# Course & Program Outcomes 2023-2024

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## Section A - Grant in Aid Courses (UG)

## Section B – Non – Grant ( Self – Financed ) Courses ( UG )



## Section C – Non – Grant ( Self – Financed ) Courses ( PG )

**Faculty of Humanities and Social Sciences**

**1.1 ENGLISH Programme: Bachelor of Arts**

**(3year - semester pattern)**

**Course Outcomes:**

| S. No | Course Outcomes Semester I, II and III |
|---|---|
| CO1 | To understand the need and use of poetry in daily life |
| CO2 | To develop the art of appreciating human behavior and developing life skills through poetry |
| CO3 | To learn cause and effect in transactional analysis through analysis of short stories, essays and researched writing. |
| CO4 | To understand and appreciate the value of grammar in any language |
| CO5 | To develop group speaking skills and dyadic speaking skills in English |
| CO6 | To enhance issue-specific conversational skills and increasing self- awareness and community awareness through English speaking skills |
| CO7 | To understand the need for effective public speaking. |
| CO8 | To understand the importance of language and literature in interpersonal interactions. |
| CO9 | To develop the ability to relate literature to life and thereby enhance empathetic learning practices. |
| CO10 | To understand the socio cultural strains in literature and thereby effectively internalize key behavioral concepts. |
| CO11 | To learn note-taking skills and apply them to business writing, writing for professional spaces and academic writing. |
| CO12 | To learn the skills of effective letter writing, journalistic prose writing and summa |
| CO13 | To develop and enhance problem solving and time management through language exercises of summarizing, précis and paragraph writing. |
| CO14 | To encourage the skills of newspaper reading and comprehension of current affairs through journalistic prose. |

| S. No | Course Outcomes Semester IV, V and VI |
|---|---|
| CO15 | To enhance language acquisition by deciphering and analyzing complex sentence structures, complex and structured thought process. |
| CO16 | To develop critical thinking skills and the power of effective argument. |
| CO17 | To use language as a tool in creative thinking and creative writing. |
| CO18 | To write advertisement copy and learn the power of persuasive language skills |
| CO19 | To learn the art of social correspondence, writing complaints, official writing, and writing proposals. |
| CO20 | To develop effective e platform writing and all types of e content. |
| CO21 | To enhance public speaking skills of group discussion, presentation skills, interview techniques, all forms of effective communication skills. |
| CO22 | To study the art and importance of role play in effective communication. |

**SUBJECT: SUPPLEMENTARY ENGLISH**

**Supplementary English** is chosen as an optional subject by students from amongst group of languages like Marathi, Hindi, Sanskrit and Urdu. Those students who opt for Supplementary English are fluent in English and the main objective is to enrich/enhance or sharpen their skills in English and hone the same.

**COURSE OUTCOMES:**

**B.A. Sem I and II:**

| S. No | Course Outcomes |
|---|---|
| CO1 | Develop and enrich the skill of letter writing (to draft Professional and Business letters) |
| CO2 | Develop the skill to construct/ sequence sentences properly |
| CO3 | Get acquainted with connotations of words leading to use of most appropriate words |
| CO4 | To train to analyze and appreciate poems |
| CO5 | To learn skills of effective speaking |
| CO6 | To learn paragraph and Precis writing skills |
| CO7 | Develop Group Discussion Skills of the learners |
| CO8 | To train in effective poetry recitation |

**B.A. Sem III and IV:**

| S. No | Course Outcomes |
|---|---|
| CO1 | To learn effective e-mail writing |
| CO2 | To develop Precis writing skills amongst learners |
| CO3 | To develop an ability to reflect on vital issues |
| CO4 | Introduction of Translation Skills to the learners |
| CO5 | Develop in them the skill to translate from one language into another |
| CO6 | Inculcate in them skills to write a good book review of Classics |

**B.A. Sem V and VI:**

| S. No | Course Outcomes |
|---|---|
| CO1 | To develop skills necessary for Competitive Exams |
| CO2 | To learn usage of various verbal phrases |
| CO3 | Develop an eye for mistakes in the sentences |
| CO4 | Introduction of Research Skills in English among students |
| CO5 | To learn to carry out effectively a Survey based on English language acquisition |
| CO6 | Develop an ability to comprehend any unseen piece of literature |
| CO7 | To teach skills required for expansion of an idea |
| CO8 | Develop the skill to write good film reviews |

**1.2 DEPARTMENT OF HINDI SUBJECT: HINDI**

**COURSE OUTCOMES:**

**Course: B.A, B. Sc., B.Com Sem. I (Compulsory Hindi)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Learn the art and style of letters |
| CO2 | Read Hindi prose to know famous Hindi writers and their famous works |
| CO3 | Know famous Hindi poems, poets, their poetry and its special features |
| CO4 | Know the biography and auto- biography of reputed writers |
| CO5 | Know about the "Paribhashik Shabdavali " |

**Course: BA Sem. II & B.Com Sem. II (Compulsory Hindi)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Learn the art and style of Idiom's |
| CO2 | Know about the Imagination |
| CO3 | Read Hindi prose, know famous Hindi writers and their famous works |
| CO4 | Know famous Hindi poems, poets, their poetry and its special features |
| CO5 | Know the biography and auto- biography of reputed writers |

**Course: BA Sem. III (Compulsory Hindi)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Read Hindi prose, know famous Hindi writers and their famous works |
| CO2 | Know Hindi poems and introduction of their poets |
| CO3 | Know the biography and auto- biography of reputed writers |
| CO4 | Know about the "Feature lekhan" |
| CO5 | Know about the "Proof reading" |

**Course: BA Sem. IV (Compulsory Hindi)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Know famous Hindi poems, poets, their poetry and its special features |
| CO2 | Know the biography and auto- biography of reputed writers |
| CO3 | Know about the advertising: meaning, definition, title, sub-title, kinds of advertisement, quality, principal, target and language |
| CO4 | Know about 'Briefness' in Hindi. |

**Course: BA Sem. V (Compulsory Hindi)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Provide knowledge about the essay "Manav sabhyata , Bhasha Aur samaj written byBakshi and Agey respectively |
| CO2 | Know about sketch "Durmukh" written by Mahadevi verma |
| CO3 | Know about one act play "Deepdan" written by Ramkumar verma |
| CO4 | Know about summary of stories, poems, articles |

**Course: BA Sem. VI (Compulsory Hindi)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Gain the knowledge about Novel'Suraj ka Satva Ghoda' written By Dharmveer Bharti |
| CO2 | Know about the summery, Principals & characters of Novel |
| CO3 | Provide knowledge about the computer and Internet(Introduction and types) |
| CO4 | Provide knowledge about the meaning, scope and nature of translation |
| CO5 | Provide knowledge about the types of translation (Anuvad) like Shabdanuvad, Arthanuvad, Bhavanuvad, Aashu Anuvad etc. |

**Course: BA Sem. I (Hindi Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Provide knowledge about modern short stories. |
| CO2 | Understand various Hindi Poems and their impact on Society. |
| CO3 | Read Hindi prose, to know famous Hindi writers and their famous works |
| CO4 | Understand the art of story-telling and analysis. |
| CO5 | Know about ancient time authors and their thinking methods. |

**Course: BA Sem. II (Hindi Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Develop skills through literary works and learn through them about different areas of life. |
| CO2 | Know about the summery, Principals & characters of Drama |
| CO3 | Gain the knowledge about the Mahakavy, khandkavy, Upnyasa, kahaani, ekanki etc. |

**Course: BA Sem. III (Hindi Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Provide knowledge about Bhaktikal ka Samanya Parichaya, Nirgun Kavyadhara , (Gyanmarge evam Premmarge ) ke pramukh kavi evam Rachanayaen. |
| CO2 | Gain knowledge about Sagun kavydhara. Ram Bhakti shakha & krushan Bhaktishakha ke pramukh kavi. |
| CO3 | Provide deep knowledge of Kabeer ke Dohe. |
| CO4 | Provide deep knowledge of Tulsi das, Meera bai, Surdas, Rahim, Bihari, Raidas kepad. |

**Course: BA Sem. IV (Hindi Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Acquire knowledge about the origin and development of Hindi Novel. The importance of Vrundavanlal verma in Hindi Novel writing, main problems of Indian Society in his Novel 'Mrugnayni' |
| CO2 | Provide knowledge about the "Murgnayni", their problems and movement of feminism |

| | |
|---|---|
| CO3 | Gian the knowledge about Ritikal ki Prusthabhumi, Riti kavya ka Samanya Parichaya, evam visheshtayein |
| CO4 | Provide knowledge about the "Rus and Alankar" and their importance in HindiKavya |

**Course: BA Sem. V (Hindi Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Provide knowledge about the jayshankar Prasad poetries. Ida sarg |
| CO2 | Gain knowledge about the Nirala, Bhavani Prasad Mishr And Muktibodh |
| CO3 | Acquire knowledge about Bharaatendu yugin kavya, Dwidedi yugin Kavya tathaChhayavadi kavita |
| CO4 | Provide knowledge about Pragativad, Prayogvad, Nayee kavita & Samkalin Kavita |

**Course: BA Sem. VI (Hindi Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Provide knowledge about Gadya ki Pramukh vidhaon ka Kramik vikas : Upanyas, Kahani, Nibandh, Drama, one act play and Alochana |
| CO2 | Provide knowledge of Essay, story, Travelogue -- 'Ifel tower ki chhaya me ' Written by Ramvruksh Benipuri, 'Krodh' Written by Ramchandra Shukl, 'Bhare pure Adhure' written by Amrutlal Nagar etc. |
| CO3 | Know the biography and auto- biography of reputed writers. Like Mahip Singh, UshaPriyamvada, Ghyanranjan.Sriram Parihar |

## 1.3 DEPARTMENT OF MARATHI

**Course: BA, B. Sc, B.Com (Compulsory Marathi)**

| S. No | Course Outcomes |
|---|---|
| CO1 Sem I | Learn the art and style of letters, Read Marathi prose to know famous Marathi writers and their famous works, Know famous Marathi poems, poets, their poetry and its special features, Know about the "Samanarthi Shabdavali ",report writing. |
| CO2 Sem II | Know the biography and auto- biography of reputed writers, information interview writing, Know about idiom & phrases |

**Course: BA (Compulsory Marathi)**

| S. No | Course Outcomes |
|---|---|
| CO1 Sem III | Know about the "Feature lekhan", "Proof reading", Media News writing, Historywriting |
| CO2 Sem IV | Read Marathi prose to know famous Marathi writers and their famous works,Translation andinterview writing |
| CO3 Sem V | Know the biography and auto- biography of reputed writers, "Feature lekhan", editing process, summary of stories, poems, articles, official letter writing |

| | |
|---|---|
| CO4 Sem VI | Know about the summery, Principals & characters of Novel, computer and Internet (Introduction and types), examine text, introduction of their poets. |

**Course: BA (Marathi Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 Sem I | About Marathi Novel Marathi literature: meaning, definition, types, title, sub-title. |
| CO2 Sem II | Know about the summary, Principals & characters of Drama, biography and auto-biography of reputed writers |
| CO3 Sem III | About Sant Tukram "Abhang", Gain knowledge about "Kavyashatra Parichaya",Provide deep knowledge of "Sant Vangmayach Itihas ", "Mmamt, Waman, Bharat, Bhamh, Rudrat" |
| CO4 Sem IV | the origin and development of Marathi Poet, importance of "Kusmagraj" in Marathi Poet writing, "Kavyakaran, shabdshakti and Arthavichar", Gian the "Manabhau Literature, Shahiari Literature, Sant Literature", "Modern Poetry" and their importance in Marathi Kavya. |
| CO5 SemV | knowledge of "Prachin Gadya", "Dalit Literature", "Bhasha Vidyan Parichya' |
| CO6 Sem VI | knowledge of Novel "Garudzep" written by Bharat Andhale, "Prachin literature cha Itihas", biography and auto- biography of reputed writers like SantanchiAbhangwani, "Praman Bhasha and Boli" |

## DEPARTMENT OF URDU

**COURSE OUTCOMES (COs)**

**COURSE: B.A., B.Sc. (Urdu)**

**Course: B.Sc. SEM I (Compulsory Urdu)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Learn the art and style of writing essays. |
| CO2 | Read Urdu prose, to know famous Urdu writers and their famous works. |
| CO3 | Know famous Urdu ghazals, poets, their poetry and its special features. |
| CO4 | Acquaint with Urdu poems and the famous poets (Nazmnigars). |

**Course: B.Sc. SEM II (Comp. Urdu)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Write the essays in Urdu |
| CO2 | Know about Urdu drama, Dramatist and their contribution in Urdu Literature |
| CO3 | Get opportunity to read Rubaiyaat |
| CO4 | Learn to read Urdu Nazmein, Qasida, Marsiya and Masnavi |

**Course: B.A. SEM I (Compulsory Urdu)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Learn the art and style of writing essays |

| | |
|---|---|
| CO2 | Read Urdu prose, to know famous Urdu writers and their famous works |
| CO3 | Know famous Urdu Ghazal Poets, their poetry and its special features |
| CO4 | Acquaint with Urdu nazmein and the famous poets |

**Course: B.A. SEM II (Comp. Urdu)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Write the essays in Urdu |
| CO2 | Know about Urdu drama, Dramatist and their contribution in Urdu Literature |
| CO3 | Get opportunity to read and comprehend specialty of Urdu Gazals |
| CO4 | Learn to read and write Urdu poems. (Nazm) |

**Course: B.A. SEM III (Comp. Urdu)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Read Urdu Novel "Gaban" and novelist Munshi Prem Chandar, his life and his important works in Urdu |
| CO2 | Know about the major treads of Urdu Drama and 'fan' |
| CO3 | Read and learn about famous Urdu 'Mazameen' |
| CO4 | Read and understand the famous Urdu Patriotic poems |

**Course: B.A. SEM IV (Comp. Urdu)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Know about Midhatul Akhtar, his life and his important works in Urdu Adab |
| CO2 | Read and understand the famous Quami Nazmein |
| CO3 | Know about Drama writer Shameem Hanfi |

**Course: B.A. SEM V (Comp. Urdu)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Gain the art of writing essay in Urdu |
| CO2 | Gain insight about the personality of Hali through his Famous book 'Yaadgar e Hali' |
| CO3 | Read and learn the famous Urdu 'Hamd and Naat' |
| CO4 | Read about the famous Urdu poets and understand their poetry |

**Course: B.A. SEM VI (Comp. Urdu)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Write essay and construct the sentences |
| CO2 | Gain insight about the personality of Saleha Abid Hussain through his famous book'Yaadgar e Hali' |
| CO3 | Read the Jadeed Urdu Ghazals |
| CO4 | Learn about the Jadeed Urdu poets and their Poetry |

**URDU LITERATURE:**

**Course: B.A. SEM I (Urdu Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Know Urdu Fiction and Fiction writers |
| CO2 | Get opportunity to learn Urdu Ghazals |
| CO3 | Learn about famous Urdu writers |
| CO4 | Get knowledge about Urdu Marsiya nigari, and their poets |
| CO5 | Read and learn Urdu Masnvi and fan |
| CO6 | Gain knowledge about Urdu "Qasida goi" and their poets |

**Course: B.A. SEM II (Urdu literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Introduce to Urdu Novel, Short story and writers |
| CO2 | Read and learn the old poems of Urdu Literature |
| CO3 | Read and learn the famous Urdu 'Rubaiyaat' |
| CO4 | Read the Urdu 'Qitaa' and learn Urdu Grammar |

**Course: B.A. SEM III (Urdu Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand 'What is Literature?' and the role of Literature in life |
| CO2 | Get knowledge about History of Urdu Literature, its meanings and importance of the major Urdu Dialects |
| CO3 | Learn about the contributions of Sufi Sant in the Expansion of Urdu language. |
| CO4 | Appreciation of the 'Fanoone Latifa' |
| CO5 | Learn about the major contribution of the famous Urdu writer "Sir Sayyed Ahmed Khan" in Urdu Literature |

**Course: B.A. SEM IV (Urdu Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Know about Urdu Literature and its beginning from Dakkan |
| CO2 | Understand the different views about Urdu language and Expansion of Urdu language |
| CO3 | Gain Knowledge about major dialects of Urdu language |
| CO4 | Learn and Grasp the Essence of Urdu poetry, prose, Stories, Short Stories and Novels |

**Course: B.A. SEM V (Urdu Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Learn about the life and contribution of Allama Iqbal in Urdu Literature |
| CO2 | Read and learn the poetry of famous Urdu Poet Allama Iqbal |
| CO3 | Read and learn about the famous Urdu writer Shibli Nomani and his major works |
| CO4 | Learn about 'Ilm e Bayaan' and its types, and how to do 'Taktee' |

**Course: B.A. SEM VI (Urdu Literature)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Learn about the life of Shair-e-Inqlab "Josh Malih Aabadi" and his contribution to Urdu Literature. |
| CO2 | Get the opportunity to read the famous Urdu poems of Josh Malih Aabadi |
| CO3 | Read and learn the mazameen of the famous Urdu writer Allama Shibli Nomani |
| CO4 | Gain knowledge of 'Sanatein' and how to do 'Takti' |

## 1.4 DEPARTMENT OF SANSKRIT

| S. No | Course Outcomes BA, B. Com., B, Sc. Compulsory Sanskrit Sem I & II |
|---|---|
| CO1 | Learn the poetic gesture. |
| CO2 | Read and understand the language properly. |
| CO3 | Know about famous authors and scientists of our ancient India. |
| CO4 | Know about the variety of prose and poems in the literature. |

| S. No | Course Outcomes BA & B.Com sem III & IV (Compulsory Sanskrit) |
|---|---|
| CO1 | Understand the deep Indian philosophy as course contains 2nd canto of Shreematbhagvatgeeta. |
| CO2 | Know about Upanishadas. As Upanishadas are main factor of our great philosophy. |
| CO3 | Know about mono-act play in Sanskrit which is the proof of great and wide thinking of ancient authors. |
| CO4 | Learn the pattern of learning, teaching, and royal dignity. |

| S. No | Course Outcomes BA Sem. V & VI (Compulsory Sanskrit ) |
|---|---|
| CO1 | Get the degree certificate. |
| CO2 | Know the variety of poems. |
| CO3 | Know the virtues of our life. |
| CO4 | Create a composition. |
| CO5 | Appreciate the poems. |
| **S. No** | **Course Outcomes BA Sem. I & II (Sanskrit Literature)** |
| CO1 | Learn the basic grammar and Construct the sentence on their own. |
| CO2 | Know the virtues and morals of our life. |
| CO3 | Know the royal dignity and administrative machinery of ancient India. |
| CO4 | Know about how to create suspense and twists in the drama. |
| CO5 | Know about our Kumarsambhavam of Bhas. |
| **S. No** | **Course Outcomes BA Sem. III & IV (Sanskrit Literature)** |
| CO1 | Know about poetics and diversity in literature |
| CO2 | Compose their own composition. |
| CO3 | Explain the text with adorning language. |
| CO4 | Know about the great saint and author of our India Maharshi Ved Vyas and his epic Mahabharat. |

| S. No | Course Outcomes BA Sem. V & VI (Sanskrit Literature) |
|---|---|
| CO1 | Learn the original grammar of the language. |
| CO2 | Know about the great drama Abhidnyanshakuntalam. |
| CO3 | Get the degree certificate. |
| CO4 | Compose the composition. |

## 1.5 DEPARTMENT OF MUSIC

**Course outcomes:**

| S. No | Course Outcomes |
|---|---|
| CO1 | The knowledge of ragas and talas will create an insight towards Indian music |
| CO2 | The practical knowledge will enhance their aural and demonstration skills |
| CO3 | The students will get well acquainted to different styles of Classical music |
| CO4 | Study of various technical terms, contribution of great musicians and study of genesis and development of music will give them a broader outlook of history and culture of Indian music |
| CO5 | The theoretical as well as practical aspects will help them apply the techniques in various fields (other than only becoming a performing artist), like meditation, yoga, therapies, media, academics etc. |

