

(2018-2019)

Name of the Department: Tamil, Hindi and Other Languages

Name of the Programme: NA

Programme outcome (PO): NA			
Programme Specific Outcome (PSO): NA			
S.No.	Course Code	Course Name	Course Outcome (CO)
1	17T01	Part –I Language -I	CO1: The Student will know about the Modern Literature
	17H01		CO2: The Students will acquire knowledge about different aspects of literature
	17S01		CO3: The Students will gain the literary skill
	17F01		CO4: The Students will be able to understand the Basic Grammar and Terminology
	17CSF01		CO5: The Students will be able to translate small sentences
	17M01		
2	17T02	Part –I Language -II	CO1: The Students will acquire knowledge about different aspects of literature
	17H02		CO2: The Students will gain knowledge about great Literary Personalities
	17S02		CO3: The Students will gain values depicted in Literature
	17F02		CO4 :The Students will be able to understand Grammar
	17CSF02		CO5: The Students will be able to write without error
	17M02		
3	17T03	Part –I Language -III	CO1: The Students will obtain a general knowledge of the different streams of Literature
	17H03		CO2: The Students will possess a sound knowledge of the values of the language
	17S03		

	17F03 17CSF03 17M03		CO3: The Students will be able to understand the beauty and importance of Literature CO4: The Students will be able to use the appropriate grammar forms in communication CO5: The Students will acquire language skills
4	17T04 17H04 17S04 17F04 17CSF04 17M04	Part –I Language -IV	CO1: The Students will acquire knowledge of the language CO2: The Students will understand the human values inherent in literature CO3: The Students will be able to know and write the language in a better way CO4 &CO5: The Students will develop soft skills in language

(2018 - 2019)

Name of the Department : English

Name of the Programme: II BA English Literature

Programme Outcome (PO):

- **Critical Thinking:**
Take informed actions after identify the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- **Effective Communication:**
Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
- **Social Interaction:**
Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- **Effective Citizenship:**
Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- **Ethics:**

Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

- **Environment and Sustainability:**
Understand the issues of environmental contexts and sustainable development.
- **Self- directed and Life- Long Learning:**
Acquire the ability to engage in independent and life-long learning in the broadest context socio- technological changes.

Programme Specific Outcome (PSO):

- The students will equip themselves with the basic knowledge and Skill related to English Literature and Language
- The Students will gain the confidence and the Skill to Teach, to face Academic, Career oriented challenges with the acquired Language Skills
- The Students can develop the Soft skills which will enable them to undertake suitable Jobs

S.N o.	Course Code	Course Name	Course Outcome (CO)
1	17E03	Part II - EnglishIII	Students will be able to CO1 visualize the power of creativity CO2 gain knowledge of Essential Grammatical and Communication skills CO3 realize the values of Language and Literature which throws light on the intricacies of life CO4 get the reflection of life in Literature CO5 gain motivation to think Constructively and to be Empathetic
2	17UAACT301	Core V- Prose II	Students will CO1 get imbued with the Ethical Values and also develop Social Responsibility CO2 get the knowledge to interact with the people in the Society CO3 be facilitated with Self-directed and Lifelong Learning CO4 be induced to think Critically CO5 comprehend the Value of Nature and Human Life

3	17UAACT302	Core VI- FictionII	Students will be able to CO1 identify the distinct Literary genre of Fiction CO2 learn to critically appreciate a Novel from various perspectives CO3 gain an insight for Self direct and Lifelong Learning CO4 gain the knowledge on the Ethics of Life CO5 emerge as Responsible Citizens
4	17UAAAT303	AlliedIII- LiteraryForms	Students will be CO1 equipped with the knowledge of the basics of Poetry and the Poetical Types CO2 exposed to the Poets of various periods CO3 understand the significance of the Dramatic Art CO4 gain knowledge to critically employ the Devices while writing Plays or Essays CO5 understand the values of life and learn how to achieve greatness to become Socially Responsible persons
5	17UAAST304	Skill BasedCourse I- ConversationalEnglish - I	Students will CO1 gain Situational Competency CO2 be enabled to think Critically CO3 enrich their Communication Skills CO4 enhance the effectiveness of their Communication CO5 be equipped with the knowledge of Self-directed Learning

Name of the Department : English

Name of the Programme: III BA English Literature

Programme Outcome (PO):

- **Critical Thinking:**
Take informed actions after identify the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- **Effective Communication:**
Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
- **Social Interaction:**
Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- **Effective Citizenship:**
Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- **Ethics:**
Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

- **Environment and Sustainability:**
Understand the issues of environmental contexts and sustainable development.
- **Self- directed and Life- Long Learning:**
Acquire the ability to engage in independent and life-long learning in the broadest context socio- technological changes.

Programme Specific Outcome (PSO):

- The students will equip themselves with the basic knowledge and Skill related to English Literature and Language
- The Students will gain the confidence and the Skill to Teach, to face Academic, Career oriented challenges with the acquired Language Skills
- The Students can develop the Soft skills which will enable them to undertake suitable Jobs

S.N o.	Course Code	Course Name	Course Outcome (CO)
1	17UAACT501	CoreIX – ShakespeareI	Students will be able to CO1: evaluate the themes and motives of Shakespearean comedies CO2: examine the characterization and pathos in Shakespearean Tragedies CO3: perceive the psychological and cultural context of Shakespeare’s time CO4: interpret the historical framework of England during the Elizabethan age CO5: critically analyze the diction and style of Shakespeare’s writing
2	17UAACT502	Core X– Indian Writing inEnglish	students will CO1: gain an understanding of the Indianness in Indian Writing in English CO2: analyze the strengths and constraints of Indian English as a literary genre CO3: critically trace the unfolding of the Plot of the Indian Short Stories CO4: interpret novels in Indian English in a skillful, knowledgeable and ethical manner CO5: accentuate the expression of thoughts and views for critical appreciation
3	17UAACT503	CoreXI– EnglishPhonetics	Students will be able to CO 1: acquire clear knowledge of basic sound systems CO 2: get an idea of the classification of sounds and sound patterns CO 3: gain knowledge about the components of sound system CO 4: get exposed to the concepts connected with Indian English Pronunciation

			CO 5: obtain confidence to use the language correctly through practice
4	17UAACT504	Core XII– English for Mass Communication	Students will CO 1: understand the basics of press and journalism CO 2: get imbibed with the roles and responsibility of an editor and reporter CO 3: get to know the usage of the Information Technology in press CO 4: comprehend the page design and editing CO 5: identify the functions of media
5	17UAAET507	Elective I (C)- Public Speaking	Students will be able to CO 1: understand the fundamentals of communication process and public speaking CO 2: choose the appropriate topic and analyze the audience for public speaking CO 3: create the speech writing with proper beginning and ending of the speech CO 4: select correct language and make the befitting deliverance CO 5 : use the Information and Communication Technology (ICT) tools for the speech
6	17UAAST508	Skill Based Course II I– Multi Vocational English I	Students will be able to CO 1: identify, understand and manage emotions in an effective and positive way CO 2: interact with people through effective listening and communication CO 3: improvise their talents, potential for employability CO 4: communicate effectively avoiding the barriers of communication CO 5: acquire confidence to effectively present their notions formally

Name of the Department : English

Name of the Programme: II MA English Literature

Programme Outcome (PO):

- **Critical Thinking:**
Take informed actions after identify the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- **Effective Communication:**
Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
- **Social Interaction:**
Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- **Effective Citizenship:**
Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- **Ethics:**
Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
- **Environment and Sustainability:**
Understand the issues of environmental contexts and sustainable development.
- **Self- directed and Life- Long Learning:**
Acquire the ability to engage in independent and life-long learning in the broadest context socio- technological changes.

Programme Specific Outcome (PSO):

- The students will be equipped with the Knowledge and Skills related to English Language and Literature
- The Students will gain the confidence and the Skill to Teach with the acquired Language Skills and face Academic, Career oriented challenges
- The Students will enhance their Soft skills which will enable them to achieve success in their career

S. No.	Course Code	Course Name	Course Outcome (CO)
1	17PBACT301	Core Paper - XI Mythological Literature	Students will be able to CO1 understand the significance of social values through Myth CO2 think critically about Myth CO3 get an insight of ethical values through Mythical characters CO4 promote cultural values CO5 comprehend the strategies used in Myth
2	17PBACT302	Core Paper – XII European Literature	students will be able to CO1 gain an insight of Human Values CO2 acquire the knowledge of Social Ethics to become an effective citizen CO3 understand the Values of Ethics CO4 recognize the Values for Lifelong Learning CO5 think Critically

3	17PBACT303	Core Paper - XIII Educational Psychology	<p>students will be able to</p> <p>CO1 gain an insight of the techniques for social interaction</p> <p>CO2 groom their personality</p> <p>CO3 understand the techniques of self – directedness and lifelong learning</p> <p>CO4 enhance their critical thinking</p> <p>CO5 gain the confidence to become effective citizens through their service as care takers</p>
4	17PBACT304	Core Paper – XIV Critical Theories	<p>Students will be able to</p> <p>CO1 get a clear idea of Ethical Values through the ideas of Ancient Philosophers</p> <p>CO2 direct themselves to lifelong learning process</p> <p>CO3 develop the power of their Critical Thinking</p> <p>CO4 comprehend the significance of the personalities who interact to the society through their writings</p> <p>CO5 critically think and analyze varied perceptions through reading</p>
5	17PBAET306	Elective III (B) Stylistics	<p>Students will be able to</p> <p>CO1 acquire a fundamental knowledge about Linguistic Aspects</p> <p>CO2 understand the rules and codes of the resources of a language</p> <p>CO3 associate linguistic structures through social interaction</p> <p>CO4 comprehend the treatment of human communication during specific conditions</p> <p>CO5 critically analyze the technical aspects of the language</p>

Name of the Department: Commerce

Name of the Programme: B.Com

Programme outcome (PO):

1. Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, Organizational and Personal) from different perspective.
2. Effective Communication: Speak, read, Write and listen clearly in person and through electronic

media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

3. Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group meeting.
4. Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
5. Ethics: Recognize different value system including your own, understand the moral dimension of your decisions, and accept responsibility for them.
6. Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
7. Self -directed and Lifelong Learning: Acquire the ability to engage in independent and life -long learning in the broadest context socio-technological changes.

Programme Specific Outcome (PSO):

At the end of the programme, students will be equipped with the Knowledge in:

1. Familiarize with methods of preparing financial statements of corporate sectors.
2. Pursuing professional courses like CA, CS CMA and Master courses like M.Com., MSW., and MBA
3. Lucrative career choices in the areas of Marketing, Banking, Insurance sectors and to emerge as a Successful entrepreneur.

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17UADCT101	Financial Accounting - I	<p>CO1: Remember the accounting concepts and procedures.</p> <p>CO2: Understand the book keeping and rectification of errors.</p> <p>CO3: Apply the principles of financial statements and BRS.</p> <p>CO4: Analyze the transactions of bill of exchange and account current.</p> <p>CO5: Evaluate the financial statements and purposes of Non trading Concerns.</p>
2	17UADCT102	Business Organization	<p>CO1: Remember the concepts of trade and evaluation of business.</p> <p>CO2: Understand the various forms in business organization.</p> <p>CO3: Apply the features of public enterprises.</p>

			<p>CO4: Analyze the steps for starting a new business.</p> <p>CO5: Evaluate the functions of stock exchange.</p>
3	17UADAT103	Indian Economy	<p>CO1: Remember the issues for growth and development of Indian Economy.</p> <p>CO2: Understand the methods and applications of Depreciation.</p> <p>CO3: Apply the system of accounting followed in Hire Purchase system.</p> <p>CO4: Analyze accounting treatment required for admission and retirement in partnership firms.</p> <p>CO5: Evaluate the accounting procedures involved in dissolution of partnership.</p>
4	17UADCT201	Financial Accounting - II	<p>CO1: Remember the accounting treatment of onignment.</p> <p>CO2: Understand the book keeping and rectification of errors.</p> <p>CO3: Apply the principles of financial statements and BRS.</p> <p>CO4: Analyze the transactions of bill of exchange and account current.</p> <p>CO5: Evaluate the financial statements and purposes of Non trading Concerns.</p>
5	17UADCT202	Marketing Management	<p>CO1: Remember the principles and practices of marketing.</p> <p>CO2: Understand pricing mechanism of marketing.</p> <p>CO3: Apply the evaluation concepts of physical distribution.</p> <p>CO4: Analyze the sales promotional techniques used in modern marketing.</p> <p>CO5: Evaluate the importance of branding decisions.</p>
6	17UADAT203	Managerial Economics	<p>CO1: Remember the nature and scope of economics.</p> <p>CO2: Understand the determination of the demand and supply for a good in a competitive market..</p> <p>CO3: Apply the different production and the implications of the producer's equilibrium in a market on firms output decisions.</p> <p>CO4: Analyse the pricing strategy under perfect competition.</p>

			CO5: Evaluate the causes and effects of inflation.
7	17UADCT301	Corporate Accounting - I	CO1: Remember the accounting procedures for Issue of shares. CO2: Understand the application of redemption of Preference Shares and Debentures. CO3: Apply the underwriting procedures for Shares and Debentures. CO4: Analyze the financial statements of the corporate as per accounting standards. CO5: Evaluate the value of goodwill and shares of company.
8	17UADCT302	Principles Of Management	CO1: Remember the functions and strategy of managing business. CO2: Understand the nature and importance of planning and decision making. CO3: Apply the skills necessary for carrying out the sound organisational structure. CO4: Analyze the techniques adopted to improve the organizational ability. CO5: Evaluate the importance of effective teamwork and techniques of controlling.
9	17UADCT303	Office Management And Business Communication	CO1: Remember the principles and functions of office management. CO2: Understand the mechanism of filling and indexing of office documents. CO3: Apply the modern communication methods in drafting business letters CO4: Analyze the mechanism of business correspondence and its implications. CO5: Evaluate Agenda and minutes of the company meeting.
10	17UADCT304	Business Law	CO1: Remember the laws relating to contract. CO2: Understand the various legal contracts that a business entity can take and their relative advantages and disadvantages. CO3: Apply the legal aspects relating to performance and discharge of contract. CO4: Analyse the suitable strategies relating to contract of

			<p>indemnity and guarantee.</p> <p>CO5: Evaluate the essentials of hire purchase agreement and its implications to develop a suitable operational framework.</p>
11	17UADST308	Business Application Software - I	<p>CO1: Remember the word processing terminology and concepts.</p> <p>CO2: Understand the document formatting and alignments in MS Word.</p> <p>CO3: Apply the mechanism of mail merge by creating a suitable data.</p> <p>CO4: Analyze the several functions of MS-Excel and able to inbuilt appropriate function suitable for evaluating the data.</p> <p>CO5: Evaluate the sharing data between applications and create complex worksheets and Templates.</p>
12	17UADCT401	Corporate Accounting - Ii	<p>CO1: Remember the accounting procedures for amalgamation and absorption methods.</p> <p>CO2: Understand the external and internal reconstruction framework of companies.</p> <p>CO3: Apply the norms and regulations of banking companies as per Banking Regulation Act.</p> <p>CO4: Analyze the financial statements of Insurance companies as per IRDA regulations.</p> <p>CO5: Evaluate the legal requirements and preparation of consolidated balance sheet of holding Company.</p>
13	17UADCT402	Company Law	<p>CO1: Remember the basic provisions of law in formation of companies and preparation of MOUs, AOA and prospectus.</p> <p>CO2: Understand the legal provisions relating to transfer and transmission of shares and debentures.</p> <p>CO3: Apply the procedures in appointment and removal of directors as per Companies Act 2013.</p> <p>CO4: Analyze the various kinds of meetings and its procedures.</p> <p>CO5: Evaluate the process of winding up and its consequences to companies.</p>

14	17UADCT403	Human Resource Management	<p>CO1: Remember the basic concepts of Human Resource Management and its essential role in Contemporary organization's internal and external environment.</p> <p>CO2: Understand the role and factors influence the Human Resource planning.</p> <p>CO3: Apply the current theory and practice of recruitment and selection in relation to the organization.</p> <p>CO4: Analyze the appropriate implementation, monitoring and assessment procedures for Training and Development.</p> <p>CO5: Evaluate the different techniques and challenges involved in the performance appraisal.</p>
15	17UADCT404	International Business	<p>CO1: Remember the concepts of international business and its importance in corporate world.</p> <p>CO2: Understand the procedures of foreign exchange currency and international monetary system.</p> <p>CO3: Apply the theories of international frame and monetary issues and apply them to real world situations.</p> <p>CO4: Analyze the reasons of FDI and payment terms in foreign trade.</p> <p>CO5: Evaluate the implications of international marketing and its promotional strategies</p>
16	17UADSP408	Business Application Software-I	<p>CO1: Remember the mechanism of editing multiple documents.</p> <p>CO2: Understand the bulletin work and replacing the misspelled word easily.</p> <p>CO3: Apply the mechanism of mail merge easily to creating a letter document format and merging to multiple people.</p> <p>CO4: Analyze the appropriate design of cheque book and resume wizard.</p> <p>CO5: Evaluate the multiple data by using Excel formulas.</p>
17	17UADCT501	Cost Accounting	<p>CO1: Remember the cost concepts and able to prepare cost sheets.</p> <p><i>CO2: Understand various levels and able to find out value of closing stock after material issued.</i></p> <p>CO3: Apply the methods of labour turnover and system of wage payment.</p> <p>CO4: Analyse the allocation, apportionment and absorption methods.</p> <p>CO5: Evaluate the contract and process accounts.</p>

18	17UADCT502	Direct Taxes	<p>CO1: Remember the scope of income of residents.</p> <p>CO2: Understand the provisions relating to salary income and house property income.</p> <p>CO3: Apply the provisions to evaluate business and professional income.</p> <p>CO4: Analyze the deductions under gross total income.</p> <p>CO5: Evaluate the aggregate income and tax liability of individual.</p>
19	17UADCT503	Entrepreneurship	<p>CO1: Remember the importance and traits of entrepreneurship.</p> <p>CO2: Understand the opportunities of a successful business.</p> <p>CO3: Apply the various techniques for market analysis.</p> <p>CO4: Analyze the business planning process for starting a new business venture.</p> <p>CO5: Evaluate the sources of finance and Government support schemes for entrepreneurs.</p>
20	17UADCT504	Banking Law And Practice	<p>CO1: Remember the functions and regulations of Banking Act.</p> <p>CO2: Understand the procedures in banking services.</p> <p>CO3: Apply the procedures in crossing and endorsement of cheques.</p> <p>CO4: Analyze the lending policies and security alerts of banks.</p> <p>CO5: Evaluate the core banking and e- banking technologies.</p>
21	17UADET505	Business Finance	<p>CO1: Remember the concepts and functions of finance.</p> <p>CO2: Apply the financial planning steps for the effective business.</p> <p>CO3: Understand the capitalization theories and its implications.</p> <p>CO4: Analyze the capital structure of the company.</p> <p>CO5: Evaluate the sources and Forms of Finance.</p>

22	17UADET506	Services Marketing	<p>CO1: Remember the nature and types of services.</p> <p>CO2: <i>Understand</i> the concepts including the marketing mix.</p> <p>CO3: Apply marketing services into various service sectors.</p> <p>CO4: Analyze the services offered by various service sectors.</p> <p>CO5: Evaluate the perspective of various service sectors.</p>
23	17UADET507	Fundamentals Of Insurance	<p>CO1: Remember the basic concepts of Insurance.</p> <p>CO2: Understand the procedures for becoming an insurance agent.</p> <p>CO3: Apply the basic insurance knowledge related to Life insurance.</p> <p>CO4: Analyse the types of fire insurance policies.</p> <p>CO5: Evaluate the different clauses involved in marine insurance policy.</p>
24	17UADST508	Business Application Software - II	<p>CO1: Remember the basics of power point terminology and concepts.</p> <p>CO2: Understand the formatting and alignments in MS Power point.</p> <p>CO3: Apply the mechanism of database by creating a suitable data.</p> <p>CO4: Analyze the several functions of MS-Access and able to inbuilt appropriate function suitable for evaluating the data.</p> <p>CO5: Evaluate the sharing data between applications and create complex Reports and Forms.</p>
25	17UADCT601	Management Accounting	<p>CO1: Understand the Management accounting concepts and its purpose.</p> <p>CO2: Analyse the various types of ratios.</p> <p>CO3: Evaluate the Concept of working capital.</p> <p>CO4: Remember the marginal costing techniques.</p> <p>CO5: Apply the knowledge acquired for preparation of budgets.</p>

26	17UADCT602	Auditing	<p>CO1: Remember the nature and importance of auditing.</p> <p>CO2: Understand the need for an internal audit and different types of audit evidence.</p> <p>CO3: Apply the various techniques for valuation of assets and liabilities.</p> <p>CO4: Analyze the audit report and the duties, liabilities of an auditor.</p> <p>CO5: Evaluate the various sources of EDP Systems in auditing.</p>
27	17UADCT603	Indirect Taxes	<p>CO1: Remember the nature of taxation system in India.</p> <p>CO2: Understand the strength, threats, opportunities and challenges of GST.</p> <p>CO3: Apply the GST law comprehensively in a concise manner.</p> <p>CO4: Analyze the liabilities and input tax credit adjustments in filing GST returns.</p> <p>CO5: Evaluate the e-way bills in a clear and lucid manner.</p>
28	15UADET604	Financial Institutions And Markets	<p>CO1: Remember the concept of financial Institutions and its characteristics.</p> <p>CO2: Understand different functions and regulatory framework of institutions.</p> <p>CO3: Apply the mechanism of money market and capital market.</p> <p>CO4: Analyze the evaluation and growth of primary and secondary market.</p> <p>CO5: Evaluate the mechanics of stock trading.</p>
29	17UADET605	Supply Chain Management	<p>CO1: Remember the key issues of supply chain management.</p> <p>CO2: Understand the need for demand driven and distribution strategies.</p> <p>CO3: Apply the various techniques of strategic alliances.</p> <p>CO4: Analyze the general framework of supply chain partnership.</p> <p>CO5: Evaluate the smart pricing strategies.</p>

30	17UADET606	Principles Of Web Designing	<p>CO1: Remember the basics of HTML and Graphics concepts.</p> <p>CO2: Understand the Document formatting of XML.</p> <p>CO3: Apply the mechanism of JAVA Scripting to create smart forms.</p> <p>CO4: Analyze the several scripting and working of CGI, JAVA Servlets.</p> <p>CO5: Evaluate the web database tools for active server pages.</p>
31	17UADET607	Principles and Practice of Bank Management	<p>CO1: Remember the role and functions of commercial banks.</p> <p>CO2: Understand the functions of bank management.</p> <p>CO3: understand the lending practices and credit appraisal of banks.</p> <p>CO4: Analyze the importance of Human resource management in banks.</p> <p>CO5: Evaluate the balance sheet of banks.</p>
32	17UADET608	Portfolio And Investment Management	<p>CO1: Remember the classifications and essential features of investment programme.</p> <p>CO2: Understand the various alternatives available for investment.</p> <p>CO3: Apply to measure for identifying risk and return on investment.</p> <p>CO4: Analyze the factors determining to investment mix and business policy decisions.</p> <p>CO5: Evaluate the ideas and practices to maximizes one's returns and minimizes risks.</p>
33	17UADEV609	Project Work	<p>CO1: Enable the students to think beyond the boundaries the class room.</p> <p>CO2: Understand the techniques of identifying and fining the problem.</p> <p>CO3: Analyse the various areas of research and able to lect the appropriate one.</p> <p>CO4: Apply the knowledge and skills throughout the oject building process.</p> <p>CO5: Evaluate the project for actual economic and social benefit.</p>

34	17UADSP610	Business Application Software - II	<p>CO1: Remember the basics of power point terminology and concepts.</p> <p>CO2: Understand the formatting and alignments in MS Power point.</p> <p>CO3: Apply the mechanism of database by creating a suitable data.</p> <p>CO4: Analyze the several functions of MS-Access and able to inbuilt appropriate function suitable for evaluating the data.</p> <p>CO5: Using tally create the ledger and show the result.</p>
----	------------	------------------------------------	--

(2018-2019).

Name of the Department: Commerce

Name of the Programme: B.Com (Banking and Insurance)

Programme outcome (PO):

1. Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, Organisational and Personal) from different perspective.
2. Effective Communication: Speak, read, Write and listen clearly in person and through electronic media in English and in

one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
3. Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group meeting.
4. Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability

to act with an informed awareness of issues and participate in civic life through volunteering.
5. Ethics: Recognize different value system including your own, understand the moral dimension of your decisions, and accept responsibility for them.
6. Environment and Sustainability: Understand the issues of environmental contexts and sustainable

development.

7. Self -directed and Lifelong Learning: Acquire the ability to engage in independent and life -long learning in the broadest context socio-technological changes.

Programme Specific Outcome (PSO):

At the end of the programme, students will be equipped with the Knowledge in:

1. Functional areas like accounting, taxation, banking, and insurance and also acquire skills to work as tax consultant, audit assistant and other financial supporting services.
2. Pursuing professional courses like CA, CS CMA and Master courses like M.Com., MSW., and MBA.,
3. Lucrative career choices in the areas of Marketing, Banking, Insurance sectors and to emerge as a Successful entrepreneur

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17UADIT101	Financial Accounting - I	CO1: Remember the accounting concepts and procedures. <i>CO2: Understand the book keeping and rectification of errors.</i> CO3: Apply the principles of financial statements and BRS. CO4: Analyze the transactions of bill of exchange and account current. CO5: Evaluate the financial statements and purposes of Non trading Concerns.
2	17UAICT102	Indian Banking System	CO1: Remember the organization structure of banks. <i>CO2: Understand the role of central banks and its policy framework.</i> CO3: Apply the methods of charging secure and unsecured advances. CO4: Analyze the features of Indian Financial Network and its factors. CO5: Evaluate the role of Non Banking Financial Companies.

3	17UAICT201	Financial Accounting Ii	<p>CO1: Remember the accounting treatment of consignment</p> <p>CO2: Understand the book keeping and rectification of errors.</p> <p>CO3: Apply the principles of financial statements and BRS.</p> <p>CO4: Analyze the transactions of bill of exchange and account current.</p> <p>CO5: Evaluate the financial statements and purposes of Non trading Concerns.</p>
4	17UAICT202	Fundamentals Of Insurance	<p>CO1: Remember the nature and principles of insurance</p> <p>CO2: Understand the insurance laws and regulations and contract act.</p> <p>CO3: Apply the procedures, code of conduct and unfair practices.</p> <p>CO4: Analyze the fundamental principles of insurance</p> <p>CO5: Evaluate the applications of life insurance products</p>
5	17UAICT301	Corporate Accounting I	<p>CO1: Remember the accounting procedures for Issue of shares.</p> <p>CO2: Understand the application of redemption of Preference Shares and Debentures.</p> <p>CO3: Apply the underwriting procedures for Shares and Debentures.</p> <p>CO4: Analyze the financial statements of the corporate as per accounting standards.</p> <p>CO5: Evaluate the value of goodwill and shares of company.</p>
6	17UAICT302	Banking Law And Practice	<p>CO1: Remember the regulations and importance of banking regulation Act.</p> <p>CO2: Understand the general and special bank and customer relationship service.</p> <p>CO3: Apply the regulations relating to negotiable instruments and truncated instrument.</p>

			<p>CO4: Analyze the duties and privileges of paying and collecting banker.</p> <p>CO5: Evaluate the principles of advances and non performing assets.</p>
7	17UAICT303	Merchant Banking	<p>CO1: Remember the concepts and functions of Merchant Banking.</p> <p>CO2: Understand the application of merchant banking services as per SEBI Guidelines.</p> <p>CO3: Apply the concept and functions of capital market and money market instruments.</p> <p>CO4: Analyze the capital structure procedures and its pattern applicable for decision making</p> <p>CO5: Evaluate the working mechanism of GDR , ADR and IDR</p>
8	17UAICT304	Business Law	<p>CO1: Remember the laws relating to contract</p> <p>CO2: Understand the various legal contracts that a business entity can take and their relative advantages and disadvantages</p> <p>CO3: Apply the legal aspects relating to performance and discharge of contract.</p> <p>CO4: Analyse the suitable strategies relating to contract of indemnity and guarantee.</p> <p>CO5: Evaluate the essentials of hire purchase agreement and its implications to develop a suitable operational framework.</p>
9	17UAIAT305	Office Management And Business Communication	<p>CO1: Remember the principles and functions of office management.</p> <p>CO2: Understand the mechanism of filling and indexing of office documents.</p> <p>CO3: Apply the modern communication methods in drafting business letters</p> <p>CO4: Analyze the mechanism of business correspondence and its implications.</p> <p>CO5: Create Agenda and minutes of the company meetings.</p>

10	17UAIST307	Business Application Software - I	<p>CO1: Remember the word processing terminology and concepts.</p> <p>CO2: Understand the document formatting and alignments in MS Word</p> <p>CO3: Apply the mechanism of mail merge by creating a suitable data</p> <p>CO4: Analyze the several functions of MS-Excel and able to inbuilt appropriate function suitable for evaluating the data.</p> <p>CO5: Evaluate the sharing data between applications and create complex worksheets and templates</p>
11	17UAICT401	Corporate Accounting - II	<p>CO1: Remember the accounting procedures for amalgamation and absorption methods.</p> <p>CO2: Understand the external and internal reconstruction framework of companies.</p> <p>CO3: Apply the norms and regulations of banking companies as per Banking Regulation Act.</p> <p>CO4: Analyze the financial statements of Insurance companies as per IRDA regulations.</p> <p>CO5: Evaluate the legal requirements and preparation of consolidated balance sheet of holding company</p>
12	17UAICT402	Financial Services	<p>CO1: Remember the functions of financial service market in India.</p> <p>CO2: Understand the contemporary financial measures of performance and risk.</p> <p>CO3: Apply the Various financial products, services, and strategies offered by the variety of financial services institutions</p> <p>CO4: Analyze the Credit rating mechanism and factors influencing rating profile of corporate.</p> <p>CO5: Evaluate the venture capital methods as per SEBI Regulations.</p>

13	17UAICT403	Principles And Practice Of E-Banking And Insurance	<p>CO1: Remember the electronic banking procedures and implications</p> <p>CO2: Understand the online banking technology and its updation procedures.</p> <p>CO3: Apply the concepts of Insurance and Re-insurance policies and procedures as per IRDA Guidelines.</p> <p>CO4: Analyze the macro and micro insurance policies with IRDA Guidelines.</p> <p>CO5: Evaluate the concept of privatization, self regulation and installation of Corporate Governance</p>
14	17UAICT404	Entrepreneurial Development	<p>CO1: Remember the concepts of entrepreneurship and role of entrepreneur for economic development.</p> <p>CO2: Understand the features of project formation and assessment of project feasibility.</p> <p>CO3: Apply the phases of entrepreneurial development programme and its problems.</p> <p>CO4: Analyze the idea for financial assistance from various financial institutions.</p> <p>CO5: Evaluate the government schemes with regard to incentives and subsidies.</p>
15	17UAIAT405	Business Economics	<p>CO1: Remember the basic theories of business economic definition and economic systems</p> <p>CO2: Understand the determination of the demand and supply for a good in a competitive market and explain how that demand and supply together determine equilibrium price.</p> <p>CO3: Apply the different market structures and the implications of the degrees of competition in a market on firms pricing and output decisions.</p> <p>CO4: Analyse the different costs in the production and study the long run and short run relationship of costs as well as of wages, interest and profit in day to day running of business.</p> <p>CO5: Evaluate the marginal productivity theory of</p>

			distribution and its profitability
16	17UAISP407	Business Application Software-I	<p>CO1: Remember the mechanism of editing multiple documents.</p> <p>CO2: Understand the bulletin work and replacing the misspelled word easily.</p> <p>CO3: Apply the mechanism of mail merge easily to creating a letter document format and merging to multiple people</p> <p>CO4: Analyze the appropriate design of cheque book and resume wizard.</p> <p>CO5: Evaluate the multiple data by using Excel formulas</p>
17	17UAICT501	Cost Accounting	<p>CO1: Remember the cost concepts and able to prepare cost sheets.</p> <p><i>CO2: Understand various levels and able to find out value of closing stock after material issued.</i></p> <p>CO3: Apply the methods of labour turnover and system of wage payment.</p> <p>CO4: Analyse the allocation, apportionment and absorption methods.</p> <p>CO5: Evaluate the contract and process accounts.</p>
18	17UAICT502	Direct Taxes	<p>CO1: Remember the scope of income of residents.</p> <p>CO2: Understand the provisions relating to salary income and house property income.</p> <p>CO3: Apply the provisions to evaluate business and professional income.</p> <p>CO4: Analyze the deductions under gross total income.</p> <p>CO5: Evaluate the aggregate income and tax liability of individual.</p>

