.					
	Using Numbers- Creating Forms, Performing Arithmetic, Formatting Numbers, Understanding					
	Precedence, Incrementing and Decrementing a Number, Creating Random Numbers.					
II	Data Types- String, Integer, Float, Boolean, Array, Object, NULL, Resource.					
	Using Strings- Creating the HTML Forms, Concatenating Strings, Handling Newlines, HTML And PHP,					
	Encoding and Decoding Strings, Finding Substrings, Replacing Parts of A String.					
	<b>Control Structures</b> - Creating The HTML Forms, Form URL/E-Mail, The if Conditional, Form Validation Functions, Using IF Else, PHP Operators, Using elseif, The Switch Conditional, PHP Loops.					
	Using Arrays- What Is An Array, Creating An Array, Types of Array, Adding Items To An Array, Accessing					
	An Array From A Form, sort function for Array.					
	Creating Web Applications- Creating Templates, Using External Files, Using Constants, Working With					
	The Date And Time function, Handling HTML Forms With PHP, Making Forms Sticky, Sending Email,					
	Output Buffering, Manipulating HTTP Headers.					
	Cookies And Sessions- What Are Cookies?, Creating Cookies, Reading From Cookies, Adding					
	Parameters To Cookies, Deleting A Cookie, What Are Sessions?, Creating Session, Accessing Session					
	Variables, Deleting Session, Filters, Captcha.					
	Creating Functions- Creating And Using Simple Functions, Creating And Calling Functions That Take					
	Arguments, Setting Default Arguments Values, Creating And Using Functions That Return A Value,					
	Understanding Variable Scope, PHP Global Variables – Superglobals.					
	Object-Oriented PHP, Error and Exception Handling					
IV	Files And Directories- File Permissions, Writing To Files, Locking To Files, Reading From Files, Handling					
	File Uploads, Form Handling, Navigating Directories, Creating Directories, Reading Files Incrementally,					
	Exception Handling.					
	Intro To Database- Introduction To SQL, Connecting To MYSQL, MYSQL Error Handling, Creating And					
	Selecting A Database, Creating A MYSQL Database, Create MYSQL Table, Inserting Data Into A					
	Database, Securing Query Data, Retrieving Data From A Database, Deleting Data In A Database,					
	Updating Data In A Database.					
	Putting It All Together- Getting Started, Connecting To The Database, Writing The User- Defined					
	Function, Creating The Template, Logging In, Logging Out, Adding Quotes, Listing Quotes, Editing					
Books	Quotes, Deleting Quotes, Creating The Home Page. Books Recommended:					
-						
	<ol> <li>The Complete Reference, Holznr, PHP, McGraw-Hill, New Delhi.</li> <li>PHP &amp; MySQL in Easy Steps, Mike Mcgrath, McGraw-Hill, New Delhi.</li> </ol>					
	4. <b>PHP and MySQL,</b> Joel Murach & Ray Harris, Murach's, Shroff Publishers, Delhi.					
	5. Beginning PHP and MySQL, Jason Gilmore, APress					

6. **PHP for Web,** Larry Ullman, Pearson, Chennai.

Database Management System and Oracle (BCCAC 4.5)						
Te	ching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core					
Objec	Objectives: Database management system is the means of controlling databases either the hard disk in a					
deskto	desktop system or on a network. The goal of a relational database design is to generate a set of relation					
schem						
Learn	g Outcomes:					
Stude	s can manage the database by DBMS & Oracle used for running Online Transactions processing					
(OLTP	Data Warehousing (DW) and mixed database workload.					
Stude	s can store and retrieve related information.					
Unit	Content					
I	Database environment, Data processing, Traditional and DBMS environment, Database system, Types					
	of databases - Centralize, distributed, Database management system, Components of DBMS, DBMS					
	elements, Database Approach - Objectives, benefits, characteristics, Advantages of DBMS, The three					
	tire architecture, Three level architecture, Database administration – Roles, Functions and					
	responsibilities of DBA.					
П	The E-R Model – Data models, Entities, attributes and relationship, Logical and Physical database					
	design, Mapping Cardinalities, Database development process, Database development life cycle.					
	Integrity constrains. Transforming ERR diagrams into relations, tree structure and hierarchical.					
	Normalization, Codd's 12 rules, hierarchical database structure, Network database structure,					
	Relational database structure RDBMS.					
Ш	Introduction to ORACLE as RDBMS, History& standardization of SQL, Elements of SQL: Database					
	objects, reserved words, Keywords, Variables, Data Types, Operators. Types of SQL : DDL, DML, DCL,					
	Create table, Alter table, Crate view, Drop table, grant, revoke, commit, delete, insert, lock table,					
	rollback, save point, Update, Select statement, Where clause. Functions: Arithmetic & Characters					
	comparison, Logical set <mark>, Like function, Group funct</mark> ion, Date Functions.					
IV	Introduction to PL/SQL, Variables, Initialization of variables, Dynamic data types, Control loop					
	statements, PL/SQL Cursor: Declare cursor, Fetch, Open cursor, Close cursor. Triggers: Concepts,					
	Trigger definition, Trigger type, Enabling, Disabling & Dropping triggers, synonyms, collections and					
	Record, V array, Nested table, Records					
Books Recommended:						
	1. Database System Concept, Korth and Sudarshan, McGraw Hill, New Delhi					
	n Introduction to Database System, Bipin C. Desai, Galgotia Publications Ltd, New Delhi					
	atabase Management System, R. Panneerselvam, PHI, New Delhi					
	racle: I.T. Today (Encyclopedia) 5. Oracle, Oracle Press					

5. Oracle Pl/SQL : PL/SQL in 21 days (Techmedia) SAMS

Environmental Studies (BCCASFC 4.0)						
Teaching Hours: 4		Total Credits: 4	Total Marks: 80	Group: Core Skill		
				Foundation		
Objec	Objectives:					
The ol	pjective of the pape	r is to understand the base	s of diversity and its linkage	es with the people, livelihood,		
occup	ational diversity and	d socio-economic challenge	es.			
Learni	ng Outcomes:					
After	earning this subject	t, the student will be able to	o understand:			
i) T	he concept of Ecosy	vstems and Environment				
ii) T	he facts about use a	and over exploitation of Nat	tural resources and the role	e of individual in conservation		
0	f such natural resou	irces				
iii) T	he concept of biodi	versity and its conservation	and environmental polluti	on.		
iv) P	opulation issues and	d environment, role of info	rmation technology in envi	ronment and human health.		
Unit			Content			
I	Multidisciplinary	Nature of Environmental	Studies- Environment, Environme	vironment Studies, Need for		
	public Awareness	, Environmental Degradation	on, Shelter Security, Econo	mic Security, Social Security,		
	Effects of Housing	on Environment, Effects o	f Industry on Environment.			
11	Natural resources	& Conservation: Natural r	esources (overview, challer	nges, conservation strategies)		
	– renewable and	I non-renewable, energy,	water, forest, soil, miner	al resources, Food Security		
				estyles, Sustainable Water		
				in conservation of natural		
Ш	resources; the rights of animals – basic rights, arguments for and against animal rights. <b>1. Biodiversity and its Conservation</b>					
	-	etic, Species and Ecosystem	diversity, Biogeographical	classification of India.		
				, Aesthetic and option values.		
	2. Environmental					
			sures of Air pollution Wate	er pollution and Soil pollution.		
	•					
	b) Causes, effects and control measures of Marine pollution, Noise pollution, Thermal pollution, Nuclear hazards.					
IV		the Environment- Introdu	uction Sustainable Develo	pment, Urbanization, Water		
				s and Concerns, Social Issues		
		ent, Wasteland Reclamatic		-		
		•	•	nmental Organization (NGOs)		
				onmental Legislation, Animal		
	Husbandry.			minerital Legislation, Animal		
	•	on and the Environme	nt Population Growth	Family Welfare Programs,		
	• •			Value Education, HIV/AIDS,		
		,		chnology in Environment and		
	Human Health.	deation, women's Education				
Books	Books Recommended:					
	1. A textbook of environmental, K M Agrawal, P K Sikdar, S C Deb", Macmillan.					
	<ol> <li>Environment management, N K Uberoi, Excel Books.</li> <li>Environment management. Dr. Swapan Deh", Jaice Publishing House.</li> </ol>					
	<ol> <li>Environment management, Dr. Swapan Deb", Jaico Publishing House.</li> <li>Environmental Management S.K. Agravus", A.B.H. publishing Comparation.</li> </ol>					
	4. Environmental Management, S K Agrawal", A.P.H. publishing Corporation.					
	5. Environmental Studies, Rajagopalan, Oxford.					
0. E	6. Environmental Studies, Shashi Chawla, McGraw-Hill, New Delhi.					

Auditing & Corporate Governance (BCCAC 5.1)						
Те	Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core					
Objec	Objectives: To provide knowledge of auditing principles, procedures and techniques in accordance with					
current legal requirements and professional standards and to give an overview of the principles of Corporate						
Gover	nance and Corporate Social Responsibility.					
Learn	ing Outcomes:					
After	learning this subject, the student will be able to understand:					
-	Mechanisms of Corporate Governance.					
'	Role of Board of Directors in Corporate Governance					
- '	Corporate Governance in Indian context.					
Unit	Content					
I	Introduction: Definition of audit, Objectives and Advantages of auditing, Basic principles of auditing,					
	Types or Classification of auditing, Techniques of Auditing.					
	Internal control system – Features, Objectives, Advantages & Disadvantages.					
	Internal check – Fundamental Principles & Advantages. Internal audit – Need and function of internal					
	auditing. Audit Plan & documentation of audit plan. Audit programme & constructing an audit					
	programme, Audit evidence.					
II	Company Audit: Qualification, Disqualification, Appointment & Removal of auditors. Ceiling on					
	number of audits, rights, powers & duties of a company auditor, remuneration of auditor, Audit					
	Committee. Civil liabilities of an auditor, professional negligence.					
	Audit Reports					
	Introduction and Basic elements of an auditor's report, Form of opinion (Modified, Unmodified,					
	Qualified, Adverse and Disclaimer of opinion) and basis for opinion, Introduction to Standards on					
	Auditing (SA).					
	Companies (Auditor's Report) Order, 2020 Introduction to CARO 2020, Applicability of CARO 2020, Overview of reporting requirement under					
	CARO 2020					
IV	Corporate Governance:					
	Meaning, definition, need & objectives, importance, features of good corporate governance. Role of					
	SEBI in corporate governance, Good corporate governance companies in India, Models & Theories of					
	corporate governance.					
	Reforms & Committees:					
	Corporate governance reforms in India, Types of Committee Reports on Corporate Governance,					
	Principles of corporate governance, Corporate Governance Failure (Case Studies of ENRON, WAL-					
	MART & SATYAM)					
Books Recommended:						
1. Auditing Principles and Practice, Ravinder Kumar and Virender Sharma, PHI, New Delhi						
2. Auditing, Aruna Jha, Taxmann Publication, New Delhi.						
3. <b>A</b>	3. Auditing Theory and Practice, A. K. Singh, and Gupta Lovleen, Galgotia Publishing Company, New Delhi.					
	4. Corporate Governance: Theory and Practice, Anil Kumar, Indian Book House, New Delhi					
C	Chapters)					

Indian Financial System (BCCAC 5.2)						
Te	Teaching Hours: 4Total Credits: 4Total Marks: 80Group: Core					
Objec	Objectives: To enable and equip the students with the understanding of Indian Financial System.					
Learn	ing Outcomes:					
After	learning this subject, the students will be able to understand:					
i)	The concept of money markets, capital markets and various instruments of money and capital markets.					
ii)	The instruments of global capital markets, financial markets.					
iii)	The meaning and working of derivative market in India.					
Unit	Content					
I	Components of formal financial system- Structure & Functions of Financial system, Nature and role					
	of financial institutions and financial markets, financial system and economic growth.					
	Money Markets - Overview of money markets, functions & operations, instruments, Treasury Bills					
	and types, Commercial papers, Commercial bills, Call money market, Money market intermediaries,					
	Money markets and monetary policies in India.					
	CAPITAL MARKET					
	Capital Market: Structure of the Indian Capital Market – Recent Developments in the Indian Capital					
	Market - Interlink between Money Market and Capital Market - Overview of Debt Market in India					
П	Financial regulations & financial services-					
	Financial Regulation - SEBI – Management, powers and functions, Investor protection measures, RBI					
	– objectives, organization, role. Financial services: Meaning, need and importance Factoring,					
	Securitization of debt, Plastic money, Venture Capital, Credit rating					
ш	Financial Instruments:					
	Traditional Instruments: Equities, Debentures and Bonds; Hybrid Instruments: Different types of					
	bonds such as Floating Rate Bonds, Zero Coupon Bonds, Deep Discount Bonds, Inverse Float Bonds					
IV	The Derivative Market in India:					
	Meaning of Derivatives; Participants in the Derivatives Markets – Hedgers, Arbitragers and					
	Speculators; Significant of Derivative Market; Types of Financial Derivatives – Forwards, Futures,					
	Options and Swaps; Derivatives Trading in India					
	Recommended:					
	athak Bharati (2008): The Indian Financial System – Markets, Institutions, and Services, (2nd					
	dition), Pearson Education, New Delhi.					
	inancial Institutions and Markets, Growth and Innovation, Bhole L. M., Tata McGraw-Hill, New Delhi,					
	2008.					
	3. Financial Economics, Bodie, Z. et. el, Pearson Education, New Delhi, 2009.					
	4. Introduction to Futures and Options Market, Hull John, Prentice Hall of India, Delhi, 2002.					
	5. Financial Services, Khan M.Y., Tata McGraw Hill, New Delhi, 2007.					
	6. <b>Management of Banking and Financial Services,</b> Paul, J. and P. Suresh, Pearson Education, Delhi, 2008.					
	Reserve Bank of India (various issues) Report on Currency and Finance, RBI, Mumbai.					
	8. <b>Reserve Bank of India,</b> Occasional Papers, Vol. 18, Nos. 2 & 3, RBI, Mumbai 1997.					
	<ol> <li>Derivatives: An Introduction, Strong, R. A., Thomson Asia Pvt. Ltd, Bangalore, 2002.</li> <li>Futures and Options, Sridhar, A. N., Equities and Commodities; Shroff Publishers, Mumbai 2006.</li> </ol>					
To. Futures and Options, Shuhar, A. N., Equities and Commodities, Smon Publishers, Mumbal 2000.						

Core Java (BCCAC 5.3)					
Teaching Hours: 4		Total Credits: 4	Total Marks: 80	Group: Core	
Objec	Objectives: It is intended to let application developers write once, run anywhere (WORA), meaning that				
compi	led Java code can ru	in on all platforms that sup	port Java without the need	for recompilation.	
Learni	ing Outcomes:				
•	Student can use Co	ore Java to design Android	Applications.		
•	<ul> <li>Students would be able to design application software for both desktop and web applications.</li> </ul>				
Unit			Content		
I.	History and evalua	ation of Java, Overview of Ja	ava, Data types Variables ar	nd Arrays, Operators, Control	
	Statements, Introducing Classes, Methods and Classes.				
П	Inheritance, Constructors, Method Overriding, Package and Interfaces, Exception Handling,				
	Multithreaded Pro	ogramming, Enumerations,	autoboxing and Annotatior	ns (Metadata).	
III	I/O, Generics, String Handling, Exploring Java.Lang, Java.util: Collection Framework, Input/Output:				
	Exploring Java.io,	The Stream Class, Characte	r Stream, Consoal Class, Se	rialization,	
IV	Applets, Applet Class, Event handling, Introducing AWT: Working with windows, graphics, text, Using				
	AWT controls, Layout Managers and Menus, Images.				
Books Recommended:					
1. Programming with Java, E. Balagurusamy, McGraw-Hill, New Delhi.					
2. <b>J</b> a	2. Java The Complete Reference, Seventh Edition, Herbert Schildt, Mc Grew Hill				
3. <b>Ja</b>	<ol><li>Java The Complete Reference, Ninth Edition by Herbert Schildt Publication, Oracle Press</li></ol>				



Python (BCCAC 5.4)				
Teaching Hours: 4     Total Credits: 4     Total Marks: 80     Group: Core				
<b>Objectives:</b> Python supports multiple programming paradigms, including object- oriented, imperative, functional programming, and procedural styles. It has a large and comprehensive standard library allows programmers to express concepts in fewer lines of code.				
Learning Outcomes:				
• Python is easy to use, and students can easily learn it like English Language.				
• Students can create and learn Console application, Desktop application, web development, Machin				
learning, Internet of things (IOT) applications, system scripting.				
• Students can connect to database system so that they can handle big data and perform comple				
mathematics.				
Unit Content				
<ul> <li>Introduction to Python: Introducing python, installing python on windows, Launching Python on your machine, Identifiers and Variables, writing your first program, obtaining user input, Correcting Errors.</li> <li>Performing operations - Doing arithmetic, assigning values, Comparing Values, Assessing logic.</li> <li>Examining Conditions, Setting precedence, Type Casting,</li> <li>Making statements - Writing lists, manipulating lists, restricting lists, associating list elements, branching with if, looping while true, looping over items, Breaking out of loops.</li> </ul>				
Defining Functions-Understanding scopes, supplying arguments, Returning Values, using callbacks, adding placeholders, producing generators, handling exceptions, Debugging assertions.Importing Modules -Storing functions, owning function names, Interrogating the system, performing mathematics, calculating decimals, Telling the time, Running a timer, Matching patterns.				
<ul> <li>Managing strings - Manipulating strings, formatting strings, modifying strings, accessing files, Readin and writing files, updating file strings, Pickling data</li> <li>Programming objects - Encapsulating data, creating instance objects, Addressing class attribute Examining built-in attributes, Collecting garbage, Inheriting features, Overriding base method Harnessing polymorphism.</li> <li>Processing requests - Sending responses, handling values, submitting forms, providing text area checking boxes, Choosing radio buttons, Selecting options, Uploading files</li> </ul>				
<b>Building interfaces</b> -Launching a window, Responding to buttons, Displaying messages, Gathering entries, Listing options, Polling radio buttons, Checking boxes, Adding images, <b>Python plotting with matplotlib, Developing applications</b> - Generating random numbers, Planning the problem, Designing the interface, Assigning static properties, Initializing dynamic properties, Adding runtime functionality, <b>Python and Databases</b> – ODBC and Python, Installing and Logging into MySQL, Working with MySQL, Accessing MySQL Data from Python, Testing the program, Freezing the program, Deploying the application.				
Books Recommended:				
1. Python Training Guide, John V. Guttag, Publication: BPB Publication				
2. Python Projects, Laura Cassell & Alan Gauld				
3. Think Python, Allen B. Downey, Shroff Publishers, New Delhi.				
4. Practical Programming – An Introduction to Computer Science using Python, Paul Greis, Jennifer				
Campbell, Jason Montojo, Shroff Publishers, New Delhi				
5. Python in Easy Steps, Mike McGrath, McGraw-Hill, New Delhi.				

