MANJARA CHARHTABLE TRUST

Smt.Sushiladevi Deshmukh College of Arts "Science & Commerce (Affiliated to University of Mumbai) Sector-04,Airoli,Navi Mumbai-490708

																			FY.B.M.S Sem-1	Class
Name and Address of the Owner, where			Communication	Business			Business Statistics					Business Law		rinancial Accounts	Introduction of			Human Skills	Foundations Of	Course
To make students causable of understanding and studengs the wheath finding cliques classify the receipt the property of Indians	to understand the writing skills, report writing etc	Understand the theory of communication, its concepts, channels and objectives	The business ethics and the different social problems which surface out in the society are given, hands on experience, with thecase studies which help the students become the responsible entrens	Draft business correspondence like mails, letters	To analyzing the statistical tool in the business data.	to Analyse and contrast techniques and biases of quantitative methods within the context they are to be applied.	To understand statistical definition and concept and use them correctly	To familiarize the students with fundamental statistical tools which can help them in analyzing the business data	To know about Company Laws and IPR laws	Examine how businesses can be held liable for the actions of their employees	Understand the legal and economic structure of different forms of business organizations and their responsibilities as an employer	Identify the fundamental legal principles behind contractual agreements	Deal with Bank reconciliation statements.	To understand the preparation of Trial Balance and Final Accounts	Have a basic knowledge of Indian accounting standard	Understand the charges of depreciation on various assets.	Deal & negotiate with different kinds of human nature with greater awartness of the number behaviour	To learn group dynamics, organizational process and systems.	Understand the basic behaviour pattern of human, which is the most important resource of a business and to deal with them in an apt manner.	Outcomes



Business Mathematics	Business Communication-II	Principles of Marketing	industrial Law	Sem-II Business Environment	Business Economics-I Class Course	Foundation Course-I
To understand the basic concepts, functions and methods of mathematical techniques Demonstrate understanding of basic mathematics concepts. Demonstrate au understanding of the common body of knowledge in mathematics.	Have clear understanding of effective principles of effective presentation tools To get personally develop with the fundamentals of communication Get exposure to Group discussions and various types of mock interviews. To built up leadership capabilities and group dynamics Be able to analyze and understand summarization of content.	To understand the concept of Marketing and its scope Cruically Analyse the marketing theories & concepts and understand the relevance in perspective to current business scenario in India. To develop basic marketing skills among students in order to eater to the marketing industries. To understand the Segmentation, Targeting and Positioning in Marketing.	To understand the different labour laws which help in understanding the meaning of socialism/Socialist word imbibed in the constitution understand findustrial disputes act. Trade unions act.factories act To understand ESIC act. Provident fund act. To understand payment of wages act, payment of borus act	Analyze the environment of a business from the legal I & regulatory, macroeconomic, cultural, political, technological and natural perspectives. Understand business environment and its analysis Conduct an in-depth analysis of a specific component of the business environment and relate it to your own organization. Construct and present scenarios that synthesize business environment information. To get knowledge of Investment opportunities for indian Industry.	Demonstrate knowledge and proficiency in the overall foundations of an economy as it relates to supply and demand and its impact on the domestic and world economy. To apply the economic rules and principles in day to day daily life. Evaluate the effects of government interventions in individual markets and in the macro economy. Outcomes	Interdisciplinary, Varna, Caste, and Other Divisions, concept of human rights. Interdisciplinary, Varna, Caste, and Other Divisions, concept of human rights, Environment, and ancient scientific development with inderstanding to Indian constitution and important constitutional rights, Environment, and ancient scientific development with new science. To understand the general characteristics on Indian constitution and local self-government and its implication or every Indian citizen.



No.			Sem-III	Class		
Strategic Munagement	Accounting for Managerial Decisions Business Planning & Entrepreneurial Management	Foundation Course III(Environme ntal Management)	Information Technology in Business Management-1	Course	Principles of Management	Foundation Course-II
To know, understand, and spily the strategic management process to analyze and improve organizational performance. Understanding the impact of social, economic and political forces on the design, planning and implementation of organization's policy. Marketing group(OLD)	To gain in depth knowledge of the professional standards, principles and procedures regarding preparation of financial/Statement. To acquaint management learners with basic accounting fundamentals. To apply or analyse various techniques to various domains concerned with Accounting based applications and solutions. Understand areas of discipline of management & entrepreneurship Know functions of EDPs conducted by various Government unitated institutions.	Develop an activity using various strategies to control, reduce and mention all environmental problems that might arise as a result. Provide skills and an improved understanding of how firms and organisations work with sustainability issues such as environmental and To understand the links between human and natural systems.	Familiarise the basic concepts and its applications in managing business. Reproduce a working knowledge of concepts and terminology related to information technology in open source. The ability to work effectively in teams to accomplish organizational goals.	Outcome.	To understand the process of minagement Study of the basic managerial functions of planning organizing, staffing, directing and controlling resources to accomplish organizational goals To inculeate basic managerial skills Analyze the business decisions made by organizations retired.	Understand the meaning of stress & conflict, its effects on humans & how can we manage & overcome them

NC 1.S

2. Advertising To understand the construction of an effective advertising in contempo To understand the future and career to advertising	To understand and examine t	Have basic knowledge about the is & analysing consumer information	1. ConsumerBehaviour Understanding types of consumer behaviour	Develop an understanding ab		Manage businesses with different tools and techniques	Comprehend the process of	2. Corporate Finance Show case knowledge of reli		Ability to create cost accounting journal	Accounting		To acquaint the students abo		3.Organisational To gain knowledge of the le	the objective is to familiari	to minerstand the recumique of Recruitment		Rectroitment &	To introduce key concepts of Recruitment and Selection			io understand the future an	To understand the future and career in advertising	2 Advertising To understand the role of a To understand the future an
ertisement rary scenario	To understand and examine the growing importance of advertising .	Have basic knowledge about the assact & dimensions of consumer behaviour. Students are expected to develop the skill of understanding & analysing consumer information	ner behaviour	Develop an understanding about the consumer decision making process and its application to the marketing function of a firm	Marketing Group(NEW)	ent tools and techniques	Comprehend the process of internal & external testructuring of business	Show case knowledge of relating to legal, accounting, & practical implication of corporate restructuring.	accounting	ng journal	ning	Finance(OLD)	To acquaint the students about practical approaches to Motivation and Leadership & its application in the Indian context.	To study how leaders facilisate group development and problem solving and work through problems and issues as well as transcend	To gain knowledge of the leadership strategies for motivating people and changing organizations	the objective is to familiarize the students with concepts and principles, procedure of Recruitment and Selection in an organization.	of Recruitment.	Roanitment.	To familiarize the students with peinciples and procedure of Recruitment and Selection in an Organization	Recruitment and Selection	Human Resource Group(OLD)	sareti ili aliveriising		crtising in contemporary scenario	To understand the construction of an effective advertisement To understand the role of advertising it contemporary scenario To understand the fature and traces in advertisement



																			Sem-IV	SWRAS
I Integrated Marketing Communication & Advertising			IV(Ethics & Governance)	Foundation Course-			Quanty management	Production & Total			in Business Management-II	Information Technology		Methods	Business Research				Business Economies II	Strony
To equip the students with knowledge about the nature, purpose and complex construction in the planning and execution of aneffective Integrated Marketing Communication (IMC) program. To understand the various tools of IMC and the importance of coordinating them for an effective marketing communication program.	Marketing Group(OLD)	To work in teams, execute task assigned and perform on time lines set	Through case studies, students will develop a moral and ethical perspective of looking at business problems	To understand the need and importance of good governance.	To work in teams, execute task assigned and perform on time lines set	Understand quality improvement techniques and SQM	Implement the basic principles of TQM in manufacturing and service-based organization	demonstrate the tooks and techniques of quality management to manufacturing and services processes	Coun bests knowledge in total quality management relevant to both manufacturing and service industry including IT sector	To learn and understand relationship between database management and data warehouse approaches, the requirements andapplications of data warehouse.	Interpret how to use information technology to solve business problems.	Analyze how information technology impacts a firm	To learn the layout of Research Report	To empower and develop research methods and strategies in Research projects for enhanced Career Options.	Leurn formulation of Hypothesis	To apply a range of quantitative and / or qualitative research techniques to business and management problems / issues	to understand about the foreign exchange market	Understanding, through application of microcconomics, of the interaction of individuals and organizations in markets, and of the role of public policy in shaping those interactions	Understanding, through application of macroeconomics, of the functioning of market economics at regional, national, and global levels	Outcomes