19	17UAICT503	Modern Marketing	<p>CO1: Remember the nature and functions of marketing.</p> <p>CO2: Understand the concept of consumer behaviour and market segmentation.</p> <p>CO3: Apply the policies, standardization and branding in product development.</p> <p>CO4: Analyze the pricing decisions and problems in pricing.</p> <p>CO5: Evaluate the distribution channels in marketing.</p>
20	17UAICT504	Insurance And Risk Management	<p>CO1: Remember the process of financial risk management</p> <p>CO2: Understand the role of insurance sector in coverage of risk in due course of time.</p> <p>CO3: Apply the principles and identify the cost and benefits of insurance services.</p> <p>CO4: Analyse and compute the claim settlement of life and general insurance policies.</p> <p>CO5: Evaluate the role of global reinsurance market and market reinsurance trading</p>
21	17UAIET505	Principles And Practice Of Bank Management	<p>CO1: Remember the role and functions of commercial banks</p> <p>CO2: Understand the functions of bank management</p> <p>CO3: understand the lending practices and credit appraisal of banks</p> <p>CO4: Analyze the importance of Human resource management in banks</p> <p>CO5: Evaluate the balance sheet of banks</p>
22	17UAIET506	Business Finance	<p>CO1: Remember the concepts and functions of finance.</p> <p>CO2: Apply the financial planning steps for the effective business</p> <p>CO3: Understand the capitalization theories and its implications.</p>

			<p>CO4: Analyze the capital structure of the company.</p> <p>CO5: Evaluate the sources and Forms of Finance</p>
23	17UAIET507	Principles Of Web Designing	<p>CO1: Remember the basics of HTML and Graphics concepts.</p> <p>CO2: Understand the Document formatting of XML</p> <p>CO3: Apply the mechanism of JAVA Scripting to create smart forms</p> <p>CO4: Analyze the several scripting and working of CGI, JAVA Servlets</p> <p>CO5: Evaluate the web database tools for active server pages</p>
24	17UAIST508	Business Application Software - Ii	<p>CO1: Remember the basics of power point terminology and concepts.</p> <p>CO2: Understand the formatting and alignments in MS Power point</p> <p>CO3: Apply the mechanism of database by creating a suitable data</p> <p>CO4: Analyze the several functions of MS-Access and able to inbuilt appropriate function suitable for evaluating the data.</p> <p>CO5: Evaluate the sharing data between applications and create complex Reports and Forms</p>
25	17UAICT601	Management Accounting	<p>CO1: Understand the Management accounting concepts and its purpose</p> <p>CO2: Analyse the various types of ratios</p> <p>CO3: Evaluate the Concept of working capital.</p> <p>CO4: Remember the marginal costing techniques.</p> <p>CO5: Apply the knowledge acquired for preparation of budgets.</p>

26	17UAICT602	Auditing	<p>CO1: Remember the nature and importance of auditing.</p> <p>CO2: Understand the need for an internal audit and different types of audit evidence.</p> <p>CO3: Apply the various techniques for valuation of assets and liabilities.</p> <p>CO4: Analyze the audit report and the duties, liabilities of an auditor.</p> <p>CO5: Evaluate the Investigation and sources of EDP Systems.</p>
27	17UAICT603	Indirect Taxes	<p>CO1: Remember the nature of taxation system in India.</p> <p>CO2: Understand the strength, threats, opportunities and challenges of GST</p> <p>CO3: Apply the GST law comprehensively in a concise manner.</p> <p>CO4: Analyze the liabilities and input tax credit adjustments in filing GST returns</p> <p>CO5: Evaluate the e-way bills in a clear and lucid manner</p>
28	17UAIET604	Micro Finance	<p>CO1: Remember the basic concepts of micro finance</p> <p>CO2: Understand the income generation activities of micro enterprises</p> <p>CO3: Apply credit delivery methods and credit lending models</p> <p>CO4: Analyse the pricing strategies of micro finance products</p> <p>CO5: Evaluating the growth of micro finance industry</p>
29	17UAIET605	Supply Chain Management	<p>CO1: Remember the key issues of supply chain management.</p> <p>CO2: Understand the need for demand driven and distribution strategies.</p> <p>CO3: Apply the various techniques of strategic alliances.</p> <p>CO4: Analyze the general framework of supply chain</p>

			partnership. CO5: Evaluate the smart pricing strategies
30	17UAIET606	International Business	CO1: Remember the concepts of international business and its importance in corporate world. CO2: Understand the procedures of foreign exchange currency and international monetary system. CO3: Understand the objectives of GATT and WTO. CO4: Analyze the implications of international marketing and its promotional strategies. CO5: Evaluate the financial management system in international Business.
31	17UAIET607	Insurance Legislative Framework	CO1: Remember the basic concepts of Insurance legislation in India CO2: Understand the procedures for conduct of insurance business CO3: Apply the basic insurance knowledge related to General insurance CO4: Analyse the features of marine insurance Act CO5: Evaluate the IRDA Provisions and regulations
32	17UAIET608	Advertising And Sales Promotion	CO1: Remember the objectives and functions of advertising <i>CO2: Understand</i> the advantages of advertising CO3: Apply advertisement copy for the product CO4: Analyze the reasons for growth of Sales Promotion CO5: Evaluate the different kinds sales promotion
33	17UAIEV609	Project Work	CO1: Enable the students to think beyond the boundaries of the class room. CO2: Understand the techniques of identifying and defining the problem. CO3: Analyse the various areas of research and able to select the appropriate one.

			<p>CO4: Apply the knowledge and skills throughout the object building process.</p> <p>CO5: Evaluate the project for actual economic and social benefit</p>
34	17UAISP610	Business Application Software - II	<p>CO1: Remember the basics of power point terminology and concepts</p> <p>CO2: Understand the formatting and alignments in MS Power point</p> <p>CO3: Apply the mechanism of database by creating a suitable data</p> <p>CO4: Analyze the several functions of MS-Access and able to inbuilt appropriate function suitable for evaluating the data</p> <p>CO5: Using tally create the ledger and show the result</p>

Name of the Department: Corporate Secretaryship with CA

Name of the Programme: B.Com (CS CA)

Programme outcome (PO):

At the end of the programme, students will be able to:

- **Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.
- **Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- **Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- **Ethics:** Recognize different value systems including your own, understand

the moral dimensions of your decisions, and accept responsibility for them.

- **Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context sociotechnological changes

Programme Specific Outcome (PSO):

At the end of the programme, students will be equipped with the Knowledge in:

- The area of corporate governance.
- The field of various Laws and use of digital technology.
- Accounting system and its applications by use of IT tools.

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17UAFCT101	Core I: Financial Accounting -I	<p>CO 1: Remember the accounting concepts and conventions.</p> <p>CO 2: Understand about subsidiary books and Errors Rectification.</p> <p>CO 3: Gain knowledge on final accounts and Bank Reconciliation Statement.</p> <p>CO 4: Analyze the bill of exchange and Average due date and Account current.</p> <p>CO 5: Gain exposure the final accounts of Non Trading Concerns.</p>
2	17UAFCT102	Core II: Computer Applications in Corporate Office.	<p>CO1: Remember the basic concepts of Computer.</p> <p>CO2: Understand the knowledge of MS word.</p> <p>CO3: Apply the formula for entering in worksheet.</p> <p>CO4: Gain knowledge about creation of power point.</p> <p>CO5: Enrichment about MS Access.</p>

3	17UAFAT103	Allied Course I: Principles of Management	<p>CO1: Understand the basic principles and theories of management.</p> <p>CO2: Gain knowledge on planning and decision making.</p> <p>CO3: Acquire knowledge on organization and delegation of authorities.</p> <p>CO4: Familiarize with direction and supervision of management.</p> <p>CO5: Evaluate the need of co-ordination and controlling techniques.</p>
4	17UAFCT201	Core III: Financial Accounting-II	<p>CO1: Remember the accounting Procedure for Consignment.</p> <p>CO2: Understand the accounting methods for Depreciation.</p> <p>CO3: Acquire knowledge about Hire Purchase and Installment System of Accounting.</p> <p>CO4: Gain Exposure on Accounting Treatment for Admission, Retirement and Death of a Partner.</p> <p>CO5: Enrichment about Dissolution and Insolvency of Partnership.</p>
5	17UAFCP202	Core IV: Computer practical-I (MS Office)	<p>CO1: Acquire knowledge on text alignment and preparation of bio-data.</p> <p>CO2: Familiarize with the preparation of Financial Statement and charts by using Ms-Excel.</p> <p>CO3: Gain exposure on presentation of slides.</p> <p>CO4: Understand the preparation of employee data base and student data base.</p> <p>CO5: Gain exposure on creating an invoice for the product.</p>

6	17UAFAT203	Allied Course II- Banking Law & Practice	<p>CO1: Understand the basic concepts of Banking and functions of RBI.</p> <p><i>CO2: Gain knowledge about banking system in India.</i></p> <p>CO3: Relize the relationship between Banker and Customer.</p> <p>CO4: Evaluate the various types of bank accounts.</p> <p>CO5: Analyze the term NEFT and RTGS.</p>
7	17UAFCT301	CORE PAPER - V CORPORATE ACCOUNTING - I	<p>CO1: Remember the accounting procedures for Issue of shares.</p> <p><i>CO2: Understand the application of redemption of Preference Shares and Debentures.</i></p> <p>CO3: Apply the underwriting procedures for Shares and Debentures.</p> <p>CO4: Analyze the financial statements of the corporate as per accounting standards.</p> <p>CO5: Evaluate the value of goodwill and shares of company.</p>
8	17UAFCT302	CORE VI: COMPANY LAW AND SECRETARIAL PRACTICE - I	<p>CO1: Understand the characteristics and different types of Companies.</p> <p>CO2: Understand the provisions regarding incorporation of public limited company.</p> <p>CO3: Know the contents of Articles of Association and know about the Prospectus.</p> <p>CO4: Gain knowledge on the concept of share capital.</p> <p>CO5: Acquire knowledge about the role of Company Secretary.</p>

9	17UAFCT303	CORE PAPER VII: BUSINESS LAW	<p>CO1: Familiar with various types components of contract.</p> <p>CO2: Learn the basic principles of law that apply to business and business transactions.</p> <p>CO3: Procure familiarity in various kinds of agents and their terminations.</p> <p>CO4: Gain exposure on Indian Partnership Act.</p> <p>CO5: Acquire knowledge on Common Carriers and Sale of Goods Act.</p>
10	17UAFCT304	Core VIII:DATABASE MANAGEMENT SYSTEM	<p>CO1: Cognizant with the basic concept of DBMS.</p> <p>CO2: Apprehend the different types of Databases.</p> <p>CO3: Acquainted with the Knowledge in ER Model.</p> <p>CO4: Exposure in Database security.</p> <p>CO5: Comprehend the current topics of DBMS and KBMS.</p>
11	17UAFNT307	NON MAJOR ELECTIVE – I COMPANY LAW	<p>CO1: Knowledge on the concepts and characteristics of a company and the Company Secretary's role.</p> <p>CO2: Understand the classifications of companies.</p> <p>CO3: Apprehend the provisions regarding incorporation of public limited company.</p> <p>CO4: Exercise cognition on Memorandum and Articles of Association.</p> <p>CO5: Know the kinds and provisions relating to meeting.</p>

12	17UAFST306	SKILL BASED COURSE1: MARKETING MANAGEMENT	<p>CO1: Understand the basic concept of Marketing.</p> <p>CO2: Be familiar with the knowledge of market segmentation.</p> <p>CO3: Gain exposure on development of new products and product life cycle.</p> <p>CO4: Acquire knowledge on pricing and promotion strategies.</p> <p>CO5: Cognizant with various distribution channels of marketing.</p>
13	17UAFCT401	CORE PAPER - IX CORPORATE ACCOUNTING - II	<p>CO1: Remember the accounting procedures for amalgamation and absorption methods.</p> <p>CO2: Understand the external and internal reconstruction framework of companies.</p> <p>CO3: Apply the norms and regulations of banking companies as per Banking Regulation Act.</p> <p>CO4: Analyze the financial statements of Insurance companies as per IRDA regulations.</p> <p>CO5: Evaluate the legal requirements and preparation of consolidated balance sheet of holding company.</p>
14	17UAFCT402	CORE X: COMPANY LAW AND SECRETARIAL PRACTICE - II	<p>CO1: Familiar with the provisions relating to Company Management.</p> <p>CO2: Acquire knowledge on borrowing powers of board of directors.</p> <p>CO3: Know the provisions relating to meeting.</p>

			<p>CO4: Understand the provisions relating to resolutions and dividend.</p> <p>CO5: Identify the provisions relating to winding up.</p>
15	17UAFCT403	Core XI- Programming in C	<p>CO1: Understand the basic structure of C programming.</p> <p>CO2: Gain knowledge on the concept of various decision making statements.</p> <p>CO3: Exposure on create and manipulate arrays.</p> <p>CO4:Cognizance with structures and pointers.</p> <p>CO5: Gain Exposure on write programs and perform the file management.</p>
16	17UAFCP404	Core II: COMPUTER PRACTICAL – II(TALLY & C PROGRAMMING)	<p>CO1: Gain exposure and to get large employment opportunities.</p> <p>CO2: Acquire skills in computerized accounting procedures.</p> <p>CO3: Cognizant with the ability to use a Accounting system, to create the data needed to solve the variety of business problems.</p> <p>CO4: Possess knowledge in C Programming</p> <p>CO5: Gain knowledge of design, develop, and maintain C Programming.</p>
17	17UAFNT407	NON MAJOR ELECTIVE – II PRACTICAL BANKING	<p>CO1: Understand the basic concepts of banking and functions of RBI.</p> <p>CO2: Realize the relationship between the banker and the customer.</p> <p>CO3: Understand the various types of customers.</p> <p>CO4: Know the different types of accounts.</p> <p>CO5: Gain exposure on various types of</p>

			crossing of cheques.
18	17UAFST406	Skill based Course-2 HUMAN RESOURCE MANAGEMENT	CO1: Understand the functions of Human Resource Management. CO2: Familiar with importance of Human Resource Planning and Techniques. CO3: Acquire knowledge on Recruitment and Selection process. CO4:Exposure on placement and Induction Programme. CO5: Possess knowledge about the incentive plan and welfare of Employees.
19	17UAFCT501	CORE PAPER –XIII COST ACCOUNTING	CO1: Remember the cost concepts and able to prepare cost sheets. <i>CO2: Understand various levels and able to find out value of closing stock after material issued.</i> CO3:Apply the methods of labour turnover and system of wage payment. CO4:Analyse the allocation, apportionment and absorption methods. CO5: Evaluate the contract and process accounts.
20	17UAFCT502	Core XIV: Direct Taxes	CO1: Remember the scope of income of residents. CO2: Understand the provisions relating to salary income and house property income. CO3: Apply the provisions to evaluate business and professional income. CO4: Analyze the deductions under gross total income.

			CO5: Evaluate the aggregate income and tax liability of individual.
21	17UAFCT503	Core XV:- Industrial Law	CO1:Familiarize with the provisions relating to Factories Act. CO2: Understand the Industrial disputes and Authorities for Settlement. CO3: Acquire knowledge about the provisions for Wages and Bonus. CO4: Gain Knowledge on Distribution of Compensation. CO5: Gain exposure on benefits to employees.
22	17UAFCT504	Core XVI: Corporate Finance	CO1: Acquire knowledge in corporate finance. CO2: Understand the principles of sound financial plan. CO3: Evaluate the concept of cost of capital. CO4: Familiarize with leverage and capital structure. CO5: Gain exposure on management of cash, receivables and inventories.
23	17UAFET505	ELECTIVE - I VISUAL BASIC (Theory)	CO1: Understand the VB applications and create a new application. CO2:Apply various controls in VB forms. CO3:Gain knowledge on applications with menus. CO4: Analyse VB programs with control structures.

			CO5: Evaluate using of built –in functions and general functions in VB applications.
24	17UAFET506	Elective I - MANAGEMENT INFORMATION SYSTEM	CO1: Gain knowledge about principles and functions of Management Information System. CO2: Understand the mechanisms of communication methods. CO3: Familiar with development of client Server system. CO4: Analyze the mechanism of information system and its implications. CO5: Evaluate the computation of system management.
25	17UAFET507	ELECTIVE-I BUSINESS ENVIRONMENT	CO1: Remember the nature and scope of Environment. CO2: Understand different strategy used in Business Environment. CO3: Apply the knowledge acquired on Policy Environment process. CO4: Analyses the knowledge on placement and Global Environment Programme. CO5: Evaluate the concept of FDI Environment.
26	17UAFST508	Skill Based -3 ENTREPRENEURIAL DEVELOPMENT	CO1: Remember the characteristics and functions of Entrepreneurship. CO2: Understand the concepts of Project Management. CO3: Apply the Growth of Entrepreneurship Development Programmes. CO4: Analyze the Project formulation and preparation of a project Report.

			CO5: Evaluate the source of Institutional finance supporting projects.
27	17UAFCT601	Core XVII:- Management Accounting	CO1: Understand the Management accounting concepts and its purpose. CO2: Analyse the various types of ratios. CO3: Evaluate the Concept of working capital. CO4: Remember the marginal costing techniques. CO5: Apply the knowledge acquired for preparation of Budgets.
28	17UAFCT602	Core XVIII:- Indirect Taxes	CO1: Remember the nature of taxation system in India. CO2: Understand the strength, threats, opportunities and challenges of GST. CO3: Apply the GST law comprehensively in a concise manner. CO4: Analyze the liabilities and input tax credit adjustments in filing GST returns. CO5: Evaluate the e-way bills in a clear and lucid manner.
29	17UAFCT603	Core XIX:- Economic and other Legislations	CO1: Remember the concepts of prevention of money laundering. CO2: Understand the provisions of Essential commodities Act. CO3: Gain exposure on transfer of property laws. CO4: Familiarize with Stamp Act provisions. CO5: Evaluate and understand the provisions

			relating to registration of property.
30	17UAFET604	Elective II –INTERNET AND E COMMERCE	<p>CO1: Remember the word processing terminology and concepts.</p> <p>CO2: Understand the format of Internet addressing.</p> <p>CO3: Apply the mechanism of Electronic commerce technologies.</p> <p>CO4: Analyze the several functions of EDI and to build appropriate function suitable for evaluating the data.</p> <p>CO5 : Evaluate the system analysis and design .</p>
31	17UAFET605	Elective II: Corporate Governance	<p>CO1: Remember the principles of corporate Governance.</p> <p>CO2: Understand annual report preparation.</p> <p>CO3: Perceive the cost of capital and capital structure.</p> <p>CO4: Remember the Distribution of decision and control rights in corporate governance.</p> <p>CO5: Understand the Impact of corporate governance in India.</p>
32	17UAFET606	Elective-II Financial Services	<p>CO1: Understand the Financial market in India.</p> <p>CO2: Gain knowledge on National Stock Exchange.</p> <p>CO3: Familiarize with Classifications of mutual funds.</p> <p>CO4: Understand the credit rating agencies in India and rating methodology.</p> <p>CO5: Gain exposure on Financial Derivatives and features of Derivative Instrument.</p>

33	17UAFEP607	ELECTIVE - III VISUAL BASIC (Practical)	<p>CO1: Design and develop VB applications with format functions and mathematical logic.</p> <p>CO2: Develop VB program to calculate percentage and simple interest.</p> <p>CO3: Design a VB application to perform arithmetic operations and display advertisement.</p> <p>CO4: Develop a VB application to generate payroll and average the names in alphaptical order.</p> <p>CO5: Design a VB program that was string functions and menus.</p>
34	17UAFET608	Elective-III Drafting and Conveyance	<p>CO1: Understand the purpose of Drafting and Conveyances.</p> <p>CO2: Analyse the various types of deeds and documents.</p> <p>CO3: Evaluate the drafting of mortgage deed.</p> <p>CO4: Remember the deeds related to business.</p> <p>CO5: Apply the knowledge acquired and preparation of MOA and AOA.</p>
35	17UAFET609	Elective - III: Investment Management	<p>CO1: Gain knowledge of investments.</p> <p>CO2 :Analyze the various kinds of risk and returns of investments.</p> <p>CO3: Familiarize with various investment alternatives.</p> <p>CO4: Evaluate the process of portfolio management.</p>

			CO5 :Gain exposure on portfolio selection and revision.
36	17UAFST610	Skill Based Course 4:Practical Auditing	CO1: Identify the responsibilities of auditor and the purpose of audit. CO2: Perceive the theoretical knowledge of audit planning. CO3:Gain Exposure to audit environment and specialized audits. CO4:Comprehend knowledge of verification and Valuation of Balance sheet items. CO5: Exposure to Investigation and audit.
37	17UAFAL408	ALC: General and Economic Laws	CO1: Understand the fundamental rights and types of rights. CO2: Gain knowledge on concept of partnership firm. CO3: Acquire knowledge about the arbitration and its procedures. CO4: Understand the Salient features of Micro Small and Medium Entreprises. CO5: Understand the awareness of Money laundering.
38	17UAFAL409	ALC: Entrepreneurship and Small Business Management	CO1: Understand the Concept of entrepreneur. CO2:Gain knowledge in theories of motivation and entrepreneurial behavior. CO3: Understand the vital role of women entrepreneur for rural development. CO4: Acquire knowledge on the concept of small scale industries.

			CO5: Familiar with Project Formulation and Project Feasibility
39	17UAFAL509	ALC : PERFORMANCE MANAGEMENT	CO1:Remember the overview of performance management. CO2:Understand the theory of performance management. CO3:Know about the mechanics of performance management planning and documentation. CO4:Evaluate the methods of performance appraisal. CO5:Gain Exposure on feedback of appraisal.
40	17UAFAL510	ALC : BUSINESS ANALYSIS	CO1: Remember the concept of business analysis. CO2: Know about Strategy analysis. CO3: Acquire knowledge on Investigation techniques. CO4:Understand the knowledge on Stakeholder analysis and management. CO5: Gain Exposure on business process and business Architecture.

Name of the Department: Professional Accounting

Name of the Programme: B.Com(PA)

Programme outcome (PO):

At the end of the programme, students will be able to:

Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.

Effective Citizenship: Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.

Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.

Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context sociotechnological changes

Programme Specific Outcome (PSO):

At the end of the programme, students will be equipped with the Knowledge in:

1. The field of accounting, auditing and reporting.
2. Professional ethics and legal compliance.
3. Applying appropriate digital technologies.

S. No	Course Code	Course Name	Course Outcome
1	17UAGCT101	Core-I Financial Accounting-I	<p>CO 1: Remember the accounting concepts and conventions.</p> <p>CO 2: Understand about subsidiary books and Errors Rectification.</p> <p>CO 3: Gain knowledge on final accounts and Bank Reconciliation Statement.</p> <p>CO 4: Analyze the bill of exchange and Average due date and Account current.</p> <p>CO 5: Gain exposure the final accounts of Non Trading Concerns.</p>
2	17UAGCT102	Core-II Mercantile Law	<p>CO1: Remember the Indian Contract Act, 1972.</p> <p>CO2: Understand the various modes in Discharge of Contract.</p> <p>CO3: Gain exposure on Principal and Agent.</p> <p>CO4: Familiarize with the Indian Partnership Act, 1932.</p> <p>CO5: Exhibit exposure in Sale of Goods Act, 1930</p>

3	17UAGCT201	Core-III: Financial Accounting-II	<p>CO1: Remember the accounting Procedure for Consignment.</p> <p>CO2: Understand the accounting methods for Depreciation.</p> <p>CO3: Acquire knowledge about Hire Purchase and Installment System of Accounting.</p> <p>CO4: Gain Exposure on Accounting Treatment for Admission, Retirement and Death of a Partner.</p> <p>CO5: Enrichment about Dissolution and Insolvency of Partnership.</p>
4	17UAGCP202	Core-IV :Computer Applications Practical –I (Ms- Office)	<p>CO1: Acquire knowledge on text alignment and preparation of bio-data.</p> <p>CO2: Familiarize with the preparation of Financial Statement and charts by using Ms-Excel.</p> <p>CO3: Gain exposure on presentation of slides</p> <p>CO4: Understand the preparation of employee data base and student data base.</p> <p>CO5: Gain exposure on creating an invoice for the product.</p>
5	17UAGCT301	Core-V: Corporate Accounting-I	<p>CO1: Remember the accounting procedures for Issue of shares.</p> <p>CO2: Understand the application of redemption of Preference Shares and Debentures.</p> <p>CO3: Apply the underwriting procedures for Shares and Debentures.</p> <p>CO4: Analyze the financial statements of the corporate as per accounting standards.</p> <p>CO5: Evaluate the value of goodwill and shares of company.</p>

6	17UAGCT302	Core-VI: Principles of Auditing	<p>CO1: Gain exposure about auditing and role of auditors in business.</p> <p>CO2: Exhibit exposure of the steps involved in the audit planning and audit control in the management.</p> <p>CO3: Demonstrate the knowledge of internal, external audit control and Vouching.</p> <p>CO4: Exhibit knowledge in Verification and Valuation of Assets and Liabilities.</p> <p>CO5: Analyze about various concepts of Reserves.</p>
7	17UAGCT303	Core-VII: Company Law	<p>CO1: Know the Kinds of companies.</p> <p>CO2: Acquired knowledge on Memorandum & Articles of Association.</p> <p>CO3: Enrich their knowledge in prospectus.</p> <p>CO4: Identify key managerial personnel of the company.</p> <p>CO5: Demonstrate the understanding of kinds of meetings.</p>
8	17UAGCT304	Core-VIII: Business Law Ethics and Communication	<p>CO1: Procure knowledge on Limited Liability Partnership Act.</p> <p>CO2: Understand about the computerized environment in Company Law.</p> <p>CO3: Promote the Ethical Behaviour in Business Environment</p> <p>CO4: Understand effects of pollution and Resource Depletion in business Environment</p> <p>CO5: Learn to build an innovation friendly organization.</p>

9	17UAGAT305	Allied Course III : Managerial Economics	<p>CO1: Understand the basic theories of managerial economics and decision making and forward planning.</p> <p>CO2: Identify the determinants of the utility and demand analysis.</p> <p>CO3: Understand to calculate the production analysis and cost decisions making.</p> <p>CO4: Understand the major characteristics of different market structures and the implications of the degrees of competition in a market on firms pricing and output decisions.</p> <p>CO5: Analyze the different costs in the product and study the long run and short run relationship of costs as well as of wages, interest and profit in day to day running of business.</p>
10	17UAGST306	Skill Based course-I: Human Resource Management	<p>CO1: Demonstrate an understanding of functions of Human Resource Management.</p> <p>CO2: Understand the different tools used in Forecasting and Planning Human Resource needs.</p> <p>CO3: Acquire knowledge on Recruitment and Selection process.</p> <p>CO4: Gain knowledge on employee development programs.</p> <p>CO5: Understand about incentive plan and welfare of Employees.</p>
11	17UAGNT307	Non Major Elective –I Fundamentals of Accounting	<p>CO1: Understand the basic concepts and golden rules of accounting.</p> <p>CO2: Develop the ability to use a basic accounting system.</p> <p>CO3: Acquire Knowledge about the subsidiary books.</p> <p>CO4: Understand the preparation of financial statements .</p> <p>CO5: Acquire knowledge in Bank reconciliation statement.</p>

12	17UAGCT401	Core-IX: Corporate Accounting-II	<p>CO1: Remember the accounting procedures for amalgamation and absorption methods.</p> <p>CO2: Understand the external and internal reconstruction framework of companies.</p> <p>CO3: Apply the norms and regulations of banking companies as per Banking Regulation Act.</p> <p>CO4: Analyze the financial statements of Insurance companies as per IRDA regulations.</p> <p>CO5: Evaluate the legal requirements and preparation of consolidated balance sheet of holding company.</p>
13	17UAGCT402	Core-X: Advanced Auditing and Professional Ethics	<p>CO1: Acquire knowledge in auditing of various institutions.</p> <p>CO2: Understanding the usefulness of cost audit and discuss the concepts of management audit.</p> <p>CO3: Identify knowledge about the rights and duties of company auditor.</p> <p>CO4: Demonstrate the specialized audit about various companies.</p> <p>CO5: Understand professional knowledge and ethics in auditing</p>
14	17UAGCT403	Core-XI: Corporate laws	<p>CO1: Know about Rights of Consumers and Concept of Competition Act</p> <p>CO2: Understanding the Regulation and Management of Foreign Exchange.</p> <p>CO3: Acquire knowledge on prevention and control of Pollution.</p> <p>CO4: Understanding the functions of SEBI.</p> <p>CO5: Gain knowledge on Trade Mark and Copyright</p>

15	17UAGCP404	Core-XII: Computer Applications Practical –II(Tally & C++)	<p>CO1: Prepare books of Accounts and balance sheet</p> <p>CO2: Acquire skills in computerized accounting procedures.</p> <p>CO3: Enhance the knowledge in C++.</p> <p>CO4: Apply various Accounting formulas.</p> <p>CO5: Develop and maintain Objects.</p>
16	17UAGAT405	Allied Course IV : Strategic Management and Business Policy	<p>CO1: Demonstrate the basic concepts about strategic management and strategy tactics and describe the management forces, social responsibility and social audit.</p> <p>CO2: Demonstrate the formulation that needs the classification points that need approaches makes in relation to value chain Analysis.</p> <p>CO3: Demonstrate the major approaches in BCG Matrix and corporate level generic strategies.</p> <p>CO4: Demonstrate the role of top management process and explain the key elements of a four routes of competitive advantages.</p> <p>CO5: Demonstrate the strategic evaluation of quantitative and qualitative factors and process.</p>
17	17UAGST406	Skill Based course-II: Principles of Marketing	<p>CO1: To understand the basic concept of marketing.</p> <p>CO2: Gain exposure on development of new products and pricing</p> <p>CO3: Acquire knowledge on promotion strategies.</p> <p>CO4: Acquire knowledge on Advertising the products.</p> <p>CO5: Understand the various distribution channels.</p>

18	17UAGNT407	Non Major Elective –II Practical Auditing	<p>CO1: Learn the role of auditing in business.</p> <p>CO2: Understanding the steps involved in the audit of accounts and practical implementation of auditing in business world.</p> <p>CO3: Possess knowledge on verification and valuation of various assets and liabilities.</p> <p>CO4: Familiarize with provisions of the companies act relating to the appointment, conduct and liabilities of an auditor.</p> <p>CO5: Understanding the fundamental audit concepts in Specialised Audit</p>
19	17UAGCT501	Core-XIII :Cost Accounting	<p>CO1: Remember the cost concepts and able to prepare cost sheets.</p> <p><i>CO2: Understand various levels and able to find out value of closing stock after Material issued.</i></p> <p>CO3: Apply the methods of labour turnover and system of wage payment.</p> <p>CO4: Analyse the allocation, apportionment and absorption methods.</p> <p>CO5: Evaluate the contract and process accounts.</p>
20	17UAGCT502	Core-XIV : Direct Taxes	<p>CO1: Remember the scope of income of residents.</p> <p>CO2: Understand the provisions relating to salary income and house property income.</p> <p>CO3: Apply the provisions to evaluate business and professional income.</p> <p>CO4: Analyze the deductions under gross total</p>

			<p>income.</p> <p>CO5: Evaluate the aggregate income and tax liability of individual.</p>
21	17UAGCT503	<p>Core-XV: Information System Control and Audit</p>	<p>CO1: Understand the mechanism of management information system.</p> <p>CO2: Evaluate the process of System Development Life Cycle.</p> <p>CO3: Gain knowledge about IS Auditor and process.</p> <p>CO4: Acquire knowledge in IRDA and its function.</p> <p>CO5: Evaluate the system of Emerging Technologies.</p>
22	17UAGCT504	<p>Core-XVI: Organisational Behaviour</p>	<p>CO1: Remember the theories of Organizational Behaviour.</p> <p>CO2: Understand the concept of Perception, motivation and morale.</p> <p>CO3: Gain knowledge about Attitudes and Values.</p> <p>CO4: Analyze the Group dynamics and Group behaviour.</p> <p>CO5: Evaluate the Leadership style and types of Counselling.</p>
23	17UAGET505	<p>Elective-I Cyber Law</p>	<p>CO1: Remember the basic provisions of law in E Commerce.</p> <p>CO2: Understand the legal provisions relating to Data Security.</p> <p>CO3: Apply the procedures of evidence in laws.</p> <p>CO4: Analyze the various kinds of EDI Mechanism.</p> <p>CO5: Evaluate the process of e-governance and</p>

			its authentication.
24	17UAGET506	Elective-I – Investment Management	<p>CO1: Gain knowledge of investments.</p> <p>CO2: Analyze the various kinds of risk and returns of investments.</p> <p>CO3: Enrich their knowledge of investment alternatives.</p> <p>CO4: Acquire knowledge of Investment Company, venture capital and merchant banking.</p> <p>CO5: Familiarize with financial derivatives.</p>
25	17UAGET507	Elective-I Business Management	<p>CO1: Understand the basic principles and theories of management.</p> <p>CO2: Gain knowledge on planning and decision making.</p> <p>CO3: Acquire knowledge on organization and delegation of authorities.</p> <p>CO4: Familiarize with direction and supervision of management.</p> <p>CO5: Evaluate the need of co-ordination and controlling techniques.</p>
26	17UAGST508	Skill Based course-III: Corporate Communication	<p>CO1: Comprehend about knowledge of communication.</p> <p>CO2: Remember the principles of communication.</p> <p>CO3: Understand the objectives of brand promotion.</p> <p>CO4: Perceive the different types of reports.</p>

			CO5: Gain exposure in presentation.
27	17UAGCT601	Core-XVII :Management Accounting	CO1: Understand the Management accounting concepts and its purpose. CO2: Analyse the various types of ratios. CO3: Evaluate the Concept of working capital. CO4: Remember the marginal costing techniques. CO5: Apply the knowledge acquired for preparation of Budgets.
28	17UAGCT602	Core-XVIII: Indirect Taxes	CO1: Remember the nature of taxation system in India. CO2: Understand the strength, threats, opportunities and challenges of GST. CO3: Apply the GST law comprehensively in a concise manner. CO4: Analyze the liabilities and input tax credit adjustments in filing GST returns. CO5: Evaluate the e-way bills in a clear and lucid manner.
29	17UAGCT603	Core-XIX: Financial Management	CO1: Acquire knowledge in financial management. CO2: Understand the principles of sound financial plan. CO3: Evaluate the concept of cost of capital. CO4: Familiarize with leverage and capital structure.