## 1.6 DEPARTMENT OF ECONOMICS

**Course Outcomes (Micro Economics, Macro Economics and Indian Economy)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Learn the basic principles of microeconomic theory. |
| CO2 | Understand efficiency and equity of consumption and production as well as cost and firms' policy in market behavior. |
| CO3 | Analyze demand by households and supply of goods and services by business firms. |
| CO4 | Understand interaction of demand and supply in various market structures. |
| CO5 | Evaluate how microeconomic concepts can be applied to analyze the real-life situation. |
| CO6 | Gain and develop the skill to think practically in to economic domain like economists. |
| CO7 | Think on distribution shares of various factors of production and shall also be able to think about maximum welfare of community. |
| CO8 | Learn various concepts of GDP and relationship between National Income and welfare of people. |
| CO9 | Understand factors determine domestic productivity, employment level of prices and interest rates. |

| | |
|---|---|
| CO10 | Apply basic concepts to analyze the situations of inflation and business cycles. |
| CO11 | Evaluate the role of monetary and fiscal policy of Government to fight inflation or to stabilize business cycles. |
| CO12 | Understand the relationship between consumption function and investment in economy and shall be able to give suggestion for promoting investment. |

## 1.9 DEPARTMENT OF GEOGRAPHY

**Course outcomes:**

**Semester-I Introduction to Geography**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand fundamental concepts of geography |
| CO2 | To understand fundamental concepts of geography |
| CO3 | To explore uniqueness of the earth in the solar system |
| CO4 | To understand Motion of the earth and its impact on the planet earth |
| CO5 | Significance of latitude and longitude |
| CO6 | To understand man-environment relationship |
| CO7 | Provides Historical Development of geography and |
| CO8 | Information about career opportunity in geography |

**Semester-II Climatology**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand the significance of climatic processes and factors involved in it |
| CO2 | To understand relation between temperature, pressure and wind |
| CO3 | Significance of climatic phenomenon such as condensation, precipitation etc. |
| CO4 | To analyse atmospheric disturbances and forecast for human betterment and |
| CO5 | To study, analyse, interpretation and finding solutions to climatic issues |

**Semester-III Geomorphology**

| S. No | Course Outcomes |
|---|---|
| CO1 | To gain knowledge and explore interior of the earth |
| CO2 | Understanding movements of the earth and its consequences (earthquakes, etc) |
| CO3 | To understand processes involved with geomorphic agents and |
| CO4 | To study the landforms produced by various geomorphic agents. |

**Semester-IV Human Geography**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand basic concepts of human geography and human races |
| CO2 | Study of human adaptation to their environment and |
| CO3 | To study spatial distribution of population and its major concepts |

**Semester-V Regional Geography –Maharashtra**

| S. No | Course Outcomes |
|---|---|
| CO1 | To acquire basic knowledge of Maharashtra |
| CO2 | To study physical features and interrelation with climate, forest & soil |
| CO3 | To understand and analyses economic activities and |
| CO4 | To study growth and composition of Population |

**Semester-VI Regional Geography –India**

| S. No | Course Outcomes |
|---|---|
| CO1 | To study origin and formation of physical features of India. |
| CO2 | To understand climatic phenomenon of India and its overall significance & for agriculture |
| CO3 | To analyse Green revolution & its impact on Indian agriculture and |
| CO4 | To study and analyse trade of India |

## 1.10 DEPARTMENT OF HISTORY

**Course Outcomes**

**B.A Semester I: History of India from earliest times to 1525 AD**

| S. No | Course Outcomes |
|---|---|
| CO1 | Know about the Indus valley civilization in India, Vedic Age and Religious reformation in the society through studying the rise of Jainism and Buddhism |
| CO2 | Know the political integration and economic strengthening of India under the Mauryas and the Guptas |
| CO3 | Study the rise of Islam and age of invasion in India from 7th century AD |
| CO4 | Understand the establishment, expansion and administration of Muslim rule in Sultanate era |
| CO5 | Know the architecture of sultanate era and socio-religious reform movements in Hinduism and Islam |

**B.A Semester II: History of India from 1526 to 1761 AD**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the onset of Mughal rule in India and underlying north Indian politics and administration |
| CO2 | Know the Post-Akbar rule along with the art, architecture and socio-religious conditions |
| CO3 | Explain the rise of Chatrapati Shivaji and Maratha rule in Deccan |
| CO4 | Know about the administrative need and the importance of grand coronation of Chatrapati Shivaji. Assess the Chhatrpati Shivaji's invasion on Karnataka |
| CO5 | Understand the Maratha's struggle for existence after Shivaji's death and rise of Peshwas under Shahu's reign |
| CO6 | Comprehend the increase of Maratha influence in north India thereby leading to the Third battle of Panipat |
| CO7 | Get acquainted with the advent of European traders in India |

**B.A Semester III: History of India 1764 to 1885 AD**

| S. No | Course Outcomes |
|---|---|
| CO1 | Analyze establishment of British power in India |
| CO2 | Understand the phases of diplomacy and administration of East India Company government in India. Know about the development of means of transport and communication in India from the mercantile point of view |
| CO3 | Evaluate the effects of British policy on Indian Economy, Agriculture and Industries |
| CO4 | Understand the resistance to British rule through the 1857 Revolt |
| CO5 | Evaluate the renaissance and social reform movement in India |
| CO6 | Study the passing of Company rule to the British crown and analyze the change in administrative policy of British towards India as a result of political awakening |
| CO7 | Understand how the foreign rule inspired rise of nationalist feelings |

**B.A Semester IV: History of India 1886 to 1947 AD**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the difference between moderates, extremists and revolutionaries |
| CO2 | Compare Nationalist movements- Pre-Gandhian and Post- Gandhian Era |
| CO3 | Understand how the Indian freedom struggle mass movements created insecurity for the British rule |
| CO4 | Understand the British policy of Divide and Rule and its impact on rise of communalism in India |
| CO5 | Know how British colonial empire was looming under threat due to the Second World War. Know the effect of this world war by studying the evolutionary processes of constitutional developments in India |
| CO6 | Understand the phase of communalism which gave rise to demand of Pakistan |
| CO7 | Evaluate the British plans for granting independence to India leading to birth of two nations |

**B.A Semester V: Modern World 1789 to 1920 AD**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the causes and aftermaths of the French revolution |
| CO2 | Understand how industrial revolution, scientific and geographical encouraged colonial expansion in Asia and Africa |
| CO3 | Know the rise of imperial Japan and resultant conflicts with Russia and China |
| CO4 | Understand China's transformation from conservative monarchy to Confucian Communism |
| CO5 | Understand the conditions of pre and post First World War. Analyze how Eastern question led to balkanization of Europe and ultimately give rise to causes of First World War |
| CO6 | Understand and evaluate the provisions and consequences of Treaty of Versailles |
| CO7 | Study establishment and work of League of Nations |
| CO8 | Understand the causes and consequences of Russian Revolution |

**B.A Semester VI: Modern World 1920 to 1960 AD**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the Socio-economic and political conditions of Soviet Russia under Lenin and Stalin's rule |
| CO2 | Comprehend the rise of dictatorial ship in Germany and Italy and study the impact of their policies on world politics |
| CO3 | Understand the conditions of pre and post Second World War and study its causes and effects |
| CO4 | Know the structure, significance and functioning of UNO |
| CO5 | Understand the division of World in communist and capitalist blocs and the onset of Cold War and its phases |
| CO6 | Know the rise of Third World nations and Non-alignment Policy |

## 1.11 DEPARTMENT OF HOME ECONOMICS

**Course Outcome**

**B.A. Sem I & II**

| S. No | Course Outcomes |
|---|---|
| CO1 | Students learn Embroidery stitches and able to do Hand Embroidery |
| CO2 | Student develop knowledge and skill about principles and methods of Interior decoration |
| CO3 | Develop employability skills and ' Earn while learn ' skill |

**B.A.Sem III & IV**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the concept of adequate diet, functions of food and role of various nutrients , their requirements in different stages of life |
| CO2 | Develop the ability to improve nutritional quality of food |

**B.A. Sem. V & VI**

| S. No | Course Outcomes |
|---|---|
| CO1 | Students understand biological and psychological foundation of development. Understand and appreciate the importance of parent child relationship |
| CO2 | Student learn different creativity skills |

## 1.12 DEPARTMENT OF PHILOSOPHY

**Course outcomes**

**Semester I**

**(Indian Ethics)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the fundamental concepts of ethics, its historical origin, and the development of Indian Ethical/Moral Values. |
| CO2 | Distinguish different religious ethical views thereby able to develop a comprehensive understanding of various Indian Ethical Theories. |
| CO3 | Compare and comprehend the contemporary Indian Ethical Theories of Mahatma Gandhi & Lokmanya Tilak. |
| CO4 | Identify and relate their own ethical perspective with different ethical theories. |

**Semester II (Western Ethics)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the fundamental concepts of western Ethics, its origin & development. |
| CO2 | Distinguish different moral actions to understand the historical formation of western Ethical Thought. |
| CO3 | Describe and analyze various Modern Ethical theories. |
| CO4 | Understand and analyze different Western Theories of Punishment. |

**Semester III (Epistemology and Metaphysics)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Introduce Students to main themes in the theory of Knowledge & Ultimate Reality |
| CO2 | Understand what is knowledge and the key issues regarding the sources of Knowledge |
| CO3 | Analyze metaphysical views and explore their implications |
| CO4 | Engage in scholarly inquiry to identify and investigate questions of a theoretical nature |
| CO5 | Develop ability to think Philosophically |
| CO6 | Develop intellectual independence and practice self-directed inquiry |
| CO7 | Students can explain main problem of Metaphysics, Epistemology |

## 1.13 DEPARTMENT OF POLITICAL SCIENCE

**Course Outcomes:**

**B.A Sem. I: Political Theory**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the nature and relevance of Political Theory. |
| CO2 | Understand different concepts i.e. power, authority, rights, liberty, equality and justice. |
| CO3 | Understand present situation of concepts. |

**B.A I Sem. II: Western Political Thoughts**

| S. No | Course Outcomes |
|---|---|
| CO1 | Study of various western political thinkers and their political thoughts/ theories |
| CO2 | Comparative study of western and Indian political thoughts |
| CO3 | Comparative study of normative and empirical political thoughts |

**B.A Sem. III: Indian Government and Politics**

| S. No | Course Outcomes |
|---|---|
| CO1 | Study of Indian Constitution and its relevance |
| CO2 | Inculcate Political Culture |
| CO3 | Knowledge of issues and challenges in contemporary Indian politics |

**B.A Sem. IV: State Government and Politics**

| S. No | Course Outcomes |
|---|---|
| CO1 | Acquiring knowledge of state political machinery of Maharashtra |
| CO2 | Study of Local Self Government, its functions and responsibilities in Maharashtra |
| CO3 | Study of Regional Political Parties and their influence on Indian Political scenario |
| CO4 | To promote Local elections awareness and political leadership |

**B.A Sem. V: Comparative Government and Politics**

| S. No | Course Outcomes |
|---|---|
| CO1 | Comparative study of various Constitutions (Legislature, Executives and Judiciary |
| CO2 | Historical development of various constitutions in the worlds |
| CO3 | Study of contemporary world issues such as Feminism and political Participation |
| CO4 | Study of comparative political issues such as comparative political culture, political<br>parties, and political socialization in various nations |

**B.A Sem. VI: International Relations**

| S. No | Course Outcomes |
|---|---|
| CO1 | Study of India's International Relations with other countries |
| CO2 | Study of various International organizations, its formation and role in International Politics |
| CO3 | Study of International Law and Human Rights |
| CO4 | Study of concepts of world Peace |
| CO5 | India's role in International Politics |

## DEPARTMENT OF SOCIOLOGY

**Course Outcomes:**

**Semester I Sociology: An Introduction**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the meaning of sociology and its relationship with other social sciences. |
| CO2 | Understand the basic concepts in sociology. |
| CO3 | Understand the meaning, process and agencies of socialization. |
| CO4 | Understand the meaning, functions, destruction of social structures. |

**Semester II Sociology: Themes and Perspectives**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the concepts of culture and its relationship with individual. |
| CO2 | Understand the concepts and mechanism of social lenience and control. |
| CO3 | Understand the concepts of social stratification as well as mobility. |
| CO4 | Understand the major sociological perspectives. |

**Semester III Foundations of Sociological Thought**

| S. No | Course Outcomes |
|---|---|
| CO1 | To orient the students to the basic sociological thoughts of the great masters of sociology |
| CO2 | To help the students to shape their thoughts and ideas and also addressing many current sociological issues and problems |
| CO3 | To make students acquainted with the social, political, economic and intellectual contexts in which sociology emerged as a distinctive discipline |
| CO4 | To help students to gain deeper understanding into the works of the founding fathers of sociology and their relevance in contemporary society |

**Semester IV Indian Sociological Tradition**

| S. No | Course Outcomes |
|---|---|
| CO1 | To make the students understand the seminal ideas and thoughts reflected in the works of Indian Sociologists |
| CO2 | To help the students in understanding at the theoretical level the sociological issues concerning Indian society |

**Semester V Indian Society, Structure and Inequality**

| S. No | Course Outcomes |
|---|---|
| CO1 | To acquaint the students with Indian society in terms making them know the issues and problems confronting the institutions of caste and family |
| CO2 | To bring into fore the issues and problems concerning the tribes and rural communities in India |
| CO3 | To make students acquainted with Indian society, its issues and problems |
| CO4 | The make them understand the intricacies of caste, family and educational system in India and their changing patterns |
| CO5 | To understand the issues and problems related to tribes and population in India |

**Semester VI Current Social Problems in India**

| S. No | Course Outcomes |
|---|---|
| CO1 | The paper is based on the problems the society in India is facing at present |
| CO2 | To make the students know the nature, causes and consequences of those problems as well as the measures to put a check on them |

## 1.14 DEPARTMENT OF PSYCHOLOGY

**Course Outcomes:**

**Semester I:**

| S. No | Course Outcomes |
|---|---|
| CO1 | Remember the Purpose, Method and Importance of studying Human Psychology. |
| CO2 | Understand Biological Determinants of Human Behavior. |
| CO3 | Understand the Basic Psychological Processes and their applications in day to day life. |
| CO4 | Develop the ability to evaluate how an individual person perceives, thinks, takes decisions, solves problems, learn new things and memorizes the world around them. |

**Semester II:**

| S. No | Course Outcomes |
|---|---|
| CO1 | Develop an understanding about Basic Human Motives and Emotions. |
| CO2 | Remember the processes of development of Human Intelligence and Personality |
| CO3 | Understand scope of Psychology in various aspects of personal, professional, social life of an individual. |
| CO4 | Understand scope for Research, Statistics and Testing in Psychology. |

**Semester III:**

| S. No | Course Outcomes |
|---|---|
| CO1 | Abnormal psychology: causes, symptoms and therapies |

**Semester IV:**

| S. No | Course Outcomes |
|---|---|
| CO1 | Application of statics, psychological testing |

**Semester V:**

| S. No | Course Outcomes |
|---|---|
| CO1 | Organizational behavior, work motivation stress and job satisfaction |

**Semester VI:**

| S. No | Course outcomes |
|---|---|
| CO1 | To understand about positive psychology, Importance of counseling, various techniques of counseling includes Yoga and Meditation. |

**1.15 Department of Persian**
Subject: Persian Literature
**Programme Outcomes**

| S. No. | Programme Outcomes |
|---|---|
| PO1 | Write letters in Persian on their own |
| PO 2 | Write essays in Persian on their own |
| PO 3 | Know about modern Persian novelist, Short Story writers and modern and ancient poets |
| PO 4 | History of Persian language and literature |
| PO 5 | Read, write and understand and enjoy Persian Ghazals and poem |
| PO 6 | Gain knowledge about the authors and poets their lives and their contribution to Persian literature |
| PO 7 | Understand the grammar and make a sentences in Persian |
| PO 8 | Understand the Prosody their types and uses |
| PO 9 | Understand the Rhetoric and it's uses |

**B.A. SEM. I (Persian Literature)**
**Course Outcomes**:

| S. No. | Course Outcomes: |
|---|---|
| CO 1 | Understand literature and the role of literature in life |
| CO 2 | Knowledge about Indian history of Persian literature and translation of the work |
| CO 3 | Become interpreters and translators of Persian; learn forms of poetry and calligraphy. |
| CO 4 | Learn about famous Indian Persian writers |
| CO 5 | Have an idea about the history of Mamluk period especially about Shamsuddin Altamash and his successors. |
| CO 6 | Read the Ghazal and use the Rhetorics and their poets |

**Course: B.A. SEM.II (Persian Literature)**
**Course Outcomes**:

| S. No. | Course Outcomes: |
|---|---|
| CO 1 | Learn about the life and contribution of "Jawahar Lal Nehru" |
| CO 2 | Knowledge about how to write autobiography |
| CO 3 | Learn about poetry and its forms and calligraphy. |
| CO 4 | Have an idea about the history of Bahram Gor. |
| CO 5 | Learn about "illustration" and how to do use it |

**Course: B.A. SEM.III (Persian Literature)**
**Course Outcomes**

| S. No. | Course Outcomes: |
|---|---|
| CO 1 | Introduce to Persian Short Story, Drama and writers.<br>Knowledge about Mughal history and contribution of Persian translation work |
| CO 2 | Read and learn the Qasidah of famous Persian Poet " Abul Faiz Faizi" |
| CO 3 | Read and learn the Ghazal of Persian |
| CO 4 | |

**Course: B.A. SEM.IV (Persian Literature)**
**Course Outcomes**:

| S. No. | Course Outcomes: |
|---|---|
| CO 1 | Know Short Story of Persian and Persian writers. |
| CO 2 | Read and learn the potry of famous Persian Poet Jami. |
| CO 3 | Read and learn about the famous Persian Novel writer " Mohammad Hejazi". |
| CO 4 | Learn about the Rhetorics and its type and how to do use it. |

**Course: B.A. SEM.V (Persian Literature)**
**Course Outcomes**:

| S. No. | Course Outcomes: |
|---|---|
| CO 1 | Learn about the life and contribution of " Dr. Zabiullaha Safa" in Persian Prose. |
| CO 2 | Read and learn about the famous Persian writer "Ali Dashti and Sheen Par Tao". |
| CO 3 | Learn about the contribution of Sufi poet of Persian language. |
| CO 4 | Learn about the major contribution of the famous Persian Poet " Aufi". |

**Course: B.A. SEM.VI (Persian Literature)**
**Course Outcomes**:

| S. No. | Course Outcomes: |
|---|---|
| CO 1 | Learn about the life of " Mohammad Ali Jamal Zadeh" and his contribution of Persian literature. |
| CO 2 | Get the opportunity to read the famous Persian Poet of Sahikh Fariduddin Attar |
| CO 3 | Read and learn about the famous Persian "Ghazal" of Shaher Yar. |
| CO 4 | Gain knowledge of sentence and how to use the sentence. |

## 1. Faculty of Science and Technology

### 1.1 DEPARTMENT OF PHYSICS

### COURSE: B. Sc. (Three years; Six Semesters)

**COURSE OUTCOMES**

| | |
|---|---|
| | **Semester I Paper I** |
| CO1 | To understand basic concepts of elasticity and plasticity, their applications in real life problems such as cantilever and bending of beams etc. |
| CO2 | To understand concept of viscosity in general and the applications such as Bernoulli's theorem and equation of continuity in particular and they should be able to apply concept of terminal velocity to solve the numerical and why viscosity varies with temperature. |
| CO3 | To understand to correlate and apply the crux of surface tension and angle of contact in daily life and to understand what is importance of frame of reference , laws of motions and their impact in daily life phenomenon. |
| CO4 | To gain the conservation of momentum phenomenon and their application in rotational dynamics and to know how moment of Inertia plays a vital role in studying motion of bodies having different shapes and sizes. |
| | **Semester I Paper II** |
| CO1 | To understand similarities and differences between Coulomb's Law and Newton's Law of Gravitation and their significance to Understand the concept of Electric Field and Electric Potential and their related phenomenon. |
| CO2 | To know the concept of Dielectrics, their importance. Applications od Dielectrics in Capacitors, industries etc. |
| CO3 | To know the differences between static and dynamic electric and magnetic fields. What are the applications of both fields. To understand various laws that governs electrical circuits such as Kirchhoff's voltage and current laws, Faradays Laws, Lenz's Law etc., their applications in LC,RC and LCR Circuits. |
| CO4 | To understand concept of Phase Diagrams, phase difference in pure L,C,R circuts and whats is importance of Quality factor Q and Power Factor in A.C. Circuits. |
| | **Semester II Paper I** |
| CO1 | To understand the relations between Oscillatory, Periodic and Simple Harmonic Motions. What is the difference between Forced and Damped Oscillations. |
| CO2 | Able to understand how phenomenon of resonance could be achieved by Forced oscillations. What is mean by power dissipation and quality factor. |