	Indian Banking & Insurance Systems (BCCADE 5.51)				
Teaching Hours: 4		Total Credits: 4	Total Marks: 80	Group: Discipline Specific	
				Elective	
Objec	tives: To familiarize	the students with the princ	ciples and practices of Bank	ing and Insurance.	
Learn	ng Outcome:				
After	earning this subject	, the student will be able to	o understand:		
•	Principles of borro	wing and lending.			
•	Internet banking.				
•	Concepts of insura	nce.			
Unit			Content		
I	Introduction to Ba	anking:			
	-			ief history, Forms of banking	
	– unit banking, branch banking, Group banking, Chain banking, Satellite and affiliate banking,				
	•	nking, Managerial function			
П	-	-		oans, Cash Credit, Overdraft,	
	Bills Purchased, Bills Discounted, Letters of Credit - Types of Securities – Sound principles of Bank				
	Lending,				
	Internet Banking – Meaning, Benefits, Virtual banking, E-payments, ATM Card/ Biometric card,				
	Debit/Credit card, Smart card, NEFT, RTGS, ECS (credit/debit), E-money, Electronic purse, Digital cash.				
	Introduction to Insurance:				
	Need and Scope of insurance - Basic concept of risk, Life cycle needs including solutions, Kinds of business risks, Principles of insurance - Types of insurance and policies: Life and Non-life, Re-				
			of insurance and policies: I	Life and Non-life, Re-	
	insurance - Risk and Return relationship				
IV		s Environment in India-			
				Role- Claim and Settlement	
Deeks	Procedures - Power, functions and Role of IRDA.				
Books Recommended:					
	<ol> <li>Banking and Insurance, Agarwal, O.P., Himalaya Publishing House</li> <li>Financial Services Banking and Insurance, Satyadevi, C., S.Chand</li> </ol>				
		<b>f Banking</b> , Suneja, H.R., , H			
	Elements of Banking Law, Chabra, T.N., Dhanpat Rai and Sons Elements of Banking and Insurance, Jyotsna Sethi and Nishwan Bhatia, PHI Learning				
J.	Liements UI Dankin	5 and moundine, Jyoushd S	cun anu mishwali bhaild, Fi		

International Trade & Business Administration (BCCADE 5.52)						
Teaching Hours: 4		Total Credits: 4	Total Marks: 80	Group: Discipline Specific Elective		
Objec	Objectives: The objective of the course is to familiarize the students with the concepts, importance and					
dynar	nics of international	business and India's involv	ement with global busines	s.		
Learn	ing Outcome:					
Stude	nts will be able	to Explain the concepts	in international busines	ss with respect to foreign		
trade	/international busin	ess and Administration.				
Unit			Content			
I	Introduction to In	ternational Business:				
	Evolution of Inte	ernational Business, Impo	ortance, nature and scope	e of International Business,		
		•	•	nd its importance in world		
	-			ousiness, Modes of entry into		
	international busir	-				
	Theories of Interr	national Trade:				
	An overview (Class	sical Theories, Product Life	Cycle theory, Theory of Nat	ional Competitive Advantage,		
	factor endowmen	t theory comparative cost	theory); Commercial Policy	Instruments - tariff and non-		
	tariff measures – c	lifference and Impact on tra	ade, types of tariff and non-	tariff barriers (Subsidy, Quota		
	and Embargo in detail) ; Balance of payment account and its components,					
	Disequilibrium in BOP, Balance Of Trade.					
111	Regional Economic Co-operation:					
	Forms of regional groupings; Advantages of Integration, functioning of NAFTA, EU, ASEAN and SAARC.					
	International financial system and institutions (IMF and World Bank – Objectives and Functions);					
	Foreign investments - types and flows; Foreign investment in Indian perspective. Measures for					
	promoting foreign investments into and from India.					
IV	Foreign Exchange	Rate and Management:				
	Foreign Exchange Rate: Meaning and importance of foreign exchange rate. Fixed and flexible exchange					
	rate; Merits and demerits. Foreign exchange market-meaning functions, Dealings on the foreign					
	exchange Market, effects of changes in exchange rate. Foreign Exchange Control: Meaning. Objectives					
	of exchange control.					
Book	Recommended:		TV			
1.	International Busin	ess, Charles W.L. Hill and A	run Kumar Jain,. New Delh	i: McGraw Hill Education.		
2.	<b>International Busin</b>	ess, Daniels John, D. Lee H	. Radenbaugh and David P.	Sullivan. Pearson Education.		
3.	<b>International Busin</b>	<b>ess -</b> Themes & Issues in th	e Modern Global Economy	, Johnson, Derbe., and Colin		
	Turner. London: Roultedge.					
4.	4. International Business, Sumati Varma, Pearson Education.					
5.	<b>International Busin</b>	ess: Text and Cases, Cheru	nilam, Francis. PHI Learnin	g		
6.	<b>International Busin</b>	<b>ess,</b> Michael R. Czinkota. e	t al Fortforth: The Dryden	Press.		
7.	International Busin	ess, Bennett, Roger. Pearso	on Education.			
8.	International Busin	<b>ess Environment,</b> Francis (	Cherunilam – Himalaya Pub	lishing House.		
9.	The International B	Business Environment, Ana	nt K. Sundaram/J.Stewart E	Black- Prentice Hall.		
10.	10. International Business, K. Aswathappa, McGraw Hill Education.					

	Human Resource Management (BCCADE 5.53)			
			Group: Discipline Specific	
				Elective
Objec	tive:			
		arn the basic concepts and		,
		nderstand the role of HR in		
		ing skills of the students at	oout HRM System as a tool	for organizational success
	ng Outcome:			
Stude	nts would be able to	o understand the Aspects o	f HRM in an organization	
Unit			Content	
I		• • • •	•	Importance of HRM, role of
		r, evolution of the concept	of HRM in India.	
	Human Resource I	-		
				cess; orientation; Selection-
	•		lection, interview, test & as	ssessment of effectiveness of
	· · · ·	luction and placement.		
II	-			importance; methods and
				specification & role analysis,
			b Design. Cases & exercises	to understand Job analysis
- 111	Training & Develo		and the state and aff the	ich training) avaluation 9
				e-job training), evaluation &
		lysis, Role of a Trainer	S OF training), TNA- training	g Need Analysis, task analysis,
IV			tura objective limitation	various methods- modern &
IV				ards & Recognitions, awards
				onal files, attendance, leave,
		bsenteeism, Merit rating- c		onar mes, attendance, leave,
		Compensation: Introduct		
Books	Recommended:		ion to code on Wages 2012	
		n Resource Management,	C. B. Mamoria & S. V. Gank	ar., Himalaya Publishing
	ouse			,
		n Resource management.	Text & cases, P SubbaRao.	Himalaya Publishing House
		nagement, P. Jyothi, Oxfor		, ,
		nagement, Ninth Edition, F	•	I, Noe, Pearson Education
5. <b>H</b>	uman Resource and	d Personnel Management -	- Text and cases, K. Aswath	appa, McGraw- Hill
Р	Publishing co. ltd.			

	Entrepreneurship Development (BCCADE 5.54)				
Tea	aching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Discipline Specific	
	Elective				
Objec	<b>tive:</b> The purpose of	f the paper is to orient the	learner toward entreprene	urship as a career option and	
creativ	ve thinking and beha	avior.			
Learni	ing Outcome:				
After	learning this subject	, the student will be able to	o understand:		
1. H	listorical evolution c	of entrepreneurship.			
2. V	arious entrepreneu	rship trends.			
3. P	rocedures of opport	tunity scouting and idea ge	neration.		
4. T	he concept, need, p	roblems of Rural entreprer	neurship and measures to d	levelop the same.	
Unit			Content		
I	Introduction:				
	Entrepreneur - N	leaning- importance- nat	ure, types, and challeng	es. Role and Functions of	
	Entrepreneur, Eco	onomic difference betwee	en Entrepreneur and Intr	apreneur. Entrepreneurship	
	development-its ir	nportance- Role of Entrepr	eneurship in economic dev	velopment, Characteristics of	
	•			nce, Women Entrepreneurs,	
	•			Ease of doing business, Case	
			f Entrepreneurship in Indi	a, Start-up nation, Obstacles	
	for women entrep	reneur.	Hereit		
П	Entrepreneurial sl				
	•			al leadership, Significance and	
			p process, Techniques of Id	ea generation and screening,	
	Steps of Idea Gen		3 G, P		
- 111	=	ning and financing: -			
				ve, elements, Business plan	
				for the new venture launch,	
				ions; New venture expansion	
		ies - Going public - ending t	he venture.		
IV	International Entr		ge		
	=			ation- meaning and process,	
				promoting Entrepreneurship	
		various; incentives, subsid	lies and grants - Export O	riented Units – Government	
	Schemes.				
	Recommended:			Kuman Ann Deserve Is P	
			• •	, Kumar, Arya, Pearson, India	
	• •	•	anaging a New Enterprise,		
		-		v Deini, India.	
	•	by, Rajeev, Oxford Universi	•	Tata MaCrow Hill Now	
	•	isrich, Robert D., Michael P	eters and Dean Shephered,	, Tata Micoraw Hill, New	
ן ט	Delhi				

	Quantitative Aptitude and Logical Reasoning (BCCAGE 5.61)				
Теа	aching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Generic Elective	
Object	tive:				
1. To	o develop an understa	nding of the basic mat	hematical and statistical t	ools and their application in	
b	usiness and finance.				
2. To	o develop logical reasor	ing skills and apply the	same in simple problem so	olving.	
		ble to evaluate various	s real life situations by reso	rting to analysis of key issues	
aı	nd factors.				
Learni	ing Outcome:				
After l	earning this subject, the	e student will be able to	o understand:		
	oncept of ratio and pro	portion.			
2. C	oncept of interest.				
1	ogical reasoning.				
Unit			Content		
I	Ratio & Proportion an				
			oplication of inverse ratio.		
	•	• • • •	ortion, laws on proportion	on (Invertendo, Alternendo,	
	Componendo, Dividen				
		ndices & laws of indices	s (Easy applications)		
11	Simple & Compound		HE ON		
			charged, definition of Intere	est, Principal, Rate of interest	
	& Accumulated amou		41083		
		pound interest, differe			
			nuity & Future value, futur	e value of an annuity regular,	
	basic concept of prese				
111	•	mutation & Combinati			
				nutation with restrictions and	
	-	tion (easy to moderate	level).		
IV	Logical Reasoning				
		bet series, letter coding	, number coding and blood	relations. (Basic & Moderate	
Deeks	level)		Y I I		
	Books Recommended:				
	1. Quantitative Aptitude for competitive exams, Dr. R. S. Agrawal, S. Chand.				
	<ol> <li>A Modern Approach to Logical Reasoning, Dr. R. S. Agrawal, S. Chand</li> <li>Quantitative Aptitude for all competitive exams, Abhijit Guha, Tata Mac Graw Hill.</li> </ol>				
	-	<b>de for CAT,</b> Deepak Agr	•		
	-		•		
-	-			matics & Logical Reasoning &	
Ľ	•		e, raper 5 business widther	natics & Logical Reasoning &	
-	-	de, Shripad Deo, Allied f CA Foundation cours		matics & Logical Reasoning &	

	Econometrics (BCCAGE 5.62)				
Те	Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Generic Elective				
Objec	tive:				
The c	ourse is designed t	o equip students with ba	sic econometric skills requ	uired for applied research in	
Econo	omics.				
Learn	ing Outcome:				
1. S	tudents would be a	ble to build clarity on ap	plication of statistical tech	nniques to analyse and solve	
e	conomic issues.				
				istical techniques to various	
	conomic issues to e	volve with a concrete solut	ion.		
Unit			Content		
I.	Introduction				
				nent of Theory or Hypothesis,	
				Prediction, Use of the Model	
		cy Purposes. Types of Econo	ometrics.		
11	Classical Linear Re	-			
	<i>.</i> .			pirical Econometric Analysis;	
				unction; Bivariate regression	
		etween GDP and Stock ma	rket in India- Analysis witl	n example	
- 111	Estimation and Re		HE STA		
				termination R2 ; Assumptions	
		al Linear Regression Model;	Gauss Markov Theorem		
IV	Multiple Linear Re	-	19		
	Interpretation of P	artial Regression Coefficier	<mark>nts; In</mark> terval Estimation and	Hypothesis Testing:	
	Research ethics –	Plagiarism, Referencing			
Books	Books Recommended:				
1. B	asic Econometrics,	Gujarati, Damodar N.; Port	er, Dawn C. & Gunasekar, S	Sangeetha: (5th ed.) New	
C	Delhi. Tata Mcgraw Hill Education Private Limited, 2012.				
2. li	ntroduction to econ	ometrics, Dougherty, Chris	topher: (4th ed.) New Dell	ni. Oxford University Press,	
	011.		3		
3. E	conometric models	, techniques and applicat <mark>i</mark> c	ons, Intriligator, Michael D.	.: New Delhi. Prentice-Hall Of	
l li	ndia Private Limited,	1980.			

	E-Governance (BCCAGE 5.63)					
Теа	Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Generic Elective					
Object	tive:					
				technology (ITC) for delivering		
govern	nment services, exc	hange of information, com	munication transaction, et	tc.		
	ng Outcome:					
		, the student will be able to				
1.	=	of e-governance related t	_			
2.	•	of e-governance related to	-			
3.	Compliance norms	of e-governance related to				
Unit		-	Content			
I	Introduction to E-					
		-governance and role of IC				
	• •	eed for and Importance of	E-Governance			
II	•	npliance in Direct Taxes:				
		•		dure for e-filing of Income Tax		
		come Tax: Due Dates; Vari		ion of Income Tax Returns, E-		
				nnexures to Audit Report 3CD.		
		npliance in Indirect Taxes:				
	_	Meaning, Facilities provide	ed by GSTN			
		online registration of a de		Тах		
	3. Procedure for	filing GST returns; Various	types of GST Returns GST	R-1, GSTR-3B, GSTR-4		
	and GST CMP					
IV	E-governance Con	npliance for Companies an	d Limited Liability Partne	rships (MCA21 Portal):		
	-			ocedure for online application		
				ne application for Corporate		
		Number (CIN), E-filing of A				
			(LLP): Check LLP name; A	Annual E-filing for LLP; Change		
	LLP Information etc.					
	Recommended:					
		ocial Inclusion – Concepts a	and Cases, Scott Baum and	d Arun Mahizhnan, IGI		
	ublications.	Channe ADU D blick'				
		ij Sharma, APH Publishing	D. Cinha			
3. E	3. E-Governance in India – Initiatives and Cases, R. P. Sinha					

	Introduction to Travel and Tourism (BCCAGE 5.64)				
Те	aching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Generic Elective	
Objec	tives:				
1. T	o make students un	derstand the scope in trave	el and tourism and various	aspects related to it.	
2. T	o give brief descript	ion about the Indian touris	m vis-à-vis world tourism.		
3. T	o aware about basio	c concepts and types of trav	el and tourism.		
Learn	ing Outcome:				
After	learning this subject	, the student will be able to	o understand:		
1. T	ourism developmer	it.			
2. Ir	mpact of tourism.				
3. R	ural tourism and ot	her related aspects.			
Unit			Content		
I	<b>Tourism Concepts</b>	& Significance			
	Definitions, Touris	it, Tourism, Leisure, Recrea	ation, Terminology, An ove	erview of Tourism, Historical	
	Development of	Tourism, A historical pers	spective. of travel, Famo	us travelers, The Industrial	
	revolution and tra-	vel, History of transport and	d its impact on tourism dev	elopment	
П	Tourism Systems,	Scope, & Impacts			
	System approach	n to Tourism; Tourism	Industry; Structure and	Components: Attractions,	
				ainment, Infrastructure and	
				n Impacts, Tourism Area Life	
		onstration Effect, Push and	Pull Theory		
- 111	Travel Motivation		URS EL		
	-			ging areas of tourism - Rural,	
				ification of Tourists; Tourism	
				Tourism, Camping Tourism,	
		MICE Tourism, Pilgrimage T	ourism		
IV	Tourism Commun		\$ 31		
				n, Verbal and non-Verbal	
				n Tourism Communication,	
	Communication Process, Tourism Communication System, Methods of achieving Effective				
Pook	Communication, Measurement of Impact of Communication, Mass Media, Media Relations				
-	Recommended:	- Managament Dhatia Al	( (2001) Starling Dublisher	n New Delhi	
	1. International Tourism Management, Bhatia, A.K. (2001), Sterling Publishers, New Delhi.				
	•	•	1		
	• •	Chuck Y. Gee, James C. Mai	kens & Dexter J. L. Choy (19	789), van Nostrand Reinhold,	
	lew York.				
2. T 3. T 4. T	ourism Operations ourism - Past, Prese he Travel Industry,	and Management, Sunetra ent and Future, Burkart A.J.	Roday, et al (2009), Oxford , Medlik S. (1974), Heinem	d University Press.	
5. <b>E</b>	Effective Business Communication, Kaul, Asha (2005), PHI, NewDelhi.				