2 Rural Marketing K	Communication & In-				2 Auditing 3		-	Name and Address of the Persons of	1.Strategic Cost			The second second	2 Conflict and		2	1 Training &				Sanovania pany		
To be able to strategize the entire marketing activities for a brand. Show the agriculture & rural marketing environment so that they understand consumer & marketing characteristics. Indeestand the emerging challenges at apcoming global economic scenario.	To equip the students with knowledge about the nature, purpose and complex construction in the planning and execution of ineffective integrated Marketing Communication (IMC) program. To understand the various tooks of IMC and the importance of coordinating them for an effective marketing communication program. To understand different elements of Marketing like advertising. PR. Internet marketing. Sales nonnecon-	Marketing Group(NEW)	Octope an audit plan	explain the meaning of concepts that are fundamental to auditing	To apply auditing knowledge to undertake auditing processes in a variety of professional settings.	Semonstrate the knowledge and abilities in formulating strategies and strategie plans	Indenstand how Benchmarking can be used to find better ways in having things done for the corporation	state the nature of strategy formulation, implementation and evaluation activities	Inderstand the concept of Strategic Management	Finance(OLD)	Develop and execute effective negotiation strategies and tactics for different scenarios	Apply different approaches and strategies in resolving conflicts at the workplace	Recognize the nature of conflict and its impact on interpersonal relationships and organizations.	This paper will attempt to orient the students to tudor themselves to meet the specific needs of the organizations in training and development activities.	Rapid progress in technology has changed not only in the physical facilities but also in the abstract qualities required of the men who are using them.	All organizations need to pay adequate attention to equip their employees.	It has been successful managerial performance depends on the individual's ability to observe, interpret the issues and modify his approach and better iour	Human Resource Group(OLD)	choorstand the emerging challenges in upooning global economic scenario	know the agriculture & rural marketing environment so that they understand consumer & marketing characteristics	To be able to strategize the entire marketing activities for a brand	The second section of bearing the advertising, PR, Interior marketing, Sake promotion.

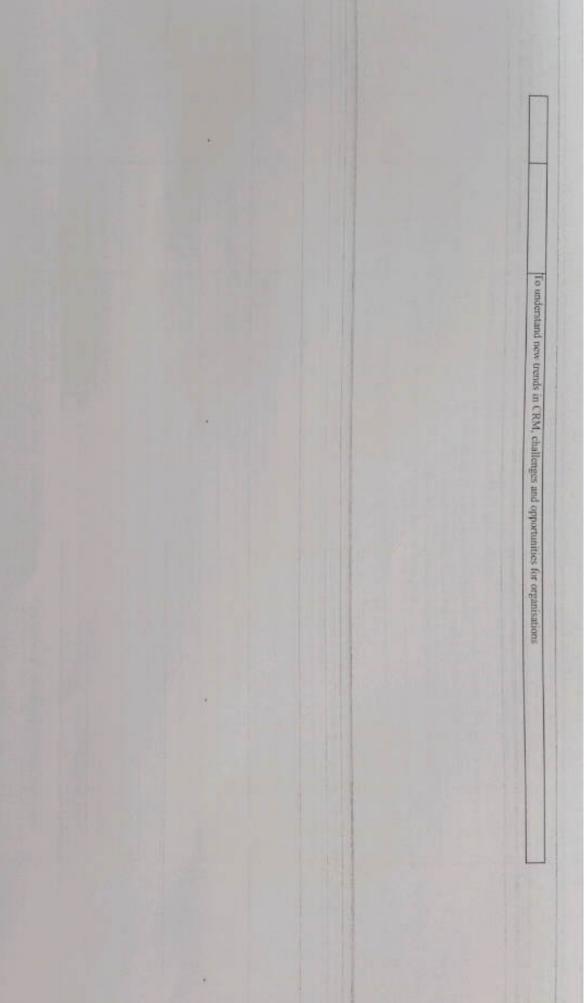


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4 Industrial Marketing	3.Sales & Distribution Management	2.E-Commerce & Digital Marketing	L.Service Marketing	Corporate Communications & Public Relations	Logistics & supply Chain Management	AND DESIGNATION OF THE PERSON
To understand concept of Industrial Marketing To learn how to implementation of Marketing	To understand role and scope of sales management and distribution management in a company. Understand distribution channel management with its effective distribution strategy and channel designing. To ability the working of Distribution Channel Management. Understand ethics and trends in sales and distribution management.	Understand the increasing significance of e-commerce and its application in various business sectors. To provide an insight on Digital Marketing activities on various Social Media platforms and its emerging significance in Business. Get an insight on digital marketing activities on various social media platforms and its emerging significance in business	Marketing Group(OLD) To Define and Examine service concepts used by service industries and by discussing the rationale for the application. To formulate effective service design for both consumer and business products & services.	Comprehend various aspects of corporate communication To understand importance of coordinating elements of corporate communication and public relations To understand various theories and practices associated with corporate communication and public relations Comprehend various aspects and theories of Public Relations Comprehend various aspects of corporate communication	Highlight the importance of all activities of the supply chain and an understanding of concepts like inbound and outbound logistics, offshore and inshore logistics. To understand inventory planning, transportation, warehousing, packaging & other functions in detail. Demonstrate a clear understanding of the key concepts applied in logistics and supply chain management.	Cuttomes



4 Risk Management Understand fundamental aspect Have a comprehensive overview is Service Marketing. To Define and Examine service To formulate effective service. 2 E-Commerce & Understand the mercasing significant Marketing.	and the second second	Contract of the last of the la			400		to otter drease tearning oppo	To provide the appropriate the	3 Direct Taxes To Define and Examine service	To Understand financial concept	2.Financial Accounting Understand the various dimen-	Ottomora Summer control or	Linvestment Analysis & Understanding investment and Basking portfolio Mgr		Ability to handle employee iss		4 Strategic Human Integrated perspective on role of HRM in modern business	Comprehend various aspects and theories of Public Relations Management	3. Finance for HR Comprehend various aspects of corporate communication		To study the aspects of conflic	A Performance Enhance their skills in setting Management key measures		Lindustrial Kelations Concept of liberalisation, priv			
To provide an integration Digital Marketing activities on various Social Media platforms and its emerging significance inBusiness.	mercasite senificance of e-commerce and its annication in various business sectors	To formulate effective service design for both consumer and business products & services.	To Define and Examine service concepts used by service industries and by discussing the rationale for the application.	Marketing Group(NEW)	Have a comprehensive overview of risk governance & assurance with respect to insurance sector	Understand fundamental aspects of risk management & controls	to offer driverse teaming opportunities to develop analytical and soft skills.	to provide the appropriate theories, models, and other tools to make better decisions in services	To Define and Examine service concepts used by service industries and by discussing the rationale for the application.		Understand the various dimensions of Compensation Management used by the companies		Batiking:	Finance .	Ability to handle employee issues and evaluate the new trends in HRM	Ability to plan human resources and implement techniques of Job design	FIRM in modern business	d theories of Public Relations	corporate communication	and negotiation process	To study the aspects of conflict management and how to handle them effectively	inhance their skills in setting clear expectations and objectively measuring individual performance using objectives and competencies as sex measures.	Distinguish the procedure concerning worker participation and participatory institutions and instruments of trade union representation	Concept of liberalisation, privatisation and globalisation and its impact on industrial relations in India.	Define labor relations, industrial relations systems, and participatory processes at work.	Human Resource Group	









	3.International Marketing			2. Retail Management			LBrand Management	(4		Indirect Taxes		Strategic Financial		Рюјест Мападетси		Services			4 Indian Ethos m
Understand International Marketing, its Advantages and Challenges. To understand the relevance of international marketing mix decisions and recent developments in Global Market	Get an insight on the dynamics of International Marketing Environment.	To understand merchandise management	Aware of the various legal & ethical aspects of retail management	Familiarize students with details retail managements concepts & operations	To understand the meaning and significance of Brand Management.	To provide the appropriate theories, models, and other tools to make better transling decisions.	To Define and Examine brand concepts used by Companies by discussing the rationale for the application,	2.Marketing Group	To provide the appropriate theories, models, and other tools to make better decisions in services	To Define and Examine service concepts used by service industries and by discussing the nitionale for the application.	Have a comprehensive overview of corporate governance and assurance with respect to finance sector.	Comprehend fundamental aspects of corporate finance management	Get a comprehensive overview of Project Management as a separate area of Management.	Students will be equipped with the fundamental aspects of various issues associated with Project Management	To give comprehensive overview of financial services	To familiarize with fundamental aspects of various issues associated with various financial services	Finance	A career in diverse sectors of the industry domestically and globally	Collaborate effectively with others for sharing and extending knowledge to complete complex HRD task