			CO5: Gain exposure on management of cash, receivables and inventories.
30	17UAGET604	Elective-II – Financial Reporting	CO1: Understand the Purpose and Importance of Financial Reporting. CO2: Familiarize with the Compliance of Accounting Standards. CO3: Acquire knowledge about financial statement. CO4: Gain exposure on Analysing and Interpreting the Financial Statements CO5: Understand the Advantages of Adopting IFRS.
31	17UAGET605	Elective-II – Security Analysis and Portfolio Management	CO1: Understand the basic concept of financial market. CO2: Gain knowledge of stock exchange regulations. CO3: Remember the techniques of analysis. CO4: Evaluate the process of portfolio management. CO5: Gain exposure on portfolio revision.
32	17UAGET606	Elective-II Entrepreneurial Development	CO1: Remember the concept and growth of entrepreneurship in India. CO2: Understands the course content and curriculum of EDPs. CO3: Apply the characteristics relationship between Micro and Macro enterprises. CO4: Analyze the Institutional Support to small Entrepreneurs. CO5: Evaluate the Export Business and

			processing of an export order.
33	17UAGET607	Elective-III - International Business	<p>CO1: Remember the concepts of international business.</p> <p>CO2: Understand the procedures and policies of foreign trade.</p> <p>CO3: Know about intergovernmental organisation that regulates international trade.</p> <p>CO4: Evaluate the implications of international marketing and its promotional strategies.</p> <p>CO5: Gain Exposure on International financial management.</p>
34	17UAGET608	Elective-III - Logistics Management	<p>CO1: Remember the overview and role of logistics.</p> <p><i>CO2: Understand the concept of containers and its types.</i></p> <p>CO3: Apply Liner Consortium agreements.</p> <p>CO4: Analyse about air cargo business.</p> <p>CO5: Evaluate the trends and technology in logistics.</p>
35	17UAGET609	Elective-III – Office Management	<p>CO1: Understand the principles of office management.</p> <p>CO2: Remember the importance of office Layout.</p> <p>CO3: Know about filing system and methods.</p> <p>CO4: Analyze and apply communication system.</p> <p>CO5: Evaluate the office forms and Reports.</p>

36	17UAGST610	Skill Based course-IV: Banking and Insurance Law	<p>CO1: Understand the basic concepts of banking and functions of RBI.</p> <p>CO2: Realize the relationship between banker and customer and understand the various types of accounts.</p> <p>CO3: Understand the various types of customers.</p> <p>CO4: Gain knowledge on Insurance System.</p> <p>CO5: Evaluate the IRDA and its function.</p>
37	17UAGAL408	ALC :Accounting And Finance	<p>CO1: Understand the basic accounting functions and classification of accounts.</p> <p>CO2: Know the leasing formalities and status of lessor and lessee.</p> <p>CO3: Understand the knowledge about responsibility accounting and inflation accounting.</p> <p>CO4: Acquire knowledge about scope and functions of Finance and Financial Managers role</p> <p>CO5: Gain knowledge about the value of money and present value of Cash Flow.</p>
38	17UAGAL409	ALC: International Trade	<p>CO1: Understand the nature and scope of international trade.</p> <p>CO2: Gain knowledge on the effect of growth of trade and welfare of small and large country.</p> <p>CO3 Acquire knowledge on Dumping and its effects.</p>

			<p>CO4 Gain exposure on foreign exchange market and control measures.</p> <p>CO5 Understand the International Liquidity and its trend.</p>
39	17UAGAL509	ALC :Database Management System	<p>CO1: Cognize with the basic concepts of DBMS.</p> <p>CO2: Perceive the different types of ER Models and Files.</p> <p>CO3: Acquire Knowledge on Normal forms.</p> <p>CO4: Gain Exposure in Database security.</p> <p>CO5 : Comprehend about Knowledge Base Management System</p>
40	17UAGAL510	ALC :Production And Material Management	<p>CO1: Understand the Functions of Production Management.</p> <p>CO2: Analyse the various Production Planning and Control</p> <p>CO3: Gain Knowledge about Material Handling.</p> <p>CO4: Familiarize with Inventory and Tools.</p> <p>CO5: Acquire Knowledge of Quality Control.</p>

Name of the Department: Commerce CA

Name of the Programme: B.Com (CA)

Programme outcome (PO):

At the end of the programme, students will be able to:

§ PO1 Critical Thinking:

Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and

valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.

§ PO2 Effective Communication:

Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

§ PO3 Social Interaction:

Elicit views of others, mediate disagreements and help reach conclusions in group settings.

§ PO4 Effective Citizenship:

Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.

§ PO5 Ethics:

Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

§ PO6 Environment and Sustainability:

Understand the issues of environmental contexts and sustainable development.

§ PO7 Self-directed and Life-long Learning:

Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcome (PSO):

At the end of the programme, students will be equipped with the Knowledge in:

1. The field of Business and Commerce.
2. Mathematical, analytical and statistical tools for Financial and Accounting analysis.
3. Process information by effective use of IT tools.

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17UAECT101	CORE I: Financial Accounting I	CO1: Remember the basic concepts of accounting. CO2: Understand the preparation of Subsidiary Books. CO3: Apply the format of Final Accounts. CO4: Analyse the features of Bill of Exchange. CO5: Evaluate the preparation of Final Accounts of Non Trading Concerns.
2	17UAECT102	CORE II: Introduction to Information Technology	CO1: Remember the basics of computer systems. CO2: Understand about data and information. CO3: Apply the techniques in problem solving and programming. CO4: Analyze the functions and types of

			operating system. CO5: Evaluate the concepts of networking.
3	17UAECP202	CORE IV: Computer Applications in Business: Practical-I (MS Office)	CO1: Remember the basic Ms-Office tools. CO2: Understand the various operations in Ms-Word. CO3: Apply various formulas using Ms-Excel. CO4: Analyse the different types of charts in Ms-Excel. CO5: Evaluate the various presentation slides using MS - Power point.
4	17UAECT201	CORE III: Financial Accounting II	CO1: Remember the concepts of Consignment. CO2: Understand the various methods of Depreciation. CO3: Apply the various interest calculations in Hire Purchase and Installment system. CO4: Analyse the concepts of Partnership Accounts. CO5: Evaluate the Procedure for Dissolution of Partnership Firm.
5	17UAECP202	CORE IV: Computer Applications in Business: Practical-I (MS Access & Tally)	CO1:Remember the concepts of MS-Access CO2:Understand the creation of database CO3: Apply the queries and labels of various database. CO4: Analyze the final accounts of companies using Tally. CO5: Evaluate the Inventory statement using Tally.
6	17UAECT301	Core V – Principles of Marketing	CO1: Remember the basic principles of marketing. CO2: Understanding the modern marketing ethics. CO3: Apply the product policies for product planning and development. CO4: Analyze the concepts of sales promotion, personal selling and advertising. CO5: Evaluate the role of Government in consumer protection.

7	17UAECT302	Core VI – Database Application	CO1: Remember the concepts of databases. CO2: Understand the fundamentals of database models. CO3: Apply the various operations in SQL. CO4: Analyze the various commands in QBE to develop a database. CO5: Evaluate the file techniques and clustering.
8	17UAECT303	Core VII – Cost Accounting	CO1: Remember the basics of cost accounting CO2: Understand the techniques of inventory control. CO3: Apply the various methods in calculation of labour cost. CO4: Analyze the various distribution of overheads CO5: Evaluate the principles used in process, contract and operating costing.
9	17UAECT304	Core VIII - Financial Markets and Services	CO1: Remember the various financial products, services and strategies offered by various institutions. CO2: Understand the importance of money market. CO3: Apply the knowledge of various capital market operations. CO4: Analyze the innovative financial services and instruments. CO5: Evaluate the performance of mutual funds and venture capital.
10	17UAEAT305	Allied III - Managerial Economics	CO1: Remember the economic principles for management decisions. CO2: Understand the elasticity of demand and demand forecasting. CO3: Apply the concepts of production function and cost analysis. CO4: Analyze the competition strategies and pricing methods in market. CO5: Evaluate the concept of national income and implications of the business cycle.

11	17UAECP404	Core XII - Computer Applications in Business: Practical-II (Oracle)	CO1: Remember the various SQL commands in table creation. CO2: Understand the use of different data constraints. CO3: Apply the aggregate functions in SQL. CO4: Analyze the SQL clauses using commands. CO5: Evaluate the various queries using SQL commands.
12	17UAEST306	Skill based Subject-1 : Business Law	CO1: Remember the fundamentals of Contract Act CO2: Understand the performance of contract. CO3: Apply the various provisions of sale of goods act. CO4: Analyze the rules relating to carriage of goods CO5: Evaluate the nature of LLP.
13	17UAECT401	Core IX – Management Accounting	CO1: Keep in mind the difference in financial, cost and management accounting. CO2: Get an idea about the analysis of various ratios. CO3: Apply the working capital concepts in real business. CO4: Analyze the applications of marginal costing. CO5: Figure out the various types of budgets and variance analysis in planning and decision making.
14	17UAECT402	Core X – Object Oriented Programme with C++	CO1: Remember the basic concepts of C++. CO2: Understand the control structures and arrays in application development. CO3: Apply the functions and argument using class. CO4: Analyze the concept of operator overloading and inheritance. CO5: Evaluate the file commands and streams.

15	17UAECT403	Core XI – Business Communication	CO1: Remember the concepts and principles of effective business communication. CO2: Understand how to write business letters and improve written communication. CO3: Apply the letter writing techniques in Banking and Insurance Correspondence. CO4: Categorize the Company Secretarial Correspondence and E-Communication. CO5: Construct the application letters and conduct interviews.
16	17UAECP404	Core XII - Computer Applications in Business: Practical-II (C++)	CO1: Remember the basic function definition using class. CO2: Understand the concept of nesting of functions. CO3: Apply the control structures to make decision and looping. CO4: Analyze the types of inheritance and operator overloading. CO5: Evaluate the file commands.
17	17UAEAT405	Allied IV: Principles of Management	CO1: Recollect the general framework and understand the key functions of management as applied in practice. CO2: Understand the importance of planning and decision making. CO3: Apply the principles of sound Organization CO4: Execute the theories in management. CO5: Evaluate the techniques of co-ordination and control
18	17UAEST406	Skill based Subject-2: Company Law	CO1: Remember the concepts about company and its promoters under companies' act 2013. CO2: Understand the various documents maintained under companies' act 2013. CO3: Apply the procedures relating to company securities. CO4: Analyze the duties and powers of directors. CO5: Evaluate the various types of company meetings.

Name of the Department: Commerce CA

Name of the Programme: M.Com (CA)

Programme outcome (PO):

At the end of the programme, students will be able to:

§ PO1 Critical Thinking:

Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.

§ PO2 Effective Communication:

Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

§ PO3 Social Interaction:

Elicit views of others, mediate disagreements and help reach conclusions in group settings.

§ PO4 Effective Citizenship:

Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.

§ PO5 Ethics:

Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

§ PO6 Environment and Sustainability:

Understand the issues of environmental contexts and sustainable development.

§ PO7 Self-directed and Life-long Learning:

Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcome (PSO):

At the end of the programme, students will be equipped with the Knowledge in:

1. Financial and money markets for making investment decisions.
2. Database Management, Software Development and web designing for effective computerization of business.
3. Understand required accounting packages for Financial and Accounting analysis.

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17PBBCT101	Core I: Managerial Economics	CO1: Remember the nature and scope of managerial economics. CO2: Understand the Utility concept. CO3: Apply the demand and supply function. CO4: Analyse the production and cost analysis.

			CO5: Evaluate the market situation under various competitions.
2	17PBBCT102	Core II: Marketing Management	CO1: Remember the basic concepts of marketing. CO2: Understand the key drivers of marketing strategies. CO3: Apply the marketing mix decisions to satisfy the consumer needs. CO4: Analyze the need for understanding consumer behaviour. CO5: Evaluate the concepts and applications of marketing research.
3	17PBBCT103	Core III: Data Base Management System	CO1: Remember the basic concepts of databases. CO2: Understand the SQL components and queries CO3: Apply the various normalization techniques CO4: Analyze the transactions and protocols CO5: Evaluate the key elements and distributed query processing
4	17PBBCT104	Core IV: Computer Applications in Business: Practical I (Oracle)	CO1: Remember the basic concepts of SQL CO2: Understand the creation of table and values CO3: Apply the various commands in the database. CO4: Analyze the table structure. CO5: Evaluate the various queries
5	17PBBET105	Services Marketing	CO1: Remember the economic policies of Indian Service sector CO2: Understand the concept of Service Marketing CO3: Apply Marketing mix in service sector CO4: Analyse the key service areas. CO5: Evaluate service quality

6	17PBET106	Financial Markets and Institutions	<p>CO1: Understand the concept of Indian Financial System and money market instruments.</p> <p>CO2: Remember the various capital market instruments.</p> <p>CO3: Analyse the various Financial Services Institutions.</p> <p>CO4: Recollect the phenomenon of depositary services.</p> <p>CO5: Evaluate the functions of development banks.</p>
7	17PBET107	Principles of International Trade	<p>CO1: Remember the concepts of International Trade.</p> <p>CO2: Understand the terms and conditions of the International Trade.</p> <p>CO3: Apply the various Import and Export Tariffs and Taxes.</p> <p>CO4: Analyze the types of Foreign Investment.</p> <p>CO5: Evaluate the importance of Globalization.</p>
8	17PBET108	Designing using Corel draw	<p>CO1: Remember the basic concepts of CorelDraw.</p> <p>CO2: Understand the various tools in CorelDraw.</p> <p>CO3: Apply the colors and images, manipulating objects.</p> <p>CO4: Analyze the color models and multicolor fill.</p> <p>CO5: Evaluate previewing documents and web designs, image maps.</p>
9	17PBCT201	Core V: Advanced Corporate Accounting	<p>CO1: Remember the basic concepts of Insurance company accounts.</p> <p>CO2: Understand the accounting treatment for Non-Performing assets in Banking accounts.</p> <p>CO3: Apply the legal requirement relating to the presentation of accounts of Holding company and its subsidiaries.</p> <p>CO4: Analyse the various methods of Amalgamation.</p> <p>CO5: Evaluate the emerging accounting practices.</p>

10	17PBBC202	Core VI: Human Resource Management	<p>CO1: Remember the importance of human resources and their effective management in organizations.</p> <p>CO2: Understand the requirements of the recruitment and selection process.</p> <p>CO3: Apply the training and development needs for the 21st century.</p> <p>CO4: Analyse the different techniques involved in the performance appraisal process and compensations.</p> <p>CO5: Evaluate Employee relations and Industrial disputes.</p>
11	17PBBC203	Core VII: Research Methodology	<p>CO1: Remember the basic concepts of Research.</p> <p>CO2: Understand the various steps in research design.</p> <p>CO3: Apply the sources of data collection in research.</p> <p>CO4: Analyse the different types of statistical packages in Research.</p> <p>CO5: Evaluate the research report.</p>
12	17PBBC204	Core VIII: Computer Applications in Accounting	<p>CO1: Remember the applications of IT in business activities.</p> <p>CO2: Understand the features of Tally.</p> <p>CO3: Apply procedures involved in the company creation.</p> <p>CO4: Analyze the inventory system reports in Tally.</p> <p>CO5: Evaluate the Value Added Tax (VAT) configuration in Tally.</p>
13	17PBBCP205	Core IX: Computer Applications in Business: Practical-II (Tally)	<p>CO1: Recollect the basic concepts in Company creation in Tally.</p> <p>CO2: Understand the voucher entry methods in Tally.</p> <p>CO3: Apply the Cash Flow and Fund Flow statements to know the company status.</p> <p>CO4: Analyze the performance of an organization using ratio.</p> <p>CO5: Execute the inventory system and budgets.</p>

14	17PBBET206	Financial Services	<p>CO1: Understand the Indian financial system.</p> <p>CO2: Recollect the working of leading stock exchanges in India.</p> <p>CO3: Get the knowledge about bank assurance and various card based services.</p> <p>CO4: Analyse the various insurance services offered.</p> <p>CO5: Evaluate benefit of real estate investment.</p>
15	17PBBET207	Indian Stock Exchanges	<p>CO1: Remember the origin and growth of stock exchanges.</p> <p>CO2: Understand the Stock Exchange Regulatory Framework.</p> <p>CO3: Recollect the procedures for listing of securities.</p> <p>CO4: Analyse the objectives, powers and functions of SEBI.</p> <p>CO5: Evaluate the stock index futures.</p>
16	17PBBET208	Export and Import Procedure	<p>CO1: Remember the concepts and rules for Export Business.</p> <p>CO2: Understand the different categories of exporters.</p> <p>CO3: Apply the exercise procedure and prepare export documents.</p> <p>CO4: Analyse the various laws of Import trade in India.</p> <p>CO5: Evaluate the RBI's directives for making payments of Imports.</p>
17	17PBBET209	Working with Photoshop	<p>CO1: Remember the shapes and bitmaps in Photoshop.</p> <p>CO2: Understand the working and channels.</p> <p>CO3: Apply the various tools and shapes.</p> <p>CO4: Analyze the composite images and animated gifs.</p> <p>CO5: Evaluate the elements and print options.</p>
18	17PBBCT301	Core X: Financial Management	<p>CO1: Remember the concepts and tools of finance.</p> <p>CO2: Understand the importance of cost of capital and capital budgeting techniques.</p> <p>CO3: Apply the capital structure theories to determine capital structure.</p> <p>CO4: Analyze the relationship between</p>

			dividend theories and market price. CO5: Evaluate the determinants of working capital.
19	17PBCT302	Core XI: Cost and Management Accounting	CO1: Keep in mind the difference in financial, cost and management accounting. CO2: Understand the various types of calculation of labour cost and overheads. CO3: Get an idea about the analysis of various ratios and to understand the flow of fund and cash operations. CO4: Apply the various budgeting techniques in real business. CO5: Create optimum production plan of a business using marginal costing applications.
20	17PBCT303	Core XII: Visual Basic	CO1: Remember the fundamental concepts of Visual Basic. CO2: Understand the various objects in Integrated Development Environment. CO3: Apply the procedures and functions for developing visual basic program. CO4: Design program using grid controls and interfaces. CO5: Choose appropriate database programming and data reports.
21	17PBCT304	Core XIII: Computer Applications in Business: Practical-III (Visual Basic)	CO1: Recollect the fundamental concepts of Visual Basic programming. CO2: Understand the significance of Visual Basic programming for software development. CO3: Implement the integration of back end with front end tool using ADO control. CO4: Analyze flex grid and common controls in database environment. CO5: Execute the various control structures to create application software.
22	17PBCT305	Marketing of Health Services	CO1: Remember the marketing plans for service organization. CO2: Understand the trends in Medicare marketing. CO3: Apply the marketing mix in a service environment. CO4: Explain the online health services. CO5: Evaluate the legal system for marketing

			of health services.
23	17PBEBT306	Futures and Options	<p>CO1: Remember the fundamentals of derivatives market in India.</p> <p>CO2: Understand the concept of Index and its significance.</p> <p>CO3: Apply the rates and nature of contracts.</p> <p>CO4: Analyse the pay off of futures and options.</p> <p>CO5: Evaluate the trading methodologies of various exchanges.</p>
24	17PBEBT307	Institutions Facilitating International Trade	<p>CO1: Remember the basic functions and promotions of Export in India.</p> <p>CO2: Understand the role of RBI and other commercial banks in export.</p> <p>CO3: Identify the WTO agreements, objectives and procedures.</p> <p>CO4: Analyze the IMF guidelines for the International trade.</p> <p>CO5: Evaluate the procedures for availing membership and assistance from financial corporation.</p>
25	17PBEBT308	Web Designing	<p>CO1: Remember the basic terms and concepts used in Internet and Web Designing.</p> <p>CO2: Understand the internet applications and its features.</p> <p>CO3: Apply the fundamentals of web designing in website development.</p> <p>CO4: Analyze the content planning and developing tactics.</p> <p>CO5: Evaluate the web authoring tools and its features</p>
26	17PBEBT401	Core XIV: Investment Management	<p>CO1: Keep in mind the basics of investment.</p> <p>CO2: Understand the alternative forms of investment.</p> <p>CO3: Implement the SEBI guidelines in primary and secondary market.</p> <p>CO4: Analyze the sources of information and economic indicators.</p> <p>CO5: Review the investor education and protection fund.</p>

27	17PBBC402	Core XV: Direct Taxes	<p>CO1: Reminisce the basic terms and concepts used in direct tax.</p> <p>CO2: Understand the elements relating to income from salary and house property.</p> <p>CO3: Deploy skills in computation of income from business or profession, capital gains and other sources.</p> <p>CO4: Figure out expertise knowledge in assessment of income and deductions out of gross total income.</p> <p>CO5: Selection of ITR forms and filing of returns.</p>
28	17PBBC403 Core XVI: Java Programming	17PBBC403 Core XVI: Java Programming	<p>CO1: Remember the design and concept of java programming.</p> <p>CO2: Understand the decision making in java programmes.</p> <p>CO3: Apply the various dimensional arrays and interfaces in programming.</p> <p>CO4: Analyze the use of thread concept and its methods.</p> <p>CO5: Evaluate the applet programming and file handling.</p>
29	17PBBCP404	Core XVII: Computer Applications in Business: Practical-IV (Java Programming)	<p>CO1: Remember the basic concepts of the Java programming.</p> <p>CO2: Understand the knowledge of creating own business application packages.</p> <p>CO3: Implement the programs for generating a solution in real life problems.</p> <p>CO4: Interpret the concepts to produce output.</p> <p>CO5: Figure out the results in risky tasks.</p>
30	17PBBC405	Travel and Hospitality Services	<p>CO1: Remember the concept of tourism and its nature.</p> <p>CO2: Understand the concept of tourism in marketing segments.</p> <p>CO3: Apply the marketing mix in tourism service.</p> <p>CO4: Analyze the various hospitality services.</p> <p>CO5: Figure out the marketing information system for product planning and development in services industry.</p>

31	17PBET406	Fundamental and Technical Analysis	<p>CO1: Recollect the nature of risk and return.</p> <p>CO2: Understand the various analyses.</p> <p>CO3: Apply analysis methods for industry and company.</p> <p>CO4: Analyse various theories of technical analysis.</p> <p>CO5: Evaluate the tools for technical analysis.</p>
32	17PBET407	International Trade	<p>CO1: Remember the salient features of foreign trade policy.</p> <p>CO2: Understand the implications of foreign trade policy.</p> <p>CO3: Apply the various export services and promotion measures.</p> <p>CO4: Analyze the Law of protection of Intellectual Property Rights, Patents and Trademarks.</p> <p>CO5: Evaluate the trade performances and determinants of Export and Import.</p>
33	17PBET408	Cyber Security	<p>CO1: Remember the concepts of cyber crime and IT act 2000.</p> <p>CO2: Understand the Laws related to Cyber Society.</p> <p>CO3: Analyze and assess the impact of cybercrime on government, businesses, individuals and society.</p> <p>CO4: Evaluate the effectiveness of cyber-security and cyber-laws.</p> <p>CO5: Investigate assumptions about the behaviour and role of offenders and victims in cyberspace, and use basic web-tools to explore behaviour on-line.</p>
34	17PBBCV409	Core XVIII: Project Work	<p>CO1: Formulate the Research Project with aims and goals.</p> <p>CO2: Interpret the major problems and obstacles to overcome in completing project.</p> <p>CO3: Identify project methodology and project milestones.</p> <p>CO4: Conduct a thorough literary survey for research project and write a report and presentation.</p> <p>CO5: Construct the project by implementing the methodology.</p>

(2018-2019)

Name of the Department: MATHEMATICS

Name of the Programme: B.Sc

Programme outcome (PO):

PO1 Critical Thinking:

Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.

PO2 Effective Communication:

Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO3 Social Interaction:

Elicit views of others, mediate disagreements and help reach conclusions in group settings.

PO4 Effective Citizenship:

Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.

PO5 Ethics:

Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO6 Environment and Sustainability:

Understand the issues of environmental contexts and sustainable development.

PO7 Self-directed and Life-long Learning:

Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcome (PSO):

1. Developing analytical skills, attitude, critical thinking and searching for conclusions to the problems arising from complicated structures.
2. Attaining a rigorous and intellectual pursuit which helps to find patterns and structure.
3. Strengthening the high level of employability and higher education.

S.No.	Course Code	Course Name	Course Outcome (CO) On successful completion of the course, the students will be able to
1	17UANCT101	CORE PAPER – I ALGEBRA AND TRIGONOMETRY	CO1 solve infinite series using Binomial theorems . CO2 solve infinite series by using Exponential and Logarithmic series theorem. CO3 know about the basics of convergency. CO4 apply different tests for convergency. CO5 expand trigonometric and hyperbolic functions.

2	17UANCT102	CORE PAPER – II DIFFERENTIAL AND INTEGRAL CALCULUS	CO1 know about the curvature and radius of curvature. CO2 evaluate different types of integrals. CO3 apply reduction formulae. CO4 evaluate double and triple integrals. CO5 solve improper and multiple integrals.
3	17UANCT201	CORE PAPER – III ANALYTICAL GEOMETRY	CO1 solve problems relating to plane. CO2 solve problems relating to lines. CO3 solve problems relating to sphere. CO4 solve problems relating to cone. CO5 solve problems relating to cylinder and study about conicoids.
4	17UANCT202	CORE PAPER – IV THEORY OF EQUATIONS, VECTOR CALCULUS AND FOURIER SERIES	CO1 find roots of an algebraic equation . CO2 understand concepts regarding roots. CO3 know the basics of vectors. CO4 do vector integration using standard theorems. CO5 solve problems using Fourier series .
5	17UANCT301	CORE PAPER – V DIFFERENTIAL EQUATIONS AND LAPLACE TRANSFORMS	CO1 solve the first degree equation of the Bernoulli and Clairaut's equation CO2 solve homogenous and non-homogenous differential equations CO3 find the complete solution of a PDE with constant coefficients CO4 explain the concepts of Laplace Transform and its properties CO5 solve the differential equations using Inverse Laplace Transform.
6	17UANCT302	CORE PAPER – VI DISCRETE MATHEMATICS	CO1 understand the concepts of Mathematical Logic and Normal Forms CO2 explain the Predicate Calculus and Theory of Inference CO3 construct the Grammar and its Language. CO4 design the Finite State Machine CO5 identify Lattices and Boolean functions.
7	17UANAT303	ALLIED PAPER – III STATISTICS FOR MATHEMATICS - I	CO1 understand the basic concepts of probability and axioms CO2 distinguish the various distributions CO3 illustrate the expectation and variance of various distributions CO4 analyse Moments and Characteristic functions CO5 discuss various theoretical distribution.

8	17UANSP304	<p>SKILL BASED SUBJECT :</p> <p>R - THE STATISTICAL PROGRAMMING LANGUAGE</p>	<p>CO1 find measures of central tendency and measures of dispersion</p> <p>CO2 determine various parameters of theoretical distributions</p> <p>CO3 solve the statistic 't' by constructing hypothesis</p> <p>CO4 determine the Correlation and Regression Coefficients</p> <p>CO5 solve the statistical hypothesis by Chi - Square Test.</p>
9	17UANCT401	<p>CORE PAPER – VII</p> <p>MECHANICS</p>	<p>CO1 tell the basic principles of forces and its resultant</p> <p>CO2 outline the difference between like and unlike parallel forces</p> <p>CO3 describe the basic principles of friction and centre of gravity</p> <p>CO4 determine the velocity of the projectiles in magnitude , direction and range</p> <p>CO5 analyse the basic of laws of impact spheres</p>
10	17UANCT402	<p>CORE PAPER -VIII</p> <p>OPERATIONS RESEARCH</p>	<p>CO1 write the canonical and standard forms of Linear Programming Problem</p> <p>CO2 solve the Linear Programming Problem by various methods</p> <p>CO3 distinguish between transportation and assignment problems</p> <p>CO4 discuss various types of costs involved in inventory management and finding EOQ</p> <p>CO5 construct a network diagram and find the critical path and PERT.</p>
11	17UANAT403	<p>ALLIED PAPER – IV</p> <p>STATISTICS FOR MATHEMATICS - II</p>	<p>CO1 explain the concept of Correlation.</p> <p>CO2 solve the Regression lines and know about curve Fitting .</p> <p>CO3 describe various Estimators and their properties.</p> <p>CO4 understand Maximum Likelihood Estimators , Minimum Chi Square Estimators and Confidence Intervals .</p> <p>CO5 able to understand some concepts of large and small samples.</p>

12	17UANSP404	SKILL BASED SUBJECT : INTRODUCTION TO SCIENTIFIC COMPUTING - OCTAVE	CO1 solve various matrix manipulations and system of linear equations CO2 plot 2D and 3D graphs CO3 examine the palindrome string CO4 solve algebraic equations by using bisection and iterative methods CO5 solve the first and second order ordinary differential equations.
13	17UANCT501	Core Paper – IX REAL ANALYSIS-I	CO1 explain the concepts of real numbers. CO2 discuss the notation and terminology of set theory. CO3 explain about the sets of points in higher dimensional space. CO4 explain the concept of a covering of a set. CO5 discuss the limits and continuity.
14	17UANCT502	Core Paper – X COMPLEX ANALYSIS-I	CO1 develop the basic algebraic and geometric properties of the complex number system. CO2 explain the concepts of limit and continuity for functions of a complex variable. CO3 find the derivative for functions of complex variable and the geometric consequences of the existence of the derivatives. CO4 explain the concepts of various bilinear transformations. CO5 explain the concept of power series.
15	17UANCT503	Core Paper – XI ABSTRACT ALGEBRA	CO1 know about the properties of a Group. CO2 distinguish various types of groups. CO3 construct the mappings and define the properties of rings. CO4 discuss the concept of morphisms in rings. CO5 analyze Ideals and homomorphisms of rings.
16	17UANCT504	Core Paper – XII PROGRAMMING IN C	CO1 know about the basic structure of C programming. CO2 distinguish various types of operators and expressions in C. CO3 discuss about various I/O operators and decision making statements.