5. Effective Business Communication, Kaul, Asha (2005), PHI, NewDelhi.

Corporate Tax Planning (BCCAC 6.1)					
Теа	Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Object	<b>ve:</b> To provide basic knowledge about corporate tax planning and practices and its impact on d	ecision			
makin					
Learni	g Outcome:				
After l	arning this subject, the student will be able to understand:				
1. T	e provisions of direct taxes relating to corporate tax.				
2. T	e application of tax provisions in respect of tax planning considerations relating to companies.				
Unit	Content				
I	Introduction of Income Tax Act 1961 and basic concepts				
	Theory: Introduction to Income Tax Law: Overview of Income Tax Law in India, Constitutional	powers			
	to levy Income Tax, Concepts of Finance Act, Income Tax Rules, Circulars and Notifications,	Levy of			
	Income Tax, Rates of Taxes applicable for various assessees for relevant assessment year, Intro	duction			
	to heads of Income.				
	Residential Status - Rules for determining residential status of Individual, HUF, Firm and Col	mpany,			
	need to determine residential status, Incidence of tax				
II	Profits and Gains from Business and Profession				
	Theory: Scope of Chargeability (Section 28), Admissible Deductions (Section 30 to 37) (ex	cluding			
	depreciation on assets held by power generation units). Inadmissible Deductions (Section	on 40),			
	Disallowances under certain circumstances (Section 40A), Deemed Profits (Section 41), Deduct	ions on			
	the basis of actual payments (Section 43B)				
	Problems: Computation of Income from Profits and Gains from Business or Profession				
III	Capital Gains and Other Sources				
	Income under the head Capital Gains: Basis of charge -Section 45 (1), definition of Capital a	asset &			
	kinds of capital asset, tr <mark>ansfer of capital asset, simpl</mark> e problems on computation of capital gain	, tax on			
	capital gain, exemptions under section 54D, 54EC, 54EE.				
	Income under the head Other Sources: Scope of Chargeability [Section 56]; Dividends Sectio	n 2(22)			
	& taxation of dividends, meaning of securities, interest on securities, kinds of securities, ex- i	nterest			
	& cum-interest transactions, Admissible Deductions (Section 57), Disallowances (Section 5	58) and			
	simple problems on computation of income from other sources.				
IV	Tax Planning				
	<b>Theory:</b> Introduction to Tax Planning: Conce <mark>pt of</mark> Tax Planning, Tax Management, Tax Evasion a	and Tax			
	Avoidance.; Problems on Assessment of companies				
	Definitions - Company, Types of companies, Indian Company, Domestic Company, Foreign Co	mpany.			
	Computation of Tax Liability of a corporate assessee including Computation of Minimum Ali	ternate			
	Tax (MAT) (Section 115JB), Tax planning in respect of managerial decisions.				
	Note: Academic year will be considered as Assessment Year.				
Books	Recommended:				
1. <b>C</b>	r <b>porate Tax Planning,</b> Singhania, Vinod K. and Monica Singhania. Taxmann Publications Pvt. Lt	:d.,			
N	w Delhi.				
	r <b>porate Tax Planning and Management,</b> Ahuja, Girish. and Ravi Gupta. Bharat Law House, Del				
	<b>CPlanning under Direct Taxes,</b> Acharya, Shuklendra and M.G. Gurha. Modern Law Publication	,			
	ahabad.				
	v of Transfer Pricing, D.P. Mittal, Taxmann Publications Pvt. Ltd., New Delhi.				
5. IF	Ss, IAS – 12 and AS – 22. 6, T.P. Ghosh, Taxmann Publications Pvt. Ltd. New Delhi.				
1. C N 2. C 3. T A 4. L	Definitions - Company, Types of companies, Indian Company, Domestic Company, Foreign Con Computation of Tax Liability of a corporate assessee including Computation of Minimum Alt Tax (MAT) (Section 115JB), Tax planning in respect of managerial decisions. Note: Academic year will be considered as Assessment Year. Recommended: rporate Tax Planning, Singhania, Vinod K. and Monica Singhania. Taxmann Publications Pvt. Lt w Delhi. rporate Tax Planning and Management, Ahuja, Girish. and Ravi Gupta. Bharat Law House, Del & Planning under Direct Taxes, Acharya, Shuklendra and M.G. Gurha. Modern Law Publication ahabad. w of Transfer Pricing, D.P. Mittal, Taxmann Publications Pvt. Ltd., New Delhi.	ternate d.,			

	Advance Java and Android (BCCAC 6.2)				
Te	Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
<b>Objectives:</b> Advance Java is intended for developing Enterprise applications. Students will design Client end					
and S	erver end of applicat	ion by understanding life-o	cycles of Servlet & JSP Proje	cts.	
Learn	ing Outcome:				
	•	-		hough it is a server - side	
-		ge class so students can ma			
	•			earn this easily for simplified	
		•	n also create custom mob	le apps that solve customer	
•		e value for their business.			
				le to learn this official coding	
	anguage for Android	app development which is			
Unit			Content		
I		••	••	gies used in web application,	
	architecture models, MVC architecture, Introduction to JDBC, working with JDBC APIs, Implementing				
	JDBC statements and CRUD Operation, Describing Advanced JDBC concepts.				
11	-			, handling sessions in servlet,	
	communication,	ers, listeners and wrap	oper, Applet- serviet co	mmunication, Inter servlet	
	Introduction to JS	P, Working with JSP basic	tags and implicit objects, v	vorking with Java beans and	
	action tags in JSP, E	inhanci <mark>ng the JSP tag suppo</mark>	ort, Implementing security i	n web application, Bootstrap.	
IV	Introduction to Ar	ndroid, developing android	d applications, building an	droid projects, creating user	
		pplication, Turning applica	tion into app widget, publis	hing your app in Google play	
	store.				
		tlin, Advantages, Disadvant	tages, Usage and applicatio	ns, Kotlin over Java	
	s Recommended:	61.6	2 4		
1. Java the complete reference Eighth Edition, Herbert Schildt, ORACLE Press					
			ny Sierra and Bert Bates, Or		
			ublication Dreamtech Press		
4. <b>A</b>	Android App develop	ment for DUMMIES, Mich	el Burton, Willey		

	ASP.NET (BCCAC 6.3)					
Te	aching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Core		
Obje	Dbjectives: ASP.NET is an open-source server-side web application framework designed for web					
devel	opment to produce	dynamic web pages.				
Learn	ing Outcome:					
Stude	nts can get help to c	reate web pages and web to	echnologies like amazon.co	m, ebay.com and many other		
popu	ar web sites by using	g ASP. NET as the framewo	rk.			
Unit			Content			
-	ASP.NET Fundame	ntals- ASP.NET Web form S	Structure, Controls – ASP.N	ET server controls and client-		
	side script, ASP.NI	ET Web server controls, Va	lidation server controls, U	ser and server controls, Data		
	Access – Data Bind	ling, Model Binding, queryi	ng with LINQ, Entity Frame	work, ASP.NET Dynamic data,		
	Working with serv	ices.				
=	Providers- Introdu	uction to Provider Model,	, Extending the Provider	Model, ASP.NET Features –		
	Working with Ma	ster Pages, Site Navigatior	n, Personalization, Member	rship and role Management,		
	Security, Applicati	on State, Caching				
Ш	Client-Side Develo	pment- ASP.NET AJAX, AJ	AX control toolkit, jQuery,	Real – time communication,		
	Developing web si	te with mobile in mind				
IV	Application Config	uration and Deployment-	Configuration, Debugging	and Error Handling, Modules		
	and Handler, Asyn	chronous Communication,	<b>Building Global Application</b>	n, Packaging and Deployment		
	ASP.NET Application.					
Book	Books Recommended:					
1. /	1. ASP.NET 4.0 Black Book, KOGENT Learning solutions INC, Dreamtech press					
2. 1	<ol><li>The Complete Reference ASP .NET- Matthew MacDonald, McGrew Hill Education</li></ol>					
3. /	SP.NET 4.5 in C# an	d VB- Jason N. Gaylord Chr	<mark>istan Wenz, Pranav Rasto</mark> gi	i, Todd Miranda, Scott		
ł	lanselman, WROX A	Willey Brand				

नागपुर .

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	Se	curity Analysis and Portfo	lio Management (BCCADE	6.41)	
Tea	aching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Discipline Specific	
				Elective	
Objec	<b>tive:</b> The aim of th	is course is to provide a	conceptual framework for	analysis from an investor's	
persp	ective of maximizing	g return on investment – a	a sound theoretical base w	ith examples and references	
relate	d to the Indian finar	icial system.			
Learni	ng Outcome:				
Stude	nts will be able to un	derstand risk & return anal	ysis, share valuation and po	ortfolio Management through	
applic	ation of Various Mo	dels.			
Unit			Content		
I	Basics of risk and r	eturn: concept of returns, a	pplication of standard devi	ation, coefficient of variation,	
	beta, alpha. Syster	natic and Unsystematic Ris	k, Fundamental analysis: E	IC framework.	
П			• •	th, two stage growth model,	
			_	e to market value. Technical	
		•		ndamental analysis; Efficient	
				of EMH and implications for	
		ons. Market efficiency in ca			
				I: risk and return for 2 and 3	
	•			rket Model: concept of beta	
		systematic risk. Investor ri	sk and return preferences	: Indifference curves and the	
	efficient frontier	YAN			
IV				n of risky and risk free assets.	
	•	ngle period classical CAPM	model. Characteristic line,	Capital Market Line, Security	
	market Line.	ZE E S			
	Recommended:				
			cher, D.E. & Jordan, R.J., Pe		
			iley, J Prentice Hall of India		
	<ol> <li>Security Analysis &amp; Portfolio Management, Singh R, Excel Books.</li> <li>Investment Analysis and Portfolio Management, Frank K Reilly &amp; Keith C Brown: Cenage India Pvt. Ltd.</li> </ol>				
4. Ir	ivestment Analysis	and Portfolio Managemen	t, Frank K Reilly & Keith C E	Brown: Cenage India Pvt. Ltd.	
			Ŷ		

	Goods and Service Tax (BCCADE 6.42)				
Теа	aching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Discipline Specific	
				Elective	
Objec	tive:				
This p	aper aims to provid	e students with the practica	al knowledge of Goods and	Service Tax in India.	
Learni	ng Outcome:				
After l	earning this subject	t, the student will be able to	o understand:		
		ge and levy of Goods and Se			
		ly and computation of tax li	•	e Tax.	
3. P	ayment methods of	f GST and various Forms of	GST returns etc.		
Unit			Content		
I		ST: Constitutional Backgrou	•		
	-	<b>–</b> .	• • • •	on of registration; Procedure	
	of verification of a	application and its approva	l; Physical verification of b	ousiness premises; Procedure	
	for issuance of reg	gistration certificate; Suo M	otu Registration; Method c	of authentication; Assignment	
	of unique identi	ty number to certain sp	ecial entities; Deemed R	egistration; Amendment of	
	Registration; Canc	cellation or suspension of			
	Registration.				
П	Concept of Taxab	le Supply; Exempt Supply;	Non-taxable Supply; Inwa	ard supply; Outward Supply;	
				ixed and composite supply.	
	Place of Supply:	Need for determination of	place of supply; Place of	supply of goods in domestic	
	transactions i.e. w	ithin India; Place of Supply	y of Services: General prov	visions [Section 12(1) and (2)]	
	Time of Supply: 7	Fime of supply of goods up	nder forward charge; Time	e of supply of services under	
	forward Charge; c	hang <mark>e in the rate of tax in r</mark>	espect of supply of goods of	or services.	
	Taxable Supply: V	alue <mark>of Taxable Supply; Inc</mark>	lusions in the value of		
	supply; Exclusions	s in the value of supply; Con	nputation of value of taxab	le supply.	
ш	Input Tax Credit:	Concept of Input Tax Credi	t; Eligibility and conditions	for availing Input Tax Credit;	
		-		on-payment of consideration;	
	Case studies on in	put tax credit eligibility; Tax	x liability for Goods in trans	sit.	
	Accounts & Recor	ds: Accounts and other rec	ords; E-Records, Records pr	rescribed by the Rules; Period	
	of retention of acc	ounts; Manner of maintain	ing accounts; Procedure of	Generation and maintenance	
	of electronic reco	rds; Invoice; Credit Note a <mark>n</mark>	d Debit Note.		
	GST Returns: Retu	urns and due dates for filing	g GSTR-1, GSTR-3B, GSTR-4	and GST	
	CMP-08; Procedur	re of e-filing of GST Returns	GSTR-1, GSTR-3B, GSTR-4	and GST CMP-08.	
IV	Payment of Tax, T	DS and TCS:			
	Manner of payme	nt of tax, interest, penalty a	and other amounts [Section	n 49]; Electronic Cash Ledger;	
	Electronics Credit Ledger; Electronic Liability Ledger; Concept of Common Portal Identification				
	Number (CPIN), Challan Identification Number (CIN), Bank Reference Number (BRN), Electronic Focal				
	Point Branch (E-FPB); Interest on delayed payment of tax; Concept of Tax deduction at source (TDS)				
	and Tax Collection at Source (TCS); Difference between TDS and TCS; Due dates of payment of GST;				
	Process of Online	Payment of GST through Ch	nallans.		
	Recommended:				
		and Practice, V. S. Datey-		-	
2. <b>S</b>	tudents Guide to In	<b>direct Taxes,</b> Written by CA	A Vineet Sodhani, Taxmann	Publications.	

	Industrial & Labour Laws (BCCADE 6.43)				
Tea	aching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Discipline Specific	
Elective				Elective	
Objec	<b>tive:</b> To develop cor	nceptual knowledge about	industrial law.		
Learni	ng Outcome:				
After l	earning this subject	, the student will be able to	o understand:		
1.	Functioning of facto	pries and industries.			
2.	Compensation Laws	5.			
3.	Union Laws.				
Unit			Content		
I				and welfare; rules relating to	
		•		is relating to hours of work for	
		erson; Rules of annual leav			
	-	-	-	rial dispute; Concept of Strike,	
				kout; Closure, authorities for	
		• •		o Officer, Conciliation Board,	
		abor Court, Industrial Trib			
Ш				abour welfare, welfare officer	
	•	qualification and role of w			
	-			oyee, partial disablement and	
		occupational disease, emp			
111	-			bonus, eligibility for bonus,	
	•			plus, allocable surplus, set on	
		cable surplus, Time limit for		rovisions relating to payment	
		ation, Employers duty to pa		Tovisions relating to payment	
IV				lication, Provisions regarding	
	-	of work, Provisions regarding			
				ade Unions; Trade Disputes,	
				-	
	Registration of Trade Unions, Advantages of Registered Trade Unions, Rights and Liabilities of Office Bearers; Functions of Trade Union in India				
Books	Recommended:				
		or. M. M. Verma &R. K. Agra	awal, King Books, New Dell	ni	
	-	ial Laws, Taxmann Publicat	_		
	2 Industrial Polation & Labour Law DC Tripathi CB Gunta & ND Kapoor S Chand & Sons				

3. Industrial Relation & Labour Law, P.C. Tripathi, C.B Gupta & N. D. Kapoor, S. Chand & Sons.

	E-Commerce (BCCADE 6.44)			
Те	aching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Discipline Specific
				Elective
Objec	<b>tive:</b> To provide kno	owledge about the electro	nic transaction in the busi	ness and brief about various
	s used in the proces	S.		
	ng Outcome:			
		, the student will be able to	o understand:	
	Concepts of E-Comr			
	Basic requirements			
	Use of digital payme	ent systems.		
Unit			Content	
I				of E-Commerce on business
	,		ce, Advantages and Disadva	antages of E-Commerce,
		rce and the Trade Cycle.		
11				e Payments, Delivering the
		Service, Internet e- Comm		
				ms (IMPS), Real Time Gross
	Settlement; Unified Payment Interface (UPI) and other Modern e-Payment Systems, Steps for			
	electronic paymer		1706	
111			os, Grocery Supplies, Softw	
	=			e Dealing, Gambling on the
			dvantages and Disadvantag	
IV				le and Example. Internet
				: Security: Issues, Security
	-			curity Procedure: Firewall,
		ord, Acce <mark>ss Control List, Di</mark>	gital Certificate.	
	Recommended:		38/ 3/	
		d Whiteley, Tata McGraw H	lill, New Delhi	
2.	E-Business- Bajaj &	Nag, TMH, New Delhi	. · · · · ·	
<u></u>			3	

Gandhian Economics (BCCAOE 6.51)				
Те	Teaching Hours: 4Total Credits: 4Total Marks: 80Group: Open Elective			
Objec	tives:			
1. T	o familiarize the stu	dents with the application	of Gandhiji's principles and	d value in economics.
			lhiji that are applicable t	o present day economic and
	inancial aspect in ov	erall economy.		
	ing Outcome:			_
		•	-	is aspects of socio- economic
-		in ideology related to econo		
	tudents would be a	ole to understand the impli		ogy with respect to Economics
Unit			Content	
I				on-violence and purity of ends
		-	_	bour capital relations, Theory
		•.		bution of wealth. Concept of
	Economic Equality Empowerment-Co	-	dia, weifare Economics. C	Gandhi's thoughts on Women
П			mont Polo of Co oporative	e Sector in Rural Development,
				ept of Self-sufficient Villages
		_		Scale Industries Development,
	-			ral Economic development in
	India-Constraints,			
III			conomics; Decentralizatio	n and its present relevance;
				s; Social Responsibility of
				hought in Indian and Global
	Content.			
IV	Ethical Man vs Eo	conomic Man; Simplicity o	f Life and Limitation of	wants; Use of Appropriate
	Technology; and A	lternative Development; Su	stainable Development. In	nportance and Co-operation
	in Economic Devel	opmen <mark>t; Econ</mark> omic Value B	ased Approach.	
Books	Recommended:			
		andhian Thought", Mahajar		
2. "Gandhian Economics: A Human Approach", Sharma R: Deep & Deep Publishers, New Delhi				
3. "A Critical Study of Gandhian Economic Thought", Jha S. N.: Agra Publication.				
4. <b>G</b>	iandhi M.K.: "The S	tory of my Experiments wit	t <b>h Truth",</b> Navjeevan Publ	ishing House, Ahmedabad.