Foundation Course-II It	Quantitative Methods-II Pr	Behaviour II	Organisational in	B-0	Business		Financial Accounting-II fit	1	
It focus on understanding the concepts of liberalization, privatization and globalization and its requirement in the economy.	It helps student to understand Testing of Hypothesia and Calculation of Ratio. Proportion and percentage Application of statistics in Investments Understanding of decision making problems and formulation of the same as mathematical problem Ability to solve real decision making problems through application of graphical method or simplex method	To understand model relating to organizational behaviour. To Develop organizational culture and organizational development.	To Study organizational behaviour with respect to motivation in banking and insurance sector.	Indenstanding of group communication—interviews, meetings, conference	To Understand of presentation skills and making of power point presentation	To understand the Legal provisions and treatment with reference to Redemptioin of preference shares	It helps student to understanding valuation of goodwill and Bayback of equity shares and redemption of Preference shares Redemption of debentures	It provides Knowledge of Consumer Protection Act, 1986.	To understand natural justice, Constitution of India,



Management Indecisional backeting and detailed kinewiedge of Financial goal setting and Kole of Finance manager and And a also admix to a priovide an detailed kinewiedge of Financial goal setting and Kole of Financial and Kole of Financial goal setting and Kole of Financia management and the concept of Management Accounting. To understand the Concept of Management Accounting. Management To learn the estimation of working capital requirements in organizational Behavior. To provide basic knowledge of key approaches and Models relating to Organizational Behavior. To provide basic knowledge of key approaches and Models relating to Organizational Behavior. To understands ways of acting effectively and finding ways for controlling human Behavior. To apply different concepts of Information Technology, its support and role in Management, for managers. Understand about Bahafing terminology with respect to IT. To understand the concept of residential status of assesse. To understand the concept of residential status of assesse. To understand the concept of residential status of assesse. To understand the concept of residential status of assesse. Frouncial Markets. Knowledge and understanding of derivative markets.



Foundation Course- IV (Contempor ary Issues) Cost Accounting in Banking & Insurance Information Technology in Banking & Insurance- H Corporate Laws & Security Laws Security Laws Security Laws Course Course Course Course	Understand importance and types of business ethics	Business Ethics &	TY.B.B.I
oundation Course- IV(Contempor ary Issues) st Accounting in mking & Insurance formation chaology in nking & Insurance laws & curity Laws formation formation chaology in nking & Insurance in agement	Outcomes	Course	Class
	To explain the key ingredients to be a successful entrepreneur. To appreciate the value of entrepreneurship in duily life. It provides knowledge and understanding entrepreneur and business planning Knowledge and understand of	epreneur	
ourse- empor s) wrance- wrance-	To understand the basic concepts of macro economics The subject is covering the major aspects of macroeconomics and international theories. It helps students to understand the basic topics like inflation, monetary policy, Balance of Payment and foreign investment.	Business Economics-	
To understand health insurance process and various insurance plan Knowledge and understanding of life, health, home and motor insurance Knowledge and understanding the role of insurance in logistics and fire insurance with the syllabus aims to test the student's ability to understand the Conceptual frompart basic cost accounting knowledge as applicable to banking and insurance in identify the reasons for difference in profit shown by different set of accounting the completion of this course, the students should be able to understand and Express. To understand basic concepts of Email, Internet and websites, domains and see To recognize security aspects of IT in business, highlighting electronic transactions.	Gives an understanding to the students about the company law Understanding and overview of Company law and Study the regulatory framework of SEBI and Securities contract regulation Act, 1956 Knowledge of Depositories Act, 1996. To make the students understand about the basic laws governing capital markets which are helpful for	Corporate Laws & Security Laws	•0)
8		Information Technology in Banking & Insurance	
	The state of the s	Cost Accounting in Banking & Insurance	
The state of the s	To understand health insurance process and various insurance plan Knowledge and understanding of life, health, home and motor insurance Knowledge and understanding the role of insurance in logistics and fire insurance	Foundation Course- IV(Contempor ary Issues)	
Financial Management-il	Successful completion of Financial Management, the student will be able to: The subject provides: Understanding Working capital management and its components Knowledge and understanding of financial planning. Study of strategic financial management	Financial Management-II	SYBBI SEM-IV



Research Methodology	International Banking & Finance	Auditing-I	Financial Reporting & Analysis in Banking & Insurance	Strategic Management	Corporate
To understand research and its significance. The course is designed to inculcate the analytical abilities and research skills among the students. The course intends to give hands on experience and learning in Business Research.	International Banking The paper will discuss the concepts and broad activities of International Banking and & Finance Finance besides studying developments in India in this context	The syllabus aims to develop an understanding on the concept of Auditing and its principles. Audit planning. The understand, Principles of audit, Types of audit, Errors and Frauds To understand auditors & management responsibilities & objectives with respect to Vouching and Verification. The subject also gives in depth knowledge of Auditing techniques under in audit procedure.	To understand the statutory format of Banking final account and certain banking terms. To Prepare financial statements of banking and insurance company. Knowledge and understanding of cash flow in banking and insurance companies.	To develop an understanding of the general and competitive business environments. To enable to understand and resolve cases through strategic decision making.	To highlight the importance of commitment to values and ethical conduct of Business.



Marketing in Banking	Project Work in	Central Burking	Turnaround	Human Resources	Security Analysis &
and Insurance	Banking & Insurance		Munagemen	Management	Portfolio Management
To develop concepts in marketing To explain the scope of marketing management-analyzing opportunities, selecting turget segments, developing the	To equip project Students with the critical skills and knowledge required to effectively manage resource and To inculcate the element of research analysis and scientific temperament among learners. To Creme awareness among learners regarding methodology of formulation and preparation of the project work.	To understand the basic banking concepts Knowledge and understanding of central banking. Knowledge and understanding of role of RBI as central bank	To enable students to understand need for revival of sick and stressed business unit. To make students aware of the different turnaround strategies.	To understand evolution and significance of HRM To understand various processes involved in increasing the value of human assets. To understand ways for maintaining high employees morale and sound human relations by sustaining and improving the various conditions and facilities.	To understand the concept of portfolio management Knowledge and understanding and valuation of portfolio management. Knowledge and understanding of fundamental and technical analysis



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Foundation Course-I			Environm	CAILLIN	В			Math			Business		Con		Acco		EV B Com
	20	n = 1 = 1	Environmental Studies	Communications	Business			Mathematics & Statistical Techniques-		1	Business economics -	1	Commerce-I		Accountancy & Financial Management		10000
Students are able to describe the nature of inequality and its causes and consequences on the society.	island the religious. Inquistic and cultural diversity of the Indianasciana	Understands the seriousness behind conservation of resources and concepts related to sustainable development vis-a-vis improvement of quality of life. Learners develops responsible environmental behavior and informed decision making and bring in changes in the attitude towards environment.	It will help to understand the complexities of our natural environment and relations between different components of environment.	To understand and appropriately apply modes of expression, i.e., descriptive, expositive, narrative, scientific, and self-expressive, in written, visual, and oral exammunication	To participate effectively in groups with emphasis on listening, critical and reflective thinking, and responding. After successful completion of the course the learner should be able to enhance his Listening. Speaking. Reading and Writing skills to meet the challenges of the world.	Students will be able to calculate probability of basic real life problems	Students will know how to determine optimal solution graphically	Students will be able to understand concept of Shares and Mutual fund, able to determine profit, rate of interest etc for the investment.	Students are able to appreciate the impact various output scale and input combination decisions made by the individual firms.	Students are introduced to basic tools for economic analysis and know how they operate in case of an individual economic unit	To understand meaning and scope of Business Economics, basic tools, use of marginal decision making, market equilibrium.	entrepreneurship competencies and discover about Entrepreneur concept.	Gain knowledge of Business planning process and aspects of feasibility and project report	Employed the process process regularly apparatonal Accounting	Students will get an insight into the AS-1, 2 and 9. Students will be able to solve practical problems on inventory valuation by FIFO and Weighted Average Method. Students will be able to solve practical problems cannot be able to solve practical problems.	needs for various professional courses like CA, ICWA, CS, MBA etc.	Outcome

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THE TOTAL CO.	Business Law-1 Understand the differ Students are introduced in India	Foundation Course-III Students are introduce	Applied Component: To understand struct Obtain knowledge at	Business EconomicsIII Students are able to explain use of Keynes After studying this unit, students are able to make and inflation	Commerce-III Get an insight into p	Understand basic file	Financial Accounting& Auditag-V (management acc.) To Present acc in for to Identify problems assoc making. To belp management to Learns the application o performance evaluation
	Understand the different business related laws and application thereto. Students are introduced to basic tools for understanding law and basic concepts of Contract Law. Students are able to analyse detailed provisions of how to make and terminate a contract legally in India.	Students are introduced to basic reasons of Human RightViolations and their resistance, legally and constitutionally. Students are able to analyse situations which bring forth disasters and how to effectively manage them	To understand structure and working of advertising agency Get an understanding of advertising as a tool of integrated Marketing Communication. Obtain knowledge about economic andsocial impact of advertising and thereby ethical aspects in advertising	To understand meaning, scope and importance of macro economics, measurement of national income, trade cycle. Students are able to explain use of Keynesian theory to provide a solution to the macroeconomic problems. After studying this unit, students are able to understand development of Post-Keynesian economics. To understand money, prices and inflation.	Concessand basic fundamentals of management concept Get an insight into principles practices and techniques of company management Learn the basics of management functions applicable for efficience management of acompany		To Present a c in for to management for financial analysts identify problems associated with relying on financial accounting information for various managerial decision making. To help management to perform all its functions including organising, staffing directly & controlling. Learns the application of management accounting tools for pricing, budgetary control, cost allocation and performance evaluation.