			<p>CO4 discuss the concept of looping statements and arrays.</p> <p>CO5 apply character arrays, strings and structures.</p>
17	17UANEP505	Elective –I RDBMS and ORACLE PRACTICAL	<p>CO1 create tables and writing simple queries.</p> <p>CO2 update and alter tables using SQL.</p> <p>CO3 create report and data base trigger .</p> <p>CO4 write PL/SQL blocks, split and join tables.</p> <p>CO5 find the total, average marks and results .</p>
18	17UANEP506	Elective –I PROGRAMMING IN C PRACTICAL	<p>CO1 find mean, median, mode and fibonacci numbers and solve quadratic equations.</p> <p>CO2 sort a set of numbers and names and prepare pay list.</p> <p>CO3 find factorial value of number and product of two matrices.</p> <p>CO4 illustrate the comparison of structure variables.</p> <p>CO5 copy one string into another and count the number of characters copied.</p>
19	17UANEP507	Elective –I VISUAL BASIC PRACTICAL	<p>CO1 sort list of numbers, find smallest of n numbers and select any one from a list.</p> <p>CO2 create a project that displays the current date and time and timer control</p> <p>CO3 convert temperature scale.</p> <p>CO4 find factorial value of number and illustrate the usage of scroll bars.</p> <p>CO5 illustrate the usage of input boxes and find the sine of an angle.</p>
20	17UANST508	Skill Based Subject III MATHEMATICS FOR COMPETITIVE EXAMINATIONS	<p>CO1 understand the concepts of Problems on Number and Ages.</p> <p>CO2 know and solve problems on the Surds, Indices and Percentage .</p> <p>CO3 find the Profit, Loss, Ratio and Proportion</p> <p>CO4 understand and solve the Partnership and Chain Rule problems.</p> <p>CO5 solve the Time and Work , Pipes and Cistern problems.</p>

21	17UANCT601	Core Paper – XIII REAL ANALYSIS-II	<p>CO1 discuss about continuous functions.</p> <p>CO2 explain the concept of connectedness and its relation to continuity.</p> <p>CO3 discuss briefly the concept of differential calculus.</p> <p>CO4 discuss derivatives of complex valued functions.</p> <p>CO5 study the process of integration in different way.</p>
22	17UANCT602	Core Paper – XIV COMPLEX ANALYSIS-II	<p>CO1 explain the properties of bilinear transformations.</p> <p>CO2 develop the theory of integration for complex functions.</p> <p>CO3 find the functions using Taylor's series and Laurent's series .</p> <p>CO4 explain the concept of singular points of a functions.</p> <p>CO5 evaluate definite integral using Cauchy's residue theorem</p>
23	17UANCT603	Core Paper – XV LINEAR ALGEBRA	<p>CO1 know about the concept of a vector space.</p> <p>CO2 analyze basis, dimension and matrix of a linear transformation.</p> <p>CO3 construct an inner product space.</p> <p>CO4 discuss the types of matrices and their transformations.</p> <p>CO5 calculate the rank of a matrix, characteristic equation, eigen values and eigen vectors.</p>
24	17UANET604	Elective II NUMERICAL METHODS	<p>CO1 know and solve numerical algebraic and transcendental equations .</p> <p>CO2 solve solution of simultaneous linear algebraic equations.</p> <p>CO3 find the Interpolation for equal intervals.</p> <p>CO4 understand the concept of Numerical Differentiation and Integration.</p> <p>CO5 solve single and multi step methods.</p>

25	17UANET605	Elective II FORMAL LANGUAGES AND AUTOMATA THEORY	<p>CO1 understand the concepts of Finite State Machine.</p> <p>CO2 apply the Finite Automaton with output</p> <p>CO3 understand the Rules for Regular Expression.</p> <p>CO4 construct the regular grammars.</p> <p>CO5 understand the concept of Pushdown Automata.</p>
26	17UANET606	Elective II FUZZY SETS AND FUZZY LOGIC	<p>CO1 understand the concept of Fuzzy Sets and Classical Sets</p> <p>CO2 discuss Fuzzy Relations and Classical Relations.</p> <p>CO3 know the Membership Functions.</p> <p>CO4 classify Classical Logic and Fuzzy Logic.</p> <p>CO5 tell the Fuzzy to Crisp Conversions</p>
27	17UANET607	Elective III ELEMENTARY NUMBER THEORY	<p>CO1 understand the concepts of natural numbers, axioms and laws.</p> <p>CO2 find the addition and multiplication of integers.</p> <p>CO3 list the divisibility concepts in detail.</p> <p>CO4 examine prime and composite numbers.</p> <p>CO5 know the Euler function.</p>
28	17UANET608	Elective III NEURAL NETWORKS AND GENETIC ALGORITHM	<p>CO1 discuss neuron model and network architectures.</p> <p>CO2 explain Perceptron learning and Back Propagation Networks rules.</p> <p>CO3 understand Associative Memory.</p> <p>CO4 know about the Adaptive Resonance Theory.</p> <p>CO5 understand the fundamental concepts of Genetic Algorithm.</p>
29	17UANET609	Elective III ELEMENTARY GRAPH THEORY	<p>CO1 know about graphs and its operations.</p> <p>CO2 discuss the concept of connectivity.</p> <p>CO3 know about Trees.</p> <p>CO4 construction of Eulerian and Hamiltonian graphs.</p> <p>CO5 difference between directed and undirected graphs.</p>

(2018-2019)

Name of the Department: MATHEMATICS

Name of the Programme: M.Sc

Programme outcome (PO):

PO1 Critical Thinking:

Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.

PO2 Effective Communication:

Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology.

PO3 Social Interaction:

Elicit views of others, mediate disagreements and help reach conclusions in group settings.

PO4 Effective Citizenship:

Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issue and participate in civic life through volunteering.

PO5 Ethics:

Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.

PO6 Environment and Sustainability:

Understand the issues of environmental contexts and sustainable development.

PO7 Self-directed and Life-long Learning:

Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcome (PSO):

- 1 Developing analytical skills, attitude, critical thinking and searching for conclusions to the problems arising from complicated structures.
2. Attaining a rigorous and intellectual pursuit which helps to find patterns and structure.
3. Strengthening the high level of Employability and Research.

S.No.	Course Code	Course Name	Course Outcome (CO) On successful completion of the course, the students will be able to
1	17PBECT101	Core Paper - I ALGEBRA	CO1 know about the properties of group theory CO2 define the properties of ring theory CO3 analyze field and extension fields CO4 construction the galois theory CO5 discuss about the transformations
2	17PBECT102	Core Paper – II REAL ANALYSIS	CO1 understand the basic concepts of Topology , numerical sequences and series. CO2 analyze the continuity and differentiation. CO3 understand and work with Riemann-Stieltjes integral. CO4 analyze sequences and series of functions. CO5 discuss about functions of several variables.

3	17PBECT103	Core Paper III ADVANCED DIFFERENTIAL EQUATIONS	<p>CO1 understand the basic concepts of Picard's theorem.</p> <p>CO2 solve the Simultaneous differential equations of the form $((dx))/P=((dy))/Q=((dz))/R$.</p> <p>CO3 attain knowledge in Legendre equation and Legendre polynomials.</p> <p>CO4 solve the Bessel equation and Existence and Uniqueness problems.</p> <p>CO5 discuss about Linear systems with periodic coefficients.</p>
4	17PBECT104	Core Paper IV APPLIED NUMERICAL ANALYSIS	<p>CO1 understand the concepts of solution of non linear equations, Numerical differentiation and Integration.</p> <p>CO2 solve the system of equations.</p> <p>CO3 solve ODE through numerical methods.</p> <p>CO4 solve boundary value problems and characteristic value problems through numerical methods</p> <p>CO5 solve PDE through numerical methods</p>
5	17PBEEET105	Elective Paper - I (A) LATEX AND MATLAB	<p>CO1 know about commands and environments in LATEX</p> <p>CO2 displaying text and drawing picture with LATEX.</p> <p>CO3 understand the typing Math concepts using LATEX.</p> <p>CO4 understand the basics of MATLAB and interactive computations using MATLAB</p> <p>CO5 learn programming in MATLAB</p>
6	17PBEEET106	Elective Paper - I (B) OPERATIONS RESEARCH	<p>CO1 understand the concepts of linear programming problems.</p> <p>CO2 understand and apply duality and Transportations .</p> <p>CO3 know about network models.</p> <p>CO4 learn advanced linear programming</p> <p>CO5 understand simulation modelling</p>
7	17PBECT201	Core Paper V COMPLEX ANALYSIS	<p>CO1 understand the concepts of analytic functions conformality and linear transformations</p> <p>CO2 use complex integration</p> <p>CO3 analyze local properties of analytic functions.</p> <p>CO4 know about general form of Cauchy theorem and calculus of residues</p> <p>CO5 analyze harmonic functions and their power series expansion</p>

8	17PBECT202	Core Paper VI MEASURE THEORY AND INTEGRATION	CO1 understand Lebesgue measure CO2 understand Lebesgue integral CO3 understand differentiation and integration . CO4 know about general measure and integration CO5 understand the properties of measure and outer measure
9	17PBECT203	Core Paper VII PARTIAL DIFFERENTIAL EQUATIONS	CO1 understand Mathematical models and classification of second order equations CO2 find the solution of Cauchy's problem CO3 understand the methods of separation of variables . CO4 solve boundary value problem CO5 solutions of Dirichlet problem using Green's functions
10	17PBECT204	Core Paper VIII CLASSICAL DYNAMICS	CO1 understand the Introductory concepts of dynamics CO2 derive Lagrange's equation CO3 know about Hamilton principal and equations. CO4 understand Hamilton -Jacobi theory CO5 understand Lagrange and Poisson brackets
11	17PBEEP205	Elective Paper - II (A) LATEX AND MATLAB PRACTICAL	CO1 display text , create tables and type Mathematical notations CO2 prepare question paper using LATEX CO3 draw 2D and 3D graphs using LATEX CO4 apply Statistical calculation using MATLAB CO5 draw 2D and 3D graphs using MATLAB
12	17PBEEET206	Elective Paper - II (B) MATHEMATICAL MODELLING	CO1 perform Mathematical modeling through ODE CO2 perform Mathematical modeling through difference equations (simple models) CO3 perform Mathematical modeling through difference equations. (population dynamics in genetics) CO4 perform Mathematical modeling through graphs CO5 perform Mathematical modeling through calculus of variation and dynamic programming
13	17PBECT301	Core Paper - IX TOPOLOGY	CO1 explain the basic concepts of Topological Spaces. CO2 analyze Product and Metric Topologies, Connected Spaces and its properties in the real line. CO3 attain knowledge in Compact Spaces and its properties. CO4 distinguish the Countability and Separation Axioms by various theorems. CO5 discuss the Compactness and Completeness of Topological Spaces with its properties.

14	17PBECT302	Core Paper -X ADVANCED FLUID DYNAMICS	CO1 state the basic principles of fluid mechanics. CO2 analyse fluid flow problems with the application of the momentum and energy equations. CO3 outline the concepts of source, sink, doublet and vortex. CO4 examine steady flow problems using Navier-Stokes equations. CO5 discuss different boundary layer and momentum integral problems.
15	17PBECT303	Core Paper - XI MATHEMATICAL STATISTICS	CO1 discuss the concepts of probability and distribution functions. CO2 analyse the parameters and characteristic functions. CO3 categorize types of probability distribution functions and limit theorems. CO4 classify types of parametric tests for large sample CO5 describe the concept of theory of estimation.
16	17PBECT304	Core Paper -XII GRAPH THEORY	CO1 explain the concepts of graphs and trees. CO2 illustrate connectivity and Tours through Euler graphs and Hamiltonian cycles. CO3 investigate perfect matching. CO4 discuss edge colourings, independent sets and cliques. CO5 distinguish girth and chromatic number.
17	17PBEEET305	Elective Paper -III (A) FUZZY MATHEMATICS	CO1 differentiate the concepts of crisp and fuzzy sets. CO2 understand fuzzy relations and distinguish crisp and fuzzy relations. CO3 describe some crisp and fuzzy relations and solve fuzzy relation equations. CO4 interpret various measures of fuzziness. CO5 construct fuzzy sets and apply fuzzy logic control to real time systems.
18	17PBEEET306	Elective Paper - III (B) MATHEMATICAL PHYSICS	CO1 understand the concept of tensors. CO2 discuss Riemann-Christoffel's tensor and Einstein gravitational equation. CO3 explain Beta, Gamma and Error Functions. CO4 discuss Hankel Transforms. CO5 discuss Maxwell's Electromagnetic Field Equation and Special Theory of Relativity.

19	17PBEEET307	Elective Paper -III (C) DIFFERENTIAL GEOMETRY	CO1 describe the theory of space. CO2 discuss curvature and torsion of a curve. CO3 outline the first fundamental forms of surfaces. CO4 analyze the general surfaces of revolution. CO5 classify the fundamental equations of surface theory.
20	17PBECT401	Core Paper -XIII FUNCTIONAL ANALYSIS	CO1 explain the concepts of Banach Space through linear transformation. CO2 describe the operators in Banach space. CO3 relate some properties of Hilbert space. CO4 distinguish the operators on Hilbert space. CO5 discuss about spectral theory.
21	17PBECT402	Core Paper - XIV MATHEMATICA L METHODS	CO1 discuss about Fourier transforms, their properties and applications. CO2 state and use Hankel transform to solve partial differential equations. CO3 analyse, identify and apply the methods of Integral equations. CO4 construct integral equations from ordinary differential equations and apply singular integral equations. CO5 classify the problems in calculus of variations and hence solve some physical problems.
22	17PBECT403	Core Paper -XV PROGRAMMING MATH WITH PYTHON (THEORY)	CO1 write different kinds of numbers by getting user input. CO2 visualize data with graphs. CO3 describe data with statistical tools. CO4 define algebra symbolic math with SYMPY. CO5 interpret results from sets and probability.
23	17PBEC P404	Core Paper -XVI PROGRAMMING MATH WITH PYTHON (PRACTICAL)	CO1 write programs to distinguish the kinds of numbers. CO2 visualize Statistics with Graphs. CO3 list the first N Fibonacci numbers. CO4 find correlation coefficient. CO5 show the pictorial results from Sets and Probability.
24	17PBECT405	Core Paper -XVII ALGEBRAIC NUMBER THEORY	CO1 list the divisibility concepts and prime numbers in detail. CO2 discuss the concepts of congruences and apply them to solve equations. CO3 solve the equations using congruences of higher degree. CO4 examine quadratic residues and non residue modulo m. CO5 formulate Moebius Inversion formula.

25	17PBEEET406	Elective Paper -IV (A) NEURAL NETWORKS	CO1 discuss neuron model and network architectures. CO2 explain Perceptron learning rule with proof of convergence. CO3 apply Supervised Hebbian learning and its rule. CO4 construct Backpropagation algorithm. CO5 verify optimality conditions.
26	17PBEEET407	Elective Paper -IV (B) CONTROL THEORY	CO1 explain the concepts of observability of linear and nonlinear systems. CO2 describe the controllability of linear and nonlinear systems. CO3 investigate stability of linear and nonlinear systems . CO4 verify stabilizability with restricted feedback. CO5 discuss the optimal control of linear and nonlinear systems.
27	17PBEEET408	Elective Paper -IV (C) STOCHASTIC DIFFERENTIAL EQUATIONS	CO1 explain the concepts of stochastic analogs of classical differential equations. CO2 construct Ito Integral. CO3 explain the Ito Formula and the Martingale Representation Theorem. CO4 discuss stochastic differential equations with examples. CO5 distinguish between one and multidimensional filtering problem.

Name of the Department: B.Sc

Name of the Programme: Computer Science

Programme outcome (PO):

- **Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions(intellectual, organizational and personal) from different perspectives
- **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and making meaning of the world by connecting people, ideas, books, media and technology
- **Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings
- **Effective Citizenship:** Demonstrate empathetic social concern and equity centred

national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering

- **Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them
- **Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development
- **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

Programme Specific Outcome (PSO):

- Prepared for a career in an information technology oriented business or industry, or for graduate study in computer science or other scientific or technical fields
- Providing effective and efficient real time solutions using acquired knowledge in various domains
- Applying professional software engineering practices, strategies and tactics for the development, operation and maintenance of software

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17UAKCT101	Programming in C	CO1:Recall the fundamentals of computers with the basic programming components of C (Remember) CO2:Associate the decision making and looping with conditions in C (Understand) CO3:Attain the knowledge on the application of Arrays, Strings and Functions in C (Apply) CO4:Determine the usage of Structures, Unions and Pointers concepts in C (Create) CO5:Attain the knowledge on file concepts in C (Apply)
2	17UAKCT102	Digital Fundamentals and Computer Architecture	CO1:Compute conversions among different number systems, become familiar with basic logic gates. (Apply) CO2:Understand the design of Sequential Circuits such as Flip-Flops using logical gates. (Understand) CO3:Design DMA Controller and Transfer data using DMA. (Create) CO4:Hire the basic knowledge of Instruction Sets and their formats. (Evaluate) CO5:Demonstrate the ideas by comparing Memory Organization (Apply)
3	17UAKCP103	Programming Lab – C	CO1: Acquire the knowledge on generating various mathematical number series in C (Apply) CO2:Correlate the concept of String functions in C (Analyze) CO3: Identify the usage of Arrays and Functions in C (Analyze)

			CO4:Develop the C programs using pointers (Create) CO5:Construct the programming block with File concepts in C (Create)
4	17UAKAT104	Numerical and Statistical Methods	CO1:Solve the Numerical Algebraic and Transcendental Equations and Simultaneous linear Algebraic Equations. (Apply) CO2:Interpolate the values and solve the Numerical Differentiation, Numerical integration problems. (Apply) CO3:Find the Mean, Median, Mode, Range, Quartile Deviation and Standard Deviation. (Apply) CO4:Find the Coefficients of Correlation. (Apply) CO5:Solve the Regression Equations and find the mean and coefficient of correlation. (Apply)
5	17UAKCT201	Object Oriented Programming with C++	CO1:Review the basics of Concepts of Object Oriented Programming. (Remember) CO2: Classify the concepts of Functions and Arrays. (Understand) CO3:Demonstrate the concepts of Constructors,Operator Overloading and Inheritance. (Apply) CO4:Characterize the concepts of Pointers,VirtualFunctions and Polymorphism. (Analyze) CO5: Gain the knowledge in Files, Templates and Exception Handling. (Apply)
6	17UAKCT202	Data Structures and Algorithms	CO1:Describe Array, stack, queue and linked list operation. (Understand) CO2:Handle operations like searching, insertion, deletion, traversing mechanism etc. on various data structures. (Analyzing) CO3:Derivation of a set of abstract relations within Graphs. (Synthesizing) CO4:Solve problems using Basic algorithms for sorting and merging. (Apply) CO5:Acquire knowledge in hash tables and able to handle files. (Apply)

7	17UAKCP203	Programming Lab-C++	<p>CO1: Describe the principles and concepts of object oriented programming (Understand)</p> <p>CO2: Understand concepts of functions with different methods (Understand)</p> <p>CO3: Apply the concepts of Constructor, destructor and exception handling (Apply)</p> <p>CO4: Recognize the concept of multiple inheritance (Remember)</p> <p>CO5: Validate the source code of files with an exception (Evaluate)</p>
8	17UAKAT204	Discrete Mathematics	<p>CO1: Know about Connectives & Well-formed Formulas. (Remember)</p> <p>CO2: Attain knowledge about Normal Forms and Predicate Calculus. (Comprehend)</p> <p>CO3: Solve the real time problems on Relations. (Apply)</p> <p>CO4: Acquire knowledge on Functions and Grammars. (Remember)</p> <p>CO5: Compare the characteristics Lattices. (Comprehend)</p>
9	17UAKCT301	Operating Systems	<p>CO1: Understand the basic concepts of Process and its Transitions. (Understand)</p> <p>CO2: Identify and handles Deadlock in Multiprogramming Systems. (Remember)</p> <p>CO3: Analyze Virtual Storage Organization and Management Strategies. (Analyze)</p> <p>CO4: Classify different types of Processor Scheduling. (Understand)</p> <p>CO5: Acquire knowledge in Disk Performance Optimization and File Systems. (Apply)</p>
10	17UAKCT302	Java Programming	<p>CO1: Review the basics of java Environment and java statements. (Remember)</p> <p>CO2: Elaborate the concepts of Operators and Expressions and branching and looping statements (Understand)</p> <p>CO3: Demonstrate the concepts of Constructors, Methods Overloading, Inheritance, Interfaces and Packages. (Apply)</p> <p>CO4: Characterize the concepts of JAVA's Exceptional handling mechanism, threads and Applets. (Analyze)</p> <p>CO5: Gain the knowledge of Graphics Programming and Managing Files. (Apply)</p>

11	17UAKCP303	Programming Lab- Java	<p>CO1: Describe the principles of object-oriented programming and write the algorithm in well-written modular code. (Remember)</p> <p>CO2: Demonstrate the use of object oriented concepts in real world problems. (Apply)</p> <p>CO3: Apply the concepts of inheritance, constructor and exception handling. (Apply)</p> <p>CO4: Construct java programs to solve the given problems using basic programming constructs. (Create)</p> <p>CO5: Develop and debug java programs using Package, multithreading, Exceptions and interface concepts. (Create)</p>
12	17UAKAT304	Computer Based Optimization Techniques	<p>CO1: Solve the Linear Programming Problem by graphical method. (Apply)</p> <p>CO2: Formulate the Transportation Problems. (Create)</p> <p>CO3: Optimize the Assignment Problems and Replacement Problems. (Analyze)</p> <p>CO4: Discuss the types of Queueing Models and various strategies of Game Theory. (Understand)</p> <p>CO5: Construct a Network Diagram and find the Critical Path and PERT. (Create)</p>
13	17UAKSP305	Multimedia Lab	<p>CO1: Classify the controls of Multimedia software. (Understand)</p> <p>CO2: Apply the designing skills upon Multimedia. (Apply)</p> <p>CO3: Demonstrate various effects of Multimedia. (Apply)</p> <p>CO4: Animate the figures using Multimedia tools. (Create)</p> <p>CO5: Model the experiments with a Movie making tool. (Create)</p>
14	17UAKCT401	Software Engineering	<p>CO1: Characterize various software process models. (Analyze)</p> <p>CO2: List out the elements of analysis model, data model and functional model. (Remember)</p> <p>CO3: Estimate the software projects and models. (Evaluate)</p> <p>CO4: Construct modular and interface design. (Apply)</p> <p>CO5: Test the created software using different testing strategies. (Evaluate)</p>

15	17UAKCT402	Web Programming	CO1:Classify the various HTML tags. (Understand) CO2:Apply the various cascading style sheets for designing the web pages. (Apply) CO3:Create basic action script coding. (Create) CO4:Acquire knowledge about open sources languages. (Apply) CO5: Understand how server-side programming works on the web. (Understand)
16	17UAKCP403	Web Programming Lab	CO1:Acquire the knowledge of tools used in industry for web application development. (Apply) CO2:Design web pages using HTML and style sheets. (Create) CO3:Validate the forms. (Evaluate) CO4:Create dynamic web pages using server side scripting. (Create) CO5:Develop web based applications with Perl. (Create)
17	17UAKAT404	Business Accounting	CO1:To keep in mind the accounting principles in preparing accounting statements. (Analyze) CO2:Understand the preparation of final accounts and its procedures. (Understand) CO3:Apply the elements of cost and prepare cost sheet. (Apply) CO4:Analyze the various methods of stores ledger. (Analyze) CO5:Evaluate the various techniques in budgetary control. (Evaluate)
18	17UAKSP405	Software Development - CASE Tools Lab	CO1:Identify various objects and the relationship between them in the given projects. (Remember) CO2:Recognize the actors and use cases in the projects. (Remember) CO3:Design projects using Object Oriented concepts. (Create) CO4:Use the UML analysis and design diagrams. (Apply) CO5:Blueprint appropriate design patterns. (Analyze)

Name of the Department: Biotechnology

Name of the Programme: B.Sc Biotechnology

PO:

PSO:

S.No	Course Code	Course Name	Course Outcome (CO)
1	17UAQCT101	Cell Biology	CO1 Understand the basic concepts about cell and its classification CO2 Ability to analyze and interpret the behavior of cells in their microenvironment in multi-cellular organisms CO3 Elaborate the ideas regarding the function and cellular organization of intracellular organelles CO4 Explain the structure of chromosome and its organization CO5 Understand cell cycle and cell division and various types of specialized cells
2	17UAQCT102	Bioanalytical Techniques	CO1 Generate the adequate knowledge in basic concepts of buffering system CO2 Get familiarized with working principles, tools and techniques of spectroscopic analysis CO3 Strengthen their conceptual understanding in centrifugation and radioactivity CO4 Have an common insight in chromatographic techniques CO5 Evaluate and perform electrophoresis and electrophysiological techniques
3	17UAQAT103	Chemistry I	CO1 Predict atomic structure, chemical bonding or molecular geometry based on accepted models. CO2 Provide broad foundation about the merits and demerits of polymers. CO3 Acquire an idea about the chemical bonding polar bond and stereoisomerism CO4 Integrate the chemical reactions for fertilizers and usage of insecticides and pesticides CO5 Understand the principles of kinetics and thermodynamics as applied to rates and equilibrium positions of chemical reactions
4	17UAQCT201	Microbiology	CO1 Improve their perceptions in microscopy CO2 Acquire knowledge in diverse microbial population CO3 Describe the techniques for identifying microbes CO4 Analyze the microbes involved in food spoilage and various diseases CO5 Strengthen their knowledge of microbial application

5	17UAQCP202	Lab in Cell Biology and Microbiology	CO1 Develop the skills in staining of bacterial, plant and animal cells CO2 Identify the stages of cell cycle and to enumerate the size of the cell CO3 Attain handling in media preparation and sterilization CO4 Perform enumeration techniques with different samples CO5 Experiment with microbes to study their sensitivity and their biochemical properties.
6	17UAQAT203	Chemistry II	CO1 Learn the Laboratory principles and methods of metallurgy CO2 Get familiarized with the co ordination compounds CO3 Understand the mechanism of aromatic compounds CO4 Know the different processes of thermodynamics CO5 Develop basic knowledge with the electrochemistry and Get a theoretical exposure for safety aspects of chemistry laboratory
7	17UAQAP204	Allied Practical I Chemistry	CO1 Attain knowledge for the preparation of normal solution CO2 Develop handling of glass wares and accurate chemical laboratory skills CO3 Estimate the acid and base solutions volumetrically CO4 Learn the methods of organic analysis CO5 Get a distinguished idea about organic compounds
8	17UAQCT301	Biochemistry	CO1 Improve the basic knowledge of carbohydrates and lipids CO2 Describe the fundamental organization of proteins and nucleic acids CO3 Interpret their ideas related to enzymes CO4 Outline the metabolic pathways of macromolecules CO5 Summarize the metabolic pathways of macromolecules and inspect the concepts in micro elements
9	17UAQCT302	Genetics	CO1 Summarize the Basic concepts of Genetics CO2 Generate their perception with genetic interactions CO3 Develop their knowledge in chromosomal linkage and crossing over CO4 Outline on various chromosomal variations CO5 Show the deep approaching ideas in population genetics
10	17UAQAT303	Biomathematics	CO1 Apply the concepts of binomial and exponential theorems in summation of series.