	Introduction to Public Administration (BCCAOE 6.52)				
Т	eaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Open Elective				
Obje	ctives:				
1.	Γο introduce to the students three types of administration in India Democratic Republic.				
2.	<ol><li>To acquaint students of principles of administration.</li></ol>				
3.	Γο acquaint the students the scalar chain applicable in Indian Government.				
Lear	ning Outcome:				
	learning this subject, the student will be able to understand:				
1.	Functioning of Public Administrative Authorities				
2.	The Concept of Democratic Governance.				
3.	Functioning of Parliament.				
Unit	Content				
I	Meaning, Nature, Scope and Significance of Public Administration; Public and Private Administration;				
	Indianization of public services, Central, State and Local Government, Approaches, Concept of social				
	equity & sustainability, Emerging issues & challenges in public administration				
Ш	Constitutional framework of government: Salient features and value premises; Constitutionalism;				
	Political culture; Bureaucracy and democracy; Fundamental rights and duties; Directive principles of				
	State policy.				
- 111	Public administration and governance: government and governance; Good Governance-concept,				
	evolution and applications; Democratic Governance-concept and contextualization; E-Governance				
	and M- Governance.				
IV	Union Government and Administration: Executive, Parliament, Judiciary- structure, functions, work				
	processes; The Prime Minister's Office; Central Secretariat; Ministries and Departments. Measures				
	to improve public administration in India				
	s Recommended:				
1.	ndian Public Administration: Institutions and Issues, Ramesh K Arora and Rajani Goyal: Vishwa				
	Prakashan, New Delhi, 1996.				
	From Government to Governance, Kuldeep Mathur: National Book Trust, New Delhi, 2010.				
3.	ndian Administration, Hoshiar Singh: Kitab Mahal, New Delhi, 2004.				
	ndian Administration, S.R. Maheshwari: Orient Longman, Delhi, 2005.				
	Public Administration in India, S.R. Maheshwari: Oxford University Press New Delhi, 2005.				
	Public Administration in India, Padma Ramchandran: National Book Trust, New Delhi, 2006.				
7.	ndian Administration, Ashok Chanda: George Allen & Unwin, Lndon, 1958.				
	State Governments in India, S.R. Maheshwari: Orient Longman, Delhi, 2005.				
9.	Agenda for Improving Governance, Bibek Debroy (ed.): New Delhi, Academic Foundation, New Delhi, 2004.				
10.	Public Institutions in India, Devesh Kapur and Pratap Bhanu Mehta (eds.): OUP, New Delhi, 2005.				
11.	District Administration in India, M.I. Khan: Anmol Publication, New Delhi, 1997.				
12.	ndian Administration-Politics, Policies and Prospects Kamala Prasad:, Pearson Education, New Delhi, 2000.				
13.	<b>Bharatiya Prashashan,</b> K. R. Bang: Vidya Books, Aurangabad, 2004. (Marathi)				
	Bharatiya Prashashan, Satish Dandge: Chinmay Prakashan, Aurangabad, 2007. (Marathi)				
	Prashashanache Pailu, Vol. I and II, Mahav Godbole: ShreevidyaPrakashan, Pune, 1999 and 2000.				
	(Marathi)				
16.	<b>Bhartiya Prashasanachi Roopresha,</b> Shyamsunder Waghmare and others: Rajmudra Prakashan, Latur, 2008. (Marathi)				

		Intellectual Propert	y Rights (BCCAOE 6.53)	T	
Te	eaching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Open Elective	
Objec	ctives:				
1. T	o introduce fundamental aspects of intellectual property rights to students who are going to play major				
r	ole in developing ar	d management of innovati	ve project in industries.		
2. T	Γo aware students at	out the procedure of regist	ration and protection of int	ellectual property rights such	
a	as trademarks, copyi	ights, patents and designs	etc.		
3. 1	Fo aware students a	pout the practice aspects o	f registration of intellectua	I property in order to protect	
t	heir research work a	and get it registered under	regulations of IPR.		
Learn	ing Outcome:				
After	learning this subject	;, the student will be able to	o understand:		
1. T	The concept of Intell	ectual Property Rights.			
2. F	Functioning of Paten	ts.			
3. (	Concepts of Copyrigh	it and Trademarks			
Unit			Content		
I			•	need for intellectual property	
	<b>-</b>			n to the leading International	
				ntion, The World Intellectual	
		tion (WIPO); International		-	
II				for patent, Inventions not	
				by WIPO, Categories/types of	
	· ·			nt, Patent Rights, Regulatory	
	•	misuse, Penalties, Macro-e	conomic impact of the pate	ent system	
III	Copyrights	ERS	3 9 8		
				ation of copyrights, Term of	
				and musical works, computer	
				erformers and broadcasters,	
IV	Trademark	of copyrights, Remedies fo	a miningement of copyright	L	
IV		amark Definition Types	of Trademarks Importan	ce, Registration process for	
	-			irk, Duration of Trademark,	
	Infringement of T		ation, highes of frademe		
	-		graphical indication (GI).	Difference between GI and	
		for GI, Registered GI in Inc			
Book	s Recommended:		,		
		– Legal & Business Implica	tions. Aiit Parulekar and Sa	rita D' Souza, Macmillan India	
	Ltd., 2006	0	-, ,		
2.		tents, Trademarks، Copvri	ght, Designs & Geographic	al Indications, B. L. Wadehra;	
	-	shing Pvt. Ltd., India 2000	, ,		
3.		nd Industrial Designs, P. Na	arayanan; Eastern law Hou	se, Delhi, 2010.	
4.		•	•	athan, Printers and Publishers	
••	Pvt. Ltd.,1998.		,,	,	

		Constitution of India and	Human Rights (BCCAOE 6	.54)		
Te	eaching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Open Elective		
Objec	ctives:		·	-		
1. T	Γο understand the si	gnificance of constitution o	of India.			
2. T	To understand the co	oncept of Human rights.				
3. T	Γο understand the ro	le of constitution of India i	n protection and promotic	on of human rights		
Learn	ing Outcome:					
After	learning this subject	, the student will be able to	o understand:			
1. T	The basics of the Con	stitution.				
2. 0	Citizenship rights					
3. ⊦	luman rights					
Unit			Content			
Ι	-	tution, Need for constitution				
				tions; President-qualification		
		peachment, powers of Pres				
	-			on, disqualification, power		
	-	I- composition, qualification	on, disqualification, powe	rs; Governor- powers, role o		
	governor		tia a via Citiana Evadara	entel Dickte Manaine Matur		
Ш		Citizenship under Indian Constitution -Person vis-s-vis Citizen; Fundamental Rights- Meaning, Nature and Significance Right to Equality: Concept and Significance; Equality before Law and Equal Protection				
		ist discrimination, Equality	In Public Employment, Rig	ght to Education, Right Agains		
	Exploitation	aition of Human Bights So	urcos of Human Pights III	niversal Declaration of Huma		
	Rights, UN Charter		urces of numari rights, of	Inversal Declaration of Huma		
	<b>U</b> ,		nvironment Protection	of human rights of Wome		
	Right to development, Right to Healthy Environment, Protection of human rights of Women Protection of human rights of child, Protection of human rights of migrant workers and disabled					
	persons					
IV		tection in India- Steps tak	en to protect human righ	ts in India, Salient features o		
	-			C, Role of NGOs in protectio		
		ole of UN in Protection and				
Book	s Recommended:		3			
1.	Indian Constitution	al Law, M.P. Jain, Wadhwa	& Co, Nagpur			
2.	Constitution of India, V.N. Shukla, Eastern Book Company, Lucknow					
3.	Indian Constitutional Law, G.C. V. Subba Rao, S. Gogia & Co., Hyderabad					
4.	Constitutional Law of India, N. Pandey, Central Law Agency, Allahabad					
5.	Human Rights and	International Law: Legal ar	nd Policy Issues, Meron Th	eodor		
6.	Human rights Unde	er International Law and In	<b>dian Law,</b> S.K. Kapoor			
7.	Human Rights in In	<b>dia,</b> C. J. Nirmal, Oxford				
8	International Huma	an Rights Documents. P.R.	Gandhi Universal Delhi			

8. International Human Rights Documents, P.R. Gandhi, Universal, Delhi

Project Work based on IT (BCCAPR 6.6)			
Teaching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Project

# Learning Outcome:

1. The final year students of B.Com. (Comp. App.) consists of two semesters in which students are asked to prepare a module or software to show their learning throughout their academics.

- 2. Students are asked for practical knowledge and come up with the best idea in this filed so project helps a lot for their industry requirement.
- 3. Students would be able to understand which programming language is handy for them and it will make their project easier.
- 4. Live projects will allow students to gain valuable work experience during study.



Shiksha Mandal's

# G. S. College of Commerce & Economics, Nagpur NAAC Accredited "A" Grade Autonomous Institution

# Syllabus for the Course of BACHELOR OF COMMERCE (COMPUTER APPLICATION) w.e.f. 2022-2023

	BACHELOR OF COMMERCE (COMPUTER APPLICATION) [B.C.C.A.]
Α	PROGRAMME OUTCOMES
	After completing three years of B.Com. (Computer Application) programme, students are expected to
PO-1	Gain fundamental as well as advance knowledge of all the key and broad concepts in the field of Information
	Technology and Computer Application in general and the main domains of Commerce, Accountancy and
	Statistics, Business Management and Administration, Economics, and Business Communication in particular
	through various core, elective and skill-foundation
PO-2	Acquire and develop basic and advance skills in computer application and information technology
	for business such as accounting software like Tally.ERP 9.0, management information systems,
	database management systems, programming languages, web designing etc. in order to develop
	into professionals in different fields of Information Technology and apply these IT skills for the
<b>DO 3</b>	promotion of Industry and business.
PO-3	Be able to use and apply their knowledge and skills to find effective solutions to real life situations
PO-4	and challenges and take effective decisions.
PU-4	Be capable of gaining employment in public and private sectors by virtue of their knowledge and skills acquired during the course of graduation.
PO-5	Be competent to serve in various industries and sectors especially in the field of information
FO-3	technology, banking and insurance sectors, finance companies, logistical services etc. in various
	positions viz. system administrator, network system and data analyst, database administrator, chief
	information officer etc.
PO-6	Be capable of self-employment or venturing into a start-up by virtue of course in entrepreneurship
	development
PO-7	Have a solid foundation to build a larger corpus of knowledge through higher studies including post-
	graduation and research not only in the field of Commerce and Information Technology but also in
	other areas owing to the inter-disciplinary approach and study of Open and Generic Electives.
В	PROGRAMME SPECIFIC OUTCOMES
	After completing three years of B.Com. (Computer Application) programme, students would
PSO-1	Have proficiency in the basic and advanced knowledge of the core information technology subjects
	viz. Programming in C, C++ & C#, VB.NET, Core Java, Advanced Java and Android, Python, Dynamic
	Web Designing, Database Management Systems and Oracle, Operating Systems and Computer
	Hardware and Networking Commerce as well as the core Commerce subjects of Accountancy,
	Business Economics, Business Laws, Taxation, Indian Financial Systems etc.
PSO-2	Have proficiency in various Discipline-specific and Generic Electives of their choices and interests.
PSO-3	Have specialized knowledge of Programming Languages, Database Management Systems,
	Management Information Systems, Web designing and key areas of Financial Accountancy,
	Management Accountancy, Cost Accountancy, Economics, Business Laws, Corporate Law and
	Secretarial Practices and Taxation.
PSO-4	Have specialized knowledge of E-commerce, Indian Banking and Insurance System, International
	Trade and Business Administration, Security Analysis and Portfolio Management,
PSO-5	Have proficiency in both Direct and Indirect Taxes with special emphasis on Corporate Tax and GST.
PSO-6	Have proficiency in HRM, Entrepreneurship Development, Industrial and Labour Laws, E-Commerce
PSO-7	Have exposure to Gandhian Economics, Econometrics, Intellectual Property Rights, E- Governance,
	Constitution of India, Public Administration etc. through Electives leading to holistic development
	through an interdisciplinary approach.
PSO-8	Prepare for Competitive Examinations by doing an Elective Course on Quantitative Aptitude
	and Logical Reasoning.
PSO-9	Be able to apply Computer Application and data analytical skills in business decisions making.
PSO-10	Be acquainted with business ethics and corporate culture and corporate governance.

С	COURSE CONTENTS		
	Course	Outcome	
1.	English Language Skills	Students will able to develop competence and proficiency in English Language by studying relevant and motivating prose texts, Business Communication and Correspondence skills, Grammar skills and Vocabulary.	
2.	Financial	Students will be able to understand the fundamentals of Accounting and the	
_	Accounting	process of preparation of accounts as per the need of business organization.	
3.	Economics	Students will be able to relate the concepts and theories of Economics with the real world and its practical application in business.	
4.	Programing in C	Students will be able to work on enterprise applications, games, graphics, and applications requiring calculations, etc. by learning C language. Students would able to design and develop Operating Systems like Windows, Linux etc.	
5.	Information System and Information Technology	Students will be able to get benefit of keeping appropriate data about each user's task in a format best suited to that user and can do any task effectively and efficiently in a suitable format	
6.	Mathematics	Students will be able to get detailed understanding of various aspects of data collection and tabulation, learn application of measures of central tendency and get acquainted with the practical application of index number and to understand practical applications of business mathematics.	
7.	Operating System and Computer Hardware and Networking	Student would able to get the knowledge of Operating System and Computer Hardware & Network connected peripheral devices like printers, scanners and copiers or sharing of system and application software between multiple users.	
8.	Programming in C++	Student can develop interest in areas where C++ is popularly used i.e. Operating Systems, Libraries, Graphics, Banking Applications, Databases, Embedded Systems, Compilers.	
9.	Business Ethics and Corporate Culture	Students will be able to understand the concept of ethics in business and their importance and develop acceptable attitudes and viewpoints with respect to business ethics and social responsibility.	
10.	Cost Accounting	Students will be able to understand the fundamentals of Cost Accounting and the process of preparation of cost accounts and statement to arrive at cost of product as well as to know the amount of profit.	
11.	Company Law & Secretarial Practice	Students will be able to understand the process of formation and incorporation of company in India; the framework of Memorandum of Association and Article of Association and Prospectus. Also learn about the concept of Share Capital, Shareholders, Members, Role of a Managing Director and meetings of companies.	
12.	Web Designing and HTML	Students will be able to create web pages which can be understood by any web browsers.	
13.	Programming in C#	Students would able to develop native windows applications, mobile apps, websites, games and even native Android or iOS apps by learning of C# with some additional frameworks like Xamarin or Mono.	
14.	MIS and System Analysis	Students would be able to know the current status of organization at a glance through Management Information System & System Analysis in order to improve the quality of decisions.	
15.	Computer Application in Business	Students will be able to use of MS Word, MS Power point and MS Excel Software in business, computerized accounting with the Tally accounting software, E-filing procedures of Direct Taxes and E-compliances of Indirect Taxes.	

16.	Management	Students will understand fundamentals of Management Accounting and practical
	Accounting	knowledge about various tools of management accounting for taking managerial
		decisions.
17.	Business Laws	Students will be able to demonstrate an understanding of Legal Environment of
		Business in Indian scenario, apply basic legal knowledge to business transactions
		and communicate effectively using standard business and legal terminology.
18.	VB.NET	Students can create wide range of applications like console- based applications,
		window-based applications, window services web application, web services etc.
19.	Dynamic Web	Students can present dynamic web content on web browsers for the personal and
	Designing	professional users.
	(PHP and My SQL)	
20.	Database	Students can manage the database by DBMS & Oracle used for running Online
	Management	Transactions Processing (OLTP), Data Warehousing (DW) and mixed database
	System and Oracle	workload. Students can store and retrieve related information.
21.	, Environmental	Students will be able to understand the concept of Ecosystems and Environment,
	Studies	the concept of biodiversity and its conservation and environmental pollution.
22.	Auditing and	Students will be able to understand mechanisms of Corporate Governance, role
-	Corporate	of Board of Directors in Corporate Governance and corporate Governance in
	Governance	Indian context.
23.	Indian Financial	Students will be able to understand the concept of money markets, capital
	System	markets and various instruments of money and capital markets, instruments of
		global capital markets, financial markets and the meaning and working of
		derivative market in India.
24.	Core Java	Students would able to design application software for both desktop and web
		applications.
25.	Python	Students can create and learn Console application, Desktop application, web
		development, Machine learning, Internet of Things (IOT) applications, system
		scripting. Students can connect to database system so that they can handle big
		data and perform complex mathematics.
26.	Indian Banking and	Student will be able to understand, the principles of borrowing and lending,
	Insurance System	Internet banking and concepts of insurance.
27.	International Trade	Students will be able to Explain the concepts in international business with
27.	and Business	respect to foreign trade/international business and Administration.
	Administration	
28.	Human Resource	Students would be able to build understanding about the aspects of managing
20.	Management	Human Resources in an organisation.
29.	Entrepreneurship	Students will be able to understand historical evolution of entrepreneurship,
29.	Development	various entrepreneurship trends, procedures of opportunity scouting and idea
	Development	generation, the concept, need, problems of Rural entrepreneurship and
20	Quantitatiun	measures to develop the same.
30.	Quantitative	Student will be able to understand concept of ratio and proportion, concept of
	Aptitude and Logical	interest and logical reasoning.
24	Reasoning	
31.	Econometrics	Students would be able to develop clarity on application of statistical techniques
		to analyses and solve economic issues. Students would build an attitude towards
		the applicability of statistical techniques to various economic issues to evolve
		with a concrete solution.