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|---|---|
| CO3 | To understand transport of mass, viscosity and conductivity in fluids, along with this they should have clear cut understanding of all gas laws such as Boyles Law, Charles Law etc. To Understand what is Thermal Equilibrium and relation between Heat Energy, internal energy and Work Done. |
| CO4 | To Understand how Entropy is related to amount of heat and temperature, Carnot Engine its efficiency and Refrigerator. To understand different scales of measuring the temperatures such as Kelvin Scale, Fahrenheit Scale, Degree Celsius Scale etc. and interconversion in these scales. What is mean by Joule Coefficient |
| | **Semester II Paper II** |
| CO1 | To understand Kepler's Laws of Planetary Motion, concept of Gravitation, Gravitational potential at different points in Solid Sphere etc. |
| CO2 | To understand facts and figures of our Solar System and Milky Way Galaxy. To measure size and distances of Planets by Parallax Method. |
| CO3 | To understand all theories about Magnetism, differences between Dia, Para and Ferromagnetic Materials. To understand Meissner's Effect, Superconductivity Phenomenon and importance of Curie temperature in Ferromagnetism. |
| CO4 | To understand basic concept about magnetic field such as magnetic dipole moment, Lorentz Equation, Ampere Circuital Law, Biot-Savart Law and Guass Law in Magnetism. |
| | **Semester III Paper I** |
| CO1 | Understanding Waves in media, concept and derivations of Group velocity and phase velocity and their relation and measurement, Standing waves, Harmonics, Understanding of the concept of Quality of sound, Study of Human ear and its response to waves and limitations , the musical scale, Temperaments and musical instruments. |
| CO2 | Study of Applied acoustic, Acoustic of building, Reverberation and reverberation<br>period, Factors affecting the acoustics of building, Requirements for good acoustics. |
| CO3 | Study of Ultrasonic waves and Application of ultrasonic waves |
| CO4 | Study of Power supplies –Understanding the circuits of half wave and full wave rectifiers Filters, various components in power supply circuits for regulation andstabilization |
| | **Semester III Paper II** |
| CO1 | To study Interference of light and construction and working of various instrumentsNewton's ring apparatus, Michelson Interferometer, Fabry - Perot Interferometer and their applications |
| CO2 | To study Diffraction of light and classify and identify Fresnel and fraunhofer diffraction, Study of principle, construction and working of diffraction grating andits applications, Resolving power of grating, Rayleigh's criterion for resolution. |
| CO3 | To understand Polarization of light and its types, principle, construction and working of Uniaxial and biaxial crystals, Nicol prism and its application, phase retardation plate ( Half and Quarter wave), Double prism. |
| CO4 | Study of electromagnetic waves in free space and in conducting media, Maxwell equations and their physical significance, Poynting theorem. |
| | **Semester IV Paper I** |

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|---|---|
| CO1 | Study of crystal sructures and classification into Bravais Lattices, Determinations ofMiller indices, allowed rotations, lattice types, lattice planes, Bravais lattices, packing fraction coordination number, Inter-planer distances, Study of Crystalstructures of NaCl, diamond, CsCl, ZnS etc. |
| CO2 | X-ray-study of discrete and continuous X-ray spectra, X- ray emission spectra, Characteristics X-ray spectra, , Moseley law its importance and applications, Augereffect, X-ray absorption spectra, applications of X-rays in various fields. |
| CO3 | Studying the concept of Reciprocal lattice, Wigner Seitz cell, Geometrical relationbetween direct and reciprocal lattice, Laue's theory of X-ray diffraction, Bragg's law and Bragg's diffraction conditions in direct and reciprocal lattice, Laue's pattern, Bragg's spectrometer and its applications (wavelength determination and simple cubic structure determination). |
| CO4 | Study of LASER- Introduction to Laser (purity of spectral line, spatial and temporal coherence), Einstein's relation, absorption, spontaneous and stimulated emission, Population inversion, Optical pumping, characteristics of laser beam, three level and four level laser system, Ruby laser, He-Ne laser, Semiconductor laser, Application of lasers. |
| | **Semester IV Paper II** |
| CO1 | Study of Light Emitting Diode, Solar Cell, Photovoltaic cell, Bipolar transistor: Construction and working, transistor characteristics in CE and CB Mode, Graphical analysis of CE configuration. Hybrid parameters, Stability factor, Bias stabilizing circuits. |
| CO2 | Study of Field Effect Transistor- Construction, and working principle and characteristics of JFET, MOSFET, their special features and applications. |
| CO3 | Study of Rotational, vibrational and rotational-vibrational spectra of molecules,Derivation of Quantization of vibrational and rotational energies, Born Oppenheimer approximation. |
| CO4 | **Study of** Experimental set up of Raman effect, Classical and quantum explanation,Applications of Raman effect, Study of Electronic spectra, Elementary ideas of NMR and ESR and their applications in spectroscopy. |
| | **Semester V Paper I** |
| CO1 | To study different atomic models , concept of space quantization, electro spin, Study of quantum numbers, study of Zeeman effect and Stark effect |
| CO2 | To study Free electron theory and Band theory of solids, distinction between metal, semiconductor and insulator. Study of Hall effect |
| CO3 | Study of various concepts for the development of mathematical formulations in Statistical Physics. Maxwell- Boltzmann distribution law, its application to molecular speed |
| CO4 | Study of Bose-Einstein statistics, its applications, Fermi-Dirac distribution and itsapplication to free electrons in a metal, Study of concept of negative temperature, Fermi level and Fermi temperature, comparison between M-B, B-E and F-D statistics. |
| | **Semester V Paper II** |
| CO1 | Study of Quantum mechanics- Failure of classical physics to explain several |

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|---|---|
| | experimental results like black body spectra, Planck's radiation law, Compton Effect,<br>Understanding Concept of Wave particle duality, Experimental demonstration of matter waves and derivation of wavelength of matter wave, Study of Davisson and Germer experiment, Heisenberg's uncertainty principle and Thought experiment. |
| CO2 | Study of Schrodinger's equation (Time dependent and time independent equations), Physical significance of wave function $\Psi$, Operators, Expectation valuesof a dynamical quantities, Study of free particle in a one and three dimension. |
| CO3 | Introduction to Nanoscience and Nanotechnology, Study of Difference between nanomaterials and bulk materials, Understanding Reduction of dimensions 3D, 2D,<br>1D, 0D materials, various morphologies of nanomaterials |
| CO4 | Nanotechnology- Different methods of synthesis of nanomaterials (Determinationof size of nanoparticles, application of nanomaterials in various fields |
| | **Semester VI Paper I** |
| CO1 | Study of general theory of relativity and special theory of relativity,<br>Inertial andnon- inertial frames, Galilean transformation Lorentz transformations, Length<br>contraction, Time dilation, Velocity addition theorem, variation of mass withvelocity, Mass energy equivalence and equations. |
| CO2 | Study of particle accelerators and radiation detecters, Shell model of the nucleus,Nuclear fission, and nuclear fusion, Liquid drop model, Chain reaction, Nuclear<br>reactors, Nuclear fusion, Cosmic rays, Elementary particles,. |
| CO3 | Understanding $\alpha$ -decay, $\beta$- decay and $\gamma$- decay, relevant theories, estimation of energies and range during these decay processes. |
| CO4 | Study of History of bio physics, Bio Potential, measurements of ECG, EEG, ERG,EMG.<br>Basic principle, construction and working and applications of Bioinstruments- colorimeters, Spectrophotometer, PH-Meter and centrifuge |
| | **Semester VI Paper II** |
| CO1 | Study of Classification of amplifiers, multistage amplifiers, OPAMP IC-741, and its application as inverting, Non inverting, Adder, Subtractor, Integrator and Differentiator,<br>Study of Phase shift oscillator, Hartley oscillator, Colpitts oscillator. |
| CO2 | Understanding Propagation of light waves in optical fiber, various types of opticalfibres and their Basic structure, parameters which decide performance during transmission of optical signals |
| CO3 | Study of amplitude modulation and frequency modulation , theory and derivations, Merits and demerits. |
| CO4 | Study of Number Systems- Binary, decimal, octal, hexadecimal and their interconversions, Binary coded decimal (BCD), Addition and subtraction of binarynumbers Study of basic logic gates, NOR, NAND, Ex-OR, Ex-NOR and their truth table,Circuits for Half adder, Full adder, Half subtractor and full subtractor, Boolean equations, De Morgan's theorem and its verification. |

## 1.2 DEPARTMENT OF E LECTRONICS

**COURSE: B. Sc. (Three years; Six Semesters)**

**COURSE OUTCOMES:**

**Semester I and II -Paper I-Electronic Components and Semiconductor Fundamentals**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the construction and working of electronic components, their symbols and types and apply the knowledge in solving simple circuits and problems |
| CO2 | State and understand the network theorems and apply them for solving simple circuits with DC sources |
| CO3 | Understand the classification of materials based on electrical properties and the semiconductor materials, their types and properties |
| CO4 | Construction, working and science of PN junction diodes, Zener diodes, BJTs, FETs,MOSFETs, SCR, DIAC, TRIAC, UJT etc. their biasing, characteristics and applications |

**Semester I and II –Paper II-Digital Electronics**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand different number systems, codes and their inter conversions and uses |
| CO2 | Understand Logic Gates, their symbols, applications, universal gates, and circuits |
| CO3 | Understand and apply laws of Boolean Algebra for solving and simplifying logic circuits |
| CO4 | Understand and apply FFs to counters and registers |

**Semester III and IV -Paper I-OP AMPS and Applications**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand and apply Differential Amplifier circuits to OP AMPs |
| CO2 | Understand and apply concept of feedback to amplifiers |

| | |
|---|---|
| CO3 | Apply OP AMPs as various operational circuits |
| CO4 | Apply OP AMPs to Oscillators, Instrumentation Amplifiers and multivibrators |

**Semester III and IV -Paper II- Instrumentation**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand and apply concepts of circuit design using circuit maker software |
| CO2 | Application of CRO for measurement |
| CO3 | Application of 555 timer for oscillators and multivibrators |
| CO4 | Understand the concepts of instrumentation design and apply to bio-medical instrumentation |
| CO5 | Understand the concepts and use of transducers to various instrumentation systems |

**Semester V and VI -Paper I-Communication Electronics and C programming**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand and apply concepts of Digital and analog communication systems |
| CO2 | Understand apply the knowledge to satellite communication systems |
| CO3 | Learn and apply concepts and applications of C-programming language |

**Semester V and VI –Paper II- Microprocessors and Micro controllers**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the Hardware and apply the software of 8085 microprocessor to various applications |
| CO2 | Understand the Hardware and apply the software of 8051 micro controller to various applications |

## 1.3 DEPARTMENT OF

**CHEMISTRY COURSE: B. Sc. (Three years; Six Semesters)**

**Course Outcomes:**

**Organic Chemistry (All semesters)**

| S. No | Course Outcomes |
|---|---|
| CO1 | . To make students capable of understanding and studying nomenclature and classification of organic compounds, organic reactions and to have exposure to various upcoming areas of organic chemistry |
| CO2 | . To develop skills required for the qualitative analysis of organic compounds, determination of physical constants. |
| CO3 | . To impart the students a thorough knowledge about the mechanisms of reactions of some selected functional groups in organic compounds and also to give an outline of applied organic chemistry and the applications of organic chemistry in various spheres of chemical sciences. To give an elementary idea of chemotherapy, organic spectroscopy and photochemistry. To analyse organic compound using UV, IR and NMR spectroscopic techniques, which provides platform for students to work in industries. |

| | |
|---|---|
| CO4 | . The students will understand some fundamental aspects of organic chemistry. They will learn mechanism of some organic reactions, classification of polymers, structure and uses of some commercial and natural polymers. |
| CO5 | . To know stereochemistry and various possible conformations of organic compounds and how it affects the reaction outcome |
| CO6 | To be familiarize with the important photochemical reactions in Organic Chemistry. |
| CO7 | To understand the functions and applications of bioorganic compounds |
| CO8 | To learn the separation and purification of an organic mixture by chemical/solvent separation methods |

**Physical Chemistry (All Semesters)**

| S. No | Course Outcomes |
|---|---|
| CO1 | To study the basic postulates of quantum mechanics • To enable the students to solve the simple quantum mechanical models such as simple harmonic oscillator, particlein a 1D- box, rigid rotor, H atom etc. • To understand the quantum mechanical aspect of angular momentum and spin. • Enable the students to predict the point group of important molecules and to know how they are classified • To understand the idea of space groups and to learn the theory of molecular symmetry. • To gain skill to apply group theory to vibrational and electronic spectroscopy |
| CO2 | To learn the different theories of reaction rates and factors affecting reaction rates • To have an idea about the different types of catalysis and their mechanisms • To study the chemistry of surfaces and different types of surface phenomena • To get an idea about the various techniques employed for the characterization of surfaces • To know the general properties of colloids and macromolecules • To have an idea about the important aspects of photochemistry. |
| CO3 | To study the principle, instrumentation and applications of diffraction method, fluorescence spectroscopy, atomic spectroscopy and electroanalytical techniques. |
| CO4 | To provide an insight into the thermodynamic and kinetic aspects of chemical reactions and phase equilibria. To derive some thermochemical equations and kinetic equations. To study phase diagrams and elementary idea of catalysi To develop skills in doing experiments in kinetics, Potentiometry and phase rule. Enable the students to prepare data analysis using spreadsheet program. |
| CO5 | To provide an insight into the characteristics of different types of solutions and electrochemical phenomena. To learn ionic equilibria and electrical properties of ionsin solution. To learn the concepts of acids and bases, pH and buffer solutions. |

**Inorganic Chemistry (All Semesters)**

| S. No | Course Outcomes |
|---|---|
| CO1 | To impart skill to students in the systematic qualitative analysis of mixtures containing two acid and two basic radicals with one interfering radical by semi-micro method. |
| CO2 | To know the structure and bonding of important coordination compounds • To understand the magnetic properties of complexes and to know how magnetic moments can be employed for the interpretation of their structure • To get an overview about the stereochemistry of coordination compounds .To get an idea about the basic coordination chemistry of Lanthanides and Actinides. |

| | |
|---|---|
| CO3 | Ability to prepare inorganic complexes. Ability to prepare inorganic complexes. |
| CO4 | To know about VBT, CFT and MOT of co-ordination complexes |
| CO5 | Develops accuracy and precision in doing experiments, understands the different errors and methods for minimising errors. Conduct acid base titrations, complexometric titrations and redox titrations like permanganometry, dichrometry and iodometric-iodimetric titrations |

**Microscale Techniques in Chemistry Experiments (All Semesters)**

**SEAT (Student, Environment, Administrator, Teacher Friendly)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Better understanding of scientific concepts and principles |
| CO2 | Promote of basic skills and competencies (procedural and manipulative skills, reporting and interpretation skills) |
| CO3 | To awaken and maintain curiosity in the learning environment. |

## 1.4 DEPARTMENT OF BOTANY COURSE:

**B. Sc. (Three years; Six Semesters)**

**Course Outcomes (All Semesters):**

| S. No | Course Outcomes |
|---|---|
| CO1 | To critically evaluate ideas and arguments by collecting relevant information aboutthe plants, so as recognize the position of plant in the broad classification and phylogenetic level. |
| CO2 | To apply the scientific method to questions in botany by formulating testable hypotheses, collecting data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses. |
| CO3 | To use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They will be able to use specific examples to explicate how descent with modification has shaped plant morphology, physiology, and life history. |
| CO4 | To explain how Plants function at the level of the gene, genome, cell, tissue, Flower development. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and mode of life cycle followed by different forms of plants. |
| CO5 | To explain the ecological interconnectedness of life on earth by tracing energy and nutrient flow through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems. |

## 1.5 DEPARTMENTOF ZOOLOGY COURSE:

**B. Sc. (Three years; Six Semesters)**

**Course Outcomes (All Semesters):**

| S. No | Course Outcomes |
|---|---|
| CO1 | In the class B.Sc. Semester –I& III the student learn classification of Invertebrates & Vertebrates and can identify and classify different animals and this knowledge givesthem an opportunity to become a Taxonomist |
| CO2 | Students of Semester III & IV Genetics one of the branches of Zoology makes themaware about the importance of genetics in day to day life and they can work in various research institutes, Hospitals, Agricultural field |
| CO3 | Semester–V& VI syllabus includes Economic Zoology which deals with Aquaculture (Fisheries & Prawn Culture, Pearl Culture), Entomology (Sericulture, Apiculture, Lac culture) enables students to become an entrepreneur. They acquire knowledge about Breeding, Genetics, Biotechnical, Nutritional farming, diagnosis of disease in fishes, other aquatic resources, Fish Processing, Freezing, Value addition of Sustainable, Productive Fisheries and aquaculture, improve food and nutrition security and increase income and economic growth. |

## 2.6 DEPARTMENT OF

## MATHEMATICS: COURSE: B. Sc. (Three years; Six Semesters)

**Course Outcomes:**

**Sem. I & II Paper-I (Algebra & trigonometry, Differential and difference equations)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the applications of De Moiver's theorem, properties of groups and subgroups |
| CO2 | Learn basic properties of first order, higher order differential equations and solve them with different methods. |
| CO3 | Understand to find unknown solution by using known solution, the formation of difference equation, solution of homogeneous and non-homogeneous linear equation. |
| CO4 | Understand the concepts of rank, Eigen values of matrices, solution of homogeneous and non-homogeneous system of equations. |

**Sem I & II Paper-II (Calculus, Vector calculus & improper integrals)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand basic properties of limit, continuity and derivability of functions,<br>expansion of functions in terms of infinite series by using different methods |
| CO2 | Find indeterminate forms and partial differentiation of functions with two or more<br>variables |
| CO3 | Understand basics of directional derivatives, gradient, divergence and curl |
| CO4 | Evaluation of double and triple integral, improper integrals and their convergence |

**Sem III & IV Paper-I (Advanced calculus, Partial Differential equations & calculus of variations)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand concept of limit and continuity of functions of two variables, application of Mean value theorems |
| CO2 | Study of convergence, divergence of sequences and series using various tests. |
| CO3 | Understand ordinary differential equation in more than two variables and methods of finding solution |
| CO4 | Study Lagrange's method, Charpit's method, Jacobi's method to solve PDE, homogeneous and non-homogeneous PDE with constant coefficients |

**Sem III & IV Paper-II (Differential equations & group homomorphism, Mechanics)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand basic properties of Laplace transforms, inverse Laplace transforms and solution of ordinary differential equation using Laplace transform. |
| CO2 | Study of group homomorphism, isomorphism in details. |
| CO3 | Understand kinematics in two dimensions, mathematical exposition and geometrical representation of simple harmonic motion. |
| CO4 | Study mechanics of system of particles and Lagrange's equations. |

**Sem V & VI Paper-I (Analysis, Abstract algebra)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Study Fourier series and it's convergence, existence of Riemann-Stieltjes integral, construction of analytic function, harmonic function etc. |
| CO2 | Understand conformal mapping, bilinear transformation. |
| CO3 | Study Group automorphism, inner automorphism, vector spaces and it's properties, subspaces, basis, dimensions etc. |
| CO4 | . Understand algebra of linear transformation and it's inverse, matrix associated with linear map and vice versa, properties of inner product space. |

**Sem V & VI Paper-II (Metric space, complex integration & Algebra, Special theory of relativity)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand concepts of countable, uncountable sets, completeness, compactness, connectedness of metric space. |
| CO2 | Calculation of zeros and different types of singularities of analytic function, application of Cauchy's residue theorem to evaluate integral. |
| CO3 | Study geometrical interpretation, group properties of Lorentz transformations and basics of tensors, metric tensors etc. |
| CO4 | Understand equivalence of mass and energy, transformation formulae for mass, momentum and energy, relativistic equations of motion, Maxwell's equations etc. |

## 2.7 DEPARTMENT OF

## MICROBIOLOGYCOURSE: B. Sc. (Three years; Six Semesters)

**Course Outcomes (All Semesters):**

| S. No | Course Outcomes |
|---|---|
| CO1 | To demonstrate theory and practical skills in microbiology and their handling techniques, staining procedures, microbial techniques for isolation of pure cultures ofbacteria, fungi and algae. |
| CO2 | To comprehend the various methods for identification of various unknown microorganisms |
| CO3 | To get conceptual knowledge of properties, structure, function of enzymes, enzymekinetics and their regulation, enzyme engineering, application of enzymes in large scale industrial processes |
| CO4 | To specify the biological significance of bio-molecules in metabolism |