. Business Economics-	SEM-v Commerce-V	Class Course	Business Law-II	Foundation C	Applied Component : Advertising-II	Business Economic-	Commerce-IV	Financial Accounting & Auditing-VI	SEM-IV Financial Managen
reloval - val	Understand basic concepts related to marketing Students will get the insight of overheads, cost sheet and reconciliation of Profits as per financial accounts and cost accounts. Learn about the psyche of consumer behavior so as to handle them effectively.	Outcome (student will be able to)	W-II Understand the different laws pertaining to company difference between company act 1958 and Students are able to understand the significance and basic concept of company form of organizations Students are capable of evaluating their relative meritsand demerits	Foundation Course-IV Students are introduced to basic Human Rights Protection available to a newage citizens. Students are expected to develop a sophisticated approach towards environment and concern for nature.	To understand old and new age advertising media and media research onent: Get an understanding of advertising as a tool of Integrated Marketing Communication. -II Obtain knowledge about economic and social impact of advertising and thereby ethical aspects in advertising	To understand scope of public finance major fiscal functions, principle of maximum social advantage. To Students are expected to gain insight in understanding basic concepts of public finance. Students are expected to understand basic concepts about the taxation, tax burden and its effects.	Understand concept of production management & quality management Get an insight into principles practices and techniques of company management Learn the basics of management functions applicable for effective management of acompany	To understand procedure & practices of auditing unting. Discuss the need for an independent or external auditor. VI Understands the financial audit process beginning with accepting client's till communication of result to the clients.	Accountancy & To covers all relevant level of knowledge expected for undergraduate students and at the same time meeting the IV Students will get the insight of types of companies, issue and forfeiture of shares and debentures. Students will get the insight of Redemption of Preference shares and Debentures.

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Applied Component I Direct & Indirect Taxation Paper 1	Applied Component: I. Export Marketing Pager I	Financial Accounting To & Audriting-VIII St	Financial Accounting& To Auditing-VII Si
To make the students understand the basic concepts, definitions and terms related to direct taxastion. Define the procedure of direct tax assessment. Able to file IT return on individual basis.	Get an insight into the field of global and Indian export marketing practices Learn about the procedural formalities required for undertaking export activity in the country	To understand the concepts of cost accounting. Students will get the insight of the concepts of cost accountancy, material cost and labour cost. Students will be able to understand the provisions and to solve practical problems related to internal reconstruction.	To covers all relevant level of knowledge expected for undergraduate students and at the same time meeting the Students will be able to solve practical problems on Final Accounts of Companies. Students will be able to understand the provisions and to solve practical problems related to internal reconstruction.

Financial Accounting Students will be able to solve practical problems based on liquidation of company & Auditing-IX To covers all relevant level of knowledge expected for undergraduate students and at the same time meeting the Students will be able to prepare statement of underwriter's liability		Financial Accounting& Students will get the insight of cost recording systems. Auditing-X Students will get the in sight of cost recording and process costing.	
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Mathematics-I	Physics Practical	Physics-II		Physics-I	Chemistry Practical	Chemistry -II	Chemistry-I
Understanding of mathematical concept like function, limit, continuity and sequences. Students demonstrate knowledge of both the formal definition and the graphical interpretation of continuity of a function. Ability to appreciate real world applications which uses these concepts. To perform and, formulate a problem through mathematical modeling and simulation.	To demonstrate their practical skills and understanding the formula. To understand the use of apparatus and their use without fear. Understanding the concept of correlate their physics theory concepts through practical. Understand the concepts of errors and their estimation.	To demonstrate the type isotopes and their applications Demonstrate and understand the quantum mechanical concepts. Will be able to know different types of nuclear reactions with examples.	Apply the laws of thermodynamics to formulate the relations necessary to analyze a thermodynamic process. To demonstrate quantitative problem solving skills in all the topics covered	Understand Newton's laws and apply them in calculations of the motion of simple Understand Newton's laws and apply them in calculations of the motion of simple systems. Use the free body diagrams to analyze the forces on the object. Understand the concepts of friction and the concepts of elasticity, fluid mechanics and be able to perform calculations using them. Understand the concepts of lens system and interference.	To understand paper chromatography for separation of mixtures The concept of calculation of normality of solutions by different titration method. To understand the calculation of chemical kinetics and it effects.	Any order and molecularity of reaction and methods to determine order of chemical reaction To understand viscosity, surface tension and refractive index and liquid crystals. The properties of main group elements and study acid min, global warming	The chemical thermodynamics related to temperature and systems involved in it. To understand the concept of chemical calculations to prepared the chemical solutions. Understand the periodic table to know about the properties and uses of elements. To understand the concept of IUPAC nomeaclature of organic compounds and hybridisation.



sundation Course-I	Same special	H.C. williamental	Mathematica
Foundation Course-I The programme provides the student with the capacity to identify issues and problems relating to the realization of Indian Society	To construct Pascal's triangle and find the hinomial coefficients.	To construct rigorous mathematical proofs of basic results and decorens based on divisibility of integers.	Describe fundamental properties of integers and understand the divisibility property of integers.



Mai	Ма		Pho			Cher	Q	FYBSc Sem-II C
Mathematics-II	Mathematics-I	Foundation Course-II	Physics Practical	Physics-II	Physics-I	Chemistry Practical	Chemistry -II	Chemistry-l
Interpret existence and uniqueness of solutions geometrically. Understand a matrix and a matrix representation of a given system of linear equations. Understand a vector space and construct proofs for the basic properties of a vector space.	Understanding of mathematical concept like series, limit, derivative: To appreciate real world applications which uses these concepts Understanding skill to formulate a problem through Mathematical modeling and simulation	The programme provides the student with the capacity to identify issues and problems relating to the realization of Indian society	To understand and practice the skills while doing physics practical. To understand the use of apparatus and their use without fear. To correlate their physics theory concepts through practical. Understand the concepts of errors and their estimation.	To study the AC circuit containing pure L.C.R and series LR, CR and LCR. Students problem solving using network theorems like Theyenin, Norton To study the parameters of Electric field and work and energy in electrostatics.	To develop analytical abilities towards real world problems Understanding familiarize with current and recent scientific and technological developments To earich knowledge through problem solving, hands on activities, study visits, projects etc.	To understand characterisation of organic compounds and features To understand the characterisation of elements from given maxture by semi micro analysis. To understand the Ph of the given solution, understand the absorption of the given solution at purticular wavelength by colorimetric method. Demonstrate the titration of commercial sample, understand the chemical kinetics of the given solution.	To understand electrolytes, ionisation constant of acid bases and ionic product of water, types of buffers, buffer action and buffer capacity. Understand the concept of absorption, emission, scattering, fluorescence, electronic, vibrational and rotational transitions. Understand the types of cycloalkanes and their relative stability, arcmunicity, anti-grounding and electrophilic substitution reactions.	The concept of expanic reactions of alkanes, alkenes, alkenes. To understand the concept of chemical kinetics, related reactions and temperature which effect on it. Understand the gaseous state and liquid state with its examples.



							Class SY.B.Sc Fou sem-III
Chemistry-III	Chemistry-II	Chemistry-I	Physics Practical	Physics-III	Physics-II	Physics.1	Course Foundation Course-III
Students understand the purpose of analysis and classical non-classical methods of analysis. Understand the errors of types and techniques of sampling of solids, liquids and gases. Understand the errors of the purpose of analysis and their types.	To understand concept of colligative properties To understand kinetic mechanism through derivation, sums solving and experimental methods To learn basic concepts of periodic table and vast study of p-block elements To learn nomenclature of various carbonyl compounds and mechanisms involved in various reactions	To describe terms involved in the study of conductivity and chemical bonding. To able to explain the concepts of Free energy, Covalent bonding and reactivity in organic compounds. Shall be able to demonstrate the formation of hybrid orbitals and interconversion of organic functional groups.	To understand & practice the skills while performing experiments. To understand the use of appearatus and their use without fear & hesitation. Demonstrate Correlate the physics theory concepts to practical application.	Awareness of a brief history of physics, giving emphasis on the birth of quantum theory using black body radiation, photoelectric. X rays and De Students will be exposed to contextual real life situations. Students play the role of Physics in "interdisciplinary areas related to materials and Acoustics etc.	Understand the basic concepts of oscillators and be able to perform To understand the basic concepts of mathematical physics and their To understand the concept of basic laws of electrodynamics and be able to perform calculations using them. Demonstrate quantitative problem solving skill in all the topics covered.	Understand the corroepts of mechanics & properties of matter & to apply them to problems. To dearn about situations in low temperature. To dearnonstrate tentative problem solving skills in all above areas.	Understanding the constitutional rights/legal rights of the vulnerable people To understand the different types of disaster and their mitigation, efforts of the government in that respect To understand the history of science and technology also to understand the communication skills, soft skills required for in an organization.