32.	E-Governance	Student will be able to understand compliance norms of e-governance related to
52.		tax filings, GST filings and companies and LLP.
33.	Introduction to	Student will be able to understand tourism development and impact of tourism
55.	Travel and Tourism	and rural tourism and other related aspects.
24		
34.	Corporate Tax	Student will be able to understand the provisions of direct taxes relating to
	Planning	corporate tax, application of tax provisions in respect of tax planning
		considerations relating to companies.
35.	Advanced Java and	Students can learn simplified mobile app development process. Students can also
	Android	create custom mobile apps that solve customer problems and increase value for
		their business.
36.	ASP.NET	Students can get help to create web pages and web technologies like
		amazon.com, ebay.com and many other popular web sites by using ASP. NET as
		the framework.
37.	Security Analysis	Students will be able to understand risk & return analysis, share valuation and
	and Portfolio	portfolio Management through application of Various Models.
	Management	
38.	Goods and Service	Student will be able to understand the concept of charge and levy of Goods and
	Тах	Service Tax and computation of tax liability of Goods and Service Tax.
39.	Industrial and	Student will be able to understand functioning of factories and industries,
	Labour Laws	compensation Laws and Union Laws.
40.	E-Commerce	Student will be able to understand the concepts of E- Commerce & E-Business,
		basic requirements of E-Commerce and use of digital payment systems.
41.	Gandhian	Students would be acquainted with the understanding about the various aspects
	Economics	of socio-economic principles of Gandhian ideology related to Economics and the
		implications of Gandhian Economics with respect to Indian Economy.
42.	Introduction to	Student will be able to understand functioning of Public Administrative
	Public	Authorities, the Concept of Democratic Governance and functioning of
	Administration	Parliament.
43.	Intellectual	Student will be able to understand the concept of Intellectual Property Rights,
	Property Rights	functioning of Patents and concepts of Copyright and Trademarks
44.	Constitution of India	Student will be able to understand the basics of the Constitution, Citizenship
	and Human Rights	Rights and Human Rights
45.	Project	Students would be able to gain practical knowledge through exposure to different
	-	problems and are expected to find solutions through project work on any given
		idea/topic. Students would be able to understand which programming language
		is handy for them to make their project easier. Live projects will allow students to
		gain valuable work experience
		during study.

			e Skills (BCCAL 1.E)	Crewe Core		
	Teaching Hours: 4     Total Credits: 4     Total Marks: 80     Group: Core					
Object		Entropropours				
1) 2)	<ol> <li>Introducing great Entrepreneurs</li> <li>Developing Communication Skills</li> </ol>					
,		nar and Vocabulary Compo	ants			
	ing Outcomes:		ients			
Unit I entrep Trailbl object creativ	- The objective o preneurs of the wo azers' was very inte ive was to make th vity etc. needed for	orld. The biographical sket cresting and motivating for e students aware of the q a great entrepreneur. The E	ches of the entrepreneu the students, especially of ualities like enterprising a BoS approved the text and			
	-		-	oducing the students to basic		
	of communication	nethods of communication	etc. The students appreci-	ated the knowledge of basic		
		introducing Grammar was	to ophanco the skills of L	anguage learning, which was		
	•	g grammar concepts.		anguage rearming, which was		
		implementing Vocabulary v	vas to enhance language d	kills of students		
Unit			Content			
1	Great Entreprene	irs				
•		bhai Ambani, Mallika Sriniv	asan, Rahul Bajai, Ratan Ta	ita. Priva Paul		
П	Communication:					
		nportance, nature, scope	ALL			
			Conder Channel Massa	a. Dessiver and		
	Feedback	the Communication Proces		ge, Receiver and		
	Methods of Communication- Verbal & Non-Verbal					
	<ul> <li>Types of Communication- Formal and Informal, Dyadic &amp; Group, Electronic &amp; Print</li> </ul>					
	<ul> <li>Directions of Communication- Vertical, Horizontal, Diagonal</li> </ul>					
	Barriers to effective communication					
	Communication Networks					
III	Grammar					
	Parts of Spe	ech				
	<ul> <li>Types of Ser</li> </ul>					
	Tenses					
	Transformat	ion of Sentences- Interroga lestion tag; Inter-change of		Negative; Exclamatory-		
IV	Vocabulary		2			
	-	f words: Primary words, cor	npound words, primary de	erivatives, secondary		
		Pre-fixes/suffixes)		, /		
		f nouns from verbs/adjectiv	es; adjectives from nouns/	/verbs		
Books	Recommended:	, ,				
1. l	Unit I – Prescribed T	ext-Book - 'Modern Trailbla	zers' Eds- A.Dhote & H.Dh	ote, Published by- Orient		
	Blackswan.					
	Unit II - Developing & Krishna Mohan	Communication Skills – Kris	hna Mohan & Meera Bane	rji (Macmillan), R.C.Sharma		
	Unit III -High School Prasada Rao (S.Char	English Grammar & Compo d)	sition– Wren & Martin Rev	vised & Edited by N.D.V.		
4. l	•	abulary in Use- Michael Mc	Carthy & Felicity O'Dell, En	glish Vocabulary- N.D.V.		
		oundation English, R. K. Dw	vivedi, Macmillan Publisher			

	Financial Accounting – I (BCCAC 1.1)				
Теа	aching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Objec	Objectives: The objective of this paper is to help students to acquire conceptual knowledge of the financial				
accou	nting and to impart skills for recording various kinds of business transactions.				
Learni	ing Outcomes:				
1.	To understand the fundamentals of accounting.				
2.	To understand the process of preparation of final accounts of sole trading concern.				
3.	To get acquainted with concept and process of joint venture accounts.				
4.	The students would be coherent with the concept of depreciation.				
Unit	Content				
I	Basics of Accounting:				
	Theory: Meaning and scope of Accounting, Need, Development & Definition of accounting, Branches				
	of accounting and Principles, Concepts and Conventions of accounting, Journal Entries of Transactions,				
	Ledgers and Trial Balance				
	Practical Problems: Preparation of Journal, Leaders and Trial Balance				
II	Final Accounts of Sole Traders:				
	<b>Theory:</b> Meaning of Final Account, Characteristics and Format of Trading A/c, Profit and Loss A/c and				
	Balance Sheet, Meaning and nature of Adjustment.				
	Practical Problems: Preparation of Trading A/c, Profit and Loss A/c and Balance sheet from Trail				
	balance and Adjustments				
111	Joint Venture:				
	Theory: Meaning of Joint Venture, Characteristics of Joint Venture, Advantages and Disadvantages of				
	Joint Venture, Methods of Joint Ventures, Distinction between Joint Venture and Partnership.				
	Practical Problems: Preparation of various accounts as per Centralized Method and Decentralized				
	Method of Joint Venture.				
IV	Depreciation:				
	Theory: Meaning of Depreciation, Nature, Characteristics and Advantages of Depreciation, Need of				
	Depreciation, Various Methods of charging Depreciation (i) Straight line method, ii) Reducing balance				
	method iii) Annuity method iv) Depreciation fund method v) Depreciation fund insurance policy				
	method.				
	<b>Practical Problems:</b> Preparation of Depreciation A/c, Machinery A/c under: (i) Straight line method ii)				
	Reducing balance method iii) Annuity method iv) Depreciation fund method v) Depreciation fund				
	insurance policy method.				
	Recommended:				
1.	Financial Accounting, Paul, S. K, New Central Book Agency				
2.	Financial Accounting for Managers- Ghosh, T. P. Taxman Allied Service				
3.	Financial Accounting - Dr. V. K. Goyal, Excel Books				
4.	Financial Accounting - Jain S.P., Narang K.L., Kalyani Publishers, Delhi.				
5.	Financial Accounting- Grewal, Shukla, S. Chand Publications, Delhi				

	Business Economics (BCCAC 1.2)				
Теа	aching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Objec	<b>Objectives:</b> The objective of this paper is to help students to acquire conceptual knowledge of the financial				
accou	nting and to impart skills for recording various kinds of business transactions.				
Learni	ng Outcomes:				
Stude	nts would be able to relate the concepts and theories of economics with the real world and its practical				
applic	ation in business.				
By the	e end of the Semester, students will be able to analyze and predict consumption and production				
behav	ior.				
Unit	Content				
I	Foundation of Business Economics				
	<ol> <li>Business Economics – meaning, nature, scope</li> </ol>				
	<ol><li>Micro &amp; Macro economic analysis – meaning, merits and demerits</li></ol>				
	3. Utility – Concept of utility, Law of Equi-marginal utility & law of diminishing utility				
	4. Indifference Curve Analysis: Concept, definition, Properties, Indifference Map, Consumer's				
	equilibrium				
Ш	Demand – Elasticity of demand & demand forecasting				
	<ol> <li>Demand – Law of demand with exceptions</li> </ol>				
	<ol><li>Methods of measurement of elasticity of demand</li></ol>				
	<ol><li>Meaning, importance &amp; techniques of demand forecasting</li></ol>				
	4. Concept of demand estimation				
111	Theory of production, cost & revenue				
	<ol> <li>Production Function: Concept, assumptions, Cobb &amp; Douglas Production function</li> </ol>				
	<ol><li>Law of variable proportion (Short Run); Law of returns to scale (Long Run)</li></ol>				
	3. Costing Concepts, types of costs				
	4. Concepts of revenue, types of revenue				
IV	Market Structure				
	1. Market: Meaning, features, classification Perfect Competition: Concept of firm & Industry,				
	meaning & features of perfect competition, Equilibrium of firm & industry.				
	2. Monopoly: Meaning, features, Price & profit determination, price discrimination: Concept, types,				
	and conditions for price discrimination to be profitable.				
	3. Monopolistic Competition: Meaning, features, price and profit determination.				
	<ol><li>Oligopoly: Meaning, features, types, Kinked demand curve</li></ol>				
	Recommended:				
1.	Principles of Microeconomics 2/e, D. Salvatore, Oxford University Press.				
2.	Managerial Economics, Mark Hirschey, Thomson.				
3.	Microeconomics for Management Students, R. H Dholkia and A.N. Oza, Sultan Chand, New Delhi				

	Programming in C (BCCAC 1.3)				
Te	ching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Objec	<b>Objectives:</b> It is basic programming language to improve the background for certain classes of Programming				
proble	ms.				
Learni	ng Outcomes:				
• Stu	dents can get help to work on enterprise applications, games, graphics, and applications requiring				
cal	culations, etc. by learning of C language				
• Stu	dent would learn easily this language because it is smallest one as compared with the other simila				
	nputer languages.				
• Stu	dents would able to design and develop Operating Systems like Windows, Linux etc.				
Unit	Content				
I	Introduction to C: History of C Language, Environment of C language; Development Tools: Algorithm				
	& Flowchart; C Tokens: Data Types-Basic, Derived, enumerated etc., Variables Operators Character				
	Set, Identifiers and keywords, Constants-Primary constant & Secondary Constant, C Operators, Type				
	Conversion, Escape sequences, Writing a Program in C: Variable declaration, Statements, Simple C				
	Programs, Simple Input and Output Statements, Features of studio. Control Statements: Conditiona				
	Expressions, Loop Statements, Breaking control statements.				
	Function and Program Structures: Introduction, Defining a Function, Return Statement, Types o				
	Functions, Actual & Formal Arguments, Local & Global Variables, Multifunction Program, and The				
	Scope of Variables, Recursive Function. Arrays: Array Notation, Array Declaration, Array Initialization				
	Processing with Arrays, Arrays and Functions, Multidimensional Array, Character Array. Storage Class				
	Automatic, Register, Static, External Storage Class				
III	Pointers: Pointer Declaration, Pointer Arithmetic, Pointers and Functions, Pointers and Arrays				
	Pointer and Strings, Array of Pointers, Pointers to Pointers. More on Functions: Pre-processors				
	Macros, Header Files, standard Functions.				
IV	Structures, unions and Bit Fields: Declaration of Structure, Initializing a Structure, Functions and				
	Structures, Array of Structure, Arrays within Structure, Structure within structure, Pointer and				
	Structure, Union, Bit Fields, Typedef Enumerations. Data File Operations: Review of input/output				
	Functions, Opening and Closing of files, Simple File Operation, Structures and File Operation, Block				
	Read/Write, More on File operations, Low level File operations, Random Access File processing.				
	Recommended:				
	n Depth, S. K. Shrivastava & Dipali Srivastava, BPB Publication, New Delhi				
	ogramming in ANSI C, E. Balaguruswami, Tata McGraw-Hill, New Delhi.				
3. Programming in C, R Subburaj, Vikash Publishing House Pvt. Ltd. New Delhi					
	4. Let Us C (9th Edition)- Yashwant Kanetkar BPB Publication, New Delhi.				
	<ol> <li>5. Mastering C- Veugopal Prasad, Tata McGraw-Hill, New Delhi.</li> </ol>				
6. Th	e Complete Reference C- Schildt, Tata McGraw-Hill, New Delhi				

	Information System and Information Technology (BCCAC 1.4)					
Tea	aching Hours: 4	Total Credits: 4	Total Marks: 80	Group: Core		
Objec	Objectives: Information System and Software Package is a Combination of Basic C computer So software and					
Hardw	vare with Internet	basics. It improves office	e productivity, document	management with Software		
Packa						
Learni	ng Outcomes:					
	-		-	nts to keep appropriate data		
		in a format best suited to				
-	ident can do any ta	sk effectively and efficientl	•			
Unit			Content			
I			•	r, Classification of Computer,		
				Structure, Basic Processor &		
	•	• • •	Primary & Secondary Input,	•		
II				re & Hardware, Relationship		
		-		troduction, types, Translator,		
				n, Evaluation & basic services		
		-	Introduction to Virus and it			
	Microsoft Word and Excel 2019:- Introduction to MS-Office 2019, Installation of MS-Office 2019, MS- Word:- Introduction to MS-Word, Working with toolbars & ribbons, Parts of MS-Word Window,					
	Inserting Tables, Mail-merge, Macros, Templates. <u>MS-Excel:-</u> Introduction to MS-Excel:- Introduction to MS-Excel, Elements of MS-Excel workbook, Navigation, Entering & Editing, Formatting cells,					
		ws, Charts, Linking, Data Co		al Formatting, Filtering, Goal		
IV				Insertion, deletion, Copying		
				ide, Inserting Tables, Sounds,		
				oduction to Database, Parts of		
				s, Reports, Macros, Modules.		
Books	Recommended:					
		entals, P. K. Sinha, BPB Pul	olication, New Delhi			
			/ikash Publishing House Pvt	. Ltd. New Delhi		
		pedia, S. Jaiswal, Galgotia I				
4.	Learn Microsoft Of	fice 2019, Linda Foulkes, P	ackt Publishing Limited; Illu	strated edition (29 May		
	2020)					

	Mathematics (BCCASFC 1.0)			
Teaching Hours: 4		Total Credits: 4	Total Marks: 80	Group: Core skill
				Foundation
Objec	t <b>ives:</b> The objective	of this course is to familia	rize students with the app	lications of mathematics and
statist	ical techniques in b	usiness decision-making.		
Learni	ng Outcomes:			
1. Te	o get detailed under	rstanding of various aspect	s of data collection and tab	ulation.
2. T	o understand and le	arn application of measure	es of central tendency.	
3. T	o get acquainted wi	th the practical application	of index number and index	( number
4. T	o understand practi	cal applications of business	s mathematics	
Unit			Content	
I	Number Systems a	and its various conversion r	nethods	
II	Simple & Compou	nd Interest, Measures of C	entral Tendency, Measures	of Dispersion
	Percentages, Profi	t, Loss and Discount, Ratio	, Proportion and Variations	, Partnership, Probability
IV	Time and Work, T	ime, Speed and Distance,	Circular motion, Permutat	ion and Combination, Height
	and Distance, Data	a Interpretation		
Books	Books Recommended:			
1.	Business Managem	ent and Statistics, N G Das	J K Das, Tata McGraw Hill,	New Delhi
2.	Business Mathema	<b>tics,</b> Mri <mark>ntunjay</mark> Kumar, Vik	as Publishing House Pvt. Lt	d, New Delhi.
3.	Mathematics & Sta	tistics, Ajay Goel, Alka Goe	l, Taxmann, New Delhi.	
4.	Principals of Mathe	ematical Analysis, Walter R	udin, Tata McGraw-Hill, Ne	w Delhi.
5.	Business Mathema	tics and Statistics, Dr. S. R.	Arora, Dr. Kavita Gupta, Ta	xmann, New Delhi
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6. Quantitative Aptitude, Arun Sharma, Tata McGraw-Hill, New Delhi.

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			SEMEST		
_				tills (BCCAL 2.E)	
	aching Hours: 4	Total Credits: 4		Total Marks: 80	Group: Core
Objec 1		conomic Thinkors			
	Introducing great E	dge of business comm	unication		
		ar and Vocabulary Cor			
	ing Outcomes:		mponent		
eco the lea • Tho dif kno • Un wa	onomic thinkers of the book- 'The Great B arnt the valuable ecc e objective of Devel ferent types of Busi owledge of basic ski it III- The objective s achieved by imple	the world. The econon conomic Thinkers' wa onomic theories which oping Business Corres ness letters and Inter- lls of formal letter wri for introducing Gramn ementing grammar cor	nic princip as very int pare relev pondenc office con iting. mar was t ncepts.	oles propagated by t eresting and motiva vant today. e Skills was achieved respondence. The s o enhance the skills	introducing 6 outstanding the great thinkers taken from ating for the students as they d by introducing the students to tudents appreciated the of Language learning, which
	it IV – The objective	e of implementing Voc	abulary v	vas to enhance lang	uage skills of students.
Unit			Со	ntent	
I	(Only Selected po	d Ricardo, John Stuart	of each Eo	onomic Thinker from	, Amartya Sen (6) <b>m the book 'The Great Economic</b>
II	Business Corresp	ondence:	2 Add	B BY	
	<ul> <li>Order letter</li> <li>Complaint (</li> <li>Internal Cor</li> </ul>	o-data quiry/Reply to enquiry /Reply to Order letter Claims) Letter nmunication		THE PERSON AND AND AND AND AND AND AND AND AND AN	)
		mice Order, Office Cire	cular, Off	ice Note, Correspon	dence with Branch Offices)
111	Grammar Active/Pass Direct/Indi	sive voice rect Narration	Ľ		
IV	Vocabulary				
	<ul><li>(Homographs</li><li>Idioms and pl</li></ul>	ntonyms, homonyms s/homophones), look-a nrases	alikes, on	e word substitution	etc.
	Recommended:				
		ook- 'The Great Econo			
	& V. K. Jain & Omp	akash Biyani (S. Chano	d)		Rai - (Himalaya Publishing House
	Hill)			-	& Krishna Mohan (Tata McGraw
	Banerji (Macmillan)	)			Iohan & Krishna Mohan, Meera
	Prasada Rao (S. Cha	and)			rtin Revised & Edited by N.D.V
	-	cabulary in Use- N. D. V acmillan Foundation E			sh by Pearson, Michael McCarthy

	Financial Accounting -II (BCCAC 2.1)				
Te	eaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Objec	<b>Objectives:</b> To give the knowledge about the preparation of various accounts and their practical utilization.				
Learn	ing Outcomes:				
1. T	To understand the process of preparation of final accounts of co-operative society				
2. T	Fo understand the practical aspects of issue, forfeiture and re-issue of shares				
3. T	Fo get in-depth understanding of departmental account				
4. T	o understand the practical aspects of consignment accounts				
Unit	Content				
I.	Final Accounts of Co-Operative Society:				
	Theory: Meaning and Introduction of Co-operative Society, Characteristics of and Usefulness of Co-				
	operative Society, Limitations of Co-operative society, Types of Co-operative Society, Meaning,				
	Format and Characteristics Profit and Loss Appropriation A/c.				
	<b>Practical Problems:</b> Preparation of Trading A/c, Profit and Loss A/c, Profit and Loss Appropriation A/c				
	and Balance sheet As per Maharashtra Co-operative Society Act, 1960.				
П	Issue and Forfeiture and Re-issue of Shares:				
	<b>Theory:</b> Introduction of Company, Types of Company, types of share capital, Meaning and Methods				
	of Issue of Shares, Meaning of Application, Allotment and Call on shares, Meaning of Forfeiture of				
	Par, Premium and Discount, Pro- rata method, Forfeiture of Shares and Re-issue of Forfeited Shares				
	Departmental Accounts:				
IV					
Deals					
   V	<ul> <li>and Balance sheet As per Maharashtra Co-operative Society Act, 1960.</li> <li>Issue and Forfeiture and Re-issue of Shares:</li> <li>Theory: Introduction of Company, Types of Company, types of share capital, Meaning and Methods of Issue of Shares, Meaning of Application, Allotment and Call on shares, Meaning of Forfeiture of shares and Re-issue of Forfeited shares</li> <li>Practical Problems: Preparation Journal in the books of Company with the effect of Issuing shares at Par, Premium and Discount, Pro- rata method, Forfeiture of Shares and Re-issue of Forfeited Shares</li> </ul>				