			CO2 Solve the problems using Matrices. CO3 Describe different types , collection and presentation of data. CO4 Determine the measures of central tendency and dispersion. CO5 Apply Correlation and Regression in statistical analysis.
11	17UAQSP304	Lab in Quality Control Techniques	CO1 Improve their knowledge in concepts of pH and microbiological methods effectively CO2 Illustrate the knowledge in the quantitative estimations CO3 Develop the skill in qualitative analysis of soil CO4 Estimate the quality of household products CO5 Expertise their knowledge in adulteration
12	17UAQCT401	Molecular Biology	CO1 Interpret their knowledge about gene and its organization CO2 Describe the mechanism of transcription CO3 Develop their knowledge in translation and its related process CO4 Categorize the different modes of mutation CO5 Perceive about the DNA repair and Recombination process
13	17UAQCP402	Lab in Biochemistry	CO1 Develop the skills in qualitative analysis CO2 Maximize their knowledge in the quantitative analysis CO3 Can efficiently perform estimation procedures CO4 Will be able to analyze biomolecules CO5 Improve their knowledge in separation of biomolecules
14	17UAQAT403	Computer and Information Technology	CO1 Describe the features and components of windows XP CO2 Perform documentation with various formatting in MS-Word 2007 CO3 Compute calculations and generate charts in MS-Excel 2007 CO4 Illustrate the presentation skills in MS-PowerPoint 2007 CO5 Create Database, Table, Query, Forms and Reports
15	17UAQAP404	Computer and Information Technology Lab	CO1 - CO4 Create letter heads, resume, timetable and mail merging of letters in MS-Word CO5 - CO7 Prepare Student Mark list and generate Charts and Reports in MS-Excel CO8 - CO9 Demonstrate presentation with simple and animated effects in MS-Power Point CO10 – CO12 Create Database, Tables, Query, Forms and Reports in MS-Access
16	17UAQST405	Physiopathology for Medical Transcription	CO1 Will generate the adequate knowledge in fundamentals of medical transcription CO2 Develop their knowledge in fundamentals and

			<p>disorders of circulatory and cardiovascular system</p> <p>CO3 Build their perception in respiratory and digestive system</p> <p>CO4 Will understand the nervous and excretory system</p> <p>CO5 Can strengthen their knowledge in muscular and endocrine system</p>
17	15UAQCT501	Immunology	<p>CO1 Understand the basics of immunology</p> <p>CO2 Develop their perception levels in understanding the concepts of antigen and antibody</p> <p>CO3 Interpret their ideas related to antigen presentation</p> <p>CO4 Outline the metabolic pathways of immune response</p> <p>CO5 Describe their understanding in advanced immunological techniques.</p>
18	15UAQCT502	Recombinant DNA technology	<p>CO1 Differentiate the role of various recombinant enzymes</p> <p>CO2 Describe the fundamental features of plasmids</p> <p>CO3 Comprehend their knowledge about vectors</p> <p>CO4 Identify the recombinant clones</p> <p>CO5 Understand the techniques of recombination</p>
19	15UAQCT503	Plant Biotechnology	<p>CO1 Improve their knowledge regarding tissue culture media and its composition</p> <p>CO2 Understand the different available explants for tissue culture</p> <p>CO3 Describe the features of protoplast and its significance</p> <p>CO4 Outline the techniques of plant transformation</p> <p>CO5 Summarize the applications of molecular assisted breeding</p>
20	15UAQET504	Developmental Biology	<p>CO1 Get familiarized with the process of development of gametes</p> <p>CO2 Understand the concept of fertilization in mammals</p> <p>CO3 Identify the reasons for evolution and be familiarize with embryology</p> <p>CO4 Characterize the methods used for experimental embryology</p> <p>CO5 Summarize the concepts of embryonic development in plants</p>
21	15UAQET505	Marine Biotechnology	<p>CO1 Acquire knowledge about the significance of marine organisms</p> <p>CO2 Understand the methodology of bacterial cell aquaculture</p> <p>CO3 Predict and discover marine enzymes.</p> <p>CO4 Identify the usage of various bioactive marine products.</p> <p>CO5 Develop a basic knowledge about probiotics</p>
22	15UAQET506	Food and Nano Biotechnology	<p>CO1 Able to build their ideas by understanding the classification of foods and the additives used</p>

			<p>CO2 Acquire knowledge in principle and packaging process of foods</p> <p>CO3 Understand the effective treatment of waste from industries</p> <p>CO4 Briefly understand the broad field of Nanobiotechnology</p> <p>CO5 Compute the developing approaches for production of nanomedicines</p>
23	15UAQST507	Biofarming	<p>CO1 Familiarized with the approaches for cultivating mushrooms</p> <p>CO2 Get a generalized idea for producing Spirullina</p> <p>CO3 Compute the usage of Vermicompost and Biofertilizers</p> <p>CO4 Formulate various ideas in sericulture</p> <p>CO5 Prepare a aquaculture farm for economic up gradation</p>
24	15UAQAL508	Cancer Biology	<p>CO1 Analyze the different types of cancer</p> <p>CO2 Develop a deep insight about culturing of cells</p> <p>CO3 Understand the mechanism of oncogenesis and apoptosis</p> <p>CO4 Relate to the concepts of cellular signaling and cell lines</p> <p>CO5 Examine the therapies used for cancer diagnosis and therapy</p>
25	15UAQAL509	Research Methodology	<p>CO1 Infer on the concepts of basics in research methodology</p> <p>CO2 Familiarize with the methods of thesis writing</p> <p>CO3 Analyze the methods used for Biophysical studies</p> <p>CO4 Understand the key facts of immunological studies</p> <p>CO5 Correlate the research data's using statistical methods</p>
26	15UAQCT601	Introduction to Bioinformatics	<p>CO1 Understand the basic features of Bioinformatics</p> <p>CO2 Outline the databases used as a Bioinformatics tool</p> <p>CO3 Get familiarized with the methods used for sequence alignment</p> <p>CO4 Analyze datas for gene prediction and construction of phylogenetic tree</p> <p>CO5 Predict and Characterize the molecules for the development of drugs</p>
27	15UAQCT602	Animal Biotechnology, Bioethics and IPR	<p>CO1 Describe the significance of growth media and primary culture</p> <p>CO2 Integrate with the methods used for the development of cell lines</p> <p>CO3 Apply the cells developed from tissue culture in various fields and the methods for producing transgenic animals</p> <p>CO4 Know the ethics to be followed for animal culture</p> <p>CO5 Get a brief idea related to IPR</p>

28	15UAQCP603	Lab in Immunology and Plant Tissue Culture	CO1 Experiment with test animals for immunological purposes CO2 Analyze and understand the significance of antibodies CO3 Prepare various culture media for plant tissues CO4 Compare and contrast the tissue culture techniques using various explants CO5 Analyze the steps involved in hardening
29	15UAQCP604	Lab in rDNA Technology and Industrial Biotechnology	CO1 Develop their skills in isolating DNA from various tissues CO2 Analyze the DNA and quantify it CO3 Perform restriction and ligation experiments CO4 Produce enzymes for industrial sectors CO5 Understand the blotting procedures of biomolecules
30	15UAQET605	Industrial Biotechnology	CO1 Identify the requirements for fermentation technology CO2 Understand the different types of reactors CO3 Describe the process of down streaming and various techniques for product recovery CO4 Understand the production and use of pharmaceutical products CO5 Get a contented knowledge related to industrial enzymes
31	15UAQET606	Pharmaceutical Biotechnology	CO1 Validate the development of drugs CO2 Compile the ideas of targeting a drug and its modification CO3 Identify the role of drugs in various diagnosis and treatments CO4 Interpret the novel ideas in developing immunological products CO5 Get familiarized with molecular tools used and their applications
32	15UAQET607	Genomics and Proteomics	CO1 Understand the structure and organization of genes and their expression CO2 Familiarize with sequencing and cloning techniques CO3 Identify the different genetic markers for various recombinant technologies CO4 Generalize their views in functional proteins and their varied application CO5 Integrate their skills in analytical, methods for identifying diseases
33	15UAQET609	Environmental Biotechnology	CO1 Have a clear idea on biotic and abiotic factors CO2 Understand the impacts of environmental pollution and significance of various advancements in identifying environmental pollution CO3 Generate an interest in field of energy sources CO4 Identify and involve in waste management CO5 Develop a basic ideas for conserving the

			biodiversity
34	15UAQET610	Virology and Vaccinology	CO1 Relate the modern and historical aspects of virology CO2 Generalize the classification and types of virus CO3 Distinguish the replication of virus from other microbes CO4 Understand the delivery methods of vaccines CO5 Familiarize with the various approaches employed for the control of virus
35	15UAQST611	Medical Biotechnology	CO1 Get familiarized with the field of Red Biotechnology CO2 Integrate their skills in diagnostic techniques CO3 Acquire knowledge in the steps of stem cell therapies CO4 Inculcate the ideology of protein therapeutics CO5 Briefly understand the broad field of vaccinology

(2018-2019)

Name of the Department	: Costume Design and Fashion
Name of the Programme	: B.Sc.
Programme Outcome (PO) be able to:	: At the end of the programme, students will <ul style="list-style-type: none"> • Apply theoretical knowledge and practical approach to forecast and create designs that influence the fashion and apparel sectors. • Critically analyze, synthesize and relate fashion design concepts to emerging trends in global fashion. • Understand how fashion can be communicated effectively and creatively through various media and use of new digital platforms. • Gain awareness about the emerging ethical issues in fashion and textile business.
Programme Specific Outcome (PSO) be equipped with the knowledge in:	: At the end of the programme, students will

- Art of design, science of chemistry and perspective of history with the power of imagination.
- Basic theories of fashion design, pattern making, illustration and construction of garment.
- Technical understanding of fibres, fabrics and finishes.

S.No.	Course Code	Course Name	Course Outcome (CO)
Semester I			
1	17UARCT101	Core Paper - I Basics of Apparel Designing	CO1 Gain knowledge on essential tools used in sewing
			CO2: Apply fullness in garment construction
			CO3: Build knowledge on types of plackets, buttons and buttonholes
			CO4: Understand the various sleeve and yoke patterns
			CO5: Perceive knowledge on construction procedure of collars and pockets.
2	17UARCT102	Core Paper - II Principles of Pattern Making	CO1: Understand the significance of body measurements
			CO2: Perceive knowledge on methods of pattern making
			CO3: Analyze the style manipulation techniques
			CO4: Gain knowledge on grading and pattern alteration
			CO5: Determine the layout styles in pattern making
			CO1: Gain Knowledge about Basics of Stitching

3	17UARCP103	Core Practical -I Apparel Designing	CO2: Prepare samples for Neckline Finishing
			CO3: Construct Samples for Plackets, Fasteners and Sleeve
			CO4: Define and Develop Yokes with and without Fullness
			CO5: Experiment with Samples for Collars and Pockets
4	17UARAP104	Allied- I Fashion Illustration Practical	CO1: Gain knowledge about basic drawing technique using different medium of colors
			CO2: Understand the head theories and figure types
			CO3: Build knowledge in illustrating features of the body
			CO4: Illustrate pattern details in garment designing
			CO5: Develop various garment styles for men, women and children for different seasons
Semester II			
1	17UARCT201	Core Paper - III Fashion Designing Concepts	CO1: Understand the fashion terminologies and types of designs
			CO2: Describe the elements and principles of designs
			CO3: Identify and classify the different colour theories
			CO4: Develop skills in dress designing for various figure types
			CO5: Design the garments for different seasons
2	17UARCP202	Core Practical - II Fashion Designing	CO1: Understand the origin and application of color and design
			CO2: Implement elements of design in dress design
			CO3: Gain knowledge on principles of design and its application

			CO4: Adapt their artistic abilities to create new designs using color schemes
			CO5: Develop own individual style for various figure types
3	17UARCP203	Core Practical - III Children's Apparel	CO1: Experiment with taking of correct body measurements
			CO2: Understand the concept of pattern making
			CO3: Adapt suitable material for children's garments
			CO4: Develop the design by applying different seams and fullness
			CO5: Improve their creativity in garment construction according to the trend
4	17UARAT204	Allied - II Sewing Technology	CO1: Analyse various sewing machineries and its application
			CO2: Gain knowledge about stitching mechanism
			CO3: Understand the various spreading and cutting machines
			CO4: Interpret the marking methods and use of pressing equipments
			CO5: Describe the sewing federal standards for stitches, seams and sewing thread
Semester III			
1	17UARCT301	Core Paper-IV Fibre to Fabric	CO1: Identify the different types of fibres
			CO2: Explain the properties, attributes and characteristics of fibres
			CO3: Classify yarns and its types
			CO4: Describe the process of weaving and knitting
			CO5: Elaborate the nonwoven and decorative fabric formation methods
		Core Paper-V Fashion Clothing	CO1: Understand the fashion terminologies and varied consumer needs
			CO2: Identify the trends in clothing

2	17UARCT302	Psychology	behavior and changes in fashion
			CO3: Summarise the activities involved in fashion and colour forecasting
			CO4: Elaborate the types of merchandising techniques
			CO5: Create an understanding of the fashion centers of the world
3	17UARCP303	Core Practical-IV Fibre to Fabric	CO1: Identify the different types of fibres
			CO2: Determine the yarn count
			CO3: Describe the methods of fabric testing
			CO4: Demonstrate the handling of testing equipments
			CO5: Examine the fabric count by using various techniques
4	17UARAP304	Allied - III Computer Aided Designing Practical - I	CO1: Describe the fundamentals of fashion designing using software
			CO2: Develop their knowledge in designing software related to colour harmony
			CO3: Compile their own ideas into garment designs
			CO4: Predict the designs related to trend forecast
			CO5: Design the men's and women's garments with various features
5	17UARSP305	Skill Based-I Basics of Draping Practical	CO1: Develop three dimensional designs on the dress form in basic style
			CO2: Modify the basic bodice pattern into stylized garments
			CO3: Design various kinds of fullness in draping
			CO4: Create different types of skirts, yokes and collars
			CO5: Develop new apparel designs on the dress form
6	17UARNT306	Non Major Elective – I Fundamentals of Textiles	CO1: Develop an appreciation of the significance of textiles and gain knowledge on various fibers
			CO2: Describe the process of yarn and fabric formation
			CO3: Understand the principles of coloration of textiles
			CO4: Outline the steps in garment

			manufacturing
			CO5: Apply their knowledge on fabric care
Semester IV			
1	17UARCT401	Core Paper - VI Fabric Structure and Design	CO1: Identify and classify the different structures of woven design
			CO2: Illustrate draft and peg plan for a given design of a woven fabric
			CO3: Construct basic weaves and their derivatives
			CO4: Construct fancy weaves for toweling , ornamentation and upholstery applications
			CO5: Identify the relationship between the fabric structure and its properties
2	17UARCT402	Core Paper - VII Care and Maintenance of Textiles	CO1: Understand the manufacturing process of soap, detergents and their applications
			CO2: Develop skills in preparation of starch and its applications
			CO3: Build knowledge on various laundry and drying equipments
			CO4: Analyze various stages of laundering of natural and manmade fabrics
			CO5: Identify the stain types and to apply suitable stain removable treatment process
3	17UARCP403	Core Practical - V Women's Apparel	CO1: Create an understanding of concepts of pattern making
			CO2: Experiment with taking of correct body measurements
			CO3: Identify the materials suitable for Women's garments
			CO4: Design the garments with application of different seams and fullness
			CO5: Develop their skills in garment construction
4	17UARAP404	Allied - IV Computer Aided Designing Practical - II	CO1: Identify and use the appropriate tools for the designing process
			CO2: Apply CAD software for creating fashion mood boards
			CO3: Create designs for making digital cards and posters
			CO4: Develop their own colour palette for future fashion trend
			CO5: Create pattern making , grading and

			marker planning by using CAD
5	17UARSP405	Skill Based - II Fabric Ornamentation Practical	CO1: Identify and use embroidery tools with safety precautions
			CO2: Classify the temporary and permanent stitches
			CO3: Develop garment parts with bead / sequin work
			CO4: Apply smocking and applique work in garments
			CO5: Differentiate and develop various traditional embroidery stitches and designs
6	17UARNT406	Non Major Elective – II Basics of Fashion Designing	CO1: Develop an understanding of terminologies of fashion designing
			CO2: Perceive knowledge on design and design elements
			CO3: Describe principles of design in dress design
			CO4: Gain knowledge in the basic color theories
			CO5: Create their own designs according to seasons
Semester V			
1	17UARCT501	Core Paper - VIII Knitting Technology	CO1: Understand the basics of knitting and knit structures
			CO2: Summarize the characteristics and working principle of weft knitting
			CO3: Illustrate the structures of weft knitting
			CO4: Elaborate the working principle of warp knit structures
			CO5: Develop knowledge on maintenance of knit materials
2	17UARCT502	Core Paper IX Textile Processing	CO1: Understand the sequence of textile processing
			CO2: Analyze various chemicals used in preparatory and dyeing processes

			CO3:Understand the working of dyeing machineries
			CO4:Perceive knowledge on various principles of printing process
			CO5:State the methods of application of finishes
3	17UARCP503	Core Practical - VI Fabric Structure Analysis	CO1:Identify and represent plain weave and its derivatives on point paper
			CO2: Identify and represent twill weave and its derivatives on point paper
			CO3: Identify and represent the structures of toweling fabrics on point paper
			CO4: Identify and represent the compound weaves on point paper
			CO5: Identify and analyze the structure of basic knits
4	17UARCP504	Core Practical - VII Textile Processing	CO1:Understand the fabric preparation process
			CO2:Demonstrate the process of dyeing
			CO3:Build knowledge on natural dyeing process
			CO4:Create different design patterns using direct printing method
			CO5:Develop new designs using resist style of printing
5	17UARET505	Elective Paper - I Historic Costumes and Textiles of India	CO1:Identify the costumes worn during various historical periods
			CO2:Categorize the jewellery worn during various historical periods
			CO3:Understand the various textile materials prevalent in India
			CO4:Understand the colors, stitches used in Indian traditional embroidery

			CO5:Elaborate the Indian traditional costumes
6	17UARET506	Elective Paper - I Home Furnishings	CO1: Build knowledge on basics of home textile
			CO2: Identify the types of home textile and its care
			CO3: Classify the different type of furnishings and its maintenance
			CO4: Identify the type of kitchen linens and curtains
			CO5: Understand the various types of layout
7	17UARET507	Elective Paper - I Entrepreneurship Development	CO1: Understand the concept of Entrepreneurship
			CO2: Identify the motivational factors in Entrepreneurship
			CO3: Classify the type of Enterprises
			CO4: Assess the methods of project appraisal
			CO5: Identify the types of institutional finance to entrepreneur
8	17UARST508	Skill Based - III Business and Accounting	CO1: Understand the basics of business
			CO2: Build knowledge on accounting
			CO3: Apply knowledge on trial balance
			CO4: Identify the profit and loss of a concern
			CO5: Estimate the elements of costing
Semester VI			
1	17UARCT601	Core Paper - X Garment Quality and Cost Control	CO1: Understand the basics of quality parameters
			CO2: Summarize the quality specifications
			CO3: Outline the apparel production control
			CO4: Identify the various production systems

			CO5: Develop knowledge on cost control
2	17UARCP602	Core Practical - VIII Fashion Portfolio Presentation	CO1: Infer the concepts of fashion portfolios
			CO2: Develop skills in making mood boards
			CO3: Analyze and create design styles for various themes
			CO4: Gain new insights through universal coloring system and fabric textures
			CO5: Exhibit the innovation design collections based on selected themes
3	17UARCP603	Core Practical - IX Men's Apparel	CO1: Construct S.B. vest with various styles
			CO2: Construct Slack Shirt with various styles
			CO3: Construct Nehru Kurtha and Pyjama with various styles
			CO4: Construct Trouser with various styles
			CO5: Construct T-Shirt and Bermudas with various styles
4	17UARET604	Elective Paper – II Fashion Marketing and Retailing	CO1: Understand the fundamentals of marketing
			CO2: Infer the basic concepts of fashion retailing
			CO3: Understand the role of merchandiser in fashion industry
			CO4: Study the importance of pricing in marketing
			CO5: Gain insight on fashion promotional activities
5	17UARET605	Elective Paper – II Apparel Production	CO1: Summarize the basic concepts of apparel production
			CO2: Determine the factors involved in production planning
			CO3: Demonstrate the methods of

		Management	production system
			CO4:Analyze and interpret the role of garment assembly
			CO5:Understand the techniques in apparel quality management
6	17UARET606	Elective Paper – II Business Finance	CO1:Analyze and interpret the concept and scope of finance
			CO2:Describe the objectives and steps in business finance
			CO3:Develop capital and type of finance used in business
			CO4:Perceive the cost and earning theory
			CO5:Calculate costing for individual and composite cost for finance
7	17UARET607	Elective Paper – III Organization of garment unit	CO1: Build Knowledge on entrepreneurship
			CO2: Analyze the various financial institutions for the best financial deals
			CO3: Understand the different departments in a garment unit
			CO4: Develop wide knowledge on factory design and layout
			CO5: Demonstrate the export procedures
8	17UARET608	Elective Paper – III Export Management	CO1:Build knowledge on international trade
			CO2:Identify the method of pricing your product
			CO3:Assess payment options, including letter of credit
			CO4:Understand the export process
			CO5:Identify the various export promotion organizations
9	17UARET609	Elective Paper – III Apparel Quality	CO1:Understand the basic concepts of quality and testing
			CO2:Summarize the ISO standards in quality management
			CO3:Develop knowledge on quality

		Management	parameters of yarn and fabric
			CO4:Classify the types of inspection
			CO5:Describe the basics of environmental management system
10	17UARSP610	Skill Based - IV	CO1:Create various weaves and color combinations
		Computer Aided Designing Practical - III	CO2:Apply practical knowledge on creation of designs
			CO3:Experiment with tools for creating jacquard weaves
			CO4:Understand the basics of Adobe Illustrator
			CO5:Elaborate the role of Illustrator in dress design

(2018-2019)

Name of the Department : Costume Design and Fashion

Name of the Programme : B.Sc. Vocational

Programme Outcome (PO)

: Towards the end of the programme,

- Apply theoretical knowledge and practical approach to forecast and create designs that influence the fashion and apparel sectors.
- Critically analyze, synthesize and relate fashion design concepts to emerging trends in global fashion.
- Understand how fashion can be communicated effectively and creatively through various media and use of new digital platforms.
- Gain awareness about the emerging ethical issues in fashion and textile business

students will be able to:

Programme Specific Outcome (PSO)

: At the end of the programme, students will

be equipped with the knowledge in:

- Fundamentals of design, pattern making, illustration and construction of garments.
- Developing technical expertise through digital design softwares for fashion applications.
- Technical understanding of fibres, fabrics and finishes.

S.No.	Course Code	Course Name	Course Outcome (CO)
Semester I			
			CO1 Gain knowledge on essential tools used in sewing
			CO2: Apply fullness in garment

1	17UASCT101	Core Paper - I Basics of Apparel Designing	construction
			CO3: Build knowledge on types of plackets, buttons and buttonholes
			CO4: Understand the various sleeve and yoke patterns
			CO5: Perceive knowledge on construction procedure of collars and pockets.
2	17UASCT102	Core Paper - II Principles of Pattern Making	CO1: Understand the significance of body measurements
			CO2: Perceive knowledge on methods of pattern making
			CO3: Analyze the style manipulation techniques
			CO4: Gain knowledge on grading and pattern alteration
			CO5: Determine the layout styles in pattern making
3	17UASCP103	Core Practical - I Garment Construction	CO1: Gain Knowledge about Basics of Stitching
			CO2: Prepare samples for Neckline Finishing
			CO3: Construct Samples for Plackets, Fasteners and Sleeve
			CO4: Define and Develop Yokes with and without Fullness
			CO5: Experiment with Samples for Collars and Pockets
4	17UASAP104	Allied- I Fashion Sketching Practical	CO1: Gain knowledge about basic drawing technique using different medium of colors
			CO2: Understand the head theories and

			figure types
			CO3: Build knowledge in illustrating features of the body
			CO4: Illustrate pattern details in garment designing
			CO5: Develop various garment styles for men, women and children for different seasons
Semester II			
1	17UASCT201	Core Paper - III Fashion Designing Concepts	CO1: Understand the fashion terminologies and types of designs
			CO2: Describe the elements and principles of designs
			CO3: Identify and classify the different colour theories
			CO4: Develop skills in dress designing for various figure types
			CO5: Design the garments for different seasons
2	17UASCP202	Core Practical - II Fashion Designing	CO1: Understand the origin and application of color and design
			CO2: Implement elements of design in dress design
			CO3: Gain knowledge on principles of design and its application
			CO4: Adapt their artistic abilities to create new designs using color schemes
			CO5: Develop own individual style for various figure types
3	17UASCP203	Core Practical - III Children's Apparel	CO1: Experiment with taking of correct body measurements
			CO2: Understand the concept of pattern making
			CO3: Adapt suitable material for children's garments

			CO4: Develop the design by applying different seams and fullness
			CO5: Improve their creativity in garment construction according to the trend
4	17UASAP204	Allied - II CAD in Fashion Designing Practical-I	CO1: Understand the concepts of designing using CorelDraw
			CO2: Create designs using appropriate tools and techniques
			CO3: Develop digital boards for fashion needs
			CO4: Design and develop garments for Children, Men and Women
			CO5: Apply CAD software to create 3D designs
Semester III			
1	17UASCT301	Core Paper-IV Fibre to Fabric	CO1: Identify the different types of fibres
			CO2: Explain the properties, attributes and characteristics of fibres
			CO3: Classify yarns and its types
			CO4: Describe the process of weaving and knitting
			CO5: Elaborate the nonwoven and decorative fabric formation methods
2	17UASCT302	Core Paper-V Indian Art and Costumes	CO1: Classify the Indian art and paintings
			CO2: Summarize about the lifestyles of ancient India
			CO3: Analyze the traditional costumes of ancient periods
			CO4: Distinguish the factors affecting the costumes and jewellerys of various states
			CO5: Interpret the role of textiles and surface designs as a source of inspiration for new design developments
		Core Practical-IV Fibre to Fabric	CO1: Identify the different types of fibres
			CO2: Determine the yarn count

3	17UASCP303		CO3: Describe the methods of fabric testing
			CO4: Demonstrate the handling of testing equipments
			CO5: Examine the fabric count by using various techniques
4	17UASAP304	Allied - III CAD in Fashion Designing Practical - II	CO1: Identify and use the appropriate tools for the designing process
			CO2: Apply CAD software for creating fashion mood boards
			CO3: Create designs for making digital cards and posters
			CO4: Develop their own colour palette for future fashion trend
			CO5: Create pattern making , grading and marker planning by using CAD
5	17UASSP305	Skill Based-I Draping Techniques Practical	CO1: Develop three dimensional designs on the dress form in basic style
			CO2: Modify the basic bodice pattern into stylized garments
			CO3: Design various kinds of fullness in draping
			CO4: Create different types of skirts, yokes and collars
			CO5: Develop new apparel designs on the dress form
6	17UASNT306	Non Major Elective – I Fundamentals of Textiles	CO1: Develop an appreciation of the significance of textiles and gain knowledge on various fibers
			CO2: Describe the process of yarn and fabric formation
			CO3: Understand the principles of coloration of textiles
			CO4: Outline the steps in garment manufacturing
			CO5: Apply their knowledge on fabric care
Semester IV			

1	17UASCT401	Core Paper - VI Fabric Structure and Design	CO1: Identify and classify the different structures of woven design
			CO2: Illustrate draft and peg plan for a given design of a woven fabric
			CO3: Construct basic weaves and their derivatives
			CO4: Construct fancy weaves for toweling , ornamentation and upholstery applications
			CO5: Identify the relationship between the fabric structure and its properties
2	17UASCT402	Core Paper - VII Care and Maintenance of Textiles	CO1: Understand the manufacturing process of soap, detergents and their applications
			CO2: Develop skills in preparation of starch and its applications
			CO3: Build knowledge on various laundry and drying equipments
			CO4: Analyze various stages of laundering of natural and manmade fabrics
			CO5: Identify the stain types and to apply suitable stain removable treatment process
3	17UASCP403	Core Practical - V Women's Apparel	CO1: Create an understanding of concepts of pattern making
			CO2: Experiment with taking of correct body measurements
			CO3: Identify the materials suitable for Women's garments
			CO4: Design the garments with application of different seams and fullness
			CO5: Develop their skills in garment construction
4	17UASAP404	Allied - IV CAD in Fashion Designing Practical - III	CO1: Create various weaves and color combinations
			CO2: Apply practical knowledge on creation of designs
			CO3: Experiment with tools for creating jacquard weaves

			CO4:Understand the basics of Adobe Illustrator
			CO5:Elaborate the role of Illustrator in dress design
5	17UASSP405	Skill Based - II Surface Ornamentation Practical	CO1: Identify and use embroidery tools with safety precautions
			CO2: Classify the temporary and permanent stitches
			CO3: Develop garment parts with bead / sequin work
			CO4: Apply smocking and applique work in garments
			CO5: Differentiate and develop various traditional embroidery stitches and designs
6	17UASNT406	Non Major Elective – II Basics of Fashion Designing	CO1: Develop an understanding of terminologies of fashion designing
			CO2: Perceive knowledge on design and design elements
			CO3: Describe principles of design in dress design
			CO4: Gain knowledge in the basic color theories
			CO5: Create their own designs according to seasons
Semester V			
1	17UASCT501	Core Paper - VIII Knitting Technology	CO1:Understand the basics of knitting and knit structures
			CO2: Summarize the characteristics and working principle of weft knitting
			CO3:Illustrate the structures of weft knitting
			CO4:Elaborate the working principle of warp knit structures
			CO5:Develop knowledge on maintenance of knit materials

2	17UASCT502	Core Paper IX Textile Processing	CO1: Understand the sequence of textile processing
			CO2: Analyze various chemicals used in preparatory and dyeing processes
			CO3: Understand the working of dyeing machineries
			CO4: Perceive knowledge on various principles of printing process
			CO5: State the methods of application of finishes
3	17UASCP503	Core Practical - VI Fabric Structure Analysis	CO1: Identify and represent plain weave and its derivatives on point paper
			CO2: Identify and represent twill weave and its derivatives on point paper
			CO3: Identify and represent the structures of toweling fabrics on point paper
			CO4: Identify and represent the compound weaves on point paper
			CO5: Identify and analyze the structure of basic knits
4	17UASCP504	Core Practical - VII Textile Processing	CO1: Understand the fabric preparation process
			CO2: Demonstrate the process of dyeing
			CO3: Build knowledge on natural dyeing process
			CO4: Create different design patterns using direct printing method
			CO5: Develop new designs using resist style of printing
5	17UASET505	Elective Paper - I	CO1: Pursue a professional career in designing and developing fashion products
			CO2: Understand the activities

		Fashion Development and Marketing	Product and	involved in Line Concept development and Design Development process
				CO3: Familiarize with Line product development process
				CO4: Introduce the fashion marketing environment
				CO5: Understand the market levels in fashion industry
6	17UASET506	Elective Paper - I	Home Furnishings	CO1: Build knowledge on basics of home textile
				CO2: Identify the types of home textile and its care
				CO3: Classify the different type of furnishings and its maintenance
				CO4: Identify the type of kitchen linens and curtains
				CO5: Understand the various types of layout
7	17UASET507	Elective Paper - I	Entrepreneurship Development	CO1: Understand the concept of Entrepreneurship
				CO2: Identify the motivational factors in Entrepreneurship
				CO3: Classify the type of Enterprises
				CO4: Assess the methods of project appraisal
				CO5: Identify the types of institutional finance to entrepreneur
8	17UASST508	Skill Based Business Accounting	- III and	CO1: Understand the basics of business
				CO2: Build knowledge on accounting
				CO3: Apply knowledge on trial balance
				CO4: Identify the profit and loss of a concern
				CO5: Estimate the elements of costing
Semester VI				
				CO1: Identify the concepts related to the historical background of apparel

1	17UASCT601	Core Paper - X Apparel Production Techniques	industry
			CO2:Study the infrastructure facilities needed for starting an industry
			CO3:Gain insight into designers influence on manufacturing schedule and costing
			CO4:Learn the various production operations
			CO5:Develop knowledge on finishing process
2	17UASCP602	Core Practical - VIII Fashion Portfolio Presentation	CO1:Infer the concepts of fashion portfolios
			CO2:Develop skills in making mood boards
			CO3:Analyze and create design styles for various themes
			CO4:Gain new insights through universal coloring system and fabric textures
			CO5:Exhibit the innovation design collections based on selected themes
3	17UASCP603	Core Practical - IX Men's Apparel	CO1:Construct S.B. vest with various styles
			CO2:Construct Slack Shirt with various styles
			CO3:Construct Nehru Kurtha and Pyjama with various styles
			CO4:Construct Trouser with various styles
			CO5:Construct T-Shirt and Bermudas with various styles
			CO1:Define and classify the types of

4	17UASET604	Elective Paper – II Boutique Management	business
			CO2:Choose the right place and sources for investment
			CO3:Understand the manpower planning for the organization
			CO4:Make use of marketing tools and techniques
			CO5:Analyze the pricing strategies to promote the product
5	17UASET605	Elective Paper – II Apparel Production Management	CO1:Summarize the basic concepts of apparel production
			CO2:Determine the factors involved in production planning
			CO3:Demonstrate the methods of production systems
			CO4:Analyze and interpret the role of garment assembly
			CO5:Understand the techniques in apparel quality management
6	17UASET606	Elective Paper – II Business Finance	CO1: Analyze and interpret the concept and scope of finance
			CO2: Describe the objectives and steps in business finance
			CO3: Develop capital and type of finance used in business
			CO4: Perceive the cost and earning theory
			CO5: Calculate costing for individual and composite cost for finance
			CO1:Understand the concepts of

7	17UASET607	Elective Paper – III Apparel Quality Assurance	quality control
			CO2:Build knowledge on inspection systems
			CO3:Analyze the various defects in manufacturing of garments
			CO4:Assess the quality control of trimmings and accessories
			CO5:Classify the different types of packing and labeling
8	17UASET608	Elective Paper – III Export Management	CO1: Build knowledge on international trade
			CO2: Identify the method of pricing your product
			CO3: Assess payment options, including letter of credit
			CO4: Understand the export process
			CO5: Identify the various export promotion organizations
9	17UASET609	Elective Paper – III Apparel Quality Management	CO1: Understand the basic concepts of quality and testing
			CO2: Summarize the ISO standards in quality management
			CO3: Develop knowledge on quality parameters of yarn and fabric
			CO4: Classify the types of inspection
			CO5: Describe the basics of environmental management system
10	17UASSP610		CO1:Create various weaves and colour combinations
			CO2:Apply practical knowledge on

		Skill Based - IV	creation of designs
		CAD in Fashion Designing Practical - IV	CO3:Experiment with tools for creating jacquard weaves
			CO4:Understand the basics of Adobe Illustrator
			CO5:Elaborate the role of Illustrator in dress design

(2018-2019)

Name of the Department : Costume Design and Fashion

Name of the Programme : M.Sc.

Programme Outcome (PO) : Towards the end of the programme,

- Gain professional knowledge, build an individual style and develop diverse skills to support their future design careers.
- Implement appropriate research methodologies to identify and explore trends and opportunities in integrating multi-cultural fashion into global fashion.
- Articulate design ideas verbally, visually and digitally through various fashion communication.
- Understand the need for growing trend towards sustainable fashion.

students will be able to:

Programme Specific Outcome (PSO) : At the end of the programme, students will be equipped with the knowledge in:

- Latest technological developments in the field of textiles and fashion design.
- Research and development of concepts related to historical background of textiles and fashion around the world.
- In the field of cosmetology, textile CAD and marketing management.