Maths-III Discrete To	Maths-II Algebra-III Un	Maths-I Calculus-III Con	Chemistry Practical Tot
Understanding of the permutations as bijections and related concepts To understanding of the recurrence relation and the ability to solve a recurrence relation To inderstanding the concepts of counting and applications of recurrence relation to stirling numbers, pigeonhole principle to geometry	To understanding of the concepts of linear transformations and matrices and relation between the two Ability of the dimension of solution spaces of system of equations through rank of matrices and row spaces, column spaces Understanding of the applications of determinant as area and volume To understanding of the concepts of inner product and orthogonalization of vectors and orthogonal complements of subspaces	Understanding of the concepts of several variables like timer product, norm function, scalar fields, vector fields Concept of geometrical interpretation of directional derivatives and total derivative of functions of several variable Ability to compute directional derivatives and partial derivatives of scalar fields:	To Practice the skills of Organic preparation To understand the concept of recrystallization and study physical constants To demonstrate the learner capable of analysing and interpreting results of the experiments he conducted or performed To transfer the skill of drawing graph and interpreting result using graph.



	Chemistry-III	Chemistry-II	Chemistry-l	Physics Practical	Physics-III	Physics-II	Physics-I	e Foundation Course	Class Course
To make the learner capable of analysing and interpreting results of the experiments he conducts or performs To make students get hands on experience on various instruments like potentiometer, pH meter, spectrophotometer etc. To transfer the skill of drawing graph and interpreting result using graph.	To Understand different types of separation methods Understand the basic instrumentation, working and applications of electrophoresis Students understand the principle of potentiometry, the role of reference and indicator electrode Understand the principle of pH metry, conductometry, working of combined glass electrode Ability to the Statistical Treatment of analytical data	To learn the concept of crystallography, study laws involved and different crystal studies. To understand the concept of catalytic processes. To learn the concept of Latimer equation and predominance diagrams for various ions at different range of acidity and basicity and To study nomenclature and reaction mechanisms of nitrogen containing compounds.	Learning the Electrochemical conventions. Types of electrodes and Electrochemical series. Numericals on EMF of cell and its thermodynamic parameters. Understanding the Phase diagrams of one component and two component system. Studying the reactivity and reactions of Carboxylic acids and their derivatives, Sulphonic acids.	To understand and practice the skills while performing experiments To understand the use of apparatus and their use without fear and hesitations Correlate their physics theory concepts to practical applications	Understand the concepts of mechanics and properties of matter and to apply them to problems Comprehend the busic concepts of Thermodynamics and its application in physical situations Learn about situations in low temperature in physics	Understand the postulates of quantum mechanics and to understand its Demonstrate quantitative problem solving skills in all the topics covered.	Understand the diffraction and polarization processes and applications of them in physical situations. Students understand the working of digital circuits. Use IC 555 time for various timing applications. Demonstrate quantitative problem solving skills in all the topics covered.	Understanding the constitutional rights/legal rights of the vulnerable people, the different types of disaster and their mitigation, efforts	Outcomes



Chemistry Practical	Heavy & Fine Chemicals as applied Component	Chemistry-IV	Chemistry-III	Chemsuy-II	Chemistry-I	Course	Maths-III Ordinary Differential Equations	Maths-II Algebra-IV	Maths 4 Calculus-IV	
To make the learner capable of analysing and interpreting results of the experiments be conducted or performed. To make students get hands on experience on various Device instruments like Viscometer patentiometer, plf meter, Flame Plansauce. To able Separate the organic binary Solid movium.	Understand the economic aspects of chemical manufacturing processes To understand Perfumes, sweeteners, Flavours and synthesis of variilitin, countains, Sacetharin To Performed industrial solvents, concept of drugs and synthesis of various drugs Understand the concept of flavor aromatics, understand the pumps and structures and uses	Understand the concept of Quality, Quality Control, Quality Assurance. Learning the interconversion of Chemical units, Techniques and types of Chemical sampling. Understanding types and theory of Reday, and complexometric titration and indicators used in such nitration. Understanding instrument used for Atomic spectroscopy, Molecular Spectroscopy and Study of turbed solutions. Learning of Factors affecting Solvent extraction, Instrumentation and Principle of HPLC and HPTLC.	To understand the electronic transition state, cycloaddinon, and Norrish II cleavages. Understand the impact nomenclature, understand the different types of agrochemicals. To understand the concept of different types beterocyclic reactions.	To understand the symmetry of molecules and their structure to property relation To be able to understand the structure of solids and their properties To Study properties, separation and uses of Lanthamdes To understand the application of VSLPR to selective p block elements	To understand the concepts of different types of molecular specificacpy and terms involved in it To enceptualize various collagative properties and able to relate it with thermodynamic derivation To understand collision theory involved in chemical kinetics To be able to understand basic ecocepts of nuclear chemical reactors and its fission and fusion process To make them relate their theoretical part with numericals solving	Outcomes	Understanding of the differential equations and its solutions Ability to solve first order differential equations through various methods Ability to solve system of linear differential equations and integration derevatives Understanding of the applications of first order differential equations to orthogonal trajectories, population and current problem	Understanding of the abstract structure groups and subgroups and its concepts with examples. Understanding of the cyclic groups and abelian groups semorphism and the energy of cosets.	To understanding of the concepts of integration as approximation of area. Understanding of the applications of integration in Beta, Gamma functions and area, volume, curve length problems. Ability to compute area, volume and length of geometrical figures.	To be able to analyse impurities and interpret errors and deviations volumentically and instrumentally

To make the fearner canable of analysiss as	Understand the need and scope of small scale industry. SSI rules and regulations of Feavy & Fine chemicals: Ability to understand the separation of volatile liquid and non-volatile liquid by condensation method.	Understanding the principle, instrumentation Learning the separation techniques using G Study of Food products and adulterants in the Studying the Types, Instrumentation and ap	Chemistry-III Understand countyst and reagents used in reduction and oxidation reactions Understand the DNA and RNA structures; classification of nucleic solds.	To understand the theories of coordination compounds and interpret the spectra To understand the fact of inorganic species in biological system Chemistry-II To be able to elaborate the reactions and structures of organometalite and coordin Understand the metallurgical operations for metal extractions	
To make the learner capable of analysing and interpreting results of the experiments be conducted or performed.	Understand the need and scope of small scale industry, SSI roles and regulations, role of and D technology, research strategies and patents. Students understand the separation of soaps, concept of oils and fats and detergents. Ability to understand the separation of volatile liquid and non-volatile liquid by condensation method.	Understanding the principle, instrumentation and application of polarography and Amperometric titration. Learning the separation techniques using Gas chromatography and lon exchange chromatography. Study of Food products and adulterants in Milk, Honey, Tea and Coffee. Study of Cosmetic products Face powder, lipstick, Devidorants and Studying the Types, Instrumentation and application of various thermal methods. Introduction and need of Analytical method Validation.	ts preparation and uses. uction and excidation reactions tassification of nucleic solds.	To understand the theories of coordination compounds and interpret the spectra. To understand the fact of inorganic species in biological system. To be able to elaborate the reactions and structures of organometallic and coordination compounds. Understand the metallurgical operations for metal extractions.	