5. Financial Accounting- Grewal, Shukla, S. Chand Publications, Delhi

		Monetary Economics (BCCAC 2.2)
Te	achin	ng Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core
Objec	tives	: The objective of this course is to apply the basic theories of economics in critical thinking and
proble	em so	olving.
Learn	ing O	Outcomes:
• Stu	udent	ts would be acquainted with an understanding of the significance and role of RBI and Commercial
Ва	nks ir	n the development of economy.
• By	the	end of the Semester students will be able to know how changes in money supply can lead to
eco	onom	nic fluctuations in a dynamic economic system.
• Stu	udent	ts would be able to understand the policies and measures undertaken by the RBI for the regulation
of	mone	ey & in turn controlling the money induced economic issues/irregularities in the economy.
11		Contout
Unit	N/a	Content
•		oney Evolution
	1.	Meaning, Definition, Stages of Evolution of Money
	2. 3.	Nature and Functions of Money Banar Currensus Consent, marits and domerits
	5. 4.	Paper Currency: Concept, merits and demerits Methods of Note Issue- Fixed Fiduciary Method, Proportionate Reserve Method, Minimum
	4.	Reserve Method: Concept, merits & demerits
	Cor	mmercial Banks:
••	1.	Meaning & Importance of Commercial Banks
	2.	Functions of Commercial Banks
	3.	Credit Creation by Commercial Banks
	4.	Principles of Sound Banking System
		tional Income & Economic Issues:
	1.	National Income: Meaning, Methods of Calculation
	2.	Inflation- Meaning, Nature, Causes, Effects, Remedies, Types of inflation
	3.	Deflation - Meaning, Nature, Causes, Effects, Remedies
	4.	Trade cycle: Concept, features, phases
IV	RBI	I & Money Market
	1.	History, Meaning & Functions of Central Bank
	2.	Importance of Monetary Policy
	3.	Methods of Credit Control by Central Bank Money Market: Concept, Objectives, importance
Books	Reco	ommended:
1.	Mon	i <b>etary Economics,</b> RR Paul, Kalyani Publishers, New Delhi.
2.	Mon	ey, Banking, Trade & Public Finance, M. V. Vaish, New Age International Pvt. Ltd, New Delhi.
		ey, Banking and International Trade, K.P.M. Sundaram , Sultan Chand, New Delhi.
		<b>ic Finance,</b> Tyagi & Jai Prakash, Nath Publishers, Kolkata
		i <b>ey and Financial System,</b> P.K. Deshmukh, Phadke Prakashan, Kolhapur
6.	Princ	ciples of Economics, H.L Ahuja, S Chand Publication, New Delhi

	Operating System and Computer Hardware & Networking (BCCAC 2.3)					
Те	aching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core					
Objec	<b>Objectives:</b> Operating System is interface between the hardware's resources which include the processors,					
memo	bry, data storage and I/O devices. It understands basic concepts & structure of computer hardware &					
netwo	orking.					
Learn	ing Outcomes:					
Stude	nt would able to get the knowledge of Operating System and Computer Hardware &Network connected					
peripł	neral devices like printers, scanners and copiers or sharing of system and application software between					
multip	ple users.					
Unit	Content					
I	DOS & Windows					
	<b>DOS</b> – Introduction booting procedure, types of simple batch, multiprogramming, time sharing,					
	parallel system, distributed system, real time system, multiprocessing, DOS Commands: Internal &					
	External Commands.					
	Windows 11: - Introduction, Functions, Customize setting, use of control panel.					
П	Linux					
	Introduction to Linux, uses. File Handling Commands - ls, pwd, vim, cp, mv, rm, find; history; pattern;					
	text processing – cut, echo, wget, grep, wc, sort, linux, file permission, system administration –					
	chnode, chown, su, password, who; Process Management commands – ps, kill, Archival commands -					
	tarzip, unzip					
- 111						
	Introduction about Computer: Basics of computer, Organization of computer, Software and					
	hardware. Input/output devices: Motherboard, Types of Motherboards, SMPS, troubleshooting.					
	Inside the PC: Opening the PC and identification, Study of different blocks, Assembling and					
	dissembling.					
IV	Networking: Network basic and configuration: Setting IP addresses, Sharing files and folders.					
	Network troubleshooting, PING test, ipconfig etc., Types of servers: Introduction to server, Files					
	servers, Email Servers, Proxy servers etc. Network Security, Network topologies, Network Types: LAN,					
	WAN, MAN & PAN Networking Model: The OSI model, TCP/ IP Model. Introduction to various					
	networking devices: Routers, Switches, Modems, Hubs etc. Wired and Wireless technology, Basics of					
	Internet and Intranet					
	Recommended:					
1.	Operating System Concept, Silberschatz, Galvin & Gagne, John Willey & Sons Inc, Haboken, NJ					
2.	The UNIX Programming Environment, Kernighan & Pike, PHI, London					
3.	Linux: The Complete Reference (Sixth Edition), Richard Petersen, McGraw Hill, New Delhi					
4.	The Complete Reference, PC Hardware- Craig Zacker John Rourke, McGraw Hill, New Delhi					
5.	<b>Cisco Networks,</b> Christopher Carthern, William Wilson, Noel Rivera, Richard Bedwell					
6.	Computer Networks, Fourth Edition, Andrew S., Tanebaum					

	Programming in C++ (BCCAC 2.4)				
Теа	ching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Objec	<b>Objectives:</b> C++ improves C with object-oriented features. It is a general-purpose Programming language				
which	is regarded as a middle-level language, as it comprises a combination of both high-level and low-level				
langua	ge features.				
Learni	ng Outcomes:				
	t can get their interest in some areas where C++ is popularly used i.e. Operating Systems, Libraries,				
	cs, Banking Applications, Databases, Embedded Systems, Compilers				
Unit	Content				
I	Introduction to Object Oriented Programming:- What is OOP, Structured, Procedural Programming,				
	Basic concepts of OOPS, Advantages of OOPs, Disadvantages of OOPs, Applications of OOPS,				
	Comparison of PPL & OOP, Steps in developing OOPs Programs, Token:- Keywords, Identifier and				
	Constants, Data type, Symbolic Constant, Variables, Dynamic initialization of variables, Operators in				
	C++, Scope resolution Operator, Memory Dereferencing Operator, Memory Management Operator,				
	Manipulator, <b>Functions in C++:-</b> Main(), Function Prototyping, Call by Reference, Return by reference,				
	Default Argument, Constant Arguments				
II	Classes and Object:- Structure and Class, Declaration of class, Member Function, Access Specifier,				
	Arrays within class, Pointer and Classes, Nested Class, Special Member Functions:- Constructor,				
	Destructor, Inline Function, Static Class Member, Friend Function, Dynamic Memory Allocation, This				
	Pointer, Mutable				
- 111	Inheritance:- Introduction, Types, Define Derived Class, Types of Derivation, Types of Base Class,				
	Ambiguity and resolution in single and multiple inheritance, Array of class object in single inheritance,				
	Container Classes, Virtual Base Class, Abstract Class, Constructor in derived class, Member Classes				
	(Nesting of Classes), <b>Overloading function and Operator:</b> Function Overloading, Operator				
	Overloading, Rules of Overloading Operators, Overloading unary operator, Overloading Binary Operator, Manipulation of string using operator, Overloading Binary operator using Friend Function.				
IV	<b>Polymorphism and Virtual Functions:</b> - Introduction to polymorphism, Early Binding, Late Binding,				
IV	Polymorphism with Pointers, Virtual Function, Pure Virtual Function, Abstract Class, Constructor				
	under Inheritance, Destructor under Inheritance, Virtual Destructor, Virtual Base Class, Constructor				
	and Exception Handling:- Function Template, Class Template, Exception Handling Mechanism Throw,				
	Try, Catch, Multiple Catch Statement, <b>File Operations:-</b> Opening & Closing files, stream state, member				
	function, reading, writing a character from a file, Classes and File operations, Structure and file				
	operation, Array of classes object and file operation, Random Access Files.				
Books	Recommended:				
	<b>Dbject Oriented Programming,</b> E. Balagurusamy, Tata McGraw Hill, New Delhi				
	et Us C++, - Yashwant Kanitkar, BPB Publications, New Delhi				

	Business Ethics and Corporate Culture (BCCASFC 2.0)			
Teaching Hours: 4		Total Credits: 4	Total Marks: 80	Group: Core Skill
				Foundation
Objec	tives: The objective	of this paper is to make th	e students more clear abou	It the importance of ethics in
busin	ess and practices of	good corporate governance	е.	
Learn	ing Outcomes:			
i)	To develop an unde	erstanding of ethical princip	les, values and ethical theo	pries
ii)	To familiarize them	with the concept of corpor	ate code of ethics	
iii)	To develop concept	ual understanding of ethics	s in business, LPG and globa	al trends in business ethics
iv)	Student will be abl	e to apply theoretical kno	wledge in practical situation	on while dealing with ethical
	concerns in various	aspects of business		
v)	To acquire knowled	ge about CSR along with its	s dimensions	
vi)	Ability to analyze ar	nd apply the concept of cor	porate governance	
vii)	To develop an over	all idea about ethical invest	ing, insider trading and wh	istle blowing.
Unit			Content	
I	Introduction to B	usiness Ethics		
	Meaning & definit	ion of ethics, nature of eth	ics and sources of ethics, va	alues & types of values.
	Meaning of busine	ess ethics, objectives of bus	iness ethics, need & impor	tance of business ethics.
Ш	Ethics in Workp	lace: Introduction, factors	s affecting ethical behav	ior at work, ethical issues,
	discrimination, harassment, importance of ethical behavior at workplace, guidelines for managing			
	ethics in the workplace.			
	Ethics in Marketing: Ethics & marketing, unethical issues in marketing.			
	Ethics in Accounting & Finance: Need for ethics in finance, fundamental principles relating to ethics,			
		ical b <mark>ehavior/ unethical pra</mark>	ctices in finance.	
- 111	Corporate Culture			
				te culture, factors affecting
	-	. Types of attitude, types o	f ego, how to deal with in	terpersonal conflict between
	coworkers,	26		
	Relevant Case Stu			
IV	-	Responsibility: Concept of (		
	-			good corporate governance,
		d corporate governance, <mark>c</mark> o	orporate governance and it	s obligations to stakeholders.
	Recommended:			
		/ Murthy, Himalaya Publish	-	
2.	Business Ethics, An	Indian Perspective; A.C. Fe	rnando, Pearson, Chennai	

	Cost Accounting (BCCAC 3.1)
Te	hing Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core
Objec	ves: This course exposes the students to the basic concepts and the tools used in cost accounting.
Learn	g Outcomes:
1.	o understand the concept and practical application of cost sheet and tender sheet.
2.	o understand the procedure of reconcile the profit as per cost and financial books.
3.	o understand the basic concept and profit recognition in contract costing.
4.	o get the detailed understanding of process costing including the concept of loss and by-product.
Unit	Content
I	Cost Sheet and Tender Sheet:
	Theory: Meaning, Nature, Scope, Advantages & Disadvantages of Cost Accounting, Elements of Cost,
	Concept of Overheads, Direct & Indirect Overheads, Segregation of Indirect Overheads, Advantages
	and Disadvantages of Cost Sheet and Tender Sheet.
	Practical Problems: Preparation of Cost sheet and Tender Sheet.
Ш	Reconciliation Statement of Profit:
	Theory: Meaning of Reconciliation statement of Profit, Need, Objectives and Advantages of
	Reconciliation Statement of Profit.
	Practical Problems: Preparation of Recompilation Statement of Profit of Cost Sheet and Financial
	Account by various methods.
	Contract Account
	Theory: Meaning of Contract, Types of Contracts, Objectives, Advantages and Disadvantages of
	Contract Costing, Difference between Contract Costing and Job Costing.
	Practical Problems: Preparation Contract Account for including Completed Contract and Incomplete
	Contract.
IV	Process Account:
	Theory: Meaning of Process, Characteristics, Advantages and Disadvantaged of Process, Meaning of
	Normal Loss, Abnormal Loss and By-product.
	Practical Problems: Preparation Process Accounts for Simple Process, By-product, Normal Loss,
	Abnormal Loss and Gains
	Recommended:
1.	ost Accounting, Dr. V.S. P. Rao, Vrinda Publication Pvt. Ltd., Delhi, 2000.
2.	ost Accounting, Dr. M.P. Gupta, Mansarovar Publication, Kanpur, 2016.
	ost Accounting, Dr. R. N. Khandelwal, SBPD Publication, Agra, 2015
4.	ost Accounting, Prof. S.N. Patil, Vishwa Publication, Nagpur, 2001.

Shiksha Mandal's

# G. S. College of Commerce & Economics, Nagpur NAAC Accredited "A" Grade Autonomous Institution

# Syllabus for the Course of BACHELOR OF COMMERCE (COMPUTER APPLICATION) w.e.f. 2022-2023

	BACHELOR OF COMMERCE (COMPUTER APPLICATION) [B.C.C.A.]
Α	PROGRAMME OUTCOMES
	After completing three years of B.Com. (Computer Application) programme, students are expected to
PO-1	Gain fundamental as well as advance knowledge of all the key and broad concepts in the field of Information
	Technology and Computer Application in general and the main domains of Commerce, Accountancy and
	Statistics, Business Management and Administration, Economics, and Business Communication in particular
	through various core, elective and skill-foundation
PO-2	Acquire and develop basic and advance skills in computer application and information technology
	for business such as accounting software like Tally.ERP 9.0, management information systems,
	database management systems, programming languages, web designing etc. in order to develop
	into professionals in different fields of Information Technology and apply these IT skills for the
PO-3	promotion of Industry and business.
PU-3	Be able to use and apply their knowledge and skills to find effective solutions to real life situations and challenges and take effective decisions.
PO-4	Be capable of gaining employment in public and private sectors by virtue of their knowledge and
r 0-4	skills acquired during the course of graduation.
PO-5	Be competent to serve in various industries and sectors especially in the field of information
105	technology, banking and insurance sectors, finance companies, logistical services etc. in various
	positions viz. system administrator, network system and data analyst, database administrator, chief
	information officer etc.
PO-6	Be capable of self-employment or venturing into a start-up by virtue of course in entrepreneurship
	development
PO-7	Have a solid foundation to build a larger corpus of knowledge through higher studies including post-
	graduation and research not only in the field of Commerce and Information Technology but also in
	other areas owing to the inter-disciplinary approach and study of Open and Generic Electives.
В	PROGRAMME SPECIFIC OUTCOMES
	After completing three years of B.Com. (Computer Application) programme, students would
PSO-1	Have proficiency in the basic and advanced knowledge of the core information technology subjects
	viz. Programming in C, C++ & C#, VB.NET, Core Java, Advanced Java and Android, Python, Dynamic
	Web Designing, Database Management Systems and Oracle, Operating Systems and Computer
	Hardware and Networking Commerce as well as the core Commerce subjects of Accountancy,
	Business Economics, Business Laws, Taxation, Indian Financial Systems etc.
PSO-2	Have proficiency in various Discipline-specific and Generic Electives of their choices and interests.
PSO-3	Have specialized knowledge of Programming Languages, Database Management Systems,
	Management Information Systems, Web designing and key areas of Financial Accountancy,
	Management Accountancy, Cost Accountancy, Economics, Business Laws, Corporate Law and
PSO-4	Secretarial Practices and Taxation. Have specialized knowledge of E-commerce, Indian Banking and Insurance System, International
F 3U-4	Trade and Business Administration, Security Analysis and Portfolio Management,
PSO-5	Have proficiency in both Direct and Indirect Taxes with special emphasis on Corporate Tax and GST.
PSO-6	Have proficiency in HRM, Entrepreneurship Development, Industrial and Labour Laws, E-Commerce
PSO-7	Have exposure to Gandhian Economics, Econometrics, Intellectual Property Rights, E- Governance,
,	Constitution of India, Public Administration etc. through Electives leading to holistic development
	through an interdisciplinary approach.
PSO-8	Prepare for Competitive Examinations by doing an Elective Course on Quantitative Aptitude
	and Logical Reasoning.
PSO-9	Be able to apply Computer Application and data analytical skills in business decisions making.
PSO-10	Be acquainted with business ethics and corporate culture and corporate governance.

C	COURSE CONTENTS					
	Course	Outcome				
1.	English Language	Students will able to develop competence and proficiency in English Language				
	Skills	by studying relevant and motivating prose texts, Business Communication and				
		Correspondence skills, Grammar skills and Vocabulary.				
2.	Financial	Students will be able to understand the fundamentals of Accounting and the				
	Accounting	process of preparation of accounts as per the need of business organization.				
3.	Economics	Students will be able to relate the concepts and theories of Economics with the				
		real world and its practical application in business.				
4.	Programing in C	Students will be able to work on enterprise applications, games, graphics, and				
		applications requiring calculations, etc. by learning C language. Students would				
		able to design and develop Operating Systems like Windows, Linux etc.				
5.	Information System	Students will be able to get benefit of keeping appropriate data about each user's				
	and Information	task in a format best suited to that user and can do any task effectively and				
	Technology	efficiently in a suitable format				
6.	Mathematics	Students will be able to get detailed understanding of various aspects of data				
		collection and tabulation, learn application of measures of central tendency and				
		get acquainted with the practical application of index number and to understand				
		practical applications of business mathematics.				
7.	<b>Operating System</b>	Student would able to get the knowledge of Operating System and Computer				
	and Computer	Hardware & Network connected peripheral devices like printers, scanners and				
	Hardware and	copiers or sharing of system and application software between multiple users.				
	Networking	TS at				
8.	Programming in C++	Student can develop interest in areas where C++ is popularly used i.e. Operating				
		Systems, Libraries, Graphics, Banking Applications, Databases, Embedded				
		Systems, Compilers.				
9.	<b>Business Ethics and</b>	Students will be able to understand the concept of ethics in business and their				
	Corporate Culture	importance and develop acceptable attitudes and viewpoints with respect to				
		business ethics and social responsibility.				
10.	Cost Accounting	Students will be able to understand the fundamentals of Cost Accounting and the				
		process of preparation of cost accounts and statement to arrive at cost of product				
		as well as to know the amount of profit.				
11.	Company Law &	Students will be able to understand the process of formation and incorporation				
	Secretarial Practice	of company in India; the framework of Memorandum of Association and Article				
		of Association and Prospectus. Also learn about the concept of Share Capital,				
		Shareholders, Members, Role of a Managing Director and meetings of companies.				
12.	Web Designing and	Students will be able to create web pages which can be understood by any web				
	HTML	browsers.				
13.	Programming in C#	Students would able to develop native windows applications, mobile apps,				
		websites, games and even native Android or iOS apps by learning of C# with some				
		additional frameworks like Xamarin or Mono.				
14.	MIS and System	Students would be able to know the current status of organization at a glance				
	Analysis	through Management Information System & System Analysis in order to improve				
	•	the quality of decisions.				
15.	Computer	Students will be able to use of MS Word, MS Power point and MS Excel Software				
	Application in	in business, computerized accounting with the Tally accounting software, E-filing				
	Business	procedures of Direct Taxes and E-compliances of Indirect Taxes.				