## 2.8 DEPARTMENT OF

## BIOCHEMISTRYCOURSE: B. Sc. (Three years; Six Semesters)

**Course Outcomes**

**B.Sc Semester I**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand the chemistry of biomolecules, the physiological process, their immune system and also microbes. |
| CO2 | To understand the constitution and working of human body, the diseases caused by<br>microbes and also the economic importance of beneficial microbes. |
| CO3 | To understand about our natural and acquired immunity |

**B.Sc Semester III & IV**

| S. No | Course Outcomes |
|---|---|
| CO1 | To acquire knowledge about the various tool and techniques used in study of biologyin detail and their applications. This also helps them further in carrying out projects and in research. |
| CO2 | To gain knowledge about the functional biomolecules (chiefly nucleic acids and proteins) in detail. This helps them to take up courses in genetic engineering, biotechnology, biochemistry and genetic studies. |
| CO3 | To acquire an in depth knowledge about enzymes which act as biocatalyst especiallytheir construction of structure, the mechanism of reactions they catalyze and the way to isolate and purify them. This lays the basis for studying fermentation technology. |

**B.Sc. Semester V & VI**

| S. No | Course Outcomes |
|---|---|
| CO1 | To get a detailed understanding of the play of different molecules inside the human body in network of reactions and the controlled mechanisms regulating the life processes |
| CO2 | To understand the role of Replication of DNA for the transfer of heredity from onecell to another. |
| CO3 | To understand Protein synthesis mechanisms and unravel the making of moleculesand body building processes |
| CO4 | To understand and use Recombinant DNA technology, the tools and techniques usedby the scientists for making molecules for the benefit of mankind |

## 2.9 DEPARTMENT OF B.Sc. HOME SCIENCE

**COURSE: B. Sc. Home Science (Three Years, Six Semester Course)**

**Course Outcomes**

| S. No | Course Outcomes Semester I and II |
|---|---|
| CO1 | **Food & Nutrition** |
| | To promote basic knowledge pertaining to various Food Groups and Nutrients. |
| | To relate the composition of foods to their various properties. |
| | To understand the concept of Recommended Dietary Allowances |
| | To promote understanding of common nutritional disorders due to the deficiency of nutrients |
| CO2 | **Human Development** |
| | Students will be made aware about the science and scope of human development as a subject. |
| | Students will be able to understand about the different methods used to study Human behavior. |
| | Students will learn in-depth about the growth and development occurring during prenatal and neonatal stages. |
| | Students will be able to understand about the growth and development taking place during infancy and early childhood. |
| | Students will study about the different factors which influence the development During infancy and early childhood years. |
| | Students will be made aware about the development happening in key areas like physical, motor, cognitive, language, social and emotional development. |
| | Students will be offered opportunities to observe infrastructural set ups by visit to nursery school. |
| CO3 | **Textile & Clothing** |
| | To get acquainted with basic knowledge of textile fibers and to acquire knowledge of various principles of clothing construction and their applications |
| | Scope of textiles and importance of clothing |
| | Classification, properties and manufacturing process of different natural and manmade fibers along with introduction to new fibers |
| | How to take body measurement and different methods of constructions, tools and equipment required for construction, their care and functions. |
| | Yarns and different sewing techniques |
| | Acquire knowledge of types of yarn, spinning methods, skill regarding stitching techniques for various garment construction such as plackets, pockets, colers and fasteners |
| CO4 | **Family Resource Management** |
| | To develop good taste, through the study of basic elements and principles of art. |
| | To develop aesthetic sense and to become a good artist. |
| | To give knowledge about the various types of design. |
| | To develop skill in using colors to create different effect in space, with the use of various color scheme. |
| | To teach techniques of using color in interior. |
| | To impart knowledge about the characteristics of colors and the psychological effects of color. |
| | To create illusion effect with the help of various dimension of the colors. |
| | To give Knowledge of flower/ floral decoration and arrangement. |

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| CO5 | **Home Science Extension Education** |

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|---|---|
| | To understand the meaning and need of Home Science Extension To understand the<br>meaning and importance of Rural Sociology. To know the Society in respect ofSocial problems. To understand the Rural problems and poverty. |
| | To impart knowledge of Community Development. To develop awareness regarding community development programs. To access the methods of social andsocial research. To gain the knowledge about gender and development. To know<br>the Government agencies for eradication of poverty. |
| CO6 | **Ecology and Environment I** |
| | To get acquainted with the physical environment and its components |
| | To know the methods to protect the environment and conserve natural Resources. |
| CO7 | **Basic Chemistry I** |
| | To get acquainted with the knowledge of Basic Chemistry like methods of purification ofwater for domestic purpose. |
| | Knowledge about various alloy, physical properties or liquids, colloids, emulsion gel. |
| CO8 | **Applied Physics and Basic Computer I** |
| | To refresh concept of physics and computers. |
| CO9 | **English and Communication I** |
| | To prepare the students to communicate effectively and fluently in English |
| | To enable students listening, speaking reading and writing |
| | To strengthen grammatical accuracy |
| | To prepare the students to deal with customers, professional, counselors in correct grammatical, idiomatic English |
| | To provide personality development training through situational role play, interview techniques, group discussions, seminar presentation etc. |

| S. No | Course Outcomes Semester III and IV |
|---|---|
| CO1 | **Food and Nutrition** |
| | To learn Principles of Meal Planning, Assessment techniques of nutritional status in the community (anthropometry and dietary) |
| | To plan and prepare balanced diets for family members of different age groups, Health and nutrition education of the community with teaching aids. |
| | To orient student to the basic principles of nutritional assessment as applied to the study of community nutrition |
| | To develop an understanding of the role of micro-organism in environment, industry and in maintenance of health |
| CO2 | **Human Development** |
| | Students will be able to understand about the development occurring during the Late childhood and adolescence. |

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|---|---|
| | Students will gain knowledge about the issues concerning the late childhood And adolescence. |
| | Students will get opportunity to perform some exercises on life skill development. |
| | Students will get a first-hand experience of using few basic psychological tests. |
| | Students will be able to understand about the various dimensions of development in adulthood. |
| | Students will get an opportunity to reflect upon the concerns of the family and society with respect to individual in adulthood. |
| | Students will be made aware about the diversity of adult life-style in different socio-cultural contexts. |
| | Students will study about the various issues and concerns of individuals in different phases of adulthood. |
| CO3 | **Textile & Clothing** |
| | knowledge of various methods of fabric construction |
| | learn about weaving along with loom and knitting |
| | learn elements and principles of designs and to develop creativity in designing for prints, knowledge regarding regional embroideries of India |
| | knowledge of dyes, its classification, concept of dying and printing such as block, screen, stencil, roller, flock, tie & dye, batik |
| | knowledge of traditional textiles of India and costumes from different states of India. |
| CO4 | **Family Resource Management** |
| | To develop understanding regarding housing needs, principles, planning of house. |
| | To experiment with space, preparing house plans. |
| | To develop graphic skills to express ideas in design, form, knowledge of landscaping and economic use of space. |
| | Impart knowledge about various furniture, furniture materials and arrangement of furniture in interior. |
| | To give knowledge about how a professional landscape design can enhance home. |
| | To teach history of bonsai, and preparation of different styles of bonsai. |
| | To gain knowledge about the role of internal amenities in contributing for satisfying family living. |
| | To impart knowledge about different types of lighting and to study various principles of lighting in interior. |
| | To learn technique that will help one to construct some furnishing items, relative to their function and beauty. |
| | Give knowledge about the importance of vastu shasrta |
| CO5 | **Home Science Extension Education** |
| | To impart knowledge of extension teaching. To develop awareness about extension learning. To access the extension teaching methods and approaches. To gain the knowledge about art of presentation and devices in effective communication. |
| | To develop understanding regarding communication techniques. To develop concept and learn process of communication. To understand the concept of mass communication. To comprehend the concept of advertisement in extension. To develop the understanding of journalism. |

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|---|---|
| CO6 | **Applied Physiology I** |
| | To get a general orientation of different systems of human body their Physiology and first aids in household emergencies. |
| CO7 | **Basic Chemistry I** |
| | To get acquainted with the knowledge of carbohydrates, fermentation, oils and fats, soaps and detergents and shampoos. |
| CO8 | **Applied Physics and Basic Computer I** |
| | To learn about electrical safety, Heat, Appliances and Operating systems and word processing software (MS WORD) and database creation and management software (MS EXCEL) |
| | |
| S. No | Course Outcomes Semester V and VI |
| CO1 | **Food and Nutrition** |
| | Develop an understanding of principles of diet therapy |
| | Obtain knowledge about the therapeutic adaptations of a Normal Diet |
| | To plan and prepare diets relating to specific health condition such as Diabetes, Hypertension etc. |
| | Determine and calculate the nutritive value of diets prepared for various diseased states. |
| CO2 | **Human Development** |
| | Students will be made aware about the basic concept of marriage focusing on its meaning, philosophy, readiness, premarital counseling etc. |
| | Students will understand about the concept of family, emphasis will be on the various structures of family prevalent today. |

| | |
|---|---|
| | Students will be familiarized with the concept of developmental assessment- its importance and some tools used for such assessment. |
| | Students will get a first-hand experience of observing a child and identifying its developmental status. |
| | Students will be made to understand about the importance of care and well-being in human development. |
| | Students will get awareness about the various concerns at different stages of life. |
| | Students will get an opportunity to explore the availability of services and institutions that promote care and wellbeing. |
| | Students will get a practical knowledge of various care giving centres through visits. |
| CO3 | **Textile & Clothing** |
| | developed skills and designing and making paper patterns for different garments and pattern layout |
| | learn drafting method, flat pattern method and draping method of pattern designing and also grading |
| | to know how to solve fitting problems and how to construct different types collars, skirts |
| | They stitch Salwar Kurties, Skirt-Tops, Cocktail dress and sari-blouse. |
| | learn to use elements and principles of design in fashion designing |
| | understand terminology related to fashion, basic factors influencing fashion, they come to know work of some national and international fashion designers |
| | learn fashion designing process and about garment industries |
| | gain knowledge of fashion marketing and merchandising |
| CO4 | **Family Resource Management** |
| | To recognize the importance of wise use of resources in order to reach personal and family goals. |
| | To make students realize the importance of motivating factors in management-Values, goals and standards. |
| | To give opportunity to develop ability to take rational decision. |
| | To develop the quality of students to become efficient manager. |
| | To give opportunity to develop ability to manage time, energy and money. |
| | To develop ability to apply management principles in experimental house and in day to day life experience and various small events. |
| | To develop ability to apply work simplification techniques. |
| | To make them aware of intelligent choice of consumer goods. |
| CO5 | **Home Science Extension Education** |
| | To develop understanding about Program Planning. To understand the need for program planning. To develop understanding of community organization. To know the significance of adoption process in community development. To comprehend the communication of innovation. |
| | To understand the importance of leadership in extension work. To developed the concept of teaching methods. To understand the necessity of co-ordination in extension work. To know the concept of development communication. To understand administration, supervision and evaluation for extension work. |

| | |
|---|---|
| CO6 | **Nutritional Biochemistry** |
| | Develop an understanding of the principles of biochemistry (as applicable to Human nutrition) |
| | Obtain an insight into the chemistry of major nutrients and physiologically important compounds. |
| | Understand the biological processes and systems as applicable to human nutrition. |
| | Apply the knowledge acquired to human nutrition and dietetics. |
| CO7 | **Health Science & Hygiene** |
| | To understand basic concept of microorganisms |
| | To impart knowledge of measures taken for prevention and control of diseases |
| | To promote basic knowledge of role of disinfection in health. |

## 2.10 DEPARTMENT OF APPLIED ELECTRONICS

**Bachelor of Applied Electronics and Software Technology**
**(4 year degree course, 8 semesters)**

**Course Outcomes:**

**BAEST Part I (Sem. I & II):**

| S. No | Course Outcomes |
|---|---|
| CO1 | **Applied Physics**: To understand about magnetic, dielectric materials. To learn about various characteristics of conductors resistors, super conductors. To study semiconductors their applications, types, fabrication etc. Various semiconductor devices. |
| CO2 | **Applied Chemistry**: To impart knowledge about kinetics, various types of fuels, air pollution, water treatment etc. |
| CO3 | **Computer programming**: To introduce to the computer technology various software, hardware and learn programming language |
| CO4 | **Electrical Engineering**: gain knowledge of ac, dc circuits. Laws governing these circuits. Knowledge of transformers, generator and motors |
| CO5 | **Communicative English**: To develop soft skills and communication skill |
| CO6 | **Engineering Mathematics**: To give knowledge of mathematics required for learning various principals of physics, chemistry, electronics , computers etc. |

**BAEST Part II (Sem. III & IV):**

| S. No | Course Outcomes |
|---|---|
| CO1 | **Electron Devices and Circuits** : 1) basic concepts of electronics 2) Working of Power supply etc. They can check various electronic devices. 3) They can check various electronic devices. 4) They also understand difference between electrical and electronics device. |
| CO2 | **Digital Electronics**: To gain knowledge about various no. systems their applications, digital techniques in electronics. Development of digital instruments. Their advantages etc. |

| | |
|---|---|
| CO3 | **Computer Programming**: to enhance the computer knowledge, programming skill. Linear Network Analysis: To analyse various circuits their behavior etc. Engineering Mathematics: gain knowledge of Fourier series, Laplace transform etc. and their applications<br>**Engineering Drawing and workshop**: Students will be able to present electronicproduct designs, panel designs and various fabrication techniques |

**BAEST Part III (Sem. V & VI)**

| S. No | Course Outcomes |
|---|---|
| CO1 | **Linear Integrated Circuits**: To know operational amplifiers, their importance in electronic circuits' applications, various other amplifiers, oscillators etc.<br>• They understand electronic amplifier.<br>• They are able to the convert week signal into strong signal.<br>• They are able to convert physical signal into electronic/electrical signal.<br>• New electronics equipment useful knowledge for their daily life. |
| CO2 | **Microcontrollers**: Know about architecture, programming and use in developing automated instruments useful for industry and daily life |
| CO3 | **Instrumentation and control system**: to know the requirement of control system for designing various instruments. Various types of sensors. |
| CO4 | **Digital Signal processing**: Digital techniques of transmission and reception of communication signal. Various techniques of filtering the signals |

| | |
|---|---|
| CO5 | **Algorithm and data structure**: development of various algorithms and knowledge of Computer data structure. |
| CO6 | **Communication Electronics**: various communication techniques, transmitters, receivers, antenna, television etc. |

**BAEST Part IV (Sem. VII & VIII):**

| S. No | Course Outcomes |
|---|---|
| CO1 | **Circuit Design**: Designing various electronic circuits as per the requirement of industry or user |
| CO2 | **Advanced Microcontroller**: Advanced version of microcontroller programming and applications |
| CO3 | **Advanced programming**: Knowledge of latest computer programming language |
| CO4 | **System Design**: Using knowledge of micro controller gained in part III, design embedded system for various applications |
| CO5 | **Industrial Organisation**: Knowledge of various industry concepts and working style |
| CO6 | **Database management system**: Data base handling for the computers. |

## 2.11 DEPARTMENT OF INTERIOR DESIGN

**Bachelor of Interior Design (Four years, eight semesters program)**
**Bachelor of Interior Design I (Sem. I & II)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the elements of design as point, line, plane and volume and their combinational character |
| CO2 | Classification of variables as size, shape, colour, texture and light and its impact on the elements of design. |
| CO3 | Making compositions as symmetrical, asymmetrical, steady and dynamic. |
| CO4 | Understanding of form, space and organization through synthesis. Organization through perception by resolving figure and ground relationship. |
| CO5 | Analyzing visual elements though various principles of design as Unity, Balance, Harmony, Contrast, Rhythm etc. |

**Bachelor of Interior Design II (Sem. III & IV)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understanding concept of space and elements of enclosed forms as three dimensional spaces. |
| CO2 | Identify space and its relation with function. Apply the knowledge of basic living activities of a human being in designing spaces. |
| CO3 | Find standards as anthropometric data for space planning applicable to residential design. |

| | |
|---|---|
| CO4 | Analysis as quantitative and qualitative aspects of space through case studies. |
| CO5 | Understand importance of structural, materials, furniture, lighting and ventilation in interior spaces through examples. |

**MCT**

| S. No | Course Outcomes |
|---|---|
| CO1 | Demonstrate fundamental knowledge of the systems and processes used to construct the built and interior environment, including an understanding of industry terminology |
| CO2 | Behavior and properties of various types of building materials and their availability and suitability to building and interior components. |
| CO3 | Installation methods of different components of interior and interior finishes including construction drawings. |

**IEC, IS**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understanding interface of different services on space planning like, power distribution systems, mechanical systems (HVAC, plumbing), Energy management, data/voice telecommunications systems, lighting systems, security systems, acoustics, fire and life safety principles and thermal comfort. |

**Training**

| S. No | Course Outcomes |
|---|---|
| CO1 | Providing opportunities for design work experience (for example, internship, that familiarize students with the culture and environment of the professional studio and professional practice). |

**Det**

| S. No | Course Outcomes |
|---|---|
| CO1 | Produce construction drawings and documents using industry standards for a variety of interior spaces |
| CO2 | Interface of work station furniture systems with building systems (for example, columns, fenestration, convector units, and power sources). |
| CO3 | Ability to operate effectively within participatory and collaborative environments, team work. |
| CO4 | Ability to interact with multiple disciplines (for example, engineers, architects, artists, behaviorists, consultants in the field of HVAC, power systems,) consultants of various building services, representing a variety of points of view and perspectives on design problems. |

**GRAPHICS I AND II**

| S. No | Course Outcomes |
|---|---|
| CO1 | Handle the drawing set up and equipment by Familiarization to their Various attributes to be able to draw and depict via technical drawing and sketching. |
| CO2 | Acquire the knowledge of and apply or use of various metric scales, conventions, standard annotations and format |
| CO3 | Acquire the ability to apply Principles of plane geometry and geometrical constructions |
| CO4 | Understand the concept of enlargement and reduction of objects |
| CO5 | Drawing Orthographic Projections of simple and complex solids based on geometrical constructions , either single or in combinations |
| CO6 | Understanding And Ability Of Drawing Views: |
| CO7 | Understand And Draw The Development Of Surfaces |
| CO8 | Understanding And Ability Of Drawing : Interpenetration Of Solids |
| CO9 | Geometrical Drawing Of Special And Complex Curves |
| C10 | Drawing Perspectives |

**FURNITURE DESIGN I AND II**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understanding of and ability of drawing details |
| CO2 | Overview of ergonomics and design relevance's and understand co relation of factors influencing human performance. |
| CO3 | Analytical abilities : analysis of existing piece of furniture in its functional aspects, technical aspects, skills required, materials, flexibility, comfort, ergonomic and aesthetic considerations |
| CO4 | Transportation and economic factors |
| CO5 | "Measure Drawing" of a piece of furniture – plan, elevation and detail drawing on full scale. |
| CO6 | Understanding Measurement of quantity of material used in furniture (eg: measurement of Cubic feet of wood to be used in a wooden chair). Deriving cost of material. |
| CO7 | Understanding constraints and identity determinants to design furniture elements |
| CO8 | Visual perception of furniture as single form and as a system in a given interior space. |
| CO9 | History of furniture forms from early days to industrial revolution and now to neoclassicism |
| CO10 | Understanding the viability and validity of each component used and designed |
| CO11 | Understanding the critical issues of human anthropometrics, critical nature of eachand every Dimension, details, material and aesthetics and the degree of comfort through models and prototypes. |

**INTERIOR DESIGN V and VI**

| S. No | Course Outcomes |
|---|---|
| CO1 | Develop floor plans with facilitation and clearances with all relevant details with specifications |
| CO2 | Generate reflected ceiling plan/s and its detailing with specification and finishes |
| CO3 | Develop wall elevations and relevant sections with materials and finishes and specifications |
| CO4 | Generate working drawings of furniture and other relevant components of Interiors and integrate services in interiors viz. electrification , AC , lighting plan etc. |
| CO5 | Generate views , sketch views and perspectives to present their ideas |
| CO6 | Design of majorly non-residential projects |
| CO7 | Develop floor plans, detailing, writing specifications and Generate working Drawings of furniture |
| CO8 | Apply digital output methods |
| CO9 | Understand typical non-residential building types |
| CO10 | Use human scale and dimension to public spaces |
| CO11 | Draw reflected ceiling plans |
| CO12 | Create advanced powerpoint presentations for showcasing their design creations |