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		*/			Sem-I	Class
Communication skills	Discrete Mathematics	DBMS	Operating system	Digital Electronics	Imperative Programming	Course
To work effectively as a part of a team to achieve a common stated goal. To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct. To communicate effectively with a range of audiences both technical and non-technical. To develop an applitude to engage in continuing professional development.	Understanding the basics of set theory and ability to convert logical statements as mathematical statements. Understanding different methods of proofs and ability to prove logical statements. Understanding the basics of relations and functions and solving recurrence relation. Knowledge of theory of graphs and trees. Understanding the counting and probability theory and ability to use different counting principles to solve a practical problem.	Students will be able to comprehend and evaluate the role of database management systems in information technology. Design and implement properly structured databases that match the stundards based under realistic constraints and conditions. To comprehend how its use Structured Query Language (SQL) to define and manipulate database information. Explain the principle of transaction management design. Able to work in a group on the design, and implementation of a database system project.	To provide a understanding of operating system, its structures and functioning Develop and master understanding of algorithms used by operating systems for various purposes. Understand Virtualization concept in depth. Understand and analyse theory and implementation of processes, resource control (concurrency etc.), physical and virtual	Gain knowledge between different types of number systems, and their conversions. Design various hope gates and simplify Boolean equations. Design various flip flops, shift registers and determining outputs, Design different types of counters.	Understands the basic structure, operators and statements of C language. Define decision making statements and solve problems based on it. Learns that it serves as a basic language of all advanced computer languages. Learn about pointers that deals directly with memory	Understanding Algorithms and basic programming look



Statistical Methods	Girenarian &		Web Programming	Microprocessor Architecture	Object Oriented Programming
Solve systems of linear algebraic equations using Gauss elimination Apply various interpolation methods and finite difference concepts Understand numerical techniques to find the roots of non-linear equations and solution of system of linear equations Understand the difference operators and the use of interpolation Understand numerical differentiation and integration and minutenest additions of eachings and	Implement basic and complex functionalities of Javanocript in a web page Employ PHP Scripts to execute dynamic tasks in a web page Perform various database tasks using PHP. Ability to flowchart and pseudocode logic for problem solving Ability to flowchart and pseudocode logic for problem solving	Learn and design Client side validation using scripting languages Acquire knowledge about Scripting libraries Analyze working of Internet Gain an insight into designing web pages using CSS Use different ways of styling web pages using CSS	Acquire knowledge about functionalities of World Wide Web and E-Mail Apply a structured approach to identifying needs, interests, and functionality of a website. Write well-structured, easily maintained, standards-compliant, accessable. HTML code, CSS code to present hard pages in different ways. Explore Markup languages features and create interactive web pages using them. Design dynamic websites that meet specified needs and interests.	Construction of a maintainable assembly language program for an algorithm. To introduce students with the architecture and operation of typical microprocessors. To provide strong foundation for designing real world applications using microprocessors. To understand the basic concept of Micro Computer Systems. To develop background knowledge in 8085 Micro Computer Systems. To write Assembly language Programs of 8085. To understand the peripheral devices and interfacing to 8051 Micro. Controller and design aspects of Micro Controller.	Understand the features of C++ supporting object oriented programming language Understand the relative merits of C++ as an object oriented programming language Understand how to produce object-oriented software using C++ Understand how to apply the major object-oriented concepts to implement object oriented programs in C++ cocapsulation. Understand advanced features of C++ specifically stream I/O, templates and operator overloading. Be able to explain the difference between object oriented programming and procedural program using more advanced C++ features such as composition of objects, operator overloads, dynamic memory allocation, inheritance and polymorphism, file I/O, exception handling, etc Be able to build C++ classes using appropriate encapsulation and design principles. Be able to apply object oriented or non-object oriented techniques to solve

					-		
							Green Computing
Know how information system can stay Green Information system	Understand the concept of recycling.	Learn about how the way of work is changing.	Understand the how power usage can be minimized in Technology	Know different standards for Green IT	Understand the concept of Green IT and problems related to it	Sustainable IT helps in the preservation and effective utilization of natural resources	Green Computing Describe green IT in relation to technology is ensityeffective due to less energy usage & cooling requirements.

		SYBSo (LT) Sem-III
Computer Network	Data Structures	Python Programing
Understand about how data communication and networking Understand about how data exactly data flows from source to the destination. Understand about protocols which help to flow data globally Gain knowledge about Digital and analog transmission Gain knowledge about connecting devices wirtually. Identify various data communication standards, topologies and terminologies Describe how signals are used to transfer data and communication aspects between nodes Use different application layer protocols	To impart the basic concepts of data structures and algorithms To understand concepts about searching and sorting techniques To Understand basic concepts about stacks queues lists free and graphs To understanding about writing adjorithms and step by step approach in solving problems with the help of fundamental data latently and distinguish data structure classification, data types, their complexities implement trees, various hashing techniques and graph for various applications Compare various sorting and searching techniques	Interpret the fundamental Python syntax and semantics and he fluent in the use of Python control flow statements. Identify the commonly used operations involving file systems and regular expressions. Determine the methods to create and manipulate Python programs by officing the data structures like lists, dictionaries, tuples proficiency in the handling of strings and functions. Aware of the variables, expressions, looping and conditions used in Python programming implement functions, strings, lists, tuples and directories. Create GUI forms and add widgets. Use MySQL to store data Apply the programming skillset learnt here into various domains by having advance programming skillset of Python and usage of libitaries.

Database Management

	The state of the s						Applied Mainemane			
Apply integration methods to calculate the areas and volumes of solid Evaluate the Beta, Gamma, Differentiation Under integral sign and error functions	Evaluate the multiple integrals in Cartesian, Polar coordinates, change the order of the	Find the Laplace transform of a function and leverse Laplace transform of a function using definition also solve ordinary differential equations using Laplace transform	Familiar with the various farms and operations of a complex number	Understanding the concept of multiple integrals and ability to solve area and volume problems	Understanding Laplace transform and ability to compute Laplace transforms	Understanding differential equations and different methods to solve the same and ability to solve differential equations	Understanding the basic concepts of complex numbers and standard complex functions	Understanding the different operations on matrices and their application in linear algebra	Understand and analyse theory and implementation of processes, resource control (concurrency etc.), physical and virtual	Develop and master understanding of algorithms used by operating systems for various purposes. Understand Variablization consept in depth.

Softw	Con	9	SYBSc(IT) Sem-IV	Class
Software Engineering	Computer Oriented Statistical Techniques	Introduction to Embedded Systems	Core Java	Course
Understand the different phases in software development. Understand project management and risk management process Able to understand software testing methods	Understanding the basic computational concepts of statistics Understanding the theory of probability and ability to solve practical problems by rigorous application of theory Understanding of sampling and estimation and various way to test a hypothesis Understanding the concept of curve fitting and deriving a relation between two variables To calculate and apply measures of central understand measures of dispersion— grouped and ungrouped data cases To calculate the moments, skewness and kurtosis by various methods. How to apply discrete and continuous probability distributions to various business problems. Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases. Understand the concept of p-values Apply sample linear regression and correlation model to real life examples.	Knowledge and implementation of AWT package Knowledge about hardware and software requirements. Understand about the real time working of products like washing machine, owen etc. Real time simulation, design and development of embedded products. Differentiate herwien general purpose and embedded systems. Discuss the characteristics and quality attributes of embedded systems. Use different types of sensors for appropriately. Dusign and develop embedded systems.	Object oriented programming concepts using Java. Knowledge of injur, its processing and getting suitable output. Understand, design, implement and evaluate classes and appliets.	Outromes

2.18		9. FIC	Computer Graphics & U	
science to graphics The course further allows students to develop programming skills in computer graphics through programming assignments.	To train the students to acquire skills and mastery in the use of different spitware producing graphics and animation. The course introduces the basic concepts of computer graphics. It provides the necessary theoretical background and demonstrates the application of computer	Understand Various Techniques for efficient Visible-Surface Algorithms To train the students to acquire skills in generating marketable computer graphics and animated pictures, especially in the area of advertisements.	Understand the basic concepts (input Dexices and Culput Dexices) or company Understand various algorithms to draw line. Circle and Ellipse and Clipping algorithms. Understand 2 dimensional Transformation and 3 dimensional transformations.	Create software using different software development models

Explore advanced topic of Java programming for solving problems. Understand the concepts related to Java Enterprise Edition, Servers and Containers.	Enterprise Java	
	Programing	
Proficiently develop ASP NET web applications using C# Use ADO NET for data persistence in a web application.	Advanced Web	18
Upon completion of this course, students should have a good working knowledge of Linux, from both a graphical and Student shall be able to progress as a Developer or Linux System Administrator using the acquired skill set	Linux Administration	
Learners are able to design & develop to 1 Devices.		
	Internet of Things	TYBSc(LT) Scm-V
	Course	Cluss

2		Cyber Laws		Secur	Busit	Soft	Inform	Sem-VI	Class
Project Report		Laws		Security in Computing	Business Intelligence	Software Quality Assurance	Geographic Information System		Course
To give a practical exposure to the process of software development life cycle. To develop a quality software solution by following the software engineering principles and practices. Students are also encouraged to take up a application oriented work and produce results based on its	Understand the sections of The Indian Evidence Act of 1872 vs. Information Technology Act, 2000 and Protection of Cyber Consumers in India.	Understand the meaning of Battling Cyber Squatters and Copyright efforcation in the Cyber works. Explore and understand E-Commerce Taxation: Real Problems in the Virtual World and Digital Signature, Certifying Authorities and E-Governance.	Understand Sections of IT ACT 2000. Understand the Cyber Crime and Criminal Justice: Penalities, Adjudication and Appeals Under the IT Act, 2000. Understand Centracts in the Infotech World and Jurisdiction in the Cyber World.	Analyze and resolve security issues in networks and computer systems to secure an H infrastructure. Design, develop, test and evaluate secure software. Develop policies and procedures to manage enterprise security risks. Evaluate and communicate the human role in security systems with an emphasis on ethics, social engineering. Interpret and forenstrally investigate security incidents.	Introduction to Business intelligence and learn the concepts of Big Data Understood the process of implementing the Big data Learn BI concepts, methodologies & BI framework Knows about Hadoop and Core of Hadoop with Hadoop lower levels Learns the Components of Hadoop and Develops Application in Hadoop	Critically evaluate alternative standards, models and techniques aimed at achieving quality assurance in a variety of software Propose and defend innovative solutions to software quality assurance and measurement Problems in the centext of various software development environments Princially evaluate leading edge approaches in software development and attendant quality assurance methodologies,	Learner will learn how to manage and process data in GIS and capacity to integrate information from different sources. Learner will be able to understand complex analysis queries involving geographical reference data to generate newinformation learner will be able to understand complex analysis queries involving geographical reference data to generate newinformation learner will compute an image visually and digitally with digital image processing techniques.	Learner will be able to create Vector and Raster data.	Learner will understand fundamental of GIS.