16.	Management	Students will understand fundamentals of Management Accounting and practical
	Accounting	knowledge about various tools of management accounting for taking managerial
	C C	decisions.
17.	Business Laws	Students will be able to demonstrate an understanding of Legal Environment of
		Business in Indian scenario, apply basic legal knowledge to business transactions
		and communicate effectively using standard business and legal terminology.
18.	VB.NET	Students can create wide range of applications like console- based applications,
		window-based applications, window services web application, web services etc.
19.	Dynamic Web	Students can present dynamic web content on web browsers for the personal and
	, Designing	professional users.
	(PHP and My SQL)	
20.	Database	Students can manage the database by DBMS & Oracle used for running Online
	Management	Transactions Processing (OLTP), Data Warehousing (DW) and mixed database
	System and Oracle	workload. Students can store and retrieve related information.
21.	Environmental	Students will be able to understand the concept of Ecosystems and Environment,
	Studies	the concept of biodiversity and its conservation and environmental pollution.
22.	Auditing and	Students will be able to understand mechanisms of Corporate Governance, role
	Corporate	of Board of Directors in Corporate Governance and corporate Governance in
	Governance	Indian context.
23.	Indian Financial	Students will be able to understand the concept of money markets, capital
	System	markets and various instruments of money and capital markets, instruments of
		global capital markets, financial markets and the meaning and working of
		derivative market in India.
24.	Core Java	Students would able to design application software for both desktop and web
		applications.
25.	Python	Students can create and learn Console application, Desktop application, web
		development, Machine learning, Internet of Things (IOT) applications, system
		scripting. Students can connect to database system so that they can handle big
		data and perform complex mathematics.
26.	Indian Banking and	Student will be able to understand, the principles of borrowing and lending,
	Insurance System	Internet banking and concepts of insurance.
27.	International Trade	Students will be able to Explain the concepts in international business with
	and Business	respect to foreign trade/international business and Administration.
	Administration	
28.	Human Resource	Students would be able to build understanding about the aspects of managing
	Management	Human Resources in an organisation.
29.	Entrepreneurship	Students will be able to understand historical evolution of entrepreneurship,
	Development	various entrepreneurship trends, procedures of opportunity scouting and idea
		generation, the concept, need, problems of Rural entrepreneurship and
		measures to develop the same.
30.	Quantitative	Student will be able to understand concept of ratio and proportion, concept of
	Aptitude and Logical	interest and logical reasoning.
24	Reasoning	
31.	Econometrics	Students would be able to develop clarity on application of statistical techniques
		to analyses and solve economic issues. Students would build an attitude towards
		the applicability of statistical techniques to various economic issues to evolve
		with a concrete solution.

32.	E-Governance	Student will be able to understand compliance norms of e-governance related to			
52.		tax filings, GST filings and companies and LLP.			
33.	Introduction to	Student will be able to understand tourism development and impact of tourism			
55.	Travel and Tourism				
24		and rural tourism and other related aspects.			
34.	Corporate Tax	Student will be able to understand the provisions of direct taxes relating			
	Planning	corporate tax, application of tax provisions in respect of tax planning			
		considerations relating to companies.			
35.	Advanced Java and	Students can learn simplified mobile app development process. Students can also			
	Android	create custom mobile apps that solve customer problems and increase value for			
		their business.			
36.	ASP.NET	Students can get help to create web pages and web technologies like			
		amazon.com, ebay.com and many other popular web sites by using ASP. NET as			
		the framework.			
37.	Security Analysis	Students will be able to understand risk & return analysis, share valuation and			
	and Portfolio	portfolio Management through application of Various Models.			
	Management				
38.	Goods and Service	Student will be able to understand the concept of charge and levy of Goods and			
	Тах	Service Tax and computation of tax liability of Goods and Service Tax.			
39.	Industrial and	Student will be able to understand functioning of factories and industries,			
	Labour Laws	compensation Laws and Union Laws.			
40.	E-Commerce	Student will be able to understand the concepts of E- Commerce & E-Business,			
		basic requirements of E-Commerce and use of digital payment systems.			
41.	Gandhian	Students would be acquainted with the understanding about the various aspects			
	Economics	of socio-economic principles of Gandhian ideology related to Economics and the			
		implications of Gandhian Economics with respect to Indian Economy.			
42.	Introduction to	Student will be able to understand functioning of Public Administrative			
	Public	Authorities, the Concept of Democratic Governance and functioning of			
	Administration	Parliament.			
43.	Intellectual	Student will be able to understand the concept of Intellectual Property Rights,			
	Property Rights	functioning of Patents and concepts of Copyright and Trademarks			
44.	Constitution of India	Student will be able to understand the basics of the Constitution, Citizenship			
	and Human Rights	Rights and Human Rights			
45.	Project	Students would be able to gain practical knowledge through exposure to different			
	-	problems and are expected to find solutions through project work on any given			
		idea/topic. Students would be able to understand which programming language			
		is handy for them to make their project easier. Live projects will allow students to			
		gain valuable work experience			
		during study.			
		winip study.			

		-	ESTER I				
			e Skills (BCCAL 1.E)				
	Teaching Hours: 4     Total Credits: 4     Total Marks: 80     Group: Core						
Object		- ntropropouro					
-	<ol> <li>Introducing great Entrepreneurs</li> <li>Developing Communication Skills</li> </ol>						
2)			nontr				
	ing Outcomes:	nar and Vocabulary Compo	nents				
Unit I entrep Trailbl object creativ Unit II comm	- The objective of preneurs of the wo azers' was very inte ive was to make th vity etc. needed for - The objective of D unication theory, n	orld. The biographical sket resting and motivating for e students aware of the q a great entrepreneur. The B eveloping Communication	tches of the entrepreneu the students, especially of ualities like enterprising a BoS approved the text and Skills was achieved by intro	ieved by introducing 6 best irs from the book- 'Modern f commerce background. The ttitude, hard work, integrity, the students too loved it. oducing the students to basic iated the knowledge of basic			
	of communication						
		_	to enhance the skills of L	anguage learning, which was			
		grammar concepts.					
	/ – The objective of	implementing Vocabulary v		kills of students.			
Unit			Content				
I	Great Entrepreneu		Dahul Daiai Datan Ta	te Drive Devil			
		bhai Ambani, Mallika Sriniv	asan, Ranul Bajaj, Ratan Ta	ata, Priya Paul			
II	Communication:	Y RIV					
		nportance, nature , scope	20163 23				
		the Communication Proces	s- Sender, Channel, Messa	ge, Receiver and			
	Feedback	TEE S					
	<ul> <li>Methods of</li> </ul>	Communication-Verbal & N	Ion-Verbal				
	<ul> <li>Types of Communication- Formal and Informal, Dyadic &amp; Group, Electronic &amp; Print</li> </ul>						
	<ul> <li>Directions of</li> </ul>	<sup>E</sup> Communication- Vertical,	Horizontal, Diagonal				
	Barriers to effective communication						
	Communicat	ion Networks	त्तर '				
111	Grammar						
	Parts of Spece	ech L					
	<ul> <li>Types of Ser</li> </ul>						
	<ul> <li>Tenses</li> </ul>						
		ion of Sentences- Interroga	tive-Assertive· Affirmative	-Negative: Exclamatory-			
		estion tag; Inter-change of		regulive, Exclamatory			
IV	Vocabulary	<u> </u>	0				
	-	f words: Primary words, coi	mpound words, primary de	erivatives, secondary			
		Pre-fixes/suffixes)	· · · · · ·	·			
	•	f nouns from verbs/adjectiv	ves; adjectives from nouns,	/verbs			
Books	Recommended:		·				
1. (	Unit I – Prescribed T	ext-Book - 'Modern Trailbla	zers' Eds- A.Dhote & H.Dh	ote, Published by- Orient			
I	Blackswan.						
	Unit II - Developing & Krishna Mohan	Communication Skills – Kris	hna Mohan & Meera Bane	erji (Macmillan), R.C.Sharma			
	Unit III -High School Prasada Rao (S.Char	English Grammar & Compo d)	sition– Wren & Martin Rev	vised & Edited by N.D.V.			
I	Unit IV -English Vocabulary in Use- Michael McCarthy & Felicity O'Dell, English Vocabulary- N.D.V. Prasada Rao						
5. I	Unit IV- Macmillan F	oundation English, R. K. Dw	vivedi, Macmillan Publisher	r			

	Financial Accounting – I (BCCAC 1.1)				
Те	aching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Objec	<b>Objectives:</b> The objective of this paper is to help students to acquire conceptual knowledge of the financial				
accou	nting and to impart skills for recording various kinds of business transactions.				
Learni	ing Outcomes:				
1.	To understand the fundamentals of accounting.				
2.	To understand the process of preparation of final accounts of sole trading concern.				
3.	To get acquainted with concept and process of joint venture accounts.				
4.	The students would be coherent with the concept of depreciation.				
Unit	Content				
I	Basics of Accounting:				
	<b>Theory:</b> Meaning and scope of Accounting, Need, Development & Definition of accounting, Branches				
	of accounting and Principles, Concepts and Conventions of accounting, Journal Entries of Transactions,				
	Ledgers and Trial Balance				
	Practical Problems: Preparation of Journal, Leaders and Trial Balance				
П	Final Accounts of Sole Traders:				
	<b>Theory:</b> Meaning of Final Account, Characteristics and Format of Trading A/c, Profit and Loss A/c and				
	Balance Sheet, Meaning and nature of Adjustment.				
	Practical Problems: Preparation of Trading A/c, Profit and Loss A/c and Balance sheet from Trail				
	balance and Adjustments				
III	Joint Venture:				
	Theory: Meaning of Joint Venture, Characteristics of Joint Venture, Advantages and Disadvantages of				
	Joint Venture, Methods of Joint Ventures, Distinction between Joint Venture and Partnership.				
	Practical Problems: Preparation of various accounts as per Centralized Method and Decentralized				
	Method of Joint Ventur <mark>e. 2</mark>				
IV	Depreciation:				
	Theory: Meaning of Depreciation, Nature, Characteristics and Advantages of Depreciation, Need of				
	Depreciation, Various Methods of charging Depreciation (i) Straight line method, ii) Reducing balance				
	method iii) Annuity method iv) Depreciation fund method v) Depreciation fund insurance policy				
	method.				
	<b>Practical Problems:</b> Preparation of Depreciation A/c, Machinery A/c under: (i) Straight line method ii)				
	Reducing balance method iii) Annuity method iv) Depreciation fund method v) Depreciation fund				
	insurance policy method.				
Books	Books Recommended:				
1.	Financial Accounting, Paul, S. K, New Central Book Agency				
2.	Financial Accounting for Managers- Ghosh, T. P. Taxman Allied Service				
3.	Financial Accounting - Dr. V. K. Goyal, Excel Books				
4.	Financial Accounting - Jain S.P., Narang K.L., Kalyani Publishers, Delhi.				
5.	Financial Accounting- Grewal, Shukla, S. Chand Publications, Delhi				

	Business Economics (BCCAC 1.2)					
Теа	Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core					
Object	<b>Objectives:</b> The objective of this paper is to help students to acquire conceptual knowledge of the financial					
accou	nting and to impart skills for recording various kinds of business transactions.					
Learni	ng Outcomes:					
Stude	nts would be able to relate the concepts and theories of economics with the real world and its practical					
applic	ation in business.					
By the	e end of the Semester, students will be able to analyze and predict consumption and production					
behav	ior.					
Unit	Content					
I	Foundation of Business Economics					
	<ol> <li>Business Economics – meaning, nature, scope</li> </ol>					
	<ol><li>Micro &amp; Macro economic analysis – meaning, merits and demerits</li></ol>					
	3. Utility – Concept of utility, Law of Equi-marginal utility & law of diminishing utility					
	4. Indifference Curve Analysis: Concept, definition, Properties, Indifference Map, Consumer's					
	equilibrium					
П	Demand – Elasticity of demand & demand forecasting					
	<ol> <li>Demand – Law of demand with exceptions</li> </ol>					
	2. Methods of measurement of elasticity of demand					
	3. Meaning, importance & techniques of demand forecasting					
	4. Concept of demand estimation					
Ш	Theory of production, cost & revenue					
	<ol> <li>Production Function: Concept, assumptions, Cobb &amp; Douglas Production function</li> </ol>					
	<ol><li>Law of variable proportion (Short Run); Law of returns to scale (Long Run)</li></ol>					
	3. Costing Concepts, types of costs					
	4. Concepts of revenue, types of revenue					
IV	Market Structure					
	1. Market: Meaning, features, classification Perfect Competition: Concept of firm & Industry,					
	meaning & features of perfect competition, Equilibrium of firm & industry.					
	2. Monopoly: Meaning, features, Price & profit determination, price discrimination: Concept, types,					
	and conditions for price discrimination to be profitable.					
	3. Monopolistic Competition: Meaning, features, price and profit determination.					
	<ol><li>Oligopoly: Meaning, features, types, Kinked demand curve</li></ol>					
	Recommended:					
1.	Principles of Microeconomics 2/e, D. Salvatore, Oxford University Press.					
2.	Managerial Economics, Mark Hirschey, Thomson.					
3.	Microeconomics for Management Students, R. H Dholkia and A.N. Oza, Sultan Chand, New Delhi					

	Programming in C (BCCAC 1.3)				
Te	Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core				
Objec	ives: It is basic programming language to improve the background for certain classes of Programming				
proble	ms.				
Learn	ng Outcomes:				
• Stu	dents can get help to work on enterprise applications, games, graphics, and applications requiring				
cal	ulations, etc. by learning of C language				
• Stu	dent would learn easily this language because it is smallest one as compared with the other simila				
	nputer languages.				
• Stu	dents would able to design and develop Operating Systems like Windows, Linux etc.				
Unit	Content				
I	Introduction to C: History of C Language, Environment of C language; Development Tools: Algorithm				
	& Flowchart; C Tokens: Data Types-Basic, Derived, enumerated etc., Variables Operators Characte				
	Set, Identifiers and keywords, Constants-Primary constant & Secondary Constant, C Operators, Type				
	Conversion, Escape sequences, Writing a Program in C: Variable declaration, Statements, Simple (				
	Programs, Simple Input and Output Statements, Features of studio. Control Statements: Conditiona				
	Expressions, Loop Statements, Breaking control statements.				
- 11	Function and Program Structures: Introduction, Defining a Function, Return Statement, Types o				
	Functions, Actual & Formal Arguments, Local & Global Variables, Multifunction Program, and The				
	Scope of Variables, Recursive Function. Arrays: Array Notation, Array Declaration, Array Initialization,				
	Processing with Arrays, Arrays and Functions, Multidimensional Array, Character Array. Storage Class:				
	Automatic, Register, Static, External Storage Class				
III	Pointers: Pointer Declaration, Pointer Arithmetic, Pointers and Functions, Pointers and Arrays				
	Pointer and Strings, Array of Pointers, Pointers to Pointers. More on Functions: Pre-processors				
	Macros, Header Files, standard Functions.				
IV	Structures, unions and Bit Fields: Declaration of Structure, Initializing a Structure, Functions and				
	Structures, Array of Structure, Arrays within Structure, Structure within structure, Pointer and				
	Structure, Union, Bit Fields, Typedef Enumerations. Data File Operations: Review of input/outpu				
	Functions, Opening and Closing of files, Simple File Operation, Structures and File Operation, Block				
	Read/Write, More on File operations, Low level File operations, Random Access File processing.				
Books	Books Recommended:				
1. C	<ol> <li>C in Depth, S. K. Shrivastava &amp; Dipali Srivastava, BPB Publication, New Delhi</li> </ol>				
<ol><li>Programming in ANSI C, E. Balaguruswami, Tata McGraw-Hill, New Delhi.</li></ol>					
<ol> <li>Programming in C, R Subburaj, Vikash Publishing House Pvt. Ltd. New Delhi</li> </ol>					
4. Let Us C (9th Edition)- Yashwant Kanetkar BPB Publication, New Delhi.					
	<ol> <li>5. Mastering C- Veugopal Prasad, Tata McGraw-Hill, New Delhi.</li> </ol>				
6. Th	6. The Complete Reference C- Schildt, Tata McGraw-Hill, New Delhi				

	Information System and Information Technology (BCCAC 1.4)					
Te	Teaching Hours: 4Total Credits: 4Total Marks: 80Group: Core					
Objec	<b>Objectives:</b> Information System and Software Package is a Combination of Basic C computer So software and					
Hard	ware with Internet	basics. It improves office	e productivity, document	management with Software		
Packa	iges.					
	ing Outcomes:					
	•	•	-	nts to keep appropriate data		
		s in a format best suited to				
	udent can do any tas	k effectively and efficientl	•			
Unit			Content			
I			-	r, Classification of Computer,		
			•	Structure, Basic Processor &		
	Memory architect	ure of Computer System, I	Primary & Secondary Input,	Output Devices.		
II				e & Hardware, Relationship		
		•		troduction, types, Translator,		
				n, Evaluation & basic services		
			Introduction to Virus and it			
	Microsoft Word and Excel 2019:- Introduction to MS-Office 2019, Installation of MS-Office 2019, MS-					
	Word:- Introduction to MS-Word, Working with toolbars & ribbons, Parts of MS-Word Window,					
	Inserting Tables, Mail-merge, Macros, Templates. <u>MS-Excel:-</u> Introduction to MS-Excel:- Introduction					
		to MS-Excel, Elements of MS-Excel workbook, Navigation, Entering & Editing, Formatting cells,				
				al Formatting, Filtering, Goal		
IV						
Beak	an Access Window, Creating new Database, Relationships, Query, Forms, Reports, Macros, Modules.					
		ntele D. V. Sinha DDD Du	alientian Now Dalhi			
				Itd New Dolbi		
				. Ltd. New Delm		
	• • •			strated edition (29 May		
		<b>100 2013,</b> Linua i Ouikes, r	acker abiisining Linnied, Illu	30 ateu cultion (23 iviay		
IV Book 1. 2. 3. 4.	Inserting Tables, N to MS-Excel, Elem Formula and Fund Seek, Tables, View Microsoft PowerF Slides, Slide numb Charts, Different C an Access Window s Recommended: Computer Fundame A First Course In Co I.T. Today, Encyclop	Iail-merge, Macros, Temp nents of MS-Excel workb stions, V-lookup, H-looku vs, Charts, Linking, Data Co <u>Point and Access:-</u> Introd ering, Header &Footer, D bjects, Animation, Slide T v, Creating new Database, entals, P. K. Sinha, BPB Pul mputers, Sanjay Saxena, N edia, S. Jaiswal, Galgotia I	lates. <u>MS-Excel:-</u> Introduction pook, Navigation, Entering p, Data Sorting, Conditiona posolidation, Pivot Table. Suction to MS-PowerPoint, ifferent Layouts, Master Sli ransition. <u>MS-Access:-</u> Intro Relationships, Query, Form polication, New Delhi /ikash Publishing House Pvt	on to MS-Excel:- Introduction & Editing, Formatting cells, al Formatting, Filtering, Goal Insertion, deletion, Copying de, Inserting Tables, Sounds, oduction to Database, Parts of s, Reports, Macros, Modules.		