**Estimation & Costing I**

| S. No | Course Outcomes |
|---|---|
| CO1 | Knowing materials of construction and interior works available in market, their rates and specifications |
| CO2 | Understanding approximate methods of costing |
| CO3 | Understanding, using & applying methods of estimation. |
| CO4 | Understanding preparation of schedule of quantities and estimates for basic civil works of brickwork and plaster of buildings |
| CO5 | Understanding schedule of quantities and estimates for plumbing systems and electrical fittings |

**Estimation & Costing II**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understanding preparation of schedule of quantities and estimates for flooring and ceiling of various kinds |
| CO2 | Understanding preparation of schedule of quantities and estimates for coloring and treatment to walls. |
| CO3 | Knowing application of knowledge of estimation to interior works |
| CO4 | Understanding of how rates are decided for f items of civil & interior works |
| CO5 | Understanding instructions to be given as an interior designer while coordinating various agencies involved in work of interior. Knowing how financial records are maintained. |

**Structure – I**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understanding basic elements of building and different types of loads on structures. |
| CO2 | Understanding types of soils, principle of foundations, types of simple foundations & thumb rules for design of foundations. |
| CO3 | Knowledge of deep foundations & their types. |
| CO4 | Understanding activities during construction like shoring, scaffolding and underpinning. |
| CO5 | Understanding Stability of Structures & equilibrium of bodies. |

**Structure – II**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understanding effect of forces acting on bodies using analytical method. |
| CO2 | Analyzing effect of forces acting on bodies using graphical method. |
| CO3 | Knowing types of supports beams and trusses, loading conditions |
| CO4 | Understanding and locating centroids of laminae of various shapes. |
| CO5 | Understanding moment of inertia of laminae, terminologies and theorems. |

**Structure - III**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understanding structural properties of basic materials used in building construction and interior. |
| CO2 | Gaining basic knowledge of concrete technology. |
| CO3 | Understanding simple stresses & strains, their effect on bodies, safe stresses for steel and concrete as per IS code. |
| CO4 | Understanding **s**imple bending, deflections of beams, allowable limit. |
| CO5 | Understanding difference in short columns, long columns and their failure |

**Structure - IV**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understanding how shear force & bending moment values are determined for deciding reinforcement in beams and slabs. |
| CO2 | Understanding basic RCC structures for load distribution & typical reinforcement details. |
| CO3 | Understanding load distribution and calculation in trusses. |
| CO4 | Understanding and reading ability of structural drawings and schedules for lintels, slabs and beams. |
| CO5 | Understanding and reading ability of structural drawings and schedules for columns, column footings, staircases. |

**Structure – V**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understanding types of beams, fixed and continuous, their behavior, through bending moment diagrams. |
| CO2 | Understanding how renovation of load bearing & framed structures can be carried out |
| CO3 | Understanding application of knowledge of renovation to case studies |
| CO4 | Knowing common causes and prevention of cracks in buildings, investigations relating to cracks, severity of cracks. |
| CO5 | Be aware of anti-termite treatment and types of anti-termite treatment. |

**Structure – VI**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understanding different ways of covering large span areas and effect of simple geometric forms on the overall structural behavior. |
| CO2 | Understanding preliminary design criteria & thumb rule for sizes of steel columns and steel girders, relative strengths of beams as 'I', '[' and 'L' sections. |
| CO3 | Understanding welded connections of steel structures |
| CO4 | Understanding roof trusses their preliminary design for tension and compression members |
| CO5 | Knowledge of earthquake proof buildings. |
| CO6 | Understanding load transfer in three hinged Arches. |

**Green Building Technology**

| S. No | Course Outcomes |
|---|---|
| CO1 | Realize the necessity of practicing Green Building Technology. |
| CO2 | Knowledge of parameters considered for making buildings green. |
| CO3 | Be familiar to materials used in green building construction and green interiors. |
| CO4 | Understanding methods of reducing use of natural resources to make buildings green |
| CO5 | Be aware of rating systems of green buildings, green buildings certification & carbon credits. |

## 2.17 DEPARTMENT OF COSMETIC TECHNOLOGY

**Bachelor of Cosmetic Technology (Four years, eight semesters Program):**

**Course Outcomes**

**Bachelor of Cosmetic Technology Sem. I & II**

| S. No | Course Outcomes |
|---|---|
| CO1 | **Elementary Mathematics**: To understand the basics regarding Mathematics and statistics. |
| CO2 | **Organic and Physical chemistry**: As the course is completely based on chemical processes. Chemistry subject imparts knowledge of ingredients and properties as well as basic physical properties. |
| CO3 | **Cosmetic Chemistry**: Impart the knowledge of various basic processes for evaluation of impurities in cosmetics. |
| CO4 | **Anatomy and Physiology**: Teaches basic knowledge of Anatomy and Physiology of body especially skin and its appendages like Hair and Nails which are important for application of cosmetics. |
| CO5 | **Natural Cosmetic Agents**: Introduction of Natural ingredients for example herbs and other materials of natural sources. |

**Bachelor of Cosmetic Technology Sem. III & IV**

| S. No | Course Outcomes |
|---|---|
| CO1 | **Cosmetic Technology**:- Introduce of basic formulations method of cosmetics using various raw materials. |
| CO2 | **Cosmetic Engineering**: Imparts the knowledge of primary unit engineering operations useful in cosmetic industries. |
| CO3 | **Cosmetic Chemistry:** mainly the emphasis on biochemical properties and evaluation of the ingredients like amino acids, proteins, enzymes, Minerals etc. |
| CO4 | **Drug & Cosmetic Law**: Teaches regulation, rules and laws schedules related to cosmetics that is Drug and Cosmetic Act. |
| CO5 | **Introductory Pharmacology and Toxicology**: Introduces pharmacological and toxicological aspects of cosmetics, routes of administration and mechanism of actives/ drug action as well as toxicological aspects. |
| CO6 | **Instrumental Methods of Analysis**: Introduces the instruments used for analysis of raw material and finished cosmetic products. |
| CO7 | **Beauty Culture**: Impart a knowledge of the application of various cosmetic products systematically with precautions. |

**Bachelor of Cosmetic Technology Sem. V & VI**

**Course Outcomes:**

| S. No | Course Outcomes |
|---|---|
| CO1 | **Perfumes**: Introduces the knowledge of perfumery ingredients of various origins their availability and isolation. |
| CO2 | **Cosmetic Technology**: Learn about the preparation of advanced cosmetic products like soaps, colour cosmetic, astringents and tonics, face packs etc. |
| CO3 | **Principles of Cosmeceutics**: Teaches all the fundamental physico-chemical properties and concepts of cosmetic ingredients with their methods of determination and their effects on cosmetic products. |
| CO4 | **Cosmetic Engineering**: advanced unit operations and manufacturing processes involving various equipment and engineering aspects of manufacturing processes are taught. |
| CO5 | **Beauty Culture**: Various beauty treatments professional make-ups and various advanced methods of applications of cosmetics are taught with more emphasis on practical aspects. |

| | |
|---|---|
| CO6 | **Pharmacology and Interactions**: Student study the pharmacological aspects of skin, hair and nails along with their interactions, side effects, and disorders. |

**Bachelor of Cosmetic Technology Sem. VII & VIII**

**Course Outcomes:**

| S. No | Course Outcomes |
|---|---|
| CO1 | **Cosmetic Technology** – This subject aims to study all sort of sophisticated Cosmetic preparations which include hair, skin, oral, foot, tooth and sun screening preparation, its formulation and development. |
| CO2 | **Perfume and colors** – Learn advanced formulation with incorporation of colors and perfumes, its packaging source, properties and composition of perfumes. |
| CO3 | **Plant Design**- Designing of machineries used in plants, its material, plant location, site, factory building and factors affecting. |
| CO4 | **Quality Assurance Techniques** – Learn the importance of quality control in cosmetic preparations, its guidelines, ISO significance, validation of cosmetic manufacturing stability study of cosmetic and evaluation of raw material by proper analytical method using BIS standers. |
| CO5 | **Herbal Cosmetic**- study the herbs used in skin and hair care preparation with respect to its biological source, chemical constituents and incorporation in cosmetics. Also study the stability at different storage condition. |
| CO6 | **Organization & Management of Industries**- Learn the entrepreneurial development, finance and personal management, different management development programmes. |

## 2.18 DEPARTMENT OF HOTEL MANAGEMENT AND CATERING TECHNOLOGY

**Bachelor of Hotel Management and Catering Technology (Four years, eight semesters Program)**

**Course Outcomes:**

**FOOD AND BEVERAGE MANAGEMENT:**

| S. No | Course Outcomes |
|---|---|
| CO1 | To learn about the various food and beverage service areas and the equipment used, staff organization structure and service methods; to understand the types of menu and menu planning considerations, control systems and billing methods; to have a detailed knowledge about the different wine producing regions, grape varieties, production of spirits and brand names, Preparation and types of cocktails, Bar planning and operation along with beverage control; to have knowledge Banquets, Banquet protocol, buffets and outdoor catering, the techniques of preparation and complete procedure of guerdon service. |

**FRONT OFFICE MANAGEMENT:**

| S. No | Course Outcomes |
|---|---|
| CO1 | To learn about Introduction to Hotel industry - Its origin and development and also different types of Rooms; to understand layout of front office department, equipment used in front office and reception areas; to have detailed knowledge about Pre arrival, arrival, registration, reservation and departure procedures; to have knowledge about duties and responsibilities of front office staff, Qualities and communication skills; to know how to make various formats and report. |

**HOUSE KEEPING OPERATIONS:**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand different types of rooms and cleaning procedure of rooms and public areas, overall cleaning and maintenance; to know Duties and responsibilities of housekeeping personnel; to learn about room layout, designing, furniture selection and furnishings; To know to make various flower arrangements. |

**FOOD PRODUCTION:**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand the various principles of cooking and baking, the modern techniques in preparation, appetizers, garnishes, pastas and ice creams and frozen desserts; to have a detailed knowledge about national and international cuisine, charcutierie; the various principles of food and plate presentation; Research and product development, food trials, evaluating a recipe, food safety and hygiene, HACCP principles etc. |

## 3. FACULTY OF COMMERCE AND MANAGEMENT

**Three Years, Six Semesters B.Com. Program**

**Course Outcomes B.Com. Sem. I**

**Fundamentals of Accounting**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the concepts and conventions behind following accounting standards and IFRS |
| CO2 | Know about different methods used in the process of maintaining accounts for HP and installment system |

| | |
|---|---|
| CO3 | Know the methods used in preparing accounts for cooperative Society |
| CO4 | Know the methods used in preparing accounts for joint venture |

**Business Economics-I**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand meaning, nature and scope of Business Economics, nature and type of business decisions. To know about role and responsibilities of business and business economist and to understand the concept, scope, merits and Demerits of micro and macroeconomics. |
| CO2 | Explore knowledge of Theory of Consumption. To know the concept, properties, importance of indifference curves. To understand elasticity of demand, its kinds, how to measure elasticity of demand and factors influencing elasticity of demand and also know about Demand forecasting, its need, importance and methods. |
| CO3 | Explore the idea about theory of production, its functions, concept, types of products, total production, average production. To know about law of variable proportions, its assumptions, significance and limitations. To know about Isoquant curve, its properties and expansion path and also knowledge of Law of Returns to Scale, Internal and External economies and diseconomies of scale, Ridge Lines. |
| CO4 | Understand theory of cost and revenue, includes Law of Supply & Criticisms, Factors influencing supply. Concept of Cost in the Short & Long Run-Accounting Cost, Economic Cost, Opportunity Cost, Fixed Cost, Variable Cost, Direct and Indirect Costs, Real Cost, Explicit & Implicit Costs etc. |

**Compulsory English**

| S. No | Course Outcomes |
|---|---|
| CO1 | To develop basic skills to deal with people in business situations. |
| CO2 | Write and read basic business reports, faxes, and memos. |
| CO3 | Expand vocabulary related to general business situations & to Develop confidence to deal with people and basic issues in the business world. |

**Commercial Firm**

| S. No | Course Outcomes |
|---|---|
| CO1 | Know the concepts, types, Industrial services trade and social responsibilities of Business |
| CO2 | Learn the forms of Business Units |
| CO3 | . To study about types of Organisations |
| CO4 | . Gain knowledge about the recent trends in Business Organisation |

**Business Skills**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the basics of Business Communication, alowith theories of and the role of audience in communication process |
| CO2 | Learn different types of communication in corporations and organisations, different networks of communication, overcoming communication barriers and develop communication skills |
| CO3 | Develop various communication skills like group discussions, public relation management |
| CO4 | learn the distinction between the format and style of different types of business letters and formal and informal mode of written communication |

**B.Com. Sem. II**

- **Statistics and Business Mathematics**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand the term Statistics, its meaning, scope, importance and functions and also to know Collection of data, Tabulation and Classification, Frequency distribution. Mean, Median, Mode, Geometric Mean and Harmonic Mean (Theory & Numericals) |
| CO2 | To learn Dispersion- Meaning and significance of dispersion, Methods of measuring dispersion, Mean Deviation, Standard Deviation, Quartile Deviation, co-efficient ofvariation (Theory & Numericals) |
| CO3 | Explore the knowledge of Skewness-Absolute Measures of Skewness, Relative Measures of Skewness, Karl Pearson's Coefficient of Skewness, Bowley'sCoefficient of Skewness. ( Numericals) |
| CO4 | To study Business Mathematics:- Ratio Proportion, Percentages, Simple & Compound Interest, Profit/ Loss. (Numericals). |

**Business Economics-II**

| S. No | Course Outcomes |
|---|---|
| CO1 | To get an idea about Market Structure, its meaning, definition and classification and also about Firm and Industry |
| CO2 | To understand perfect and imperfect competition, also knowledge of the term Monopoly, price determination and monopolistic competition |
| CO3 | Explore the knowledge of theories of distribution like Modern Theory of Distribution. Theories of Rent- Ricardian theory of Rent, Modern theory of Rent, Concept of QuasiRent, Theory of Wages etc |

| | |
|---|---|
| CO4 | To understand the Concept, Features, Types, Phases of Business cycle and also Meaning, Concepts of National Income and Methods of Measuring it and Difficultiesin National Income Accounting. |

**Compulsory English**

| S. No | Course Outcomes |
|---|---|
| CO1 | To develop basic skills to deal with people in business situations. |
| CO2 | Write and read basic business reports, faxes, and memos. |
| CO3 | Expand vocabulary related to general business situations & to Develop confidence to deal with people and basic issues in the business world. |

**Skill Development**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand Basic of personality, Human growth and behavior, Motivation and morality, Meaning of Skill, types; soft and hard skill, need for developing skill, human skill and behavior, Motivation and morality, skill development and employment |
| CO2 | To acquire the knowledge of Intra-personal communication and Body Language, Inter-personal Communication and Relationships, Leadership Skills, Team Building and public speaking, Communication in English, Presentation Skills, and Quality required for good public speaker |
| CO3 | To know how to develop Self-confidence, Mnemonics, Goal setting, Time Management and effective planning, Stress Management, Meditation and concentration techniques, Self-Motivation Self-acceptance and Self-growth |
| CO4 | To gain knowledge of Skill development of rural industrial sectors - small scale - handloom - agro based industries, rural artisans - handicrafts and sericulture.Meaning of entrepreneurship, types skill required for entrepreneurship |

**B.Com. Sem. III Financial Accounting- II**

| S. No | Course Outcomes |
|---|---|
| CO1 | Learn the process adopt by a company in preparing accounting procedure of Issues of shares, Forfeiture of shares |
| CO2 | Learn about preparation of Final accounts of companies |
| CO3 | Understands term of Consignment and also learn the preparation of consignment accounts |
| CO4 | To know about the various type of Branches and also learn Branches Accounts |

**Business Communication & Management**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the basics of Business Communication, alowith theories of and the role of audience in communication process |
| CO2 | Learn different types of communication in corporations and organisations, different networks of communication, overcoming communication barriers and develop communication skills |
| CO3 | Develop various communication skills like group discussions, public relation management |
| CO4 | learn the distinction between the format and style of different types of business letters and formal and informal mode of written communication |

**Business Law**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the law related to contract, Void Agreement and Law of Agency |
| CO2 | Know about definition of sale, essential of a contract of a sale, unpaid seller, conditions and warries, details about consumer protection act |
| CO3 | Explore the concept, characteristics and types of negotiable instruments |
| CO4 | Identify causes, types and redressal machinery concerning industrial disputes |

**Monetary Economics-I**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the types of money, methods of note issue and quantity theory of money |
| CO2 | Understand the causes, effects of inflation and deflation and role of monetary policy<br>and fiscal policy in controlling inflation and deflation |
| CO3 | Acquaint the knowledge of money market and its recent trends.<br>Understand the objectives, importance and instruments of monetary policy and fiscal policy |
| CO4 | Understand the root of public finance and to secure maximum social benefit. Toknow taxation system of India |

**B.Com. Sem. IV**

- **Financial Accounting III**

| S. No | Course Outcomes |
|---|---|

| | |
|---|---|
| CO1 | To acquire knowledge of -Meaning of Banking Companies, Functions of Banking, Restrictions for a Banking Company, Provision of the Banking Companies<br>Regulation Act 1949, Preparation of Annual accounts as per Banking Companies Regulation Act 1949 as per amendment by RBI |
| CO2 | To acquire knowledge of General Insurance, Important Terms and preparation of final accounts |
| CO3 | To know what are Characteristics of Goodwill, Factors influencing the value of goodwill, Need for Valuation of goodwill and various methods of Valuation of<br>goodwill |
| CO4 | To know the concept and Types of Liquidation, Steps in Voluntary Liquidation,<br>Functions of Liquidator. Preparation of Liquidator's Final Statement of Account |

- **Skill Development**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand Basic of personality, Human growth and behavior, Motivation and morality, Meaning of Skill, types; soft and hard skill, need for developing skill, human skill and behavior, Motivation and morality, skill development and employment |
| CO2 | To acquire the knowledge of Intra-personal communication and Body Language, Inter-personal Communication and Relationships, Leadership Skills, Team Building and public speaking, Communication in English, Presentation Skills, and Quality required for good public speaker |
| CO3 | To know how to develop Self-confidence, Mnemonics, Goal setting, Time Management and effective planning, Stress Management, Meditation and concentration techniques, Self-Motivation Self-acceptance and Self-growth |
| CO4 | To gain knowledge of Skill development of rural industrial sectors - small scale - handloom - agro based industries, rural artisans - handicrafts and sericulture. Meaning of entrepreneurship, types skill required for entrepreneurship |

- **Income Tax**

| S. No | Course Outcomes |
|---|---|
| CO1 | Know the basic concept of Income Tax Act. Understand the Heads of Income |
| CO2 | Learn to calculate Income from Salary. Income from House Property and Income from other sources |
| CO3 | Know the various types of deduction from Gross Total income. Allow under Income Tax Act. |
| CO4 | Learn the calculation of Tax Liability of an individual/Person. |

**Monetary Economics-II**

| S. No | Course Outcomes |
|---|---|

| | |
|---|---|
| CO1 | Understand overall Banking Industry, role, functions of commercial bank, credit creation, investment policy, causes of etc |
| CO2 | Learn the knowledge about ATM, credit cards, smart cards, EFT, ECS etc. |
| CO3 | Acquire of Banker Customer relationship. How the Trust plays an important role in building healthy relationship. |
| CO4 | Understand the role and functions and working of Central Bank and working of RBI. RBI is the apex bank of the Indian banking system. |

**B.Com. Sem. V Financial accounting-IV**

| S. No | Course Outcomes |
|---|---|
| CO1 | To learn about accounting procedure of amalgamation and absorption of companies. |
| CO2 | To learn accounting procedure of reconstruction of companys. |
| CO3 | To know accounting of public utility company. |
| CO4 | To know term of valuation of shares. |