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						FYBS.c (CS) Sem-l
Ditabase Systems			Linux	Free & Open Source Software	Programming with Python-I	Computer Organization & Design
Students should be able to design the database schemic with the use of appropriate data types for storage of data in database. Students should be able to create, manipulate, query and backup the databases. To make students aware fundamentals of database system.	Students should be able to evaluate business information problem and find the requirements of a problem in terms of data	To learn use of various shell communds with regular expressions. To set Linux Environment variables and learn setting file permissions to maintain Linux. Recently implementation. To learn various editors available in Linux OS. To learn shell scripting. To learn installation of compilers and programming using C and Python languages on Linux.	Upon completion of this course, students should have a good working knowledge of Linux, from both a graphical and command line perspective, allowing them to easily use any Linux distribution. This course shall help student to learn advanced subjects in computer science practically. Student shall be able to progress as a Developer or Linux System Administrator using the acquired skill set.	Students should have a good working knowledge of Open Source ecosystem, its use, impact and importunce. This course shall help student to learn Open Source methodologies, case studies with real life examples. Be able to utilize open source software products and development tools currently available on the market. Understand the difference between open-source software and commercial software. Understand open-source philosophy, methodology and ecosystem. Awareness with Open-Source Technologies.	Students should be able to understand the concepts of programming before actually starting to write programs. Students should be made familiar about the basic constructs of programming such as data, operations, conditions, loops, Students should be able to apply the problem solving skills using systematically simple language(Python 3 x or higher). To learn how to design and program Python applications. To learn about inbuilt input/output operations statements in Python. To learn about inbuilt input/output operations and compound data types in Python.	To learn about how computer systems work and underlying principles To understand the basics of digital electronics needed for computers To understand the basics of instruction set architecture for reduced and complex instruction sets To understand the basics of processor structure and operation. To understand how data is transferred between the processor and I/O devices.

	FY.B.S.c (C.S) Sem-II	Class				
Stogramming with Python-II	Programming with C	Course	Soft Skills Development	Descriptive Statistics & Introduction to Probability	Discrete Mathematics	
AND DESCRIPTION OF PERSONS ASSESSED.	Students should be able to write, compile and debug programs in C language. Students should be able to use different data types in a computer program. Students should be able to design programs involving decision structures, loops and functions. Students should be able to explain the difference between call by value and call by reference. Students should be able to understand the dynamics of memory by the use of pointers.	Berio	To know about various aspects of soft skills and learn ways to develop personality Understand the importance and type of communication in personal and professional environment. To provide insight into much needed technical and non-technical qualities in career planning. Learn about Leadership, team building, decision making and stress management. Inderstand the significance and essence of a wide range of soft skills. Learn how to apply soft skills in a wide range of routine social and professional settings. Learn how to employ soft skills to improve interpersonal relationships. Learn how to employ soft skills to enhance employability and ensure workplace and career.	Enable learners to know descriptive statistical concepts Enable study of probability concept required for Computer learners To develop the learners ability to deal with different types of data To enable the use of different measures of central tendency and dispersion wherever relevant To make learner aware about the techniques to check the Skewness and Kurtosis of data To make learner aware about the techniques to check the Skewness and Kurtosis of data To make learner aware about the correlation between different variables and further apply the regression analysis to find the exact relation between them To develop ability to analyze statistical data through R software	To provide overview of theory of distrete objects, starting with relations and partially ordered sets. Study about recurrence relations, generating function and operations on them. Give an understanding of graphs and trees, which are widely used in software. Provide basic knowledge about models of automata theory and the corresponding formal languages. The purpose of the course is to familiarize the prospective learners with mathematical structures that are fundamentally discrete linis course will enhance prospective learners to reason and ability to articulate mathematical problems. These concepts will be useful to study or describe objects or problems in computer algorithms and programming languages and these concepts will be useful to study or describe objects or problems in computer algorithms and programming languages and these concepts will be useful to study in other courses.	To familiarize the student with normalization, database protection and different DCL. Statements. To make students aware about importance of protecting data from unauthorized users. To make students aware of granting and revoking rights of data manipulation.

	Class SYB.Sc(CS) Sem-III						
Corcleva	Theory of Computation	Star Methods & Testing of Hypothesis	Calculus	Data Structures		Linux	
Object oriented programming concepts using fava. Knowledge of input, its processing and getting sulpible output. Understand, design, implementation of AWT, package.	Outcomes Understand Grammar and Languages Learn about Automata theory and its application in Language Design Learn about Turing Machines and Pushdown Automata Understand Linear Bounded Automata and its applications		Understanding of Mathematical concepts like limit, continuity, derivative, integration of functions. Ability to appreciate real world applications which uses these concepts. Skill to formulate a problem through Mathematical modeling and simulation. The primary objective of this course is to introduce the basic tools of Calculus which archelpful in understanding their applications to the real world problems. The course is designed to laive a grasp of important concepts of Calculus in a scientific way. It covers topics from as basic as definition of functions to partial derivatives of functions in a gradual and logical way. The learner is expected to solve as many examples as possible to a get compete charity and understanding of the topics covered.	Learn shoot Data structures, its types and its implementation Ability to program various applications using different data structure in Python	To set Linux Environment variables and learn setting file permissions to maintain Linux secontly implementation To learn various editors available in Linux OS To learn shell scripting To learn installation of compilers and programming using C and Python Imputages on Linux platform	Upon completion of this course, students should have a good working knowledge of Linux, from both a graphical andcommand line perspective, allowing them to easily use any Linux distribution. This course shall help student to learn advanced subjects in computer science practically. Student shall be able to progress as a Developer or Linux System Administrator using the acquired skill set. To learn basic concepts of Linux in terms of operating system.	To learn about reading, writing and implementing one systems. To implement threading concept and multifliceding on Python. To design GUI Programs and implement database interaction using Python. To know about use of regular expression and handling exceptions for writing robust python programs.

		Programming .	Skill Enhancement Web				Blooked Communition & InT	Iheary	C Graph		t in the second	NAME OF TAXABLE				STATE OF	Operating System
Design and apply XML to create a markup language for data and document centric applications.	To develop and implement Database Driven Websites	To develop and implement elient-side and server-side scripting language programs.	Understand the various platforms, devices, display resolutions, viewports, and browsers that render websites	To design valid, well-formed, scalable, and meaningful pages using emerging technologies.	Learn how to make consumer grade IoT safe and secure with proper use of protocols.	Learn physical interfaces and electronics of Raspberry Pi and program them using practical's	Enable learners to understand System On Chip Anchinectures.	Apply combinatorial and graph theoretical concepts to understand Computer Science concept and apply them to solve the	Understand the combinatorial features in real world situations and computer science applications	Appreciate beauty of combinatories and how combinatorial problem naturally arise in many settings	Understand cancepts and implementations of trursaction management and crash recovery	earn about using PL/SQL for data management	Master concepts of stered procedure and triggers and its use:	Understand concept of Concurrent execution: problems and solutions	Understand and analyse theory and implementation of processes, resource control (concurrency etc.), physicaland virtual memory scheduling, I/O and files	Develop and master understanding of algorithms used by operating systems for various purposes.	to browide a understanding of operating system, as structures and amonoming

Explore and understand use of Java Beans struts and JSON	Advanced Java Explore and understand use of Java Servicts Explore and understand use of Java Servicts		SY.B.S.c.(C.S) Students will be able to choose appropriate advanced data structure for given problem. Sem-IV Fundamentals of Students will be able to select appropriate design techniques to solve real world problems.	Class Course Outcomes
	Suthilader MCT'S	panuka C		

Appearand the concepts through program implementation

Basic knowledge and understanding of the analysis and design of complex systems.

Ability to apply software engineering principles and techniques.

Ability to develop, maintain and evaluate large-scale software systems.

To produce efficient, reliable, rebust and cost-effective software solutions.