	Mathematics (BCCASFC 1.0)				
Teaching Hours: 4		Total Credits: 4	Total Marks: 80	Group: Core skill	
				Foundation	
Objec	<b>tives:</b> The objective	of this course is to familia	rize students with the app	lications of mathematics and	
statist	ical techniques in b	usiness decision-making.			
Learn	ing Outcomes:				
1. T	o get detailed under	rstanding of various aspect	s of data collection and tab	ulation.	
2. T	o understand and le	arn application of measure	es of central tendency.		
3. T	o get acquainted wi	th the practical application	of index number and index	number	
4. T	o understand practi	cal applications of business	s mathematics		
Unit			Content		
I	Number Systems a	and its various conversion r	methods		
II	Simple & Compou	nd Interest, Measures of C	entral Tendency, Measures	of Dispersion	
	Percentages, Profi	t, Loss and Discount, Ratio	, Proportion and Variations	, Partnership, Probability	
IV	Time and Work, T	ime, Speed and Distance,	Circular motion, Permutat	on and Combination, Height	
	and Distance, Data Interpretation				
Books	Books Recommended:				
1.	Business Managem	ent and Statistics, N G Das	J K Das, Tata McGraw Hill,	New Delhi	
2.	<b>Business Mathema</b>	<b>tics,</b> Mri <mark>ntunjay</mark> Kumar, Vik	as Publishing House Pvt. Lt	d, New Delhi.	
3.	Mathematics & Sta	tistics, Ajay Goel, Alka Goe	l, Taxmann, New Delhi.		
4.	Principals of Mathe	matical Analysis, Walter R	udin, Tata McGraw-Hill, Ne	w Delhi.	
5.	Business Mathematics and Statistics, Dr. S. R. Arora, Dr. Kavita Gupta, Taxmann, New Delhi				
6.	Quantitative Aptitu	i <b>de,</b> A <mark>run Sharma, Tata Mc</mark>	Graw-Hill, New Delhi.		

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6. Quantitative Aptitude, Arun Sharma, Tata McGraw-Hill, New Delhi. 

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			SEMES			
				Skills (BCCAL 2.E)		
	Teaching Hours: 4         Total Credits: 4         Total Marks: 80         Group: Core					
Objec		conomic Thinkors				
	Introducing great E	dge of business comn	aunicatio			
		ar and Vocabulary Co				
	ing Outcomes:		inponen	15		
<ul> <li>The eco the lea</li> <li>The dift knew</li> <li>Un</li> </ul>	e objective of imple pnomic thinkers of t book- 'The Great E mut the valuable ecc e objective of Devel ferent types of Busi owledge of basic ski it III- The objective	he world. The econor conomic Thinkers' wa pnomic theories which oping Business Corres ness letters and Inter Ils of formal letter wr for introducing Gram	mic princ as very ir h are rele sponden -office co iting. mar was	iples propagated by t nteresting and motiva evant today. ce Skills was achieved prrespondence. The si	introducing 6 outstanding he great thinkers taken from ting for the students as they I by introducing the students to tudents appreciated the of Language learning, which	
		menting grammar co	•			
	it IV – The objective	of implementing Vo			uage skills of students.	
Unit			C	ontent		
I	(Only Selected po	d Ricardo, John Stuar	of each E		, Amartya Sen (6) <b>n the book 'The Great Economi</b> d	
11	Business Correspo	ondence:	रुष	Max El		
	Application		9	- H		
	Preparing Bi			3 4 2 -		
		quiry/Reply to enquir				
		Reply to Order letter	C	38/ 3/		
		Claims) Letter		2/321		
	Internal Con		Alm	TP.		
	(Memorandum, O	ffice Order, Office Cir	cular, Of	fice Note, Correspond	dence with Branch Offices)	
	Grammar					
	Active/Pass					
N7		rect Narration				
IV	Vocabulary	tonume homenume				
		tonyms, homonyms	alikas	no word substitution	ata	
		• •	allkes, o	ne word substitution	elc.	
Deeks	<ul> <li>Idioms and place</li> <li>Recommended:</li> </ul>	irases				
		ook 'The Creat Econ	omic Thi	nkers' - Edited by Jona	athan Caplin	
				•	ai - (Himalaya Publishing House	
		akash Biyani (S. Chan				
3.			•	iting – R.C. Sharma &	د Krishna Mohan (Tata McGraw	
	Banerji (Macmillan)				ohan & Krishna Mohan, Meera	
	Unit III- High School English Grammar & Composition– Wren & Martin Revised & Edited by N.D.V. Prasada Rao (S. Chand)					
	-	abulary in Use- N. D. V acmillan Foundation			h by Pearson, Michael McCarth	

	Financial Accounting -II (BCCAC 2.1)					
Те	Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core					
Objec	<b>Objectives:</b> To give the knowledge about the preparation of various accounts and their practical utilization.					
Learn	ing Outcomes:					
1. T	o understand the process of preparation of final accounts of co-operative society					
2. T	o understand the practical aspects of issue, forfeiture and re-issue of shares					
3. T	o get in-depth understanding of departmental account					
4. T	o understand the practical aspects of consignment accounts					
Unit	Content					
I	Final Accounts of Co-Operative Society:					
	Theory: Meaning and Introduction of Co-operative Society, Characteristics of and Usefulness of Co-					
	operative Society, Limitations of Co-operative society, Types of Co-operative Society, Meaning,					
	Format and Characteristics Profit and Loss Appropriation A/c.					
	<b>Practical Problems:</b> Preparation of Trading A/c, Profit and Loss A/c, Profit and Loss Appropriation A/c					
	and Balance sheet As per Maharashtra Co-operative Society Act, 1960.					
П	Issue and Forfeiture and Re-issue of Shares:					
	<b>Theory:</b> Introduction of Company, Types of Company, types of share capital, Meaning and Methods					
	of Issue of Shares, Meaning of Application, Allotment and Call on shares, Meaning of Forfeiture of					
	shares and Re-issue of Forfeited shares					
	Practical Problems: Preparation Journal in the books of Company with the effect of Issuing shares at					
	Par, Premium and Discount, Pro- rata method, Forfeiture of Shares and Re-issue of Forfeited Shares					
	Departmental Accounts:					
	Theory: Meaning of Departmental Account, Need and Objectives of Departmental Accounting, Nature					
	of Departmental Accounting, Advantages and Disadvantages of Departmental Accounting, Difference					
	between Departments and Branches.					
	Practical Problems: Preparation of Trading A/c, Profit and Loss A/c and Balance sheet by allocating					
	the Joint Expenses among the various Departments.					
IV	Consignment Account: Theory: Introduction and Meaning of Consignment, Objectives of Consignment, Advantages and					
	Disadvantages of Consignment, Difference between Consignment and Sale, Difference Between					
	Consignment and Joint Venture, Role of Consigner and Consignee, Types of Various Commissions paid					
	by Consigner to Consignee.					
	<b>Practical Problems:</b> Preparation Journal and Ledgers in the books of Consigner and Consignee					
	including invoice method, Calculation of loss on damaged goods and valuation of Closing Stock.					
Books	Books Recommended:					
1.	Financial Accounting, Paul, S. K, New Central Book Agency					
2.	Financial Accounting, Fault, S. R. New Central Book Agency Financial Accounting For Managers- Ghosh, T. P. Taxman Allied Service					
3.	Financial Accounting - Dr.V.K.Goyal, Excel Books					
4.	Financial Accounting - Jain S.P., Narang K.L., Kalyani Publishers, Delhi.					
5.	Financial Accounting- Grewal, Shukla, S. Chand Publications, Delhi					

5. Financial Accounting- Grewal, Shukla, S. Chand Publications, Delhi

Monetary Economics (BCCAC 2.2)								
Teaching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Cor								
Objec	<b>Objectives:</b> The objective of this course is to apply the basic theories of economics in critical thinking and							
proble	problem solving.							
Learni	Learning Outcomes:							
• Stu	ents would be acquainted with an understanding of the significance and role of RBI and Commer	cial						
Ba	s in the development of economy.							
• By	e end of the Semester students will be able to know how changes in money supply can lead	l to						
eco	omic fluctuations in a dynamic economic system.							
• Stu	ents would be able to understand the policies and measures undertaken by the RBI for the regulat	ion						
of	oney & in turn controlling the money induced economic issues/irregularities in the economy.							
Unit	Content							
Unit	Voney Evolution							
•	1. Meaning, Definition, Stages of Evolution of Money							
	2. Nature and Functions of Money							
	3. Paper Currency: Concept, merits and demerits							
	4. Methods of Note Issue- Fixed Fiduciary Method, Proportionate Reserve Method, Minim	um						
	Reserve Method: Concept, merits & demerits	um						
	Commercial Banks:							
••	1. Meaning & Importance of Commercial Banks							
	2. Functions of Commercial Banks							
	<ol> <li>Credit Creation by Commercial Banks</li> </ol>							
	4. Principles of Sound Banking System							
	National Income & Economic Issues:							
	1. National Income: Meaning, Methods of Calculation							
	<ol> <li>Inflation- Meaning, Nature, Causes, Effects, Remedies, Types of inflation</li> </ol>							
	<ol> <li>Deflation - Meaning, Nature, Causes, Effects, Remedies</li> <li>Deflation - Meaning, Nature, Causes, Effects, Remedies</li> </ol>							
	4. Trade cycle: Concept, features, phases							
IV	RBI & Money Market							
	1. History, Meaning & Functions of Central Bank							
	2. Importance of Monetary Policy							
	3. Methods of Credit Control by Central Bank Money Market: Concept, Objectives, importance							
Books	ecommended:							
1. Monetary Economics, RR Paul, Kalyani Publishers, New Delhi.								
2. Money, Banking, Trade & Public Finance, M. V. Vaish, New Age International Pvt. Ltd, New Delhi.								
3. Money, Banking and International Trade, K.P.M. Sundaram , Sultan Chand, New Delhi.								
4.	Public Finance, Tyagi & Jai Prakash, Nath Publishers, Kolkata							
5.	5. Money and Financial System, P.K. Deshmukh, Phadke Prakashan, Kolhapur							
6.	6. Principles of Economics, H.L Ahuja, S Chand Publication, New Delhi							

	Operating System and Computer Hardware & Networking (BCCAC 2.3)						
Те	aching Hours: 4 Total Credits: 4 Total Marks: 80 Group: Core						
Objec	<b>Objectives:</b> Operating System is interface between the hardware's resources which include the processors,						
memo	bry, data storage and I/O devices. It understands basic concepts & structure of computer hardware &						
netwo	orking.						
Learn	ing Outcomes:						
Stude	nt would able to get the knowledge of Operating System and Computer Hardware &Network connected						
peripl	neral devices like printers, scanners and copiers or sharing of system and application software between						
multip	ple users.						
Unit	Content						
I	DOS & Windows						
	<b>DOS</b> – Introduction booting procedure, types of simple batch, multiprogramming, time sharing,						
	parallel system, distributed system, real time system, multiprocessing, DOS Commands: Internal &						
	External Commands.						
	Windows 11: - Introduction, Functions, Customize setting, use of control panel.						
П	Linux						
	Introduction to Linux, uses. File Handling Commands - ls, pwd, vim, cp, mv, rm, find; history; pattern;						
	text processing – cut, echo, wget, grep, wc, sort, linux, file permission, system administration –						
	chnode, chown, su, password, who; Process Management commands – ps, kill, Archival commands -						
	tarzip, unzip						
- 111	Computer Hardware						
	Introduction about Computer: Basics of computer, Organization of computer, Software and						
	hardware. Input/output devices: Motherboard, Types of Motherboards, SMPS, troubleshooting.						
	Inside the PC: Opening the PC and identification, Study of different blocks, Assembling and						
	dissembling.						
IV	Networking: Network basic and configuration: Setting IP addresses, Sharing files and folders.						
	Network troubleshooting, PING test, ipconfig etc., Types of servers: Introduction to server, Files						
	servers, Email Servers, Proxy servers etc. Network Security, Network topologies, Network Types: LAN,						
	WAN, MAN & PAN Networking Model: The OSI model, TCP/ IP Model. Introduction to various						
	networking devices: Routers, Switches, Modems, Hubs etc. Wired and Wireless technology, Basics of						
	Internet and Intranet						
Books Recommended:							
1.							
2.	The UNIX Programming Environment, Kernighan & Pike, PHI, London						
3.	Linux: The Complete Reference (Sixth Edition), Richard Petersen, McGraw Hill, New Delhi						
4.	The Complete Reference, PC Hardware- Craig Zacker John Rourke, McGraw Hill, New Delhi						
5.	<b>Cisco Networks,</b> Christopher Carthern, William Wilson, Noel Rivera, Richard Bedwell						
6.	Computer Networks, Fourth Edition, Andrew S., Tanebaum						

Programming in C++ (BCCAC 2.4)								
Теа	aching Hours: 4 Tota	l Credits: 4	Total Marks: 80	Group: Core				
Objec	tives: C++ improves C with o	bject-oriented fe	eatures. It is a general-pur	pose Programming language				
which	which is regarded as a middle-level language, as it comprises a combination of both high-level and low-level							
langua	age features.							
Learni	ing Outcomes:							
Stude	nt can get their interest in so	me areas where	C++ is popularly used i.e.	Operating Systems, Libraries,				
Graph	nics, Banking Applications, Data	abases, Embedde	ed Systems, Compilers					
Unit			Content					
I	2	-	-	ed, Procedural Programming,				
	-	-	_	OPs, Applications of OOPS,				
	-	-		en:- Keywords, Identifier and				
			· •	ion of variables, Operators in				
	C++, Scope resolution Operator, Memory Dereferencing Operator, Memory Management Operator,							
	•		tion Prototyping, Call by Re	ference, Return by reference,				
	Default Argument, Constant							
II	•			er Function, Access Specifier,				
	•			ber Functions:- Constructor,				
		Static Class Men	iber, Friend Function, Dyna	mic Memory Allocation, This				
	Pointer, Mutable							
111				ivation, Types of Base Class,				
				s object in single inheritance,				
	Container Classes, Virtual Base Class, Abstract Class, Constructor in derived class, Member Classes (Nesting of Classes), <b>Overloading function and Operator:</b> Function Overloading, Operator							
	Overloading, Rules of Overloading Operators, Overloading unary operator, Overloading Binary Operator, Manipulation of string using operator, Overloading Binary operator using Friend Function.							
				-				
IV				Early Binding, Late Binding, Abstract Class, Constructor				
				/irtual Base Class, <b>Templates</b>				
				-				
	and Exception Handling:- Function Template, Class Template, Exception Handling Mechanism Throw, Try, Catch, Multiple Catch Statement, File Operations:- Opening & Closing files, stream state, member							
	function, reading, writing a character from a file, Classes and File operations, Structure and file							
operation, Array of classes object and file operation, Random Access Files. Books Recommended:								
1. Object Oriented Programming, E. Balagurusamy, Tata McGraw Hill, New Delhi								
	<ol> <li>Let Us C++, - Yashwant Kanitkar, BPB Publications, New Delhi</li> </ol>							

Business Ethics and Corporate Culture (BCCASFC 2.0)								
Teaching Hours: 4		Total Credits: 4	Total Marks: 80	Group: Core Skill				
				foundation				
-	<b>Objectives:</b> The objective of this paper is to make the students more clear about the importance of ethics in							
busin	ess and practices of	good corporate governance	е.					
Learn	ing Outcomes:							
i)	To develop an unde	rstanding of ethical princip	les, values and ethical theo	pries				
ii)		with the concept of corpor						
iii)		_	s in business, LPG and globa					
iv)	Student will be able to apply theoretical knowledge in practical situation while dealing with ethical							
	concerns in various	aspects of business						
v)		ge about CSR along with its						
vi)		nd apply the concept of cor						
vii)	To develop an overa	all idea about ethical invest	ing, insider trading and wh	istle blowing.				
Unit			Content					
I	Introduction to Bu	usiness Ethics						
	Meaning & definit	ion of ethics, nature of eth	ics and sources of ethics, va	alues & types of values.				
	Meaning of busine	ess ethics, objectives of bus	iness ethics, need & impor	tance of business ethics.				
II	Ethics in Workplace: Introduction, factors affecting ethical behavior at work, ethical issues,							
	discrimination, harassment, importance of ethical behavior at workplace, guidelines for managing							
	ethics in the workplace.							
	Ethics in Marketing: Ethics & marketing, unethical issues in marketing.							
	Ethics in Accounting & Finance: Need for ethics in finance, fundamental principles relating to ethics,							
		ical b <mark>ehavior/ unethical pra</mark>	ictices in finance.					
- 111	Corporate Culture							
				te culture, factors affecting				
	corporate culture. Types of attitude, types of ego, how to deal with interpersonal conflict between							
	coworkers,							
	Relevant Case Stu							
IV			CSR, Need of CSR, forms &					
	<b>Corporate Governance:</b> Concept of CG, objectives of CG, features of good corporate governance,							
		d corporate governance, <mark>c</mark>	orporate governance and it	s obligations to stakeholders.				
Books Recommended:								
2.	Business Ethics, An Indian Perspective; A.C. Fernando, Pearson, Chennai							