S.No.	Course Code	Course Name	Course Outcome (CO)
Semester I			
1	17PBGCT101	Core Paper - I Fashion Merchandising	CO1: Understand the fundamentals of merchandising
			CO2: Develop knowledge on the activities involved in fashion merchandising
			CO3: Elaborate the apparel export merchandising process
			CO4: Explore the techniques involved in garment costing
			CO5: Gain insight on retail merchandising and visual merchandising
2	17PBGCT102	Core Paper - II Indian Textile Industry	CO1: Understand the origin and development of Indian textile industry
			CO2: Summarize about the organizations related to the textile and clothing industry
			CO3: Describe the recent developments in fibers and yarn
			CO4: Build knowledge on new techniques in weaving and knitting
			CO5: Interpret the new technological development in processing industry
3	17PBGCP103	Core Practical - I Fashion Illustrations	CO1: Understand the various costumes of the world
			CO2: Gain knowledge about the costumes of various regions in India
			CO3: Build knowledge on clothing for professions
			CO4: Illustrate the types of protective garments
			CO5: Develop portfolios based on themes
			CO1: Create different styles of Children's Garment on dress form

4	17PBGCP104	Core Practical - II Draping for Fashion Design	CO2: Develop various types of Women's Garments in draping technique
			CO3: Gain knowledge in Men's Garment draping styles
			CO4: Design and Drape various Theme based Garments
			CO5: Apply draping styles in Traditional Indian Garments
5	17PBGCP105	Core Practical - III Design with Prints	CO1: Create different design patterns in tie and dye
			CO2: Develop new designs using batik printing techniques
			CO3: Establish new design patterns in the art of stenciling
			CO4: Fabricate block and screen printing techniques
			CO5: Formulate various techniques in fabric painting
6	17PBGET106	Elective Paper I - Fashion Event Management	CO1: Develop knowledge on fashion event management and its types
			CO2: Outline the steps in planning the fashion show event.
			CO3: To gain knowledge on designing of stage, audio and visual effects used in fashion show
			CO4: To understand the process of merchandise selection and model selection for the fashion show .
			CO5: To develop knowledge on preparing media kit, and risk management.
7	17PBGET107	Elective Paper I - Visual	CO1: : Understand the fundamentals visual merchandising
			CO2: Build knowledge on merchandise Mix.
			CO3: To obtain knowledge in various store layout

		Merchandising	CO4: To create an effective store window displays
			CO5: To understand about store image and security in visual merchandising.
8	17PBGET108	Elective Paper I – Textile Economics	CO1: Understand the concepts of economics and textile policy of India
			CO2: Explore the rules for textile and apparel trade
			CO3: Describe the fundamental garments of textiles and clothing
			CO4: Predict the impacts of liberalization and firm levels
			CO5: Develop their knowledge in the role of foreign collaboration in textile and clothing sector
Semester II			
1	17PBGCT201	Core Paper - III Research Methodology	CO1: Categorize the type of Research and Research Problem
			CO2: Classify Research Design and Sampling
			CO3: Analyse the Methods of Data collection and Data analysis
			CO4: Build Knowledge on the Role of Statistics in Research
			CO5: Summarize the Statistical Hypothesis and Non-Parametric Tests
2	17PBGCT202	Core Paper - IV Apparel Quality Standard and Implementation	CO1: Understand the various quality standards.
			CO2: Gain knowledge about garment defects
			CO3: Perceive knowledge on Eco specification and restrictions in textile industry
			CO4: To obtain knowledge about quality control programs
			CO5: Build knowledge on types of care labels.
		Core Paper - V World Costumes	CO1: To obtain basic knowledge on American Textiles
			CO2: To understand the techniques used for different European costumes

3	17PBGCT203		CO3: Understanding the regional variations on costumes in far eastern countries
			CO4: To gain knowledge of African Costumes
			CO5: To understand the costumes of middle East countries
4	17PBGCP204	Core Practical - IV Digital Fashion Portfolios	CO1: Understand the concepts of fashion portfolios
			CO2: Develop skills in making mood boards using CAD software
			CO3: Compile their own ideas into flat sketches
			CO4: Critique new insights through coloring systems
			CO5: Design fashion ensembles based on selected themes
5	17PBGCP205	Core Practical - V Advanced Apparel Construction	CO1: Create and developing the concepts of pattern making
			CO2: Identify the materials suitable for various garments
			CO3: Develop their skills in garment construction
			CO4: Infer the concepts of fashion portfolios
			CO5: Explore their own designs for fashion shows
6	17PBGEP206	Elective Paper II Beauty Care Practical- I	CO1: Gain knowledge about the importance of beauty care
			CO2: Understand the practical nuances of threading
			CO3: Carryout nail services including manicuring and pedicuring
			CO4: Develop basic skin care services including skin analysis, bleaching and facial
			CO5: Perform hair care services for all types of hair including hair analysis and hair cutting
			CO1: Understand the basics of Industrial Psychology

7	17PBGET207	Elective Paper II Industrial Psychology	CO2:Develop knowledge on time and motion study
			CO3:State the type and causes of stress
			CO4:Summarize the qualities and principles of leadership
			CO5:Gain insights through training and development
8	17PBGET208	Elective Paper II Textile Chemistry	CO1:Explain the manufacturing and production sequence of processing
			CO2:Classify dyes and dyeing machines
			CO3:Understand the process of printing and printing techniques
			CO4:Elaborate the various finishing process
			CO5:Identify the textile industry pollution and effluent treatment
Semester III			
1	17PBGCT301	Core Paper - VI International Trade and Documentation	CO1:Evaluate and justify various documents for processing export and import transactions
			CO2:Develop the ability to understand and analyze the EXIM policy framework
			CO3:Identify major recent developments in the world trading system
			CO4:Assess the various terms and conditions of export finance
			CO5:Make use of export promotion measures
2	17PBGCT302	Core Paper - VII Technical Textiles	CO1: Categorize the various segments of technical textiles and Understand the application of high performance fibres
			CO2: Distinguish the importance of various finishes applied to technical textiles
			CO3: Perceive knowledge on thermal behavior of fibers and types of geo textiles
			CO4: Explain the applications of medical textile and agro textiles
			CO5: Analyse the commercial applications of smart and intelligent textiles
			CO1:Understand the importance of atmospheric

3	17PBGCT303	Core Theory – VIII Principles of Textile Testing	conditions in textiles
			CO2:Analyze the results of fiber testing for specific endues or next process
			CO3:Assess the faulty material and take remedial measures to ensure the quality of yarns
			CO4:Intervene in product development and research
			CO5: Interpret colour fastness properties in textile products
4	17PBGCP304	Core Practical - VI Principles of Textile Testing	CO1:Experiment with various type of textile fabrics using the relevant instruments
			CO2:Determine the dimensional property of textile materials
			CO3:Interpret the mechanical properties of the textile materials
			CO4:Assess the aesthetic properties of the raw materials
			CO5:Identify the colour fastness properties of the dyed and printed materials
5	17PBGCP305	Core Practical - VII Textile CAD	CO1: Identify the software for the varied design needs
			CO2: Experiment with the tools used in the software
			CO3: Develop in the art of digital pattern making, grading and marker planning
			CO4: Create their own weave designs along with colour applications
			CO5: Apply the created designs and patterns suitable for the textile needs
6	17PBGCP306	Core Practical - VIII Fashion Accessories Designing	CO1: Discover a personal creative style and developing an original way of expression
			CO2: Perceive knowledge on making theme based accessories
			CO3: Develop entrepreneurial skills
			CO4: Propose their own designs for fashion

			shows
			CO5: Design jewellerys using traditional techniques
7	17PBGET307	Elective Paper-III Business Organization and Office Management	CO1: Illustrate the types of business
			CO2: Explain various source of finance
			CO3: Understand the modern office concept
			CO4: Categorize the record management system
			CO5: Choose the office machine and furniture
8	17PBGET308	Elective Paper-III Principles of Costing	CO1: Interpret cost accounting statements
			CO2: Develop and evaluate information for cost stock control
			CO3: Calculate and account for various labour cost
			CO4: Prepare a budget of factory overheads cost
			CO5: Examine the basic concepts to determine product cost in different process
9	17PBGET309	Elective Paper-III Principles of Entrepreneurship	CO1: Build knowledge on various entrepreneurial traits
			CO2: Formulate the process to select a business idea
			CO3: Adapt strategic plans for implementing their own business
			CO4: Analyze the various financial institutions for the best financial deals
			CO5: Identify new business proposals and opportunities within existing business
Semester IV			
1	17PBGCT401	Core Paper - IX Home Textiles	CO1: Analyze the recent developments in home textiles
			CO2: Categorize the types of curtains and draperies
			CO3: Select suitable fabric structures for home textiles
			CO4: Create different types of linens used in home
			CO5: Develop wide knowledge on different types of layouts
			CO1: Apply advanced skin care services

2	17PBGEP403	Elective Paper-IV Beauty Care Practical-II	catering to the specific problems related to skin and hair
			CO2: Demonstrate advanced hair care services.
			CO3: Develop and practice cosmetology skills in makeup applications
			CO4: Build a career in the beauty industry
			CO5: Demonstrate customer service skills, self-growth and personality development
3	17PBGET404	Elective Paper-IV Computer Application in Business	CO1: Identify the application software in Microsoft Offices Suite
			CO2: Apply computer resources for use in business and academics
			CO3: Construct business and academic documents using Microsoft Word
			CO4: Make use of application features to complete tasks
			CO5: Classify the networking types
4	17PBGET405	Elective Paper-IV Fashion Retailing	CO1: Identify the fashion buying terminologies
			CO2: Understand the sales forecasting methods
			CO3: Apply the pricing strategies in fashion retailing
			CO4: Outline the fashion retail store planning
			CO5: Identify the types of brands in fashion retailing

Name of the Department : Physics	
Name of the Programme : B.Sc.,	
B.Sc Physics - OUTCOME	
Programme Outcome (PO):	At the end of the programme, students will be able to:
	<ul style="list-style-type: none"> • Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.

			<ul style="list-style-type: none"> • Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
			<ul style="list-style-type: none"> • Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.
			<ul style="list-style-type: none"> • Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
			<ul style="list-style-type: none"> • Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
			<ul style="list-style-type: none"> • Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.
			<ul style="list-style-type: none"> • Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.
			Programme Specific Outcome (PSO):
<ul style="list-style-type: none"> • Apply the basic knowledge in the specialized areas like Quantum Mechanics, Classical Mechanics and Mathematical Physics etc., in pursuing their higher education. 			
<ul style="list-style-type: none"> • Understand the scope of Physics in solving environmental issues. 			
<ul style="list-style-type: none"> • Choose career in the teaching profession. 			
S.No	Course Code	Course Name	Course Outcome (CO):

1	17UAOCT101	Mechanics, Properties of Matter and Sound	<p>CO1: Recollect the types of motion and conservation laws</p> <p>CO2: Understand the phenomenal of moment of inertia</p> <p>CO3: Apply the principles of elasticity to determine the modulus of elasticity</p> <p>CO4: Analyse the concepts involved in viscosity and surface tension</p> <p>CO5: Evaluate the basics of sound</p>
2	17UAOAT102	Allied A - Chemistry Theory I	<p>CO1: Predict atomic structure, chemical bonding or molecular geometry based on accepted models.</p> <p>CO2: Provide broad foundation about the merits and demerits of polymers.</p> <p>CO3: Acquire an idea about the chemical bonding, polar bond and stereoisomerism</p> <p>CO4: Integrate the chemical reactions for fertilizers and usage of insecticides and pesticides</p> <p>CO5: Understand the principles of kinetics and thermodynamics as applied to rates and equilibrium positions of chemical reactions.</p>
3	17UAOCT201	Heat and Thermodynamics	<p>CO1: Remember the significance of specific heats of different states of matter</p> <p>CO2: Understand the methods of heat transmission</p> <p>CO3: Apply the principles of kinetic theory in the transportation of gases</p> <p>CO4: Analyse the laws of thermodynamics</p> <p>CO5: Evaluate the value of entropy in reversible and irreversible processes</p>
4	17UAOCP202	Core Practical – I	<p>CO1: Recognize the methods of laboratory techniques</p> <p>CO2: Explore the relation between theory and experiment</p> <p>CO3: Acquire the basic ideas on the principle of resonance</p> <p>CO4: Correlate the principles of diffraction to experimental situations</p> <p>CO5: Apply experimental methodology to physical phenomena</p>
5	17UAOAT203	Allied A - Chemistry Theory II	<p>CO1: Learn the methods of metallurgy</p> <p>CO2: Get familiarized with the coordination compounds</p> <p>CO3: Understand the mechanism of aromatic compounds</p> <p>CO4: Know the different processes of thermodynamics</p> <p>CO5: Develop basic knowledge with the electrochemistry and Get a theoretical exposure for safety aspects of chemistry laboratory</p>

6	17UAOAP204	Allied Chemistry Practical	<p>CO1: Attain knowledge for the preparing normal solution</p> <p>CO2: Develop handling procedure of glass wares and accurate chemical laboratory skill</p> <p>CO3: Able to estimate the acid and base solutions volumetrically</p> <p>CO4: Learns the methods of organic analysis</p> <p>CO5: Get a distinguished idea about organic compounds</p>
7	17UAOCT301	Electricity and Magnetism	<p>CO1: Describe the behavior of charges at rest and the related terms</p> <p>CO2: Understand the magnetic analogue of electrostatics</p> <p>CO3: Apply the principles of thermoelectricity in real time situations</p> <p>CO4: Gain knowledge in the field of current electricity and able to solve problems</p> <p>CO5: Acquire ideas about motion of charges in various fields</p>
8	17UAOST303	SKILL BASED COURSE- Scientific Facts I	<p>CO1: Understand the current environmental problems.</p> <p>CO2: Understand the natural phenomena and the consequences</p> <p>CO3: Apply the science principles underlying in our everyday activities</p> <p>CO4: Describe the behaviour of stellar bodies</p> <p>CO5: Acquire scientific temperament in exploring things</p>
9	17UAONT304	NON - MAJOR ELECTIVE I Introduction to Electricity and Electronics	<p>CO1: Gain the knowledge of basics of electricity</p> <p>CO2: Understand and able to distinguish resistors based on colour code</p> <p>CO3: Come to recognize protective and control circuits</p> <p>CO4: Gain basic knowledge in the area of semiconductors</p> <p>CO5: Construct simple electronic circuits</p>
10	17UAOCT401	Optics	<p>CO1: Get an introduction to lens system and its role in modern era</p> <p>CO2: Understand the types of aberrations</p> <p>CO3: Get a thorough knowledge in the area of interference</p> <p>CO4: Analyse the technique of diffraction and its requirement</p> <p>CO5: Evaluate the process of polarisation</p>
11	17UAOCP402	Core Practical - II	<p>CO1: Recognize the methods of laboratory techniques</p> <p>CO2: Explore the relation between theory and experiment</p> <p>CO3: Apply the knowledge of electricity in real time applications</p> <p>CO4: Correlate the principles of interference to experimental situations</p> <p>CO5: Apply experimental methodology to physical phenomena</p>

12	17UAOST404	SKILL BASED COURSE - Scientific Facts II	CO1: Understand the science principles involved in our everyday activities CO2: Exposed to the working principles of everyday home appliances CO3: Apply the knowledge of physics in light appliances CO4: Recognize the physics behind modern appliances CO5: Gain exposure in the area of data transmitting devices
14	17UAONT405	NON - MAJOR ELECTIVE II Electrical and Electronic Appliances	CO1: Recollect the conventional sources of electric power generation CO2: Comprehend the working principles of lighting and heating CO3: Analyze the working of everyday home appliances CO4: Broaden their knowledge in the field of electronics CO5: Acquire scientific outlook in exploring things
15	17UAOAL406	Advanced Learner Course Bio-Physics	CO1: Understand the bonds associated with bio-molecules CO2: Gain knowledge about human body mechanism CO3: Analyse the biological significance of adsorption and colloids CO4: Understand the blend of physics principles in medical instruments CO5: Evaluate the effect of radiation exposure
16	17UAOAL407	Advanced Learner Course Energy Physics	CO1: Classify conventional and non-conventional energy sources and their importance CO2: Understand heat transfer mechanism CO3: Gain insight over the requirement of solar collectors CO4: Expand their views in utilization of solar energy for various household systems CO5: Evaluate the principles of electronics in solar power generators
17	15UAOCT501	Mathematical Physics	CO1: Correlate the principles of curl and divergence in practical applications CO2: Understand the concept of different coordinate systems CO3: Gain insight over the requirement of matrices CO4: Develop their views in Newtonian mechanics CO5: Evaluate the applications of Hamiltonian formalism
18	15UAOCT502	Quantum Mechanics and Relativity	CO1: Recollect the basic principles of wave mechanics CO2: Understand the validation of Schrodinger's equation CO3: Exposed to commutation algebra CO4: Analyse the differences between special and general theory of relativity CO5: Evaluate the underlying principles of general

			theory of relativity
19	15UAOCT503	Atomic Physics	CO1: Recollect the properties and production of cathode rays and positive rays CO2: Understand evolution of Atom models CO3: Infer the basic ideas of quantum numbers and spatial quantization CO4: Implement the application of X-rays in determining the crystal structures CO5: Comprehend various photoelectric cells
20	15UAOCT504	Basic Electronics	CO1: Reminisce the concepts of diodes CO2: Expand the principles of diodes to transistors CO3: Relate the applications of active components in amplifiers and oscillators CO4: Analyse the usage of passive components in clippers and clampers CO5: Estimate the application of op-amp in mathematical operations
21	15UAOET505	ELECTIVE COURSE I (A) - Laser, Fiber Optics and Non-Linear Optics	CO1: Understand the basic terminologies in laser CO2: Cognize the types of lasers and applications CO3: Exposed to the basics of optical fibres and the conditions for commercial applications CO4: Analyse the fibre optic communication system CO5: Acquire the insight on non-linear optics
22	15UAOST508	Office Automation	CO1: Cognize the basics of computer and networks in computers CO2: Understand the formatting styles in Ms word CO3: Develop the working knowledge in Ms Excel CO4: Exposed to the creation and formatting of effective power point presentation CO5: Evaluate graphics in power point presentation
23	15UAOCT601	Solid State Physics	CO1: Evoke the basics of crystal systems CO2: Understand the types of defects in crystals CO3: Apply the knowledge of magnetic properties in different theories of magnetism CO4: Expand the views in the phenomenon of superconductivity CO5: Evaluate the principles of optoelectronic devices
24	15UAOCT602	Nuclear Physics	CO1: Recall the basics of nuclei and study the models of nuclear structure CO2: Understand the mechanism of accelerators CO3: Aware the meaning of radioactivity and understand its origin CO4: Expand the views in discriminating fission and fusion CO5: Assess the origin of elementary particles

25	15UAOCT603	Fundamentals of Digital Electronics	CO1: Recollect number systems and binary codes CO2: Understand the implement of logic gates CO3: Resolve the usage of Arithmetic circuits and flip-flops CO4: Analyse the usage of flip-flops in counters and shift registers CO5: Investigate converters in digital circuits
26	15UAOCP604	Core Practical – III General Practical	CO1: Recognize the principles of diffraction in experimental situations CO2: Explore the relation between theory and experiment CO3: Apply the knowledge of Alternating circuits in practical experimentation CO4: Analyse the applicability of potentiometer CO5: Evaluate the principles involved in Ballistic galvanometer experiments
27	15UAOCP605	Core Practical – IV Electronics Practical	CO1: Recollect the principles of semiconductors and evaluate its validation in practicals CO2: Understand the applications of logic gates in logic circuits CO3: Implicate the ideas of theory in constructing the circuits CO4: Investigate the basic programming of 8085 microprocessor CO5: Review the instruments in wide variety of applications
28	15UAOET608	Numerical Methods	CO1: Recall the basics of curve fitting CO2: Understand the methods of numerical algebraic and transcendental equations CO3: Apply the method to find the solution of simultaneous linear algebraic equations CO4: Analyse the forward and backward interpolation methods CO5: Evaluate numerical integration and differential equations
29	15UAOET609	Principles of Programming Concepts and C Programming	CO1: Recall the basic programming structure CO2: Understand the implementation of operators CO3: Exposed to decision making and branching structures CO4: Analyse the requisites of arrays and functions CO5: Evaluate pointers in c programming
30	15UAOSP612	Skill Based Course – Practical C and Office Automation	CO1: Recall the theory in document preparation CO2: Gain the practical knowledge in excel CO3: Develop basic programming skill in C CO4: Analyze simple programs in C language CO5: Evaluate matrix addition and subtraction

Name of the Department: **Management Science**

Name of the Programme: **M.B.A**

Programme outcome (PO):

At the end of the Programme, Students will be able to:

1. Cover an exposure to management education which will facilitate the students to face the global challenges.
2. Students will develop professional skills that prepare them for immediate employment and for life-long learning in advanced areas of management and related fields.
3. Students will establish themselves as effective professionals by solving real problems through the use of management science knowledge and with attention to team work, effective communication, critical thinking and problem solving skills.
4. Students will be provided with an educational foundation that prepares them for excellence, leadership roles along diverse career paths with encouragement to professional ethics and active participation needed for a successful career.

Programme Specific Outcome (PSO):

At the end of the Programme, students will be equipped with the Knowledge in:

1. The field of Management Science.
2. Business theory and practice to make effective decisions.
3. Prepare and deliver effective business documentation.
4. Possess the skills required to work and lead effectively in a team-based environment.

ODD SEMESTER

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17PBDCT101	MANAGEMENT PROCESS	CO1: Understand the basis of Management. CO2: Acquire knowledge about planning and decision making. CO3: Gain knowledge about organization Structure and delegation. CO4: Gain exposure on staffing, motivation

			and leadership. CO5: Exhibit awareness on Coordination and control techniques.
2	17PBDCT102	ORGANIZATIONAL BEHAVIOUR	CO1: Understand the basics of Organizational Behavior. CO2: Acquire the knowledge of the individual behaviour. CO3: Demonstrate knowledge about group behaviour in organizations. CO4: Able to understand and identify key principles of Organisational Politics, change and development. CO5: Able to apply the theories to practical problems in organizations in a critical manner.
3	17PBDCT103	MANAGERIAL ECONOMICS	CO1: Articulate the fundamental managerial economic concepts and understand the roles of managers in the firm. CO2: Analyze the demand conditions and forecast the position of a company. CO3: Determine a cost efficient method of production, and supply analysis in the managerial implications. CO4: Design different types of pricing in accordance with the nature of market. CO5: Determine the implications of government policy on industry and industrial business.
4	17PBDCT104	ACCOUNTING FOR MANAGERS	CO1: Understand the fundamental principles of accounting. CO2: Prepare and analyze a financial statement and assist in management decision making. CO3: Gain specific knowledge on cost concept necessary for managerial decision. CO4: Acquire necessary skills to prepare various budgets. CO5: Develop the skills needed to apply the knowledge on the tools of management accounting in varied situations.
5	17PBDCT105	STATISTICS FOR BUSINESS DECISIONS	CO1: Know the importance ,functions and limitations of statistics. CO2: Calculate measures of central tendency. CO3: Find range, quartile deviation, standard deviation. CO4: Determine the relationship between

			two variables. CO5: Understand the characteristics of index number and analysis of time series.
6	17PBDCT106	EXECUTIVE COMMUNICATION	CO1: Understand and identify key principles of business communication. CO2: Able to Identify the appropriate use of different channels of written communication in business. CO3: Acquire knowledge about preparing reports, minutes of meeting and agenda for business . CO4: Develop skills for public speaking, interpersonal skills and using social media for business. CO5: Gain specific knowledge about use of non verbal communication and new technologies for business communication.
EVEN SEMESTER			
S.No.	Course Code	Course Name	Course Outcome (CO)
1	17PBDCT201	PRODUCTION AND OPERATIONS MANAGEMENT	CO1: Describe the basis on production system. CO2: Gain exposure on product design and plant layout. CO3: Exhibit awareness on production planning and control. CO4: Gain knowledge on material management and inventory control techniques. CO5: Analyze the total quality system and ISO quality certifications.
2	17PBDCT202	MARKETING MANAGEMENT	CO1: Understand the basic Marketing concepts and its environment. CO2: Gain exposure on buying behaviour and product decisions. CO3: Identify appropriate pricing and distribution channels. CO4: Determine the appropriate promotion mix and take prompt decision. CO5: Fetch a knowledge about recent trends in marketing.

3	17PBDCT203	FINANCIAL MANAGEMENT	<p>CO1: Understand the functional areas of financial management.</p> <p>CO2: Acquire knowledge to measure the cost of capital.</p> <p>CO3: Application of capital budgeting techniques for project analysis.</p> <p>CO4: Determine the capital structure and predict the change in the value of firm. with respect to dividend decisions.</p> <p>CO5: Gain knowledge towards effective management of current asset.</p>
4	17PBDCT204	HUMAN RESOURCE MANAGEMENT	<p>CO1: Identify the concepts of Human resource Management and its relevance in Organization.</p> <p>CO2: Develop necessary skill sets for application of various recruitment processes in organizations.</p> <p>CO3 Gain knowledge about the training needs and training methods in organizations.</p> <p>CO4: Acquire knowledge about compensation concepts and the context of compensation practice.</p> <p>CO5: Gain descriptive knowledge of the field of industrial relations.</p>
5	17PBDCT205	QUANTITATIVE TECHNIQUES	<p>CO1: Gain knowledge about operations research.</p> <p>CO2: To solve transportation and assignment problems.</p> <p>CO3: Apply queuing theory and networking in managerial areas.</p> <p>CO4: Gain knowledge in decision analysis.</p> <p>CO5: Generate random numbers and application of simulation.</p>
6	17PBDCT206	RESEARCH METHODS FOR MANAGEMENT	<p>CO1: Describe the basis on research process.</p> <p>CO2: Gain exposure on research design and sampling methods.</p> <p>CO3: Exhibit awareness on scaling techniques and data collection methods.</p> <p>CO4: Gain knowledge on data analysis and statistical tools.</p> <p>CO5: Develop exposure for interpretation and report writing.</p>
7	17PBDCT207	COMPUTER APPLICATIONS IN MANAGEMENT - PRACTICAL	<p>CO1: Describe the basis on MS Word.</p> <p>CO2: Gain the knowledge about word formatting.</p> <p>CO3: Learn the basics about working with MS Excel and Ms PowerPoint.</p> <p>CO4: Gain exposure on formatting work sheets and creating transition slides.</p> <p>CO5: Demonstrate the understanding of</p>

			computer applications in management.
--	--	--	--------------------------------------

Name of the Department: Social Work

Name of the Programme: M.S.W

<p>Programme outcome (PO):</p> <p>1. Critical Thinking: Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.</p> <p>2. Effective Communication: Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and making meaning of the world by connecting people, ideas, books, media and technology.</p> <p>3. Social Interaction: Elicit views of others, mediate disagreements and help reach conclusions in group settings.</p> <p>4. Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.</p> <p>5. Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.</p> <p>6. Environment and Sustainability: Understand the issues of environmental contexts and sustainable development.</p> <p>7. Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.</p>			
<p>Programme Specific Outcome (PSO):</p> <ul style="list-style-type: none"> • The fields of social work and specializations. • To deal the labours, needy people in counselling and community with welfare schemes. • To mould and shape an individuals to increase their social contribution. 			
S.No	Course Code	Course Name	Course Outcome (CO)
1	17PBCCT301	SOCIAL WELFARE	<p>CO1: Gain knowledge about the importance and scope of social welfare administration.</p> <p>CO2: Enrich knowledge about the role of voluntary organizations in social welfare administration</p> <p>CO3: Learn the procedures to register an</p>

		ADMINISTRATION	organization CO4: Acquire knowledge about the social policy CO5: Know the concept of project management
2	17PBCCT302	HUMAN RIGHTS AND SOCIAL LEGISLATION	CO1: Learn the fundamentals of human rights CO2: Gain the knowledge of fundamental duties and rights under the Indian constitution CO3: Learn the concepts related to social planning CO4: Gain knowledge about social legislation CO5: Posses knowledge about national and international level and way to deals with legislation policies
3	17PBCET303	LABOUR LEGISLATIONS	CO1: Attain knowledge on labour legislation CO2: Know the rights of employees at their working condition CO3: Learn the provisions relating to welfare measures CO4: Know the provisions relating to employee wages CO5: Gain knowledge on social security.
4	17PBCET304	HOSPITAL ADMINISTRATION	CO1: Know about the hospital settings CO2: Learn about the planning a hospital CO3: Know the hospital administration CO4: Gain knowledge about staffing CO5: Understand the concepts related to hospital budget
5	17PBCET305	URBAN COMMUNITY DEVELOPMENT	CO1: Know about the urban community, slums and migration. CO2: Gained knowledge about urbanization and urbanism. CO3: Learned the urban community development. CO4: Enriched with knowledge about the urban development administration. CO5: Learn about the urban development programmes implemented in Tamil Nadu and India.

6	17PBCET306	INDUSTRIAL RELATIONS	<p>CO1: Gain knowledge about the concepts of industrial relations</p> <p>CO2: Understand the ethical code and effects of industrial conflict</p> <p>CO3: Possess the sound knowledge of industrial conflict and dispute</p> <p>CO4: Acquire knowledge about trade unionism</p> <p>CO5: Understand the collective bargaining and workers participation.</p>
7	17PBCET307	FOUNDATION OF PSYCHIATRY – I	<p>CO1: Inspired and use inner wisdom to work in the field of mental health</p> <p>CO2: Learn about the concepts related to mental disorders</p> <p>CO3: Know the information about neurotic disorders</p> <p>CO4: Gain knowledge about functional psychosis</p> <p>CO5: Understand the concepts related to psychopathology, diagnosis and treatment of organic disorders.</p>
8	17PBCET308	WELFARE OF WEAKER SECTIONS	<p>CO1: Gain knowledge about the different categories of weaker section.</p> <p>CO2: Learn the impact of untouchability prevailing in the community.</p> <p>CO3: Imparted with the knowledge about scheduled castes</p> <p>CO4: Learn about the scheduled tribes.</p> <p>CO5: Learn the status of women and empowerment.</p>
9	17PBCAL310	SOCIAL WORK WITH TRANSGENDER	<p>CO1: The students would learn about transgender</p> <p>CO2: Attain knowledge on Transgender healthcare</p> <p>CO3: Make the students to understand the Problems of transgender</p> <p>CO4: Enrich their knowledge on Social work practice with transgender</p> <p>CO5: Learn about the Legal measures for transgender.</p>
10	17PBCAL311	DISASTER MANAGEMENT	<p>CO1: The student would learn about disaster management</p> <p>CO2: Attain knowledge on preventive measures.</p> <p>CO3: Make the students understand about rehabilitation.</p> <p>CO4: Enrich their knowledge on Relief measures.</p>

			CO5: Study about the role of NGOs and social worker in disaster management.
11	17PBCCT401	SOCIAL ENTREPRENEURSHIP AND CORPORATE SOCIAL RESPONSIBILITY	CO1: The student would learn about entrepreneurial skills and its growth CO2: Attain knowledge about updating on MDG's CO3: Make the students understand the business ethics and CSR in global scenario. CO4: Enrich their knowledge on social reporting CO5: Learn about the emerging trends of CSR.
12	17PBCET402	HUMAN RESOURCE MANAGEMENT	CO1: Effective management of human capital CO2: Gain knowledge on HR aspects CO3: Learn the importance of training and roles of training manager CO4: Learn the wage system and fringe benefits CO5: Update the trends in HRD.
13	17PBCET403	FOUNDATION OF PSYCHIATRY –II	CO1: Inspired to learn about childhood disorders CO2: Learn about the concepts of personality disorders CO3: Gain knowledge on Behavioural Syndromes associated with psychological disturbances CO4: Possess familiarity about different types of drugs CO5: Understand the concepts of trans-cultural psychiatry
14	17PBCET404	SOCIAL DEVELOPMENT	CO1: Learn the basic concept of development CO2: Gaining knowledge about the social development and challenges of social development CO3: Learn the economic policy and development, privatization and liberalization CO4: Know the globalization and sustainable development goals CO5: Learn the core life skills and to develop the life skills

15	17PBCET405	ORGANIZATIONAL BEHAVIOUR	<p>CO1: Learn the foundations of organizational behavior</p> <p>CO2: Posses sound a knowledge about individual and groups in organization</p> <p>CO3: Gain knowledge about motivation and communication</p> <p>CO4: Learning concepts related to organizational structure</p> <p>CO5: Acquire knowledge about organizational change and development.</p>
16	17PBCET406	PSYCHIATRIC SOCIAL WORK PRACTICE	<p>CO1: Learn the foundations of psychiatric social work</p> <p>CO2: Sound knowledge about treatment for the mentally ill patients</p> <p>CO3: Gain knowledge about psychological methods for the mentally ill patients</p> <p>CO4: Learn concepts related to role of psychiatric social worker</p> <p>CO5: Acquire knowledge about policies and legislations related to mental health in India.</p>
17	17PBCET407	MANAGEMENT OF NON-PROFIT ORGANIZATION	<p>CO1: Know about the basics of Non-profit organization</p> <p>CO2: Learn the establishment of the NPOs and also about the policy making</p> <p>CO3: Gain knowledge about the project identification and project formulation</p> <p>CO4: Aware of fund raising of NGOs</p> <p>CO5: Learn about the project evaluation and monitoring.</p>

(2018-2019)

Name of the Department: **BUSINESS ADMINISTRATION**

Name of the Programme: **BUSINESS ADMINISTRATION**

Programme outcome (PO):

1. Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context of socio-technological changes.