Advanced Android Development	Advanced App Development	Skill Enhancement Android Developer Fundamentals(OLD)	NIIT Technologies	Python
Understanding Advanced Android App Development Understanding Advanced Application Understanding Kottin language To Get Career opportunity in software development company	Advanced App Development To Understand new Angular Is and ReactIS and Flutter Technology To Understanding current Software Development Market Trends Technology Advanced Mongodb Concepts and Database transactions	Understand the requirements of Mobile programming environment Learn about basic methods, tools and techniques for developing Apps Explore and practice App development on Android Platform Develop working prototypes of working systems for various uses in daily lives.	Understand the NET framework Develop a proficiency in the C# programming language Proficiently develop ASP NET web applications using C# Use ADO NET for data persistence in a web application	Instill a computational thinking white learning (incar algebra.

Class	Course	Outcomes
TY.B.S.c.(C.S) Sem-V		
	Elective-I Artificial intelligence	Analyze the substitutes and algorithms of AI to recognize, model, and solve problems in theatalysis and design of Apply the basic principles, models, and algorithms of AI to recognize, model, and solve problems in theatalysis and design of Apply the basic principles, models, and algorithms of AI to recognize, model, and solve problems in theatalysis and design of Apply the basic principles, models, and algorithms of AI to recognize, model, and solve problems in theatalysis and design of Apply the basic principles.
		Compare AI with human intelligence and traditional information processing and discuss its strengths. Understand the foundations, history, and state of the art of AI cam about intelligent agents, their environments, and the structure of agents. Gain knowledge of knowledge representation and reasoning methods, and apply them to solve complex problems. Develop ar understanding of machine learning techniques, including classification, regression, and ensemble learning.
	Project Management	Apply project management principles, processes, and best practices to plan, execute, and centrol projects effectively. Develop project charters, define project scopes, and create work breakdown structures (WBS) to establish project objectives and elementaries.
		Create project schedules, estimate resource requirements, and monitor project progress using appropriate project management achinques. Employ quality assurance and control measures to ensure project deliverables meet stakeholder expectations and industry star Employ quality assurance and control measures to ensure project deliverables meet stakeholder expectations and industry star Demonstrate effective leadership and tearnwork skills, as well as the ability to manage stakeholders, resolve conflicts, and machineal decisions in project management settings.
	Linux Server	Demonstrate profesency in managing software packages and repositories in Linux
	A Company of the Comp	CONTRACTOR OF THE PROPERTY OF

stich in DNS 1111 and web servers, ensuring proper security

Web Services(OLD)	Elective-II Information & Network Security	Cyber Forensics	Software Testing & Quality Assurance
Design SOAP based (RESTEM / WCF services and associated standards such as WSDL Design SOAP based (RESTEM / WCF services Deal with Security and OxS issues of Web Services Efficiently use market leading environment tools to create and consume web services Indentify and select the appropriate framework components in creation of web service solution Understand the basics of cloud platforms essential characteristics of cloud platforms Explore web services (rechnologies such as SOAP and REST and understand their role in distributed computing and purallel computing Gain proficiency in utilizing virtualization feebnologies, including creating virtual machines and manuagety virtualization feebnologies, including creating virtual machines and Explore and utilize popular cloud computing platforms such as OpenStack and AWS to architect, deploy, and manuage cloud-based applications and services	Understand the principles and practices of cryptographic techniques. Understand a wariety of generic security threats and vulnerabilities, and identify & analyze particular security problems for a. Understand various principle for network security to protect against the fluents. Familiarity students with the fundamental principles, models, and mechanisms of computer and network security. Explore various encryption techniques, including symmetric and public-key cryptography, and understand their strengths, weaknesses, and real-world applications. Examine different authentication and key management methods to ensure secure communication and protect against manifestions of message authentication, digital signatures, and authentication security measures, including IP security, web security, intrusion detection, mulicious software detection, and firewall design principles.	The student will be able to plan and prepare for all stages of an investigation detection, initial response and management. Define the concept of ethical hacking and its associated applications in Information Communication Technology (ICT) world. Explain the methodology of incident response and various security issues in ICT world, and identify digital forense tools for data collection. Understand the principles and concepts of computer forensics. Develop skalls in conducting computer investigations using a systematic approach. Gain proficiency at acquiring and preserving digital evidence from different storage formats. Explore the use of specialized tools and software for computer forensics analysis. Learn the techniques for investigating network-related incidents and conducting live acquisitions.	Apply troubleshooting techniques to identify and resolve common issues in Linux server administration. Understand various software testing methods and strategies. Understand a variety of software metrics, and identify defects and managing. Those defects for improvement in quality for given software. Design SQA activities, SQA strategy, formal technical seview report for software quality control and assurance. Understand the significance of software testing in ensuring software quality and reliability. Familiarize with the fundamental concepts and principles of software quality assurance. Learn different software testing techniques and methodologies for effective test case design. Explore the role of verification and validation in software development and testing processes. Gain practical experience in using software testing tools and frameworks for automated testing.

Wireless Sensor Networks(OLD)							Information Retrieval		Class Class Clourse TY B S.e.C.S) Cloud Computing and Web Services	Anna Congramment
Understand the fundamental concepts, architectural elements, and optimization goals of the control of the knowledge to analyze and design WSN solutions. Evaluate and compare different medium access control protocols and routing strategies in WSNs, and make informed decisions to ensure efficient and reliable communication. Demonstrate strawledge of words—transmission technologies, such as frequency, signals, andersias, and prepagation, and analyze.	Vigin plat (WSKs) and upply	machine learning technic	To gain practical experience in implementing and evaluating information retrieval systems	To analyze and compare different retrieval models and understand their strengths and limitations	To understand the fundamental principles and components of information retrieval systems	-	Explains why documents are preprocessed before indexing	After completion of this course, learner should get an understanding of the field of information retrieval and its relationship. It will give the learner an understanding to apply information retrieval models. Explains how inverted indexes are augmented in various ways for functionality and speed.	Implement advanced graphics technologies, including lighting, shading, and texturing to create visually appealing garne environments. Apply principles of game design and create engaging and immersive gaming experiences. Apply principles of game design and create engaging and immersive gaming experiences. After successfully completion of this course, lie rudent to perform innovations in the subject as the choice of the footeninologies. After successfully completion of this course, learner should be able to articulate the main concepts, key rechnologies. Learner should explain the core issues of cloud computing, including types of cloud computing, including types of clouds, deployment models, and essential characteristics of cloud computing, including types of clouds, deployment models, and essential characteristics of cloud platforms. Explore web services technologies such as SOAP and REST and understand their role in distributed computing and parallel computing. Explore web services technologies such as SOAP and REST and understand their role in distributed computing and parallel computing. Explore and unline popular cloud-based applications and services technologies, including types of clouds, deployment models, and deploy, and managing virtualized environments using tools Be K-M and O'nt. Explore and unities popular cloud-based applications and services technologies, including confidentiality, integrity, availability, and secure development practices.	PT 1000

Project Implementation		Ethical Hacking		7.7		Data Science				Customer Relationship Management	
Give the appartunity to the student to grove his her ability in the subject practically through the Project Implementation. To hoost his her confidence and also can encourage the student to perform innovations in the subject as the choice of the PRINCIPAL To hoost his her confidence and also can encourage the student to perform innovations in the subject as the choice of the PRINCIPAL To hoost his her confidence and also can encourage the student to perform innovations in the subject as the choice of the PRINCIPAL To hoost his her confidence and also can encourage the student to perform innovations in the subject as the choice of the	ation, Sustained	The solid shall	Learner will know to identify security vulnerabilities and weaknesses in the target applications. They will also know to test and exploit systems using various tools and understand the impact of hacking in real time.	decisions Learn how to evaluate and select models using appropriate evaluation metrics and cross validation techniques to ensure reliable and robust model performance. Develop proficiency in data visualization techniques and tooks to effectively communicate insights and tell compelling stories using data.	Understand the foundations and scope of Data Science, including its applications and comparison to related fields like Business intelligence and Artificial Intelligence. Develop skills in data preprocessing, including cleaning, transforming, selecting, and merging data, to ensure data quality and suitability for analysis. Carn knowledge of machine learning algorithms and techniques, such as regression, classification, clustering, and ensemble learning, to build predictive models and make data-driven.	y of input, derive insight from yell as muthernatical and statis and use data analyses.	Assistant intermed data using an EDA techniques:	Students will develop proficiency in analytical CRM techniques, including data management, analytics for strategy and tactics, and the successful implementation of CRM systems. They will also be able to analyze and draw insights from real-life case studies and success stories related to CRM.	Students will understand the importance of customer-perceived value and its impact on customer satisfaction, loyalty, and business performance. Students will be able to apply strategic and operational CRM approaches, such as customer portfolio management and marketing automation, to enhance organizational effectiveness.	Students will be able to define and explain the various forms of CRM and their relevance to business contexts. Students will acquire the skills to manage the customer journey effectively, including implementing customer acquisition and	Assess the role of telecommunication systems, satellite, broadcast systems in worse, and universalist area approximation for WSN deployments.

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