**Cost Accounting**

| S. No | Course Outcomes |
|---|---|
| CO1 | To acquaint with the concept of Cost Accounting Elements of Cost, Cost Absorptionand Methods of Costing. Preparation of cost sheet and Tender sheet, Quotations. Tender sheet, Quotations. |
| CO2 | To understand the concept of Reconciliation of profit/loss; objectives, methods and difference between Cost Account and Financial Account. Preparation ofReconciliation statement. |
| CO3 | To learn the methods, advantages and limitations of process costing and to understand the concept of Normal Loss, Abnormal Loss and Abnormal Effectiveness.Preparation of process accounts. |
| CO4 | To gain the knowledge about contract costing nature of cost. Types and elements of contract cost and to calculate the profit of completed contract and incompletecontract. |

**Computerized Accounting**

| S. No | Course Outcomes |
|---|---|
| CO1 | To know the introduction, advantages and need of computerized accounting, difference of manual vs computerized accounting, also about accounts organization and group, loans liabilities, Assets and Budget. |
| CO2 | Explore knowledge about Accounting Software like Tally's introduction, and to learn how to create a company in tally software. |
| CO3 | To learn about Accounts Info Menu and Account Groups, i.e. creation of new group and primary group, creation of ledgers, vouchers and budget etc. |
| CO4 | To understand the concept of Inventory Info and features and also its involving term like Ratio Analysis, Display, Printing Reports, Export Data etc. |

**Indian Economics-I**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the features of Indian Economy, need of economic planning and reason being replaced of planning commission with NITI Ayog. |
| CO2 | Understand the features of developing country India and know the availability of natural resources, infrastructure, energy and transport system in India. |
| CO3 | Explore the causes of population explosion which leads to unemployment and Government policies for removing unemployment. |
| CO4 | Acquaint the knowledge about public expenditure, public revenue, public debt etc. and to know causes and measures of fiscal deficit. |

**Auditing**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the meaning, objects and scope of Auditing, Audit and Auditor |
| CO2 | Learn procedure of Auditing. |
| CO3 | Understand the term Audit Programme, Audit Documentations and Evidence. |
| CO4 | Know the standard of Auditing by ICAI. |
| CO5 | Gain Knowledge about Audit Report and Certificate. |

**Business Finance-I**

| S. No | Course Outcomes |
|---|---|
| CO1 | The designed to enable the students to understand the meaning, nature, significance,objectives and scope of Business finance and function of financial executives and efficient source of Business Finance. |
| CO2 | Explore the concept of project financing and steps involved in project financing. To know about various levels of Inventory Management. |
| CO3 | To know the definition and concept, need, objectives and steps of working capital. Determinants. Determinants and assessment of working capital requirement. |
| CO4 | To know the definition and concept of Debtors management. Discount policy and cost of bill discounting. Calculation of Debtors Turnover Rations and Average Collection Period. To Acquiant with the concept of creditors management, calculation of Creditors Turnover Ratio& Average Payment period. Explore the concept of venture capital financing. |

**B.Com. Sem. VI Financial Accounting- V**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand terms of Insurance Claims and To know how to calculate the Amount of claims to be submitted to General Insurance Company |
| CO2 | Identify the methods of preparing Final accounts of Holding Co. To calculate Minority Shareholder's interest and revenue. |
| CO3 | Capital profit of shareholders of Holding Companies. |
| CO4 | To understand the terms Cum-Interest & Ex-Interest purchase & Sale of Investment.Learn the methods of Investment Accounts. |

**Management Accounting**

| S. No | Course Outcomes |
|---|---|

| | |
|---|---|
| CO1 | Understand the Meaning, Scope, Importance, Role and Limitations of ManagementAccounting. Difference of Cost Accounting and Management Accounting, Break - Even Point Analysis (Theory & Numericals) |

| | |
|---|---|
| CO2 | To know Meaning, Characteristics, Objectives, Advantages, Limitations. Classification &Types of Budgets. Problems on Cash Budget and Flexible Budget Only (Theory & Numericals) |
| CO3 | Explore Meaning, Importance and Limitations of Ratio Analysis, its Classification,Computation of Profitability Ratio, Financial Ratio with special reference to Current Ratio, etc. |
| CO4 | To learn Meaning, Sources of fund, Uses of fund, Distinguish between fund flowstatement and Balance Sheet. Preparation of Statement showing Changes in Working Capital, Profit from operation, Fund flow Statement (Theory& Numericals) |

**Advanced Statistics**

| S. No | Course Outcomes |
|---|---|
| CO1 | To gain the knowledge of Correlation and its types and also its methods like KarlPearson's coefficient of Bivariate frequency table, probable error, interpretation of 'r' and Rank Correlation Method. |
| CO2 | Explore the knowledge about Regression Analysis and its related terms like-Line ofregression/ Regression Equation coefficient of regression for a Bivariate frequency table. |
| CO3 | Understand the term Index Number, its uses, methods and types and also test of consistency of Index No..- unit test time reversed test, factor cost of living Index No. |
| CO4 | To lean the term Time Series its introduction components-a) Trend b) Short Term Variation c) Irregular variation d) Measurement of trend and know about Graphic Methods, Methods of Seminar, Methods of Curve by the square Methods of Moving Average. |

**Indian Economy-II**

| S. No | Course Outcomes |
|---|---|
| CO1 | Understand the role of Agriculture in Indian Economy and how the green revolution has increased productivity. Acquire the knowledge of crop and live stock insurance. |
| CO2 | Understand industrial policy 1991 and public sector, private sector, small scale, cottage industries and their sickness and measures. |
| CO3 | Understand the trend and importance of service sector in India like banking, insurance etc. and about employment generation and opportunities etc. |
| CO4 | Understand the concept of India's International trade, SE2, MNC, LPG, WTO etc. |

**Human Resource Management**

| S. No | Course Outcomes |
|---|---|
| CO1 | The course is designed to introduce Human Resource Management, its Definition, Objectives, Functions, Scope, Importance and Quality of an ideal Human ResourceManager. |
| CO2 | To give knowledge to students about recruitment selection and training, selectionprocess and importance, placement and induction, career planning v/s manpower planning. |

| | |
|---|---|
| CO3 | The course is designed to enable students to know the terms Labour welfare andCollective Bargaining, its Features, Successful Participation of workers in Management. |
| CO4 | To have knowledge of Human Resource Planning, Human Capital Investment - Expenditure vs. Productivity, Meaning and Definition of Human Resource Accounting, Importance; Human Resource Accounting - Measurement of Human Value addition into Money Value, etc. |

**Business Finance-II**

| S. No | Course Outcomes |
|---|---|
| CO1 | To know the financial market in India. To understand the concept of money market, capital market, their features, functions and composition. |
| CO2 | To know the concept of primary market, secondary market. Functions, scope and significance of primary market, Development and intermediaries in primary market capital budgeting, calculation of capital various methods. |
| CO3 | To gain the knowledge about NBFC's. To know the concept of Dividend policies and credit rating. Calculation of dividend by various methods. |
| CO4 | To understand the concept of cash flow, significance and limitations and preparation of cash flow statement. |

## Section B - Non-Grant (Self-Financed) Courses (UG)

### 1. Faculty of Science & Technology

### 1.1 Biotechnology (Three Years, Six Semesters)

**B.Sc. (All Semesters) Course Outcomes**

| S. No | Course Outcomes |
|---|---|
| CO1 | In Semester-I, students learn the basics of Microbiology, Biomolecules and basic estimation techniques in both Microbiology and Biochemistry |
| CO2 | In Semester-II, students learn advanced aspects in Microbiology, Cell Biology, cell constituents and enzymology which gives them an idea regarding the behavior of biomolecules and their kinetics |
| CO3 | In Semester-III they learn Biophysical techniques and Metabolism which is very essential for Biotechnology students. This enhances Student's ability to comprehend and master the skills in instrumentation |
| CO4 | Semester-IV is dedicated to Immunology, Biostatistics and Biophysical techniques. This syllabus helps in understanding deeper aspects of Cell Biology as immune cells and molecules and various techniques related to it. Biostatistics is very important for research data interpretation. So the basics of statistics as applied to Life Sciences is taught |
| CO5 | Semester-V deals with Molecular Biology and rDNA technology which is core Biotechnology and the knowledge gained in the previous semesters helps the students to comprehend these subjects with ease |
| CO6 | Semester-VI comprises Applications of Biotechnology like Industrial, Food |

### 2. Faculty of Commerce and Management

### 2.2 Bachelor of Business Administration (B. B. A.) Program:

**Three Years, Six Semesters Program Specific Outcomes**

**B.B.A. Sem. I**

- **English 1**
- **Evaluation of Business**

| S. No | Course Outcomes |
|---|---|

| | |
|---|---|
| CO1 | The students will be able to Relate the reasons of world war its effect on global business environment. |
| CO2 | The students will be able to describe cold war and OPEC crises on international business. |
| CO3 | The students will be able to differentiate the Indian business structure between pre and post-independence. |
| CO4 | The student will be able to analyse the contribution of various sectors in Indian business. |
| CO5 | The students will be able to summarise global business and Indian business scenarios |

- **Aptitude Development – 1**

| S. No | Course Outcomes |
|---|---|
| CO1 | The students will be able to Practice effective communication in real life. |
| CO2 | The students will be able to recognise problem solving skills. |
| CO3 | The students will be able to infer logical reasoning techniques |
| CO4 | The students will be able to explain and infer data analytical techniques |
| CO5 | The students will be able to prepare themselves for various competitive exams and different placement attitude test as well. |

- **Basics of MS-Excel**

| S. No | Course Outcomes |
|---|---|
| CO1 | Students will be able to perform operations using Excel tabs and tools effectively. |
| CO2 | Students will be able to recognise the data with the help of excel and compute various statistical parameters using formulas and functions. |
| CO3 | Students will be able to infer logical reasoning techniques |
| CO4 | Students will demonstrate ability to work effectively on data sheet with the knowledge of excel. |
| CO5 | Students will demonstrate ability to present data in charts and graphs sing excel skills. |

- **Foundation of Managerial Effectiveness**

| S. No | Course Outcomes |
|---|---|

| | |
|---|---|
| CO1 | The students will be able to relate the concept of skill development with managerial skills. |
| CO2 | The students will be able to interpret the problem solving techniques with the help of Johari window. |
| CO3 | The students will be able to analyse group behavior and explain of SWOT analysis. |
| CO4 | The students will be able to differentiate between different structures of organizations and classify between empowerment and delegation. |
| CO5 | The students will be able to point out the effective managerial traits and ways to improve them. |

**B.B.A. Sem. II**

- **English 2**

| S. No | Course Outcomes |
|---|---|
| CO1 | To introduce the basic concepts of English grammar, to understand the nuances of business correspondence, importance of business manners. |
| CO2 | To acquaint students with English comprehension, verbal reasoning enriching vocabulary, essay writing, press releases and news article writing, precise Writing to enable them to go a long way. |

- **Fundamentals of Business Management**

| S. No | Course Outcomes |
|---|---|
| CO1 | To educate with the fundamentals of business management and organization which enables one to manage key business function and to develop intellectual ability, leadership qualities and managerial skills required to manage business functions successfully. |
| CO2 | To get insights deep in concepts of management, administration, planning process, decision making, organizing, directing controlling staffing in Understanding organization and its structure. |

- **Cost & Management Accounting**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand the basic concepts and processes used to determine product costs |
| CO2 | To interpret cost accounting statements |

| | |
|---|---|
| CO3 | To analyze and evaluate information for cost ascertainment, planning, control and decision making and solve simple cases. |

- **Environmental Studies**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand the concept of environment management. |
| CO2 | To know various types of pollution present in environment. |
| CO3 | To know about human population, its cause and effect also covering the social issues in environment. |
| CO4 | To understand the importance of various aspects of environment, become aware of various contemporary issues related to the environment. |

- **Sociology**

| S. No | Course Outcomes |
|---|---|
| CO1 | The students will be able to identify the subject matter of sociology as a science. |
| CO2 | The students will be able to relate various domains of social sciences with sociology. |
| CO3 | The students will be able to interpret elements of culture and society in development of value system. |
| CO4 | The students will be able to explain contribution of social institutions in social development. |
| CO5 | The students will be able to examine his/her role in community I terms of society, religion , caste, region, gender and polity. |

**B.B.A. Sem. III**

**Principles of Financial Management**

| S. No | Course Outcomes |
|---|---|
| CO1 | An introduction to the concept of basic principles of financial management, conceptof working capital in a business, its key components and calculations, to facilitate a business. |
| CO2 | To be aware of the various sources of financing, its' cost structure, approaches of financing, different financial instruments present in markets to cater financial needs of an organization. |

**Basic Statistical Techniques**

| S. No | Course Outcomes |
|---|---|
| CO1 | To provide an understanding of important statistical tools and their elementary applications to business problems. |
| CO2 | Be proficient in various statistical techniques like averages, dispersion methods, and correlation calculations to deal with data. |

**Evolution of Business & Commercial Geography**

| S. No | Course Outcomes |
|---|---|
| CO1 | To provide deeper understanding about evolution and history of business process and attain effective decision making. |
| CO2 | To know geographical environment of business, determinants of location of industries and a brief overview of role of major industries in economic developmentof a country. |

**Environment Management**

| S. No | Course Outcomes |
|---|---|
| CO1 | To have knowledge of concept of environment management, various types of pollutions, causes and solutions to environment depletion in order to create a socialawareness of contemporary issues related to the environment. |
| CO2 | To have knowledge of social issues in environment, environmental ethics, sustainable development to make aware of importance and conservation of environment as socialresponsibility of each individual. |

**B.B.A. Sem. IV**

**Principles of Human Resource Management**

| S. No | Course Outcomes |
|---|---|
| CO1 | To develop understanding the concept of human resource development and to gain an insight of the factors which go into the making of an efficient HRD manager. |
| CO2 | To understand the concept of job analysis, job design, human resource planningprocess, induction and training, placement, promotion, etc. to understand human resource management. |

**Money, Banking & Finance**

| S. No | Course Outcomes |
|---|---|
| CO1 | To enable students to relate the concepts of money as an economic commodity,working of banks and various economic policies to order to study economic environment of a country. |
| CO2 | To know about the origin of money, role of banks in an economy, national incomeconcepts, monetary and economic policies to understand the working of a country's' economy. |

**Business Communication**

| S. No | Course Outcomes |
|---|---|

| | |
|---|---|
| CO1 | To learn techniques and skills of communication to inform others, inspire them and enlist their activity and willing cooperation in the performance of their job |
| CO2 | To learn the concept of an effective communication, report writing and summarization, effective presentation skills in order to gain perfect communication skills and knowledge. |

**Business Legislations**

| S. No | Course Outcomes |
|---|---|
| CO1 | To develop conceptual knowledge regarding various laws related to business and industry. To know the procedure of various laws related to business and industry |
| CO2 | To be aware of various laws prevailing in business world which facilitate differentaspects of a business like companies act, consumer protection act, Indian contract act etc. |

**B.B.A. Sem. V**
**Entrepreneurship Development**

| S. No | Course Outcomes |
|---|---|
| CO1 | To know the importance and role of entrepreneurship in economic development,imparts various considerations necessary to become an Entrepreneur and Government support system for the same. |
| CO2 | To understand evolution of entrepreneurship, its' growth, study of financial institutions supporting to entrepreneurs. |

**Principles of Operations Management**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand the concept of production and operations management including study of production, material management, inventory control, latest methods to understand how modern production is framed and operations are managed. |
| CO2 | To know the principles of material management, quality management and productivity, production planning, quality management methods and techniques. |

**International Business Environment**

| S. No | Course Outcomes |
|---|---|
| CO1 | To have an overview of the international business environment, its factors and components |
| CO2 | To understand international issues and describe concepts relevant to all international markets, regardless of the extent of their international environment. |

**Research Methodology**

| S. No | Course Outcomes |
|---|---|

| | |
|---|---|
| CO1 | To learn the concept of research with practical aspects on research methodology with basic knowledge and act as a guide to beginners for research. |
| CO2 | To generate research ideas for research scholars and industrialists, those who are interested in researching and testing their views by applying latest technologies. |

**B.B.A. Sem. VI**

**Elective Paper – 1**

| S. No | Course Outcomes |
|---|---|
| CO1 | To study the fundamental concepts of business Finance/ Human resource management and Marketing management with a view to make student familiar with the subjects. |
| CO2 | To explore basic fundamental knowledge of Finance/ Human resource management and marketing management with a view to make student familiar with the subjects. |

**Elective Paper – 2**

| S. No | Course Outcomes |
|---|---|
| CO1 | To gain the advanced knowledge of concepts of business Finance/ Humanresource management and Marketing management with a view to prepare students for higher scope. |
| CO2 | To know the complexities in modern business world and its solutions to be explored from advanced knowledge fields of Finance/ Human resource management and Marketing management |

**Project Work**

| S. No | Course Outcomes |
|---|---|
| CO1 | To consolidate and collaborate their own learning and skills such as problem solving,critical thinking, time management and correlate the theory concepts with practical real business world. |
| CO2 | To apply what they learned in books to real life experiences and providing an all-round enriching education. |

## 2.2 Bachelor of Commerce with Computer Applications (B. C. C. A.) Three Years, Six Semesters Program

**BCCA Sem. I**

- **English & Business Communication**

| S. No | Course Outcomes |
|---|---|
| CO1 | To develop basic skills to deal with people in business situations. |
| CO2 | Write and read basic business reports, faxes, and memos. |

| | |
|---|---|
| CO3 | Expand vocabulary related to general business situations & to Develop confidence to deal with people and basic issues in the business world. |

- **MS-Office (IT)**

| S. No | Course Outcomes |
|---|---|
| CO1 | Student will be able to create and manage word documents with required formatting. Students will be able to compose word documents and operate relevant features and tools of MS Words. |
| CO2 | Student will be able to perform operations like creating, storing, and formatting data using different Excel formatting tools and features. |
| CO3 | Students will able to perform calculations using functions, and present the data visually using charts and graphs |
| CO4 | Student will be able to create and design professional presentation using different features & tools of PowerPoint. |
| CO5 | Students will be able to prepare and appraise professional business data, document and presentation. |

- **Fundamentals of Computers**

| S. No | Course Outcomes |
|---|---|
| CO1 | To basic principles of using Windows operation system and learn and practice basic keyboarding and mouse use. |
| CO2 | To be able to access the Internet, Worldwide Web, learn the basics of e-mail, such as sending, forwarding and receiving mail, attaching documents. |
| CO3 | To learn basic word processing skills with Microsoft Word, such as text input and formatting, editing, cut, copy and paste, spell check, margin and tab controls, keyboard shortcuts, printing, as well as how to include some graphics such as pictures and charts. |
| CO4 | To develop an intuitive sense of how computers work and how they can be used to make your academic work more efficient. |

- **Professional Ethics & Human Values**

| S. No | Course Outcomes |
|---|---|
| CO1 | Students will be able to **outline** the importance of Values in life & **explain** the concept of Co-existence of the Self and the Body. |
| CO2 | Students will be able to **discuss** the basics of values in human- human interaction. |
| CO3 | Students will be able to **critically evaluate** the different theories of Ethics. |
| CO4 | Students will be able to **highlight** the role of Code of Conduct in ethical behaviour in Professional life. |
| CO5 | Students will be able to **analyse** the issues in Professional ethics |

- **Practical – I**

| Course Outcome | |
|---|---|
| **CO1** | Given the details about the company student will be able to **Create** company and also able to do some alteration according to the requirement. |
| **CO2** | Given the day-wise transactions of firm, the students will be able to **prepare** ledger and group and will be able to create various vouchers, using Tally software. |
| **CO3** | Given the details about the day-wise transactions of a firm, the student will be able to **create** bill wise detail based on stock. |
| **CO4** | Given the details about transactions, students will be able to **prepare** profit & Loss A/C report and balance sheet |
| **CO5** | Given the details about cash and bank transactions for a specific period, students will be able to prepare bank reconciliation statement. |

**BCCA** Sem. II

- **English & Business Communication – II**

| S. No | Course Outcomes |
|---|---|
| CO1 | To develop basic skills to deal with people in business situations. Expand vocabulary related to general business situations. |
| CO2 | Write and read basic business reports, faxes, and memos. |
| CO3 | To confidently deal with people and basic issues in the business world. |

- **Principles of Business Management**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand business environment and functions of business organization relevant to commerce students. |
| CO2 | To know how organizations adapt to an uncertain environment and identify techniques that managers use to influence and control the internal environment. |
| CO3 | To practice the process of management's four functions: planning, organizing, leading and controlling. |