2. Critical Thinking: Execute well structured actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at ideas and decisions (intellectual, and personal) from different perspectives.

3. Social Interaction: Elicit views of others, mediate disagreements and help to reach conclusions in group settings.

4. Effective Citizenship: Demonstrate empathetic social concern and equity centered national development, The ability to act with an informed awareness of issues and voluntary participation in civic life through volunteering.

5. Ethics: Recognize ethical value of life, understanding the moral dimensions of your decisions, and accept responsibility for them.

Programme Specific Outcome (PSO):

At the end of the programme, students will be equipped with the Knowledge in:

1. The field of Business Management and Entrepreneurship

2. Mathematical, analytical and statistical tools for making Business decisions.

3. Process information for the efficient performance in management functions.

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17UABCT101	MANAGEMENT PROCESS	CO1: Identify and explain the importance of the management process and identify some of the key skills required for the contemporary management practice. CO2: Develop business plans that support a company's strategic objectives. CO3: Select and use appropriate resources to organize various functions of management CO4: Evaluate leadership styles on analyzing the consequences of each style CO5: Practice critical and creative thinking to improve the control process.
2	17UABCT102	BUSINESS COMMUNICATION	CO1: Identify examples of effective communication and its importance in business. CO2: Able to prepare letters for various business activities. CO3: Understand the importance of internal and external communication. CO4: Enable to prepare informal and formal

			letters. CO5: Identify the suitable communication method based on the organization structure.
3	17UABAT103	MATHEMATICS FOR MANAGERS I	CO1: Apply the concepts of simple interest and compound interest, set operations. CO2: Solve the problems using Matrices. CO3: describe different types, collection and presentation of data. CO4: Determine the measures of central tendency and dispersion. CO5: Apply Correlation and Regression in statistical analysis and index numbers.
4	17E01	ENGLISH-I	CO1: Understand the various forms of sentences and learn ethical values through literary essays. CO2: Gain knowledge about aesthetic beauty of language through poems. CO3: Identify the descriptive and narrative techniques through short stories CO4: Enrich the vocabulary and acquire grammatical and compositional knowledge. CO5: Enhance the speaking ability through soft skills.

(2018-2019)

Name of the Department: Biochemistry

Name of the Programme: B.Sc

Programme outcome (PO): At the end of the programme, students will be able to:

- **Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
- **Social Interaction:** Elicit views of others, mediate disagreements and help reach

conclusions in group settings.

- **Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- **Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
- **Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcome (PSO):

At the end of the programme, students will be equipped with the Knowledge in:

- Comprehending the fundamental Biochemical principles and the regulation of Biological/Biochemical processes.
- Understanding on the impact of Biochemistry on Environment, Society and other cultures outside the Scientific community
- Applying and practicing the Ethics surrounding Scientific research
- Writing and speaking about Biochemistry topics in a clear and concise manner according to professional standards

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17UAPCT101	BIOMOLECULES	CO1: Gain the fundamental knowledge about the properties of sugar molecules. CO2: Acquire the significance of lipids in our body. CO3: Get familiarized with the structure of amino acids, formation of peptide bonds and protein architecture. CO4: Able to understand the structure and properties of DNA and RNA. CO5: Attain the sources, function and deficiency symptoms of Vitamins and Minerals.
2	17UAPCT102	CELL BIOLOGY	CO1: Describe the levels of organization and related functions in prokaryotes and eukaryotes. CO2: Gain knowledge with the structure and transport of molecules across biological membrane.

			<p>CO3: Acquire emphasized understanding with the structure and functions of Cell organelles.</p> <p>CO4: Understand relationship between cellular and genetic organization and biological functions</p> <p>CO5: Explain the process of cell division and gain an outline idea about the cancer biology.</p>
3	17UAPAT103	ALLIED I : CHEMISTRY- I	<p>CO1: Predict atomic structure, chemical bonding or molecular geometry based on accepted models.</p> <p>CO2: Provide broad foundation about the merits and demerits of polymers.</p> <p>CO3: Acquire an idea about the chemical bonding, polar bond and stereoisomerism.</p> <p>CO4: Integrate the chemical reactions for fertilizers and usage of insecticides and pesticides.</p> <p>CO5: Understand the principles of kinetics and thermodynamics as applied to rates and equilibrium positions of chemical reactions.</p>
4	17ES01	FOUNDATION COURSE I - ENVIRONMENTAL STUDIES	<p>CO1: Understand the basis of Ecosystems</p> <p>CO2: Know the importance of Natural resources</p> <p>CO3: Acquire the knowledge of Biodiversity and Conservation</p> <p>CO4: Learn the importance of Disaster management and Environmental pollution</p> <p>CO5: Gain an idea about Environmental policies and practices</p>
5	17UAPCT201	BIOMEDICAL INSTRUMENTATION	<p>CO1: Demonstrate an integrated knowledge of the core concepts of pH meter and buffer.</p> <p>CO2: Acquired some technical knowledge of chromatography techniques.</p> <p>CO3: How visualizing a protein or DNA structure is a matter of perspective.</p> <p>CO4: Attain a experimental knowledge with the spectrophotometers and bio medical instruments</p> <p>CO5: Recognize potential laboratory safety concerns for radiation techniques.</p>

6	17UAPCP202	CORE BIOCHEMISTRY PRACTICALS I	<p>CO1: Exhibit Knowledge on the biochemical calculations.</p> <p>CO2: Learn the pH measurement techniques for buffer.</p> <p>CO3: Acquire practical exposure with chromatographic techniques.</p> <p>CO4: Develop laboratory skills required for a qualitative analysis of Carbohydrates and Lipids.</p> <p>CO5: Get practical exposure with Amino acids analysis qualitatively.</p>
7	17UAPAT203	ALLIED II: CHEMISTRY- II	<p>CO1: Learn the methods of metallurgy.</p> <p>CO2: Get familiarized with the coordination compounds.</p> <p>CO3: Understand the mechanism of aromatic compounds.</p> <p>CO4: Know the different processes of thermodynamics.</p> <p>CO5: Develop basic knowledge with the electrochemistry and Get a theoretical exposure for safety aspects of chemistry laboratory.</p>
8	17UAPAP204	ALLIED PRACTICALS I : CHEMISTRY PRACTICALS	<p>CO1: Attain knowledge for the preparing normal solution.</p> <p>CO2: Develop handling procedure of glass wares and accurate chemical laboratory skill.</p> <p>CO3: Able to estimate the acid and base solutions volumetrically.</p> <p>CO4: Learns the methods of organic analysis.</p> <p>CO5: Get a distinguished idea about organic compounds.</p>
9	17VE01	FOUNDATION COURSE II: VALUE EDUCATION	<p>CO1: Understand basics of Value education</p> <p>CO2: Acquire the knowledge of soft skills</p> <p>CO3: Know the importance of family values</p> <p>CO4: Gain an idea about Youth empowerment</p> <p>CO5: Learn the significance about Social values</p>
10	17UAPCT301	ENZYME AND ENZYME TECHNOLOGY	<p>CO1: Describe structure, characteristics and functions of enzymes</p> <p>CO2: Learn kinetics of enzyme catalyzed reactions and enzyme inhibitory and regulatory process.</p> <p>CO3: Acquire knowledge on mechanism of</p>

			<p>action of enzymes</p> <p>CO4: Understand design of bioreactors and apply principles of bioprocess to the industrial production of enzymes</p> <p>CO5: Gain exposure to wide applications of enzymes that can benefit human life and their future potential</p>
11	17UAPCT302	MICROBIOLOGY	<p>CO1: Exhibit mastery of the principal areas of the Microbiology like microbial physiology (Bacteria, Fungi & Algae).</p> <p>CO2: Students will be able to acquire the basic concepts to operate the different varieties of Microscopes.</p> <p>CO3: Develop basic skills necessary to work with microbial cultures in Microbiological Laboratory.</p> <p>CO4: Explain the fundamental genetic systems of Virus and Bacteriophage.</p> <p>CO5: Understanding of the normal and common pathogenic organisms associated with human infectious diseases and the role of microbes in fermentation process.</p>
12	17UAPAT303	BIOMATHEMATICS	<p>CO1: Apply the concepts of binomial and exponential theorems in summation of series</p> <p>CO2: Solve the problems using Matrices</p> <p>CO3: Relate circular and hyperbolic functions by using trigonometric expansions</p> <p>CO4: Determine the measures of central tendency and dispersion</p> <p>CO5: Apply Correlation and Regression in statistical</p>
13	17UAPST304	NUTRITIONAL BIOCHEMISTRY	<p>CO1: Acquire detailed knowledge regarding the biological basis of nutrition.</p> <p>CO2: Develop laboratory skills required for a modern biochemical study of nutrition includes the quantitative analysis and interpretation of results.</p> <p>CO3: Attain the mechanisms by which diet can influence our health.</p> <p>CO4: Integrate biochemical mechanisms with disease pathology and clinical treatment options.</p> <p>CO5: Gain the principles, knowledge and application of integrative nutrition in</p>

			the areas of whole foods & food as a medicine.
14	17UAPNT305	HEALTH AND HYGIENE	<p>CO1: Develop basic knowledge on health and personal hygiene.</p> <p>CO2: Understand the role of nutrients for good health.</p> <p>CO3: Explain the mode of transmission and dietary planning for communicable diseases.</p> <p>CO4: Understand the food behavioral changes due to modernization and areas of fitness.</p> <p>CO5: Exhibit knowledge on circadian rhythm and occupational stress.</p>
15	17UAPCP401	INTERMEDIARY METABOLISM	<p>CO1: Understand the fundamental concepts of energetics of biochemical processes</p> <p>CO2: Integrate knowledge on how the body metabolizes glucose and stores energy.</p> <p>CO3: Understand lipid metabolism and the role of lipids in the formation of metabolites.</p> <p>CO4: Learn the different process of anabolism and catabolism of Proteins</p> <p>CO5: Comprehend the role of purine and pyrimidines in nucleic acid metabolism.</p>
16	17UAPCP402	CORE BIOCHEMISTRY PRACTICALS - II	<p>CO1: Gain the fundamental knowledge of working with colorimeter and interpretation.</p> <p>CO2: Able to estimate the substance using titrimetric assays.</p> <p>CO3: Get familiarized with the assay of enzymes.</p> <p>CO4: Acquire practical exposure with chromatographic techniques.</p> <p>CO5: Get better knowledge with electrophoretic techniques</p>

17	17UAPAT403	BASICS OF COMPUTER SCIENCE	<p>CO1: Describe the features and components of windows XP</p> <p>CO2: Perform documentation with various formatting in MS-Word 2007</p> <p>CO3: Compute calculations and generate charts in MS-Excel 2007</p> <p>CO4: Illustrate the presentation skills in MS-PowerPoint 2007</p> <p>CO5: Create Database, Table, Query, Forms and Reports</p>
18	17UAPAP404	COMPUTER PRACTICALS	<p>CO1: Create letter heads, resume, timetable and mail merging of letters in MS-Word</p> <p>CO2: Prepare Student Mark list and generate Charts and Reports in MS-Excel</p> <p>CO3: Demonstrate presentation with simple and animated effects in MS-Power Point</p> <p>CO4: Database, Tables, Query, Forms and Reports in MS-Access</p>
19	17UAPST405	NANOTECHNOLOGY AND CLINICAL TRIALS	<p>CO1: Gain the fundamentals of Nanotechnology and to get knowledge familiarize with the new concepts of Nanoscience and Technology.</p> <p>CO2: Ability to manipulate matter at molecular scale and attain the principal classes of biomaterials and their functionalities in modern medical science.</p> <p>CO3: Impart basic knowledge on various synthesis and characterization techniques involved in Nanotechnology</p> <p>CO4: Acquire the outline interest of research about health care and study population.</p> <p>CO5: Attain general basics related to document development used in clinical trials.</p>
20	17UAPAL406	BIOPHYSICS	<p>CO1: Able to analyze and explain key concepts in biophysics.</p> <p>CO2: Prepare them to be competitive in pursuing advanced studies or employment in medical, biotechnical & pharmaceutical fields.</p>

			<p>CO3: Provide broad foundation about various sensing and measurement machines in biomedical sciences.</p> <p>CO4: Learn methods of experimental physics.</p> <p>CO5: Acquire an idea about artificial organs and its function mimicking natural ones.</p>
21	17UAPAL407	PHYTOCHEMISTRY AND PHYTOCHEMICAL TECHNIQUES	<p>CO1: Able to identify plant primary and secondary metabolites.</p> <p>CO2: Learn methods of experimental techniques of phytochemicals.</p> <p>CO3: Develop skill to qualitative analysis of plant constituents.</p> <p>CO4: Acquire knowledge on the skills of methods of separation of natural plant constituents.</p> <p>CO5: Acquire good knowledge about the uses of different active constituents of medicinal plants.</p>
22	17UAPNT408	NUTRITION AND DIET THERAPY	<p>CO1: Students will be able to acquire the basic concepts to Diet therapy.</p> <p>CO2: Develop basic idea of nutritional requirement during infections.</p> <p>CO3: Exhibit the knowledge about dietary requirements during liver and abdominal diseases.</p> <p>CO4: Explain the dietary habits for renal and heart patients.</p> <p>CO5: Understand the impact of diet on pregnancy and geriatric nutrition.</p>

(2018-2019)

Name of the Department: **Biochemistry**

Name of the Programme: **M.Sc**

Programme outcome (PO): At the end of the programme, students will be able to:

- **Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives.
- **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language and make meaning of the world by connecting people, ideas, books, media and technology.
- **Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings.
- **Effective Citizenship:** Demonstrate empathetic social concern and equity centered national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering.
- **Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.
- **Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development.
- **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes.

Programme Specific Outcome (PSO):

At the end of the programme, students will be equipped with the Knowledge in:

- Representing the key principles of Biochemistry at an advanced level.
- Identifying local and global issue that need intervention by a Biochemist and develop Biochemical approaches accordingly to solve the problems.
- Demonstrating critical thinking skills/ laboratory techniques and be capable of designing, carrying out and interpreting Scientific experiments
- Applying and effectively communicate scientific reasoning and data analysis in both Written and Oral forums.
- Exhibiting the principles of Scientific and Professional ethics.

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17PBFCT101	BIOPOLYMERS	CO1: Acquire the knowledge of polysaccharides that is key to all living system. CO2: Understand the higher order structures and functions of Proteins. CO3: Obtain an idea about Lipids, Lipaminoacids and its significance. CO4: Learn the structure, functions and interaction of Nucleic acids with

			<p>Proteins.</p> <p>CO5: Know the importance of Natural products.</p>
2	17PBFCT102	BIOCHEMICAL TECHNIQUES	<p>CO1: Acquire the knowledge in Chromatographic and Cytotoxic assays.</p> <p>CO2: Understand the techniques of Electrophoresis.</p> <p>CO3: Obtain an idea about Centrifugation and its applications.</p> <p>CO4: Learn the instrumentation and applications of Spectrophotometer.</p> <p>CO5: Know the importance of Radiochemical techniques in biology.</p>
3	17PBFCT103	ENZYMES AND ENZYME TECHNOLOGY	<p>CO1: Acquire the knowledge in Enzyme activity.</p> <p>CO2: Obtain an idea about mechanism of enzyme action.</p> <p>CO3: Understand Enzyme kinetics and Enzyme inhibition.</p> <p>CO4: Know the industrial applications of enzymes.</p> <p>CO5: Learn the importance of Enzyme technology in Genetic engineering..</p>
4	17PBFCT104	CELLULAR BIOCHEMISTRY	<p>CO1: Understand the structure of Membrane bilayer.</p> <p>CO2: Obtain the knowledge of Membrane transport mechanisms.</p> <p>CO3: Gain an idea about ATP synthesis mechanism and the structure of Cytoskeleton filaments.</p> <p>CO4: Learn about the Cell-cell adhesion molecules and Cell signaling pathways.</p> <p>CO5: Know the Cell cycle events and basic concepts of Cancer biology.</p>

5	17PBFCT105	PLANT BIOCHEMISTRY AND BIOTECHNOLOGY	<p>CO1: Understand the principles of Photosynthesis.</p> <p>CO2: Obtain knowledge about different Carbon reactions in plants.</p> <p>CO3: Gain knowledge in Nitrogen and Sulphur cycles and its importance.</p> <p>CO4: Learn the structure of plant genes and basics of tissue culture.</p> <p>CO5: Know the production of transgenic plants.</p>
6	17PBFCT106	CORE BIOCHEMISTRY PRACTICAL I	<p>CO1: Understand the Biochemical calculations.</p> <p>CO2: Quantify the Biomolecules from Natural sources.</p> <p>CO3: Learn the techniques of Chromatography.</p> <p>CO4: Acquire an idea about the Biological data bases and Sequence similarity tools.</p> <p>CO5: Study about Gene prediction and Molecular visualization tools.</p>
7	17PBFET107	BIOINFORMATICS AND NANOTECHNOLOGY	<p>CO1: Understand the biological databases like Nucleic acids and Proteins.</p> <p>CO2: Obtain knowledge about various tools in Sequence alignment.</p> <p>CO3: Gain knowledge in Protein prediction and Drug designing.</p> <p>CO4: Learn the properties and synthesis of Nanomaterials.</p> <p>CO5: Know the characterization of Nanomaterials and its applications.</p>
8	17PBFET108	COMPUTATIONAL MOLECULAR BIOLOGY	<p>CO1: Understand the different Data bases in Molecular biology.</p> <p>CO2: Obtain knowledge about Pattern matching and Sequence alignment.</p> <p>CO3: Gain knowledge in Phylogenetic analysis.</p> <p>CO4: Learn the Clustering and functional analysis of regulated genes.</p> <p>CO5: Know the Concepts of sequence comparison techniques.</p>

9	17PBFET109	BIOPHYSICS AND CRYSTALLOGRAPHY	<p>CO1: Acquire the knowledge in Medical imaging process.</p> <p>CO2: Gain an idea about Electro physiological measurements.</p> <p>CO3: Understand the latest concepts in Non electrical devices.</p> <p>CO4: Know the basics in Crystallography.</p> <p>CO5: Learn about X-ray diffraction methods.</p>
10	17PBFCT201	MICROBIAL BIOCHEMISTRY	<p>CO1: Acquire the knowledge of Microbial growth and Energy yielding metabolic pathways.</p> <p>CO2: Gain an idea about Fermentation process and biosynthetic pathways of macromolecules in microorganisms.</p> <p>CO3: Understand the basic structure and types of Bioreactor.</p> <p>CO4: Know the techniques in production of Microbial products.</p> <p>CO5: Learn the applications of Microorganisms.</p>
11	17PBFCT202	IMMUNOLOGY	<p>CO1: Gain an idea about Cells and Organs of immune system.</p> <p>CO2: Learn about Antigens and Antibodies.</p> <p>CO3: Understand the concepts in Vaccine production and Immunotechniques.</p> <p>CO4: Acquire the knowledge of MHC, Cell and Antibody mediated immunity.</p> <p>CO5: Know the basic immunological concepts of Hypersensitivity, Autoimmunity and Transplantation immunology.</p>
12	17PBFCT203	ENDOCRINOLOGY	<p>CO1: Understand the concept of Hormones and its action.</p> <p>CO2: Provide information's about the Pituitary gland hormones and growth hormone.</p> <p>CO3: Learn the structure and hormonal role of Thyroid and Parathyroid gland.</p> <p>CO4: Acquire the physiological role of Pancreatic, Adrenal medulla and Adrenocorticol hormones.</p> <p>CO5: Obtain an idea about Reproductive</p>

			endocrinology.
13	17PBFCT204	MOLECULAR BIOLOGY AND MOLECULAR GENETICS	<p>CO1: Acquire the basic principles of transmission genetics.</p> <p>CO2: Know the molecular structure of genes and chromosomes.</p> <p>CO3: Understand the Central Dogma of molecular biology.</p> <p>CO4: Gain the knowledge about pro and Eukaryotic transcription.</p> <p>CO5: Learn the mechanism of protein synthesis.</p>
14	17PBFCT205	CORE BIOCHEMISTRY PRACTICAL II	<p>CO1: Know the fundamental procedure for identification of Phytochemicals in various natural sources.</p> <p>CO2: Quantify the Nucleic acids from animal sources.</p> <p>CO3: Understand the quantification of phytochemicals.</p> <p>CO4: Learn the concepts in isolation and purification of enzymes.</p> <p>CO5: Gain an idea about the Immunotechniques.</p>
15	17PBFET206	ANIMAL CELL CULTURE TECHNIQUES	<p>CO1: Understand the basic principles of Animal cell culture.</p> <p>CO2: Know the importance of Animal cell culture media.</p> <p>CO3: Attain an idea about biology of cultured cells.</p> <p>CO4: Learn about different types of culture.</p> <p>CO5: Obtain the concepts in production of transgenic animals.</p>
16	17PBFET207	GENOMICS	<p>CO1: Understand the structure and functions of Genomes.</p> <p>CO2: Learn the concepts of Genome sequencing and mapping.</p> <p>CO3: Know the importance of Genome data</p>

			<p>bases.</p> <p>CO4: Obtain an idea about the Sequence alignment.</p> <p>CO5: Acquire the knowledge of Comparative genomics.</p>
17	17PBFET208	STEM CELL TECHNOLOGY	<p>CO1: Know the importance of Stem cells.</p> <p>CO2: Acquire an idea about Embryonic stem cells.</p> <p>CO3: Learn the significance in Adult stem cells.</p> <p>CO4: Obtain the concepts of Stem cells in Drug discovery and Tissue engineering.</p> <p>CO5: Understand the therapeutic applications of Stem cells.</p>

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17PBFCT301	RESEARCH METHODOLOGY AND BIOSTATISTICS	<p>CO1: Propose and distinguish appropriate Research designs and methodologies to apply to a specific research project.</p> <p>CO2: Understand Data presentation techniques and Research report writing.</p> <p>CO3: Know about averages in detail and interpret Correlation and Regression.</p> <p>CO4: Understand the concept of large samples with applications.</p> <p>CO5: Know and apply test for small samples.</p>
2	17PBFCT302	METABOLISM AND METABOLIC REGULATION	<p>CO1: Understand how Carbohydrate metabolism normally responds in the fed state, the fasting state, and during exercise.</p> <p>CO2: Recognize and understand the regulatory mechanisms of Lipid metabolism.</p> <p>CO3: Understand the metabolic consequences and significance of Protein metabolism.</p> <p>CO4: Analyse the core metabolic pathways of</p>

			<p>Porphyrins and Nucleic acids</p> <p>CO5: Learn the role of plant hormones and biosynthesis of secondary metabolites and acquire knowledge on stress adaptations in biological systems.</p>
3	17PBFCT303	ADVANCED CLINICAL BIOCHEMISTRY	<p>CO1: Understand the methods of collection of Sample in basic analysis of Clinical Biochemistry.</p> <p>CO2: Correlate testing to Blood system to assess the abnormal conditions of the Blood disorders.</p> <p>CO3: Understand the Enzymes role in Diagnostic disorders of Organs</p> <p>CO4: Learn about the Functional tests and Clinical conditions of the diseases to understand the significance of Diagnostics.</p> <p>CO5: Assess the Various free radicals and Cancer markers in various diseases.</p>
4	17PBFCT304	GENETIC ENGINEERING	<p>CO1: Able to understand the capacity of different cloning vectors and its role in Gene cloning.</p> <p>CO2: Assess the ability of using various Nucleic acid probes; selection and identification of recombinants.</p> <p>CO3: Had insight into various hybridization techniques.</p> <p>CO4: Acquire sound knowledge about expression of cloned genes in different host systems.</p> <p>CO5: Learn about transgenic plant and animal production and applications.</p>
5	17PBFCT305	PHARMACEUTICAL BIOCHEMISTRY	<p>CO1: Obtain Pharmacokinetic concepts of Chemotherapeutic agents.</p> <p>CO2: Develop an understanding of Adverse Drug Responses.</p> <p>CO3: Obtain the knowledge of various Chemotherapeutic agents.</p> <p>CO4: Gain an idea of Diuretic drugs and its action.</p>

			CO5: Understand the Neurodegenerative disorders and its drugs.
6	17PBF306	CORE BIOCHEMISTRY PRACTICAL III	CO1: Gain an idea of Lipid components in the given sample. CO2: Know the knowledge of Quantitative analysis of Carbohydrates CO3: Understand the clinical importance of Vitamins. CO4: Obtain the knowledge of activity of enzymes in the sample. CO5: Understand the abnormal range and diseases.
7	17PBF307	BIOCHEMICAL AND ENVIRONMENTAL TOXICOLOGY	CO1: Design strategies for study the of dose-response relations. CO2: Critically evaluate different advanced exposure assessment methods. CO3: Analyze the effects of different types of Hazardous pollutants. CO4: Clearly understand the mechanisms and mode of action of different toxic agents. CO5: Gain knowledge about utilizing microbes and natural agents for Bioremediation and Detoxification purposes.
8	17PBF308	PROTEOMICS	CO1: Obtain an idea of quantitative measurement of Protein. CO2: Analyze the phosphoproteins and Glycoproteins. CO3: Know the importance of Protein folding. CO4: Understand the Drug design. CO5: Gain knowledge of Metabolomics.
9	17PBF309	CHARACTERIZATION AND APPLICATION OF NANOMATERIALS	CO1: Obtain an idea of working of Atomic Force Microscopy and X- Ray diffraction. CO2: Gain an idea of Elemental analysis. CO3: Know the Semiconductor system. CO4: Understand the Quantum Dot techniques. CO5: Learn the significance of

			Biomacromolecules.
10	17PBFAL310	INDUSTRIAL BIOCHEMISTRY	CO1: Understand the students in the basic principles of processing of bioreactor. CO2: Develop skills on recent Methodologies in Clinical trials. CO3: Gain the Knowledge in Food Processing. CO4: Learn the applications of Enzymes in Food Industry and Recombinant technology. CO5: Expose students to relevant and recent advances in Microbes in environment.
11	17PBFAL311	BIOETHICS AND INTELLECTUAL PROPERTY RIGHTS	CO1: Understand the concept of Genetic Engineering. CO2: Learn the knowledge of Ethical Issues. CO3: Understand the Biosafety concepts. CO4: Gain the knowledge of Intellectual Property Rights And Regulations CO5: Understand the Patent and its Types
12	17PBFEP402	CELL CULTURE AND MOLECULAR TECHNIQUES	CO1: Know the sterilization techniques in Plant and Animal tissue culture. CO2: Gain an idea of preparation of PTC medium. CO3: Know the idea about the Micropropagation techniques. CO4: Understand the method of production of Artificial seeds. CO5: Develop an understanding of DNA isolation from the Animal cell.
13	17PBFEP403	BIOINFORMATICS	CO1: Know the knowledge of Sequence alignment. CO2: Develop an understanding of Protein structure. CO3: To enable students to know various wet lab and Insilico tools for handling proteomic studies. CO4: Gain an idea of Signal transduction pathway.

			CO5: Understand the Gene expression profiling method.
--	--	--	---

(2018-2019)

Name of the Department: Computer Technology and Information Technology

Name of the Programme: B.Sc. Computer Technology

Programme Outcome (PO):

Students of all undergraduate general degree programs at the time of graduation will be able to

- PO1. **Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives
- PO2. **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology
- PO3. **Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings
- PO4. **Effective Citizenship:** Demonstrate empathetic social concern and equity

centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering

PO5. **Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

PO6. **Environment and Sustainability:** Understand the issues of environmental contexts and sustainable development

PO7. **Self-directed and Life-long Learning:** Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

Programme Specific Outcome (PSO):

By completion of the programme, the students will have the following programme specific outcome

PSO1. Understand the principles and working of the hardware, software and network aspects of computer systems.

PSO2. Analyse the IT infrastructures, manage and monitor resources and safeguard data

PSO3. Design and develop effective and efficient real solutions by integrating diverse technologies.

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17UALCT101	Core 1: Digital Principles	<p>CO1: Illustrate the concept of number systems and binary codes.</p> <p>CO2: Demonstrate the boolean algebra, logic gates and karnaugh map.</p> <p>CO3: Apply the arithmetic and logic circuit for binary addition.</p> <p>CO4: Design the circuits using various types</p>

			<p>of flip-flops.</p> <p>CO5: Summarize the concept of registers, counters and semiconductor memories</p>
2	17UALCT102	Core 2: C Programming	<p>CO1: Describe the basic concepts of C programs and different types of data types.</p> <p>CO2: Implement the decision making and looping statements.</p> <p>CO3: Illustrate the concepts of arrays, character arrays and string.</p> <p>CO4: Apply user defined functions, structures and unions.</p> <p>CO5: Explain the pointer and file concept.</p>
3	17UALCP103	Core Lab 1: C Programming Lab	<p>CO1: Apply the concepts of operators and expression.</p> <p>CO2: Implement the branching and looping statements.</p> <p>CO3: Illustrate character arrays and string.</p> <p>CO4: Develop a program that uses pointer to access a variable.</p> <p>CO5: Develop a program that uses file operation.</p>
4	17UALCT201	Core 3: Data Structures	<p>CO1: Demonstrate the data structures for storage and retrieval of ordered data.</p> <p>CO2: Apply the stack and queues structure for problem solving.</p> <p>CO3: Describe the singly linked list and doubly linked list structures.</p> <p>CO4: Illustrate the data structures trees and graphs and algorithm to solve a problem.</p> <p>CO5: Summarize the concepts about</p>

			searching and sorting techniques.
5	17UALCT202	Core 4: Object Oriented Programming with C++	<p>CO1: Explain the basic concepts of object oriented programming and control structures</p> <p>CO2: Demonstrate specification of classes with constructors and destructors</p> <p>CO3: Illustrate Operator Overloading, type conversion and Inheritance</p> <p>CO4: Apply pointers, virtual functions and formatted or unformatted I/O operations</p> <p>CO5: Describe the file stream operations, templates, exception handling and string manipulations</p>
6	17UALCP203	Core Lab 2: C++ Programming Lab	<p>CO1: Create programs with a class and member functions for arithmetic operations with constructors, destructors and inline functions</p> <p>CO2: Develop a program to overload arithmetic operators, concatenate and compare two strings</p> <p>CO3: Implement inheritance and virtual functions</p> <p>CO4: Illustrate friend function and function overloading</p> <p>CO5: Develop a program that uses pointers and file operations</p>

7	17UALCT301	Core 5: Operating Systems	<p>CO1: Demonstrate the understanding of the basic functionality of operating systems.</p> <p>CO2: Identify the concepts of processes and threads.</p> <p>CO3 : Apply the deadlock and processor scheduling.</p> <p>CO4: Describe the memory management and virtual memory.</p> <p>CO5: Illustrate the concepts of I/O management and disk scheduling.</p>
8	17UALCT302	Core 6: Java Programming	<p>CO1: Identify the basic concepts of java including class and flow control statements.</p> <p>CO2: Apply the principles of inheritance, interface, polymorphism, exception handling and threads.</p> <p>CO3: Demonstrate the concepts of packages and I/O operations.</p> <p>CO4: Describe the concepts of applets and exception handling mechanisms.</p> <p>CO5: Develop an application using AWT and JDBC.</p>
9	17UALCP303	Core Lab 3: Java Programming Lab	<p>CO1: Apply java concepts includes class, method and constructor.</p> <p>CO2: Design the concept of inheritance and exception handling.</p> <p>CO3 : Implement the usage of package and</p>

			<p>file handling operations.</p> <p>CO4: Implement the methods of creating applets and mouse events.</p> <p>CO5: Develop an application using swing and JDBC.</p>
10	17UALAT304	Allied 3: Microprocessor and ALP	<p>CO1: Demonstrate the understanding of microcomputer systems.</p> <p>CO2: Describe the 8085 microprocessor architecture and memory interfacing.</p> <p>CO3: Make use of the instruction set of 8085 microprocessor and develop assembly codes to solve problems.</p> <p>CO4: Illustrate the use of Counters and Time Delays and Stack and Subroutine.</p> <p>CO5: Implement the 8085 interrupts and interface the microprocessors with 8259A and DMA.</p>
11	17UALSP305	Skill Based Course 1(Lab): Linux Programming Lab	<p>CO1: Apply the knowledge of basic linux commands.</p> <p>CO2: Construct linux commands to create and manage simple file processing operations.</p> <p>CO3: Design the shell scripts to monitor system performance and network activities.</p> <p>CO4: Make use of the linux directory commands.</p> <p>CO5: Implement the shell scripts for various</p>

			operations.
12	17UALNT306	Non Major Elective - I # (Fundamentals of Programming @)	<p>CO1: Demonstrate the basic concepts of computer, data representation and boolean algebra.</p> <p>CO2: Illustrate the elementary concepts of flowchart and make simple computations using flowchart.</p> <p>CO3: Apply the concepts of subscripted variables in one dimensional array.</p> <p>CO4: Implement the multidimensional array concepts for developing programs.</p> <p>CO5: Apply the concepts of file structure and file processing in computers.</p>
13	17UALCT401	Core 7: Computer Networks	<p>CO1: Demonstrate the understanding of basic terminology and concepts of the OSI and TCP/IP reference models.</p> <p>CO2: Explain transmission media, multiplexing and public switched telephone networks.</p> <p>CO3: Illustrate the concepts of data link layer and MAC sublayer.</p> <p>CO4: Illustrate the concepts of design issues, routing algorithms and internet protocols of network layer.</p> <p>CO5: Demonstrate the detailed understanding of various services and protocols of transport layer and applications of DNS and Electronic mail.</p>

14	17UALCT402 Core 8: Web Technology	17UALCT402 Core 8: Web Technology	<p>CO1: Demonstrate the understanding of web programming and Internet.</p> <p>CO2: Create web pages using XHTML and Cascading Style Sheet.</p> <p>CO3: Build the dynamic web pages using JavaScript.</p> <p>CO4: Implement the advanced concepts such as Servlets and JSP to create dynamic web pages.</p> <p>CO5: Illustrate XML documents, schemas and build interactive web applications using AJAX.</p>
15	17UALCP403	Core Lab 4: Web Technology Lab	<p>CO1: Identify the basic HTML elements and their attributes.</p> <p>CO2: Build a static website and add dynamic functionality to it by using JavaScript.</p> <p>CO3: Develop online applications using Servlets and JSP.</p> <p>CO4 : Implement XML documents and schemas.</p> <p>CO5 : Design and launch web services.</p>
16	17UALAT404 Allied 4: PC Hardware	17UALAT404 Allied 4: PC Hardware	<p>CO1: Demonstrate the understanding of the fundamentals of PC technology and microprocessor.</p> <p>CO2: Identify the components of motherboard.</p> <p>CO3: Classify the types of memory, magnetic storage devices and optical storage devices.</p> <p>CO4: Describe keyboards, pointing devices, video subsystems and printers.</p>

			CO5: Apply the trouble shooting tools and techniques, basic data recovery and disaster recovery.
17	17UALSP405	Skill Based Course 2 (Lab): Networks Lab	CO1: Identify the address, connection number and domain name of the computer system. CO2: Develop an algorithm to compute parity bit and detect errors. CO3: Implement the behaviour of stop-and-wait and sliding window protocol. CO4: Create a shortest path using Dijkstra algorithm and demonstrate the Remote Procedure Call. CO5: Implement the File Transfer Protocol and chatting in client/server environment.
18	17UALNT406	Non Major Elective - II # (Web Graphics @)	CO1: Outline the HTML coding and basic web graphics. CO2: Demonstrate the components of Photoshop, image basics and file formats. CO3: Apply the concepts of layers and color palette for animation. CO4: Illustrate the usage of image editing techniques. CO5: Apply the multimedia concepts of creating clippings and animations with sound effects.

19	17UALAL407	Advanced Learners Course 1- A : Windows Programming	<p>CO1: Identify the basic windows programming environment and unicode character set.</p> <p>CO2: Illustrate the use of windows and messages.</p> <p>CO3: Apply the basic drawing methods in windows environment.</p> <p>CO4: Illustrate the concepts of keyboard and its messages.</p> <p>CO5: Implement the concepts of mouse messages in windows programming.</p>
20	17UALAL408	Advanced Learners Course 1 – B: Embedded Systems	<p>CO1: Demonstrate an understanding of concepts and architecture of embedded systems.</p> <p>CO2: Develop a program for embedded systems using C, C++ and Java.</p> <p>CO3: Identify the hardware platforms and communication interface required for developing embedded systems.</p> <p>CO4: Implement the concepts of real-time operating systems.</p> <p>CO5: Illustrate the process of creating a target image and development of navigation system.</p>

(2018-2019)

Name of the Department: Computer Technology and Information Technology

Name of the Programme: B.Sc. Information Technology

Programme Outcome (PO):

Students of all undergraduate general degree programs at the time of graduation will be able to

PO8. **Critical Thinking:** Take informed actions after identifying the assumptions that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational, and personal) from different perspectives

PO9. **Effective Communication:** Speak, read, write and listen clearly in person and through electronic media in English and in one Indian language, and make meaning of the world by connecting people, ideas, books, media and technology

PO10. **Social Interaction:** Elicit views of others, mediate disagreements and help reach conclusions in group settings

PO11. **Effective Citizenship:** Demonstrate empathetic social concern and equity centred national development, and the ability to act with an informed awareness of issues and participate in civic life through volunteering

PO12. **Ethics:** Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them

PO13. **Environment and Sustainability:** Understand the issues of environmental

<p>contexts and sustainable development</p> <p>PO14. Self-directed and Life-long Learning: Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes</p>			
<p>Programme Specific Outcome (PSO):</p> <p>By completion of the programme, the students will have the following programme specific outcome</p> <p>PSO4. Understand the principles and working of computing and communication systems</p> <p>PSO5. Analyze the data for scientific and business applications by applying suitable algorithms and statistical techniques</p> <p>PSO6. Design and develop cost effective, secure reliable IT solutions for meeting the global needs</p>			
S.No.	Course Code	Course Name	Course Outcome (CO)
1	17UAMCT101	Core 1: Digital Principles	<p>CO1: Illustrate the concept of number systems and binary codes.</p> <p>CO2: Demonstrate the boolean algebra, logic gates and karnaugh map.</p> <p>CO3: Apply the arithmetic and logic circuit for binary addition.</p> <p>CO4: Design the circuits using various types of flip-flops.</p> <p>CO5: Summarize the concept of registers, counters and semiconductor memories</p>

2	17UAMCT102	Core 2: C Programming	<p>CO1: Describe the basic concepts of C programs and different types of data types.</p> <p>CO2: Implement the decision making and looping statements.</p> <p>CO3: Illustrate the concepts of arrays, character arrays and string.</p> <p>CO4: Apply user defined functions, structures and unions.</p> <p>CO5: Explain the pointer and file concept.</p>
3	17UAMCP103	Core Lab 1: C Programming Lab	<p>CO1: Apply the concepts of operators and expression.</p> <p>CO2: Implement the branching and looping statements.</p> <p>CO3: Illustrate character arrays and string.</p> <p>CO4: Develop a program that uses pointer to access a variable.</p> <p>CO5: Develop a program that uses file operation.</p>
4	17UAMCT201	Core 3: Data Structures	<p>CO1: Demonstrate the data structures for storage and retrieval of ordered data.</p> <p>CO2: Apply the stack and queues structure for problem solving.</p> <p>CO3: Describe the singly linked list and doubly linked list structures.</p> <p>CO4: Illustrate the data structures trees and graphs and algorithm to solve a problem.</p> <p>CO5: Summarize the concepts about searching and sorting techniques.</p>

5	17UAMCT202	Core 4: Object Oriented Programming with C++	<p>CO1: Explain the basic concepts of object oriented programming and control structures</p> <p>CO2: Demonstrate specification of classes with constructors and destructors</p> <p>CO3: Illustrate Operator Overloading, type conversion and Inheritance</p> <p>CO4: Apply pointers, virtual functions and formatted or unformatted I/O operations</p> <p>CO5: Describe the file stream operations, templates, exception handling and string manipulations</p>
6	17UAMCP203	Core Lab 2: C++ Programming Lab	<p>CO1: Create programs with a class and member functions for arithmetic operations with constructors, destructors and inline functions</p> <p>CO2: Develop a program to overload arithmetic operators, concatenate and compare two strings</p> <p>CO3: Implement inheritance and virtual functions</p> <p>CO4: Illustrate friend function and function overloading</p> <p>CO5: Develop a program that uses pointers and file operations.</p>
7	17UAMCT301	Core 5: Database Systems	<p>CO1: Demonstrate the understanding of database systems and their architectures.</p> <p>CO2 : Illustrate the concept of relational algebra, calculus and relational query language.</p> <p>CO3: Summarize the concepts of Entity Relationship Model and Enhanced Entity Relationship Model.</p>

			<p>CO4: Apply the Functional Dependency, Decomposition and Normalization.</p> <p>CO5: Describe the Database Recovery and Database Security.</p>
8	17UAMCT302	Core 6: Java Programming	<p>CO1: Identify the basic concepts of java including class and flow control statements.</p> <p>CO2: Apply the principles of inheritance, interface, polymorphism, exception handling and threads.</p> <p>CO3: Demonstrate the concepts of packages and I/O operations.</p> <p>CO4: Describe the concepts of applets and exception handling mechanisms.</p> <p>CO5: Develop an application using AWT and JDBC.</p>
9	17UAMCP303	Core Lab 3: Java Programming Lab	<p>CO1: Apply java concepts includes class, method and constructor.</p> <p>CO2: Design the concept of inheritance and exception handling.</p> <p>CO3 : Implement the usage of package and file handling operations.</p> <p>CO4: Implement the methods of creating applets and mouse events.</p> <p>CO5: Develop an application using swing and JDBC.</p>
10	17UAMAT304	Allied 3: Microprocessor and ALP	<p>CO1: Demonstrate the understanding of microcomputer systems.</p> <p>CO2: Describe the 8085 microprocessor architecture and memory interfacing.</p> <p>CO3: Make use of the instruction set of</p>

			<p>8085 microprocessor and develop assembly codes to solve problems.</p> <p>CO4: Illustrate the use of Counters and Time Delays and Stack and Subroutine.</p> <p>CO5: Implement the 8085 interrupts and interface the microprocessors with 8259A and DMA.</p>
11	17UAMSP305	Skill Based Course 1(Lab): Database Systems Lab	<p>CO1: Create a table and apply common SQL statement using DML to perform different operations.</p> <p>CO2: Apply common SQL statements including DDL and aggregate functions to perform different operations.</p> <p>CO3: Implement the concept of String functions, Date functions and Cursors.</p> <p>CO4: Demonstrate the knowledge of Triggers and DCL statements.</p> <p>CO5: Develop the concept of PL/SQL Procedure, Functions and Exception.</p>
12	17UAMNT306	Non Major Elective - I # (Introduction to Information Technology @)	<p>CO1: Illustrate the historical development of computers, size of computers and components of computer system.</p> <p>CO2: Identify the types of primary and secondary storage devices.</p> <p>CO3: Explain the role of various input and output devices.</p> <p>CO4: Analyze the system software, application software and database models.</p> <p>CO5: Demonstrate the scope of computer networks and types of networks.</p>

13	17UAMCT401	Core 7: Operating Systems	<p>CO1: Demonstrate the understanding of the basic functionality of operating systems.</p> <p>CO2: Identify the concepts of processes and threads.</p> <p>CO3: Apply the deadlock and processor scheduling.</p> <p>CO4: Describe the memory management and virtual memory.</p> <p>CO5: Illustrate the concepts of I/O management and disk scheduling.</p>
14	17UAMCT402	Core 8: Web Technology	<p>CO1: Demonstrate the understanding of web programming and Internet.</p> <p>CO2: Create web pages using XHTML and Cascading Style Sheet.</p> <p>CO3: Build the dynamic web pages using JavaScript.</p> <p>CO4: Implement the advanced concepts such as Servlets and JSP to create dynamic web pages.</p> <p>CO5: Illustrate XML documents, schemas and build interactive web applications using AJAX.</p>
15	17UAMCP403	Core Lab 4: Web Technology Lab	<p>CO1: Identify the basic HTML elements and their attributes.</p> <p>CO2: Build a static website and add dynamic functionality to it by using JavaScript.</p> <p>CO3: Develop online applications using Servlets and JSP.</p> <p>CO4 : Implement XML documents and</p>

			<p>schemas.</p> <p>CO5 : Design and launch web services.</p>
16	17UAMAT404	Allied 4: Embedded Systems	<p>CO1: Demonstrate an understanding of concepts and architecture of embedded systems.</p> <p>CO2: Develop a program for embedded systems using C, C++ and Java.</p> <p>CO3: Identify the hardware platforms and communication interface required for developing embedded systems.</p> <p>CO4: Implement the concepts of real-time operating systems.</p> <p>CO5: Illustrate the process of creating a target image and development of navigation system.</p>
17	17UAMSP405	Skill Based Course 2 (Lab): Multimedia Lab	<p>CO1: Design simple logos and banners using photoshop.</p> <p>CO2: Create plastic surgery and text animation using photoshop.</p> <p>CO3: Design visiting cards and realistic structures in photoshop.</p> <p>CO4 : Create cover pages for books and brochure about any function or event using photoshop.</p> <p>CO5 : Create color photo from black and white photo and design web pages using photoshop.</p>

18	17UAMNT406	Non Major Elective - II # (E-Commerce @)	<p>CO1: Demonstrate the understanding of the foundations and importance of E-Commerce.</p> <p>CO2: Illustrate the theoretical frameworks with business strategies.</p> <p>CO3: Identify the impact of Electronic Markets and Electronic Data Interchange.</p> <p>CO4: Describe the key features of Internet and explain the elements of E-Commerce.</p> <p>CO5: Analyze the fundamental principles of Electronic Business.</p>
19	17UAMAL407	Advanced Learners Course 1 - A: Linux Programming	<p>CO1: Describe the Linux Operating System.</p> <p>CO2 : Demonstrate the understanding of the files and directories.</p> <p>CO3: Utilize the vi Editor to create files.</p> <p>CO4: Identify the securing files in Linux and automate tasks using shell scripts.</p> <p>CO5: Demonstrate the conditional execution in shell scripts and manage repetitive tasks using shell scripts.</p>
20	17UAMAL408	Advanced Learners Course 1 - B: PC Hardware	<p>CO1: Demonstrate the understanding of the fundamentals of PC technology and microprocessor.</p> <p>CO2: Identify the components of motherboard.</p> <p>CO3: Classify the types of memory, magnetic storage devices and optical storage devices.</p> <p>CO4: Describe keyboards, pointing devices, video subsystems and printers.</p>

			CO5 : Apply the trouble shooting tools and techniques, basic data recovery and disaster recovery.
--	--	--	---

(2018-2019)

Name of the Department: DEPARTMENT OF BUSINESS ADMINISTRATION WITH
COMPUTER APPLICATIONS

Name of the Programme: BBA (CA)

Programme outcome (PO): At the end of the programme, students will be able to:

1. Have an exposure to technology based management education which will facilitate to the global changes.
2. Have knowledge on specialized application of programming skills.
3. Gain knowledge to pursue professional course.
4. Apply the knowledge of ethical and management principles required to work in a team as well as to lead a team

Programme Specific Outcome (PSO): At the end of the programme, students will be equipped with the Knowledge in:

1. The field of Business and Administration
2. Managing Employees, Organizational information and Administration Systems through the effective use of information technology.
3. The field of current information technology to support business decision-making.

S.No.	Course Code	Course Name	Course Outcome (CO)
1	17UACCT101	MANAGEMENT PROCESS	<p>CO1 Prepare the learners to knowing the basic principles of management.</p> <p>CO2 Makes the students learn the planning, policies and decision making skills.</p> <p>CO3 Educates the students about the delegation, staffing and organizational structure.</p> <p>CO4 Acquire knowledge of directing, co-ordination and leadership styles.</p> <p>CO5 Provide knowledge about the control process and management by objectives.</p>
2	17UACCT102	BUSINESS COMMUNICATION	<p>CO1 Understand and demonstrate writing and speaking processes through invention, organization, drafting, revision, editing, and presentation.</p> <p>CO2 Develop the knowledge of writing effective business letter.</p> <p>CO3 Acquire knowledge of bank and agency correspondence.</p> <p>CO4 Motivate the students to know the importance and types of report.</p> <p>CO5 Get the exposure about internal communication.</p>
3	17UACCT201	ORGANISATIONAL BEHAVIOUR	<p>CO1 Develop the knowledge of organizational behavior.</p> <p>CO2 Enables the students to know the important concepts perception and emotions.</p> <p>CO3 Gets exposure about the job</p>

			<p>satisfaction ,job enrichment and job enlargement.</p> <p>CO4 Motivates the students to analyze Hawthorne experiments and group cohesiveness.</p> <p>CO5 Develop the knowledge of leadership and counseling.</p>
4	17UACCT202	INTRODUCTION TO INFORMATION TECHNOLOGY	<p>CO1 Acquire the knowledge about the basics of computer and IT in business.</p> <p>CO2 Know the storage devices in the computer system.</p> <p>CO3 Gain the knowledge about the input devices of technologies.</p> <p>CO4 Understand the hardware, software and compilation process.</p> <p>CO5 Comprehend the telecommunications and networks to business functions.</p>
5	17UACCP203	PC SOFTWARE (MS OFFICE) – PRACTICAL	<p>CO1 Gain the knowledge about MS office</p> <p>CO2 Train the students to use MS word applications.</p> <p>CO3 Develop the skills in spreadsheets.</p> <p>CO4 Enable the students to create PowerPoint presentations and slideshows.</p> <p>CO5 Comprehend database in MS-Access and prepare report wizard.</p>
6	17UACCT301	OPERATIONS MANAGEMENT	<p>CO1 Identify and evaluate the process, tools and principles of operations management with better understanding of the operations environment.</p> <p>CO2 Identify the process needed to develop a new product from identifying</p>

			<p>the customer needs and to deliver the final product as per customer satisfaction.</p> <p>CO3 Identify future challenges and directions related to operations management and respond to such market changes effectively and efficiently.</p> <p>CO4 Explain and evaluate the quality process in manufacturing and service sector to improve the operational performance.</p> <p>CO5 Apply the modern tools and underlying principles of operations management in the manufacturing and service sectors to improve organizational performance.</p>
7	17UACCT302	MARKETING MANAGEMENT	<p>CO1 Equip the learners with required skills to be a good marketing manager and to know about the bases of market segmentation.</p> <p>CO2 Help the students to understand the product mix.</p> <p>CO3 Equip the learners with required skills to develop a new product.</p> <p>CO4 Make the students to analyze the kinds of pricing decisions.</p> <p>CO5 Develop their knowledge in distribution channels.</p>
8	17UACCP303	TALLY – PRACTICAL	<p>CO1 Understood the basic principles to create company accounts.</p> <p>CO2 Gained knowledge to Trial Balance, Trading and profit/loss account, Balance sheet, Day Book, Cash Book & Bank</p>

			<p>Book of the company and cash flow statement, fund flow statement.</p> <p>CO3 Enable the students to explore to and acquire skills in respect of most sophisticated Computerized accounting procedures and practices so as to help them serve better the vast accounting needs of every commercial organization.</p> <p>CO4 As this is useful for students to get placements in different offices as well as companies in Accounts departments.</p> <p>CO5 Equip the learners with required skills to be an excellent accounts manager.</p>
9	17UACAT304	FINANCIAL ACCOUNTING	<p>CO1 Recognize and understand the basic concept of accounting.</p> <p>CO2 Able to prepare the subsidiary books.</p> <p>CO3 Enable to prepare the final accounts</p> <p>CO4 Identify the value of depreciation in various assets.</p> <p>CO5 Understand the methods of single entry system.</p>
10	17UACAS305	SOFT SKILLS FOR BUSINESS VIVA VOCE	<p>CO1 Improve the speaking and writing skills by reinforcing their listening and reading skills and habituating them.</p> <p>CO2 Assist in developing their personality.</p> <p>CO3 Help the students in developing their communication skills through effective use of English.</p> <p>CO4 Equip their knowledge areas such as business correspondence, presentation, group discussion, and interviews</p> <p>CO5 Focus on to a chosen career path.</p>

11	17UACNT306	CUSTOMER RELATIONSHIP MANAGEMENT	<p>CO1 Enable the students to develop the basis of building long term relationship and the customer life cycle.</p> <p>CO2 Understand the challenges of developing and managing relationship marketing strategies and programs.</p> <p>CO3 Gain knowledge on winning customer retention and building loyalty with customers.</p> <p>CO4 Critically analyse the lifetime customer value creation in customer relationship management by enhancing value through service quality.</p> <p>CO5 Develop knowledge in database marketing technology and implement best practices in customer relationship management.</p>
12	17UACCT401	HUMAN RESOURCE MANAGEMENT	<p>CO1 An understanding of the HRM function and its relation to other organizational functions.</p> <p>CO2 Showing how important functions such as human resource planning, job analysis, recruitment, selection, training, managerial development and performance appraisal can be utilized in attaining organizational goals.</p> <p>CO3 Acquire knowledge about to develop a competitive advantage by using its human resources.</p> <p>CO4 Enable the students to gain knowledge upon various techniques in HRM that contribute to the overall effectiveness of an Organization.</p>

			CO5 Develop the student knowledge in latest trends in human resources management in an organization.
13	17UACCT402	FINANCIAL MANAGEMENT	<p>CO1 Enable the students to understand the basic concepts of financial decisions, investment liquidity and dividend decisions.</p> <p>CO2 Appraise the risk profile of firms and estimate the costs of capital, including debt and equity capital, using financial data.</p> <p>CO3 Critically evaluate the theories of capital structure adopted in the company form of organization and understand the concepts of dividend policies expected by the shareholders and the theories of dividend policy.</p> <p>CO4 Gain practical knowledge on working capital management, venture capital and lease financing.</p> <p>CO5 Gain practical knowledge on capital budgeting and project appraisal.</p>

14	17UACCT403	RDBMS AND ORACLE PROGRAMMING - THEORY	<p>CO1 Enable the students to understand the basic concept and application of data base management system.</p> <p>CO2 Basics of SQL and construct queries using SQL.</p> <p>CO3 Design and implement a database schema for a given problem - domain.</p> <p>CO4 Be familiar with the relational database theory and be able to write relational algebra expressions for queries.</p> <p>CO5 Master the basics of query evaluation techniques and query optimization.</p>
15	17UACAT404	PROMOTION MANAGEMENT	<p>CO1 Able to understand the promotion mix and personal selling.</p> <p>CO2 Acquire knowledge about advertisement.</p> <p>CO3 know the media planning in advertisement.</p> <p>CO4 Learn the creativity in advertising.</p> <p>CO5 Gain knowledge about sales promotion.</p>
16	17UACCP405	RDBMS AND ORACLE PROGRAMMING – PRACTICAL	<p>CO1 Describe basic concepts of database system.</p> <p>CO2 Design a data model and schemes in RDBMS.</p> <p>CO3 Update and alter the database with necessary primary key and constrains.</p> <p>CO4 Gain knowledge to alter the database to create relationship among tables.</p> <p>CO5 Analyse the table based on</p>

			inventory table using sub query.
17	17UACSV406	INTERVIEW SKILLS - VIVA – VOCE	<p>CO1 Enable the students for career planning and different sources of information.</p> <p>CO2 Organize and write an effective application letter and resume.</p> <p>CO3 Understand the concepts, logic and methods of interviewing skills.</p> <p>CO4 Develop the non verbal communication and group discussion.</p> <p>CO5 Learn to behave and dress appropriately during interviews.</p>
18	17UACNT407	RETAIL MANAGEMENT	<p>CO1 Help the students to establishing retail shop.</p> <p>CO2 Acquire the knowledge about the retail strategy.</p> <p>CO3 Learn the retail location and store design for establishing retail shop.</p> <p>CO4 Understand the retail pricing and policies.</p> <p>CO5 Equip the students knowing the necessity of Challenges in Indian and global retailers.</p>
19	17UACAL408	KNOWLEDGE MANAGEMENT	<p>CO1 Helps to acquire knowledge in basics of knowledge management.</p> <p>CO2 Enable the students to understand the application of strategy.</p> <p>CO3 Developing the business intelligence and internet platforms.</p> <p>CO4 Update the recent tools and techniques.</p> <p>CO5 Understanding the ethical, legal and managerial issues.</p>

20	17UACAL409	TECHNOLOGY MANAGEMENT	<p>CO1 Understanding the concept of technology management.</p> <p>CO2 Helps to acquire competitive advantages through new technologies.</p> <p>CO3 Focus on the technological forecasting.</p> <p>CO4 Gain the knowledge on technology assessment.</p> <p>CO5 Apply the strategy in technology management.</p>
21	17UACCT501	RESEARCH METHODS FOR MANAGEMENT	<p>CO1 Knowledge of concept and fundamentals for different types of research.</p> <p>CO2 Understanding relevant scaling, measurement and sampling techniques.</p> <p>CO3 Evaluating statistical analysis which includes various parametric test, non-parametric test, ANOVA technique and prepare report. Formulate a research design for a given problem through hypothesis building.</p> <p>CO4 Understand the importance and procedure to be followed in research report writing and presentation.</p> <p>CO5 Understanding the various types of application of research.</p>
22	17UACCT502	INTERNATIONAL BUSINESS	<p>CO1 Enable the students to understand the various modes of entering global markets.</p> <p>CO2 Impart the learners about the various environment and WTO agreements.</p> <p>CO3 Equip the students to know the financial support for international business.</p>

			<p>CO4 Learn the international promotion strategies and marketing communication.</p> <p>CO5 Acquire knowledge of the obstacles and impacts of globalisation.</p>
23	17UACCT503	VISUAL BASIC – THEORY	<p>CO1 Enable the students to understand the fundamentals of visual basic.</p> <p>CO2 Impart the learners of visual basic control tools.</p> <p>CO3 Equip the students to apply loop structures to perform repetitive tasks.</p> <p>CO4 Develop how to execute the debugging and error handling.</p> <p>CO5 Acquire knowledge in Arrays.</p>
24	17UACCP504	VISUAL BASIC - PRACTICAL	<p>CO1 Students will be able to learn visual programming basics and its components</p> <p>CO2 To understand how to design, implement, test, debug and document programs</p> <p>CO3 To make the students familiar with control tools</p> <p>CO4 Demonstrate and understand the use of menu editors</p> <p>CO5 Identify, Design and develop user interfaces using array</p>
25	17UACET505	CONSUMER BEHAVIOUR	<p>CO1 Able to identify the dynamics of human behaviour and the basic factors that influence the consumers decision process.</p> <p>CO2 Understand the consumer research process and consumer motivation.</p> <p>CO3 Acquire the knowledge in behavioral theories.</p> <p>CO4 Identify the consumers on the basis</p>

			<p>of socio-economic nature.</p> <p>CO5 Develop the knowledge related to consumer decision-making.</p>
26	17UACET506	INDUSTRIAL RELATIONS AND LABOUR LAW	<p>CO1 Understand the disputes and settlement procedure.</p> <p>CO2 Gain the knowledge in workers participation in managerial functions.</p> <p>CO3 Enable to measure the productivity of the labour.</p> <p>CO4 Understand the factories act and provident fund act.</p> <p>CO5 Identify the laws related to the welfare of the employees.</p>
27	17UACET507	FINANCIAL SERVICES	<p>CO1 Help the students appreciate and understand how merchant banking and NBFC operate.</p> <p>CO2 Understand the concepts of hire purchase and leasing.</p> <p>CO3 Learn the basic functions and performance of mutual funds.</p> <p>CO4 Gain knowledge about the various financial services.</p> <p>CO5 Gain practical knowledge on merge and acquisitions</p>
28	17UACSV508	MANAGERIAL DEVELOPMENT SKILLS VIVA – VOCE	<p>CO1 Acquire the effective management skills.</p> <p>CO2 Gain knowledge related to problem solving and creativity.</p> <p>CO3 Understand the way of building relationship with co-workers.</p> <p>CO4 Able to develop and lead the team.</p> <p>CO5 Understand the concept of</p>

			empowerment.
29	17UACAL509	OFFICE MANAGEMENT	CO1 Helps to acquire knowledge in basic of office management. CO2 Enable the students to understand the location and layout of the office. CO3 Developing the business correspondence and filing system. CO4 Update the recent tools of office accessories. CO5 Understanding the office appliances.
30	17UACAL510	EVENT MANAGEMENT	CO1 Enable the students to acquire knowledge in event management. CO2 Develop the students event planning process. CO3 Gain knowledge on sponsorship and public funding. CO4 Acquire knowledge in market planning. CO5 Helps to evaluate the organisational effectiveness.
31	17UACCT601	ENTREPRENEURSHIP AND PROJECT MANAGEMENT	CO1 Gain the knowledge about entrepreneurship. CO2 Identify the institutional support to entrepreneurs. CO3 Learn the concept of project management. CO4 Understand the basics for selecting the project. CO5 Know the various sources of funds for entrepreneurs.

32	17UACCT602	MULTIMEDIA	<p>CO1 Enable the students to understand the basic concept of multimedia and text.</p> <p>CO2 Basics of concepts and uses of images.</p> <p>CO3 Describe the principles and technical details of audio.</p> <p>CO4 Be familiar with the video and able to use video file formats.</p> <p>CO5 Explores the different skills set associated with animation.</p>
33	17UACCP603	PHOTOSHOP – PRACTICAL	<p>CO1 Enable the students to understand the basic tools of Photoshop.</p> <p>CO2 Develop their skills in editing and altering the photographs.</p> <p>CO3 Productively utilize the Photoshop environment.</p> <p>CO4 Understanding the use of layering technique.</p> <p>CO5 Practice their skills in design and art work.</p>
34	17UACET604	ORGANIZATIONAL CHANGE AND DEVELOPMENT	<p>CO1 Understand and analyze different approaches for managing organizational change and understand and utilize the competencies required for effective change management.</p> <p>CO2 Devise effective intervention strategies and function as an internal HR consultant to an organization in transition.</p> <p>CO3 Critically evaluates, in an organizational development framework, the theoretical and practical links between development models / philosophies.</p> <p>CO4 Appreciate the need for a contextual understanding and management of</p>

			<p>organizational and technological change.</p> <p>CO5 Examine the contribution of behavioral social science to the understanding and management of change.</p> <p>Examine ways of improving organizational effectiveness.</p>
35	17UACET605	SERVICES MARKETING	<p>CO1 Able to understand the components of service.</p> <p>CO2 Identify the role of services in employees and customers.</p> <p>CO3 Understand the service quality scale and measurement models.</p> <p>CO4 Identify the kinds of services offered by the service organizations.</p> <p>CO5 Enable to prepare the marketing strategies in service organizations.</p>
36	17UACET606	INSURANCE PRINCIPLES AND PRACTICE	<p>CO1 Identify and evaluate the processes, concepts and principles of insurance to better understand the insurance environment.</p> <p>CO2 Equip the learners with required skills to know the life insurance policy and role of insurance agent.</p> <p>CO3 Gain knowledge on general insurance.</p> <p>CO4 Acquire knowledge about to fire, marine, health engineering and corps insurance.</p> <p>CO5 Enable the students to understand the role of insurance authority.</p>

37	17UACEV608	EQUITY RESEARCH AND PORTFOLIO MANAGEMENT	<p>CO1 Enable the students to understand the fundamentals of investment media</p> <p>CO2 Equip the learners with required skill to know the investment instruments.</p> <p>CO3 Gain knowledge on the stock market.</p> <p>CO4 Acquire knowledge about to security analysis.</p> <p>CO5 Enable the students to understand the portfolio management.</p>
38	17UACEV609	RETAIL MANAGEMENT	<p>CO1 Identify and understand basic theories, principles, practices and terminology related to each functional area of business.</p> <p>CO2 Understand the ways that retailers use marketing tools and techniques to interact with their customers.</p> <p>CO3 Understand the strategic planning for retailing.</p> <p>CO4 Gain the knowledge in changes in retail business in India.</p> <p>CO5 Develop the strategic planning process in retailing</p>
39	17UACSV610	CAMPUS TO CORPORATE -VIVA – VOCE	<p>CO1 Understand the students for various types of etiquette.</p> <p>CO2 Learn to dressing at corporate level.</p> <p>CO3 Enable the students for different sources of e-communication.</p> <p>CO4 Enable students to learn quantitative and qualitative aptitude.</p> <p>CO5 Develop the positive attitude towards individual.</p>