- **Database Management System**

| S. No | Course Outcomes |
|---|---|
| CO1 | To know and understand the database management systems concepts, with an emphasis on how to organize, maintain, retrieve efficiently and effectively the information from a DBMS. |
| CO2 | To study and understand basic concept of database management system and it's Architecture. |
| CO3 | To differentiate concept of DBMS and RDBMS, practical knowledge of SQL (Oracle Command) for handling of database. |
| CO4 | To create and maintain Database in Oracle. |

- **E-Commerce & Web Designing**

| S. No | Course Outcomes |
|---|---|

| | |
|---|---|
| CO1 | To understand the e-commerce concepts |
| CO2 | To learn HTML and web designing concepts and the concept of CSS. |
| CO3 | To understand how to conduct business online and manage the technical issues associated with constructing an e-commerce Web site. |
| CO4 | To learn the similarities and differences between traditional and electronic commerce and to explore e-commerce technologies at various levels of sophistication. |
| CO5 | Develop skills in analyzing the usability of a web site. Learn techniques of responsive web design, including media queries |

- **Practical - I**

| **Course Outcome** | |
|---|---|
| **CO1** | Given the details about pay scale, various allowances and deductions applicable to the employee the student will able to compute Gross and taxable salary using Tally Erp9 |
| **CO2** | Given the details about the financial transactions students will be able to prepare applicable and report related to financial transactions. |
| **CO3** | Given the details about that the various Payment transaction student will be able to prepare TDS report for a specific period. |
| **CO4** | Given the information about the taxable transaction under GST, the student will be able to prepare GST report. |

**BCCA Sem. III**
**Environmental Studies**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand the concept of environment management. |
| CO2 | To know various types of pollution present in environment. |
| CO3 | To know about human population, its cause and effect also covering the social issues in environment. |
| CO4 | To understand the importance of various aspects of environment, become aware ofvarious contemporary issues related to the environment. |

**Business Economics**

| S. No | Course Outcomes |
|---|---|
| CO1 | To learn the principles of business economics as are applicable in business. |
| CO2 | To understand concept of economics and its important. |
| CO3 | To Know and understand theories of economics |

**Visual Basic Programing**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand and use the user interface environment. |
| CO2 | To have skill of Programming using this language. |

| | |
|---|---|
| CO3 | To build Windows applications using structured and object-based programming techniques in visual basic |

**Database Management System**

| S. No | Course Outcomes |
|---|---|
| CO1 | To know and understand the database management systems concepts, with an emphasis on how to organize, maintain, retrieve efficiently and effectively the information from a DBMS. |
| CO2 | To study and understand basic concept of database management system and it's Architecture. |
| CO3 | To differentiate concept of DBMS and RDBMS, practical knowledge of SQL (Oracle Command) for handling of database. |
| CO4 | To create and maintain Database in Oracle. |

**Practical-I**

**Component-I:** Visual Basic

**Component-II:** DBMS

| S. No | Course Outcomes |
|---|---|
| CO1 | To provide learners hands on practice and mastery within a real job situation in computer handling and programming in VB, DBMS and SQL. |

**BCCA Sem. IV**
**Mathematics**

| S. No | Course Outcomes |
|---|---|
| CO1 | Develop abstract, logical and critical thinking and the ability to solve problems. |
| CO2 | To be aware about the various key mathematical theories, concepts and methods |
| CO3 | To understand concepts of mathematics and the various statistical tools. |
| CO4 | To apply mathematics in business environment |

**Business Law**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand laws relating to commercial contract. |
| CO2 | To apply legal concepts while drafting a contract. |
| CO3 | To understand the legal aspect of trade in goods in physical as well e-commerce industry. |
| CO4 | To develop understanding related to status of partner and firm with respect to LLP, and legal aspects of dealing with negotiable instruments. |

**Core Java**

| S. No | Course Outcomes |
|---|---|
| CO1 | To Understand fundamentals of object-oriented programming in Java. |
| CO2 | To know the structure and model of the Java programming languages (Knowledge). |
| CO3 | To create and execute a java program that solve simple business problems |

| | |
|---|---|
| CO4 | To Write Java programs to implement error handling techniques using exception handling, Perform a test plan to validate a Java Program, Use the Java programming<br>language for various programming technologies (Understanding). |

**PHP & MySQL**

| S. No | Course Outcomes |
|---|---|
| CO1 | To create the Dynamic Pages & to use various Tags of HTML & PHP using server side programming. |
| CO2 | To know how database works and how to design one, as well as how to use PHP My Admin to work with MySQL |
| CO3 | To implement different ways of connecting to MySql through Php and create tables, enter data, select data, change data and delete data. |

**Practical-I**

**Component-I:** Core Java

**Component-II:** PHP & MySQL

| S. No | Course Outcomes |
|---|---|
| CO1 | To write java programs that solve simple business problems, implement error handling techniques using exception handling, Perform a test plan to validate a Java Program. |
| CO2 | Use the Java programming language for various programming technologies (Understanding) |

| | |
|---|---|
| CO3 | To create the Dynamic Pages & to use various Tags of HTML & PHP using server side programming. |

**BCCA Sem. V**
**Computerized Accounting (Tally)**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand concept and Basics of Accounts and the usage of Tally for accounting purpose. |
| CO2 | To use the tally software, creating new company, voucher entry. |
| CO3 | To use voucher entry. |
| CO4 | To understand concepts of voucher entry, budget, and inventory. |

**VB.Net**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand .NET Framework and describe some of the major enhancements to the new version of Visual Basic |
| CO2 | To describe the basic structure of a Visual Basic.NET project and use main features of the integrated development environment (IDE). |
| CO3 | To create applications using Microsoft Windows Forms and Create applications that use ADO. NET Working with XML Documents Using Crystal Reports |

**Management Information Systems:**

| S. No | Course Outcomes |
|---|---|
| CO1 | To Understand the role of Management Information Systems in achieving business competitive advantage through informed decision making. |
| CO2 | Analyze and synthesize business information and systems and facilitate evaluation of strategic alternatives. |
| CO3 | To Effectively communicate strategic alternatives to facilitate decision making. |

**System analysis & Design**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand the application of computer technology, modern materials and construction techniques to the overall design of structures, including project planning, costs estimates and management of the project. |
| CO2 | To have a sound background in the analysis, design, testing and construction of civil structures. |

**Cost & Management Accounting**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand the basic concepts and processes used to determine product costs |
| CO2 | To interpret cost accounting statements |
| CO3 | To analyze and evaluate information for cost ascertainment, planning, control and decision making and solve simple cases. |

**Corporate Accounting**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand the techniques of restructuring and liquidating the corporate entities. |
| CO2 | To know of recent developments in corporate accounting. |
| CO3 | Be aware of various requirements of Corporate Reporting. |



**Practical-I**

**Component-I:** Tally ERP.9

**Component-II:** VB.net

| S. No | Course Outcomes |
|---|---|
| CO1 | To use the tally software, creating new company, voucher entry. |
| CO2 | To use voucher entry and concepts of voucher entry, budget, and inventory. |
| CO3 | To know the basic structure of a Visual Basic.NET project and use main features of the integrated development environment (IDE). |
| CO4 | To create applications using Microsoft Windows Forms and Create applications that use ADO. NET Working with XML Documents Using Crystal Reports |

**BCCA 6th SemesterC#.Net**

| S. No | Course Outcomes |
|---|---|
| CO1 | To understand why Python is a useful scripting language for developers. |
| CO2 | To design and program Python applications, to use lists, tuples, and dictionaries in Python programs and to identify Python object types. |
| CO3 | To use indexing and slicing to access data in Python programs. |
| CO4 | To define the structure and components of a Python program, design object oriented programs with Python classes, to use exception handling in Python applications for error handling. |

| S. No | Course Outcomes |
|---|---|
| CO1 | To know and understand Dot Net Frameworks along with C# Learning . |
| CO2 | To use the features of Dot Net Framework along with the features of C#. |

**Ruby on Rails**

| S. No | Course Outcomes |
|---|---|
| CO1 | To write a Program in **Ruby**. Understand the **Rails** Framework. |
| CO2 | Harness the speed and ease of developing a **Rails** application. |
| CO3 | Create and use XML in **Rails** applications. Build dynamic database-driven web sites |

**Entrepreneurship Development:**

| S. No | Course Outcomes |
|---|---|
| CO1 | To acquire necessary knowledge and skills for organizing and carrying out entrepreneurial activities. |
| CO2 | To analyze and understand business situations in which entrepreneurs act and to master the knowledge necessary to plan entrepreneurial. |

**Company Law and Secretarial Practice**

| S. No | Course Outcomes |
|---|---|
| CO1 | To know Companies Act - formation of company, documents required and Acts pertaining to it. |

**Practical-I**

**Component-I:**
C#.net

**Component-II:**

**Python**

| S. No | Course Outcomes |
|---|---|
| CO1 | To use the features of Dot Net Framework along with the features of C#. |
| CO2 | To design and program Python applications. |
| CO3 | To use lists, tuples, and dictionaries in Python programs. |
| CO4 | To identify Python object types and use indexing and slicing to access data in Python programs. |

**Project**

| S. No | Course Outcomes |
|---|---|
| CO1 | To consolidate and collaborate their own learning and skills such as problem solving, critical thinking, time management and correlate the theory concepts with practical real business world from those covered in the previous semesters including C programming, Web designing, Visual Basic, DBMS, Tally, VB.net, C#.net or Python.. |
| CO2 | To use the software development process through the project work. |
| CO3 | To understand the importance of testing and quality assurance of the system underdesign before delivery and to understand the needs of after sales services |

**Post-Graduation**

**M.A. Political Science**

**PROGRAMME OUTCOMES:**

PO1. The students will be able to demonstrate knowledge and understanding of the key theories and concepts in Political Science. It also aims to familiarize insights into the theoretical advances in the discipline.
PO2. The students will be able to demonstrate analytical abilities and critical thinking and evaluate empirical evidence on the basis of scientific approaches established in political science in particular and social science in general.
PO3. The students will be able to comprehend the political phenomena and problems through interdisciplinary perspective and also enhance their abilities in formulating solutions using the methodological tools within the given context.
PO4. The students will learn through engagements and participation in the classroom through the promotion of reasoned arguments enhancing their analytical capabilities and independent opinion formulation.
PO5. They will experience an environment wherein they will develop research aptitude by promotion of the spirit of inquiry and the ability to raise appropriate questions leading to the production of useful knowledge.
PO6. The students will perform individually as well as a team in the various departmental activities and course requirements helping them to improve upon their leadership abilities and also as a team performer. The programme aims to convert the students into an informed and enlightened citizen of the country.
PO7. The students will apply critical thinking, communication and analytical skills to address significant issues of concern in society.

**M.A. I SEMESTER-I**

**PSPGS1M1: Ancient & Medieval Indian Political Thought**
Outcome:



- Students will understand the wide spectrum of ancient Indian political thought.
- They will realise the in depth philosophical and practical holistic approach in grained in ancient political thought.

- Students will get knowledge of different political institutions and their comprehensive role in the society.

**PSPGS1M2: Indian Government and Politics**
Outcome:
- This paper will make students know about the Indian constitution and its actual implementation.
- Students will be equipped with knowledge of all the institutions that come under the constitution.
- Students will be able analyse the correlation between functioning of the political offices and impact of non-political forces on them.

**PSPGS1M3: International Relations**
Outcome:
- This paper will provide knowledge about present world politics and interdependence of the sovereign nations.
- Students will get insight into the major issues in the world since the 2nd world war.
- Students will understand the working of world organisations & their respective role in global politics.

**PSPGS1M4: Political Theory**
Course Outcomes:
- The students are given clear ideas about the concepts of contemporary political theory.
- After Completing Post Graduation in the department students go for higher education.
- This course will provide conceptual understanding about major traditions of political theory. After Completion of course students will be able to understand the idea.

**PSPGS1E5 - International Law**
Outcome:
- Students will study one of the most ancient concepts viz.; international law and its development into a specialized branch of study.
- This paper will give knowledge about the vast compass of the subject with all its theoretical perspective.
- This paper will enable students to analyze the present complex nature of international law & its implementation.

**PSPGS1E6-Public Opinion and Survey Research**
Outcome:
- The Students will assimilate various Techniques of survey. He will understand the value of public opinion.
- This will further help in the formation of policies.
- Students will be equipped to get employment as researchers.

**PSPGS1RM7 - Research Methodology**
Outcome:
- Students will realize that research is the basic & most crucial aspect of development in any field.
- They will comprehend the ingrained procedure of scientific research.
- They will understand basic techniques & new methods of research in social science.

**SEMESTER - II**
**PSPGS2M08: Modern Indian Political Thought**
- This paper will make students aware about the autonomous, rich and deep tradition of Indian political thought.
- It will give knowledge about some thinkers who have made a lasting impact on Indian political scenario.
- This will enable students to critically analyse the different shades of Indian political thought.



**PSPGS2M09: Pressure Groups and Social Movements**

Outcome:

- Students will understand the nature & significance of pressure groups & social movements.
- They will realise the utility of these phenomena in the present political system.
- Students will be able to critically analyse the correlation between political process and social movements in the society.

**PSPGS2M10-Politics of Maharashtra**

Outcome:

- This paper will impart knowledge about the struggle for formation of Maharashtra.
- Students will get instructions about different forces & under currents of Maharashtra politics
- Students will realise the present status & nature of Maharashtra polities as well as various issues troubling the state.

**PSPGS2M11 - Conflict and Peace Studies**

Outcome:

- Study of this paper will enable students to understand conflicts of all kinds.
- It will enable them to adopt methods to resolve conflicts.
- It will give scope to get employment as a mediator & negotiator.

**PSPGS2E12: Political Anthropology**

Outcome:

- This paper will transmit knowledge about primitive societies & human relations that prevailed during that time.
- Students will grasp the political features, social norms, and economic relations of primitive societies.
- Students will get knowledge about the culture & value system of primitive societies.

**PSPGS2E13- Applied Research Methodology in Political Science**

Outcome:

- Students will realize that research is the basic & most crucial aspect of development in any field.
- They will comprehend the ingrained procedure of scientific research.
- They will understand basic techniques & new methods of research in social science.

**PSPGS2OJT14 On Job Training: Internship/ Apprenticeship (OJT)**
**PSPGS2FP15- FIELD PROJECT (FP)**

Outcomes:

1. Gained exposure to and responsibility for varied practical situations under qualified supervision.
2. Gained knowledge and competence in working with individuals and groups in a structured program setting.
3. Developed an in-depth understanding of kinesiology and health interests and needs, and the variations of services delivered by multiple kinesiology and health service agencies and organizations.
4. Demonstrated through actions a level of competence in leadership, programming, and administrative abilities, as well as a commitment to human values and ethics.
5. Demonstrated analytical and research abilities by means of written reports on the organizational structure and administrative functions of the Fieldwork agency.

**SEMESTER - III CORE PAPER PSPGS3M16-Comparative Politics (With reference to political systems in UK, USA, Switzerland)**

Outcome:

- This paper will enthuse students with insights into different concepts & approaches in political science.
- It will stimulate students to explore co-relation between various forces that guide human behavior.
- This paper will enable students to analyze the issues that face human beings.



**PSPGS3M17-PUBLIC ADMINISTRATION**

Outcome:

- This paper will provide a holistic picture about Public Administration.

- Students will study theoretical & practical aspects of public administration.
- Latest issues & trends will be understood by the students.

**PSPGS3M18- Modern Political Ideologies**
Outcome:
- Students will understand the significance of ideologies in the modern world.
- Students will realise the nature of different ideologies.
- Students will be able to co-relate ideologies with the actual world situation.

**PSPGS3M19: India's Foreign Policy in a New Global Order**
Outcomes:
- Students will learn about India's diplomatic maneuvers in an essentially interest and power seeking global hierarchical relationship.
- Students will also learn about the challenges India faces in securing its interests as a postcolonial state.
- The study of India 's ability to engage with powerful nations of the world like the US, Russia and China will help students understand India's perspective on international relations.
- The course will enhance students 'understanding of India's strategies in South Asia.
- Students will also learn about India's/negotiation strategy in dealing with global trade, environment and security regime.

**PGPSS3E20-Political Psychology**
Outcomes:
- Describe core concepts and perspectives related to political psychology.
- Discuss the Role of personality, social class, political presentation, political efficacy, and leadership styles on the behaviour of political leaders.
- Assess the role of cognition and emotion in political behaviour, including political socialization, information processing and voting behaviour, image making, and ideologies.
- Examine the issues related to the political psychology of diversity, including stereotyping, prejudice, discrimination, social inequality, ethno-political conflict, and the path to prejudice reduction.

**PSPGS3E21-Political Journalism**
Outcome:
- Course on Political Journalism will provide understanding of media & its role in modern conflict.
- It will help to develop new ways & its methods of media management.
- It will help in getting employment in media houses.

**PGPSS3RP22- Research Project**
Course Outcomes:
This paper intends to develop a comprehensive insight in the students so that given an opportunity they can initiate a minor research proposal or attempt a minor dissertation on their area of interest.
For Example: 1. A Project on the Political Process in India 2. A project on the formulation and execution of various governmental programs and schemes ranging from Beti Bachao Beti Padhao, Swachta Bharata Bhiyan, Ek Bharat Shreshth Bharat, Ujala, Skill India, Jandhan Yojna, Ayushman Bharat, Digtal India Mission, Namami Gange, etc.

**SEMESTER - IV PSPGS4M23: State Politics in India**
Outcome:
- This paper will give complete knowledge about federalism in India with peculiar characteristics of state functioning.
- Students will realise the critical issues involved with federal structure in India.
- Students will get knowledge of various influencing non-political factors in state politics.



**PSPGS4M24: Political Sociology**
Outcome:

- This paper will spread basic information about the intricate relationship between society & politics.
- Students will realise the significance of basic power structure and procedure that is followed in decision-making.
- Students will understand various forces that influence the political process.

**PGPSS4M25 - Election Management**
Outcome:
- This paper will help politicians to comprehend the election process, help them to nurture constituencies.
- Enable them to desire election strategy.
- Students can get employment as election manager or strategist.

**PSPGS4E26: Human Rights and Indian Constitution**
Outcome:
- The student will learn theoretical aspects of Human Rights.
- Students will understand the measures by the world community to implement Human Rights.
- Students will learn the practice of Human Rights in India.

**PSPGS4E27: Psephology**
Outcome:
- Studying Psephology will help students to understand the election process.
- Help analyze the working of the constitution, Political Parties.
- Help them to get employment as research, analysis & media persons.

**PGPSS4RP28- Research Project**

**M.A. Home Economics**
**Course Outcomes**
Semester I Paper -I (Major Course) RESOURCE MANAGEMENT Subject Code - 1T1
After completion of this course students should be able to -
- To utilize knowledge regarding managerial skills.
- To understand and utilize the knowledge of decision making in their day to day life.
- To develop insight regarding values in the family.
- To clear the concepts of the role of woman in family life cycle.
- To create awareness in the students regarding family budget saving and investment facilities.
- To create awareness among students regarding reality and problems of community services.
- To develop awareness regarding the role of ergonomics in daily life and its application in work simplification.
- To understand stress and its management.

Semester I Paper II (Major Course) Human Development Subject Code - 1T2
After completion of this course students should be able to -
- Given knowledge about domains of Human Development and Psychological tests students will be able to work with Psychologists for testing.
- Given knowledge about different methods of child study students will be able to conduct research in the field of child research.
- Given the knowledge about learning theories in education students will be able to implementation of theories in the field of education.
- Given the knowledge about personality development students will be able to conduct personality development workshops.
- Given the knowledge about theories of intelligence and creativity students will be able to conduct workshops of creativity for young children.



Semester I Paper III (Major Course) Textile and Clothing Subject Code - 1T3

After completion of this course students should be able to -

- Receive detailed knowledge about the properties of different fibers and their use in day to day life.
- Gain detailed knowledge of manufacturing process of natural and manmade fibers and will be able to identify different types of yarns.
- Use different methods of fabric construction.
- Identify the differences in woven and nonwoven fabric.
- Prepare different types of fabric finishes.
- Prepare different types of dyes by using dying techniques and application of suitable Dye on different types of fabric.
- Attain skills on various printing techniques. Prepare an album of origin of various Traditional Indian Textiles.

Semester I Paper -IV (Major Course) Research Methods and Statistics Subject Code - 1T4
After completion of this course students should be able to –

- Discuss the importance of Research, Research process and types of research and their use. Recognize the main characteristics of qualitative and quantitative research design.
- Formulate a research problem, frame objectives, set hypothesis and a research design applicable to address the problem.
- Design a good quantitative purpose statement and good quantitative Research questions and hypotheses.
- Define the meaning of a variable, and to be able to identify independent, dependent, and mediating variables.
- Discuss about importance of statistics in research and should be able to use the basic statistics i.e. mean, median, mode, standard deviation etc.
- Appropriately apply the tools of descriptive statistics, e.g., frequency distributions, measures of central tendency, and measures of variability, to organize, summarize, and describe research data.

Semester I Paper -V (Elective Course) Early childhood Care and Education Subject Code - 1E1
After completion of the course the students will be able to:

- Learn aims and objectives of Early Childhood and Care Education, based on child development
- Enhance the qualities of nursery (pre-primary) level teachers.
- Prepare a plan of play-way approach for the holistic development of children.
- Understand the Growth and Development of Child.
- Understand the principles of programme planning, and acquire the skill set in planning and administration of ECCE center.
- Prepare them to work in the field of ECCE.

Semester -1 Paper -V (Elective Course)-1E1 Residential Interior Design

- Given the information about Element and principles of Design, in interior designing terminology, students will be able to make use of elements and principles of design in interior designing.
- Given the information about materials and methods of interior construction students will be able to make use of materials and methods of interior.
- Given the knowledge of fixtures and finishes and lightings, Students will experience and learn by visiting actual interior construction sites.
- Given the knowledge of Accessories in interior designing, students will be able to work in the field of gardening, sculpture, paintings, flower arrangement and start their self-employment.
- Given the detail information about designing of various spaces, students will be able to prepare work plan of living space, kitchen, sleeping space, child's room bathroom etc.



Semester I (Major Course) Research Methodology (RM) Subject Code - 1T6
After completion of this course students should be able to –

- Design a good quantitative purpose statement and good quantitative Research questions and hypotheses.

- Define the meaning of a variable, and to be able to identify independent, dependent, and mediating variables.
- Distinguish between a population and a sample.
- Know the various types of quantitative sampling and general consideration in determination of sample size.
- Prepare the steps in the process of quantitative data collection and appropriate selection of method to be used.
- Adopt the techniques of coding, various types of classification tabulation, interpretation and its application in research.
- Interpret the diagrams and graphs.
- To write a research paper.
- Appropriately apply inferential statistical procedures, e.g., t-test, correlation, ANOVA, Chi square to test research hypotheses and interpret the results.

Semester II Paper I (Major Course) RESOURCE MANAGEMENT Subject Code - 2T1
After completion of this course –

- The students will be aware about the importance of interaction in the family and society as a whole.
- The students will be able to apply practical knowledge regarding management.
- The students will be motivated to develop entrepreneurial competency.
- The students will gain knowledge regarding Government and Private Policies and Schemes for enterprise development.
- The students will be able to use time and motion techniques in daily life.
- The students will be motivated to understand the importance of leisure time and recreation in self-health.

Semester II Paper II (Major Course) Human Development Subject Code - 2T2

- Given the knowledge of ECCE students will be able to work as a preschool teachers.
- Given the knowledge of organization and management of preschool centres students will be able to start their own preschool.
- Given the knowledge of Puberty and Adolescence and their problems, students will be able to guide teenagers.
- Given the knowledge about Counselling Process, students will be able to work in the field of counselling.
- Given the knowledge about Guidance process, students will be able to work as a career counsellor.

Semester II Paper III (Major Course) Textile and Clothing Subject Code - 2T3
After completion of the course, students will be able to –

- Learn about general psychology and fashion in clothing.
- Apply Elements and principles of design and their application to clothing.
- Take body measurements and prepare standard body measurement chart.
- Prepare different bodice block and their application. They will get hands on knowledge of laying, cutting and stitching fabrics.
- Select clothing according to different types of Figure, age and occasion.
- To make best out of waste using renovation techniques.
- Acquire practical knowledge about garment fitting techniques.

Semester -II Paper-IV (Major Course) Subject Code 2T4 Consumer and the Market
After completion of the course students will be able to –

- Understand scope and subject matter of consumer economics.
- Become familiar with the economic systems.
- Understand basic concept of goods and services.
- Understand the meaning of consumption and human wants.
- Know about concept of Utility and law of diminishing marginal utility.

Semester II Paper - V (Elective) Garbh Sanskar Subject Code - 2E2
After completion of the course, student will be able to,

- Develop insight and analyze the different issues related to garbh.
- Develop Ability to manage the issues related to garbh.
- Create Awareness towards different rituals related to garbh sanskar.
- Learn the importance of different practices like yoga, music, other allied therapies (aroma therapy) related to garbh sanskar.
- Sensitized to issues related to mother and child care.

Semester II Paper - V (Elective) Guidance and Counselling -2E2

- Given knowledge of Guidance the students will be able to prepare plan for career guidance.
- Given knowledge of Educational guidance the students will be able to prepare themselves to assist in schools for providing career guidance.
- Given knowledge of Vocational guidance the students will be able to prepare a plan of action of vocational guidance.
- Given knowledge of areas of counselling the students will be able to prepare themselves to adopt the field of counselling at the end of the semester.
- Given knowledge of counselling skills the students will be able to prepare themselves to work in the field of counselling.

Semester III Paper - I (Major Course) Food and Nutrition Subject Code - 3T1
After successful completion of this paper students will be able to -

- Understand the health effects of all nutrients.
- Understand the process of Digestion, Absorption and Metabolism of the Macronutrients. Understand the purpose of modified diet in health care and will be able to plan, calculate and prepare diets for various diseases.
- Aware about various nutritional problems in India, their causes and Remedies.
- Understand the relationship between nutrition and health status of women and common health problems among women in India.
- Gain knowledge regarding various Schemes for improving health.
- Identify toxins in food, New Food and their importance.

Semester III Paper - II (Major Course) Family Dynamics Subject Code- 3T2

- Given the knowledge of the motives of marriage, students will be able to prepare for marriage. Given the knowledge of changing concepts of marriage, students will be able to prepare themselves accordingly to the changing concepts of marriage.
- Given the knowledge of laws of marriage, students will be aware of legal sides of marriage and divorce.
- Given the knowledge of family and family disorganization, students will be able to learn the family as an institution.
- Given the knowledge of family relationships, students will be able to enhance their relationship.

Semester III Paper - III (Major Elective Course) (1a) Home Science Extension Education Subject Code - 3T3
After completion of course, students will be able to,

- Understand the various career opportunities in the field of Home Science.
- Understand the methods of teaching Home Science and its application.
- Use the method of teaching Extension Education.
- Contribute their efforts as a Gram Sevika, Mahila Mandal, and Youth Club in Community development.
- Prepare them to work with NGOs.
- Ready to work in the field of Extension education.



Semester III Paper-III (Major Elective Course) (1b) Housing and Interior Subject Code - 3T3

After completion of the course students will be able,

- To utilize knowledge regarding the trends that affect housing in India.
- To understand and utilize the knowledge about the major factors that control and economize the cost of Housing.
- To create awareness regarding the housing schemes and housing conditions in India.
- To develop insight regarding principles and methods of creating attractive interiors.
- To gain and utilize knowledge of home loan and its procedure.
- To clear the concepts of housing legislations and by-laws of essential services.
- To inculcate and encourage them to use principles and methods to create attractive interior spaces.

Semester III Paper-IV Major Course Consumer and The Market Subject code - 3T4
After completion of course, students will be able to,

- Develop ability to be a wise consumer in students.
- Gain knowledge regarding the quality control department and labels.
- Gain knowledge about consumer protection Acts.
- Understand the role of consumer organization and co-operatives.
- Ready to conduct market research/survey.

Semester-III Paper -VI (Elective Course) Gender and Development Subject Code-3E3

- Given the knowledge of Gender development, students will be able to understand the concept of gender, its role.
- Given the knowledge of status of women, students will be able to prepare small projects on the same.
- Given the knowledge of violence against women, students will be able to organize workshops on the same.
- Given the knowledge of policies and programmes for women empowerment students will be able to take benefit of the schemes.
- Given the knowledge of support systems for women, students will be able to work with social organizations.

Semester-III Paper -V (Elective Course) Communication Technologies in Extension Subject Code- 3E3

- Given knowledge of communication systems, students will be able to prepare themselves to work in the mass communication field.
- Given knowledge of the media system, students will be able to adopt techniques of mass communication.
- Given knowledge of, Electronic Media students will be able to prepare themselves ready to work in electronic media.
- Given knowledge of, advertising students will be able to assist in advertising agencies.
- Given knowledge of mock interviews, students will be able to conduct interviews for research purposes.
- Given the overall knowledge of communication technology in extension, students will be prepared to appear for examinations in the field of extension.

Semester III Food and Nutrition Practical Subject Code 3P1
Semester- IV Paper - 1 (Major Course) Food and Nutrition Subject Code - 4T1
After successful completion of this paper students will be able to -

- Use various methods of cooking food accordingly.
- Implement knowledge about the various kinds of cereal and their role in cooking.
- Understand the role of egg, sugar, pulses, milk, fruits, vegetables and fats in cooking.
- Know about the various pigments in vegetables and fruits, their importance and effect of cooking methods.



Semester IV Paper - II (Major Course) Family Dynamics Subject Code - 4T2

- Given the knowledge of women in India, students will be able to understand the status of women in India.
- Given the knowledge of violence against women, students will be able to prevent any kind of violence.
- Given knowledge of problems of old age, students will be able to provide service in the old age homes.
- Given the knowledge of mental health and hygiene, students will be able to create awareness in the community.
- Given the knowledge of child guidance clinics, students will be prepared to work in child guidance clinics.

Semester IV Paper - III Major Elective Course (1a) Home Science Extension Education Subject Code - 4T3
After completion of course,

- Students will be able to understand the importance of adult education in National development.
- Students will be able to gain knowledge regarding the adult education programmes of India.
- Students will be able to work for the welfare programmes for rural women.
- Students will be motivated to develop leadership in extension education.
- Students will be able to work for population education and various family welfare programmes.

Semester IV Paper-III Major Elective Course -(1b) Housing and Interior Subject Code - 4T3
After completion of this course it will help the students,

- To utilize knowledge regarding the component of trends in interiors.
- To understand home furnishing and utilize the knowledge about it in interiors.
- To develop insight about wall treatment and methods of creating attractive interiors using various wall treatments.
- To create awareness regarding ecosystems of India and the effect of pollution on them.
- To inculcate in the students about the knowledge of environment management and natural resource management.
- To develop insight about garbage disposal and water conservation.
- To inculcate and encourage them to use principles and methods to create attractive interior spaces.

Semester IV Paper - V (Elective Course) Entrepreneurship Development Subject Code - 4E4
After successful completion of the students shall be able to-

- Understand the concept and importance of Entrepreneurship.
- Be aware of various entrepreneurships related to Home Economics.
- Gain knowledge about the opportunities for entrepreneurs in the rural and service sector.
- Gain knowledge about steps involved in project planning and implementation.

Semester IV Paper - V (Elective Course) FAMILY RELATIONS AND FAMILY WELFARE Subject Code-4E4

- Given the knowledge of marriage and alternatives to marriage, students will be able to make proper decisions about marriage in the future.
- Given the knowledge of family, students will be able to prepare themselves for the formation of family.
- Given the knowledge about children at risk, students will be able to work with NGOs working in the field of children related issues.
- Given the knowledge of counselling and family welfare students will be able to work in the field of counselling and family welfare.

# M. Tech Cosmetic Technology

## Program Outcome Master of Science Cosmetic Technology

The Two year Post graduate degree course leading to Master of Science Cosmetic Technology (permanently run on non-grant basis), affiliated to RTM Nagpur University Nagpur and recognized by University Grants Commission, New Delhi.

## Program Outcome

1) Being a professional course, the main aim is to develop professional, creative and skilled students for Cosmetic industry.
2) To develop the students who can work in all the streams of profession in the Cosmetic industry like Quality Control and Evaluation, Research and Development, Manufacturing, Packaging, Techno-Marketing of Cosmetics etc.
3) To use the technology for the betterment of society and self-employment as well.
4) The students study the regulatory affairs and Intellectual Property Rights to understand their responsibility towards citizens and society.
5) Students also study Research Methodology to carry out the research in scientific manner.
6) The Two year curriculum develops professionalism, leadership qualities and administrative capabilities in the student.
7) After the Post-graduation the students may pursue Research leading to Ph.D. programme as well as Post Ph. D Programme. This enables the students to work at higher position in the Academics and Industries.
8) As the course contents are modified and updated frequently this course is also at par with many educational institutions catering to similar courses abroad enabling our students getting admitted there for higher studies.
9) This course imparts qualities of understanding safety of health care products like cosmetics and inculcates the ability towards social responsibility, research and nation building.

## Course Outcome and Course Specific Outcome Master of Science Cosmetic Technology - Sem – I

Paper - 1 Formulation & Development (FD) Learn about the mechanisms and various techniques of preparing and developing advance formulations of cosmetic products like soaps, colour cosmetic, astringents and tonics, face packs etc.
Paper – 2 Quality Assurance Technique (QAT) Learn the importance of quality control in cosmetic preparations, its guidelines, ISO significance, validation of cosmetic manufacturing stability study of cosmetic and evaluation of raw material by proper analytical method using BIS standers.
Paper – 3 Elective – I Principles of Cosmetic Technology (PCT) Encompasses all the fundamental physical properties and concepts of cosmetic with their methods of determination and their effects on cosmetic products.
Paper -3 Elective – II Concepts In Cosmetic Technology (CCT) Covers all the concepts of cosmetics with respect to physical properties, methods of determination and their effects on cosmetic products.
Paper -4 Research Methodology (RM) To understand the basics of statistics and research hypothesis and application thereof in practice

## Course Outcome and Course Specific Outcome Master of Science Cosmetic Technology- Sem – II

Paper -1 Formulation & Development (FD) This subject aims to study all sort of sophisticated cosmetic preparations which include hair serum, deodorants, shaving and eye preparation, its formulation and development, study of various machineries used in plants, its process evaluation, plant location, site, factory building and scale-up of product to intermediate and large scale production.
Paper -2 Concepts and Principles in Cosmetics Technology (CPCT) Teaches all the fundamental physical properties and concepts of cosmetic ingredients with their methods of determination and their effect on cosmetic products.
Paper -3 Elective – I Statistics and Qualitative Techniques (SQT) To understand the concept of statistical measurement and application of hypothesis.
Paper -3 Elective –II Statistical Evaluation & Analysis (SEA) To understand the statistical evaluation and analysis and its application in research
Paper – 4 Natural Products (NP) Study of Natural ingredients for example herbs and other materials of

natural sources and their logical applications in cosmetic industries

## M. Sc. Biotechnology
## Semester - I

# Cell Biology, Enzymology and Genetics

## Course Outcomes:

CO1: Comprehend and correlate the structure and function relationship of cells, sub-cellular organelles, Cellular communication and Cell cycle.
CO2: Realize the basic concepts of Enzymology and Enzyme Kinetics.
CO3: Gain familiarity with the concept of Enzyme Engineering and immobilization.
CO4: Develop proficiency in the fundamental molecular principles of genetics and basics of genetic mapping

# Biomolecules

## Course Outcomes:

CO1: Gain insights into the biochemistry and diversity of Carbohydrates and their involvement in biological functions.
CO2: Comprehend the biochemistry and diversity of Lipids and lipoproteins
CO3: Recognize the importance of Protein structure function relationship and interaction
CO4: Demonstrate the understanding of nucleic acid structure and its dynamics.

## A) Clinical Research

### Course Outcomes:

COI: Analyze and evaluate the reporting and reviewing processes of clinical trials, including the role of legislation and good clinical practice.
CO2: Apply the principles of informed consent and ethical considerations in the context of clinical trial design and management.
CO3: Evaluate and address the ethical issues and challenges in clinical trials, including the use of humans in scientific experiments and the role of ethical committees.
CO4: Demonstrate an understanding of pharmacovigilance, research governance, and the process of trial closure.

## B) Nano biotechnology

### Course Outcomes

After successful completion of this Course, students will be able to:
CO 1. Gain insights into the multidimensional attributes of nanotechnology.
CO 2. Appreciate the importance of microelectronics in the field of life sciences.
CO 3. Develop new and exciting cross-disciplinary technologies.
CO 4. Demonstrate the knowledge application of nanotechnology for improving our everyday life.

## Research Methodology

### Course Outcomes

After successful completion of this Course, students will be able to:
CO 1. Appreciate and recognise the methods to arrive at research objectives
CO 2. Demonstrate the understanding about research and experimental designing
CO 3. Apply the principles of Biostatistics in Biotechnology research for validated depiction of research data.
CO 4. Acquire the knowledge of practices used for scientific reading, writing and presentations.



## M. Sc. Biotechnology Semester II

## Microbiology

### Course Outcomes

After successful completion of this Course, students will be able to:
CO 1. Gain insight into the structure and classification concepts for bacteria and archaea
CO 2. Appreciate and recognise major categories of microorganisms and viruses.
CO 3. Develop proficiency in principles of bacterial physiology and growth requirements.
CO 4. Identify and demonstrate how to control microbial growth.

## Molecular Biology
### Course Outcomes
After successful completion of this Course, students will be able to:
CO 1. Acquire knowledge of the fundamental concepts of DNA Replication, Mutations and Repair
CO 2. Evaluate the principle differences in the transcription mechanisms of prokaryotic and eukaryotic systems.
CO 3. Demonstrate the proficiency in regulatory aspects of transcription through classical experiments involved in it
CO 4. Relate the concepts of RNA modifications relayed into protein expression.

## A) Industrial Biotechnology
### Course Outcomes
After successful completion of this Course, students will be able to:
CO 1. Acquire understanding about the design and functioning of different types of bioreactors
CO 2. Develop knowledge of bio-processing methods and immobilization techniques
CO 3. Acquisition of the knowledge in process optimization strategies.
CO 4. Appreciate the importance of Downstream processing and Evaluate the production of Primary and Secondary Metabolite.

## B) Environmental Biotechnology
### Course Outcomes
After successful completion of this Course, students will be able to:
CO 1. Comprehend the basic principles of Environmental Science
CO 2. Recognise the importance of bioremediation
CO 3. Evaluate the functioning of technology involved in Waste water treatment
CO 4. Analyze the effects of recalcitrant compounds and study their biodegradation in environment.

# M. Sc. Biotechnology Semester III

## Immunology
### Course Outcomes:
CO1: Understand basic concepts of Immunology.
CO2: Appreciate and assess the various immunological techniques used for public health.
CO3: Apply their knowledge of immunological experiments to demonstrate innate, humora or cytotoxic T lymphocyte responses

## Biophysical Techniques
### Course Outcomes:
CO1: Remember and comprehend techniques and instrumentation involved in studying basic biological phenomenon focusing on Spectrophotometry, Chromatography, Electrophoresis, Centrifugation and radioactivity.
CO2: Evaluate the application of each technique in providing solution to biotechnological problems.

## Fundamentals of Genetic Engineering
### Course Outcomes:
CO1: Remember and understand fundamental concepts of Genetic Engineering
CO2: Illustrate and compare different techniques involved in Genetic Engineering
CO3: To develop an approach towards applications of molecular biology techniques in developing recombinant molecules.
CO4: To understand the concept of DNA sequencing

## A) Plant Biotechnology (Code: MBT3T11 A)
## OR
## B) Animal Biotechnology (Code: MBT3T11 B)
### Course Outcomes:
CO1: Remember and understand the concept of Plant Biotechnology
CO2: Differentiate between different plant tissue culture techniques
CO3: Comprehend different techniques to produce better crop via applying the principles of biotechnology
CO4: Understand concepts of Plant Metabolic Engineering.

## A) Animal Biotechnology (Code: MBT3T11 B)
### Course Outcomes:
CO1: Remember and Understand the Fundamental Concepts of Animal Cell Culture techniques
CO2: Understand different approaches and techniques involved in creating transgenic animals
CO3: Understand and envision the future Commercial aspects of Animal Cell culture.

## Research Project (RP) Minor (Code: MBT3P07)
### Course Outcomes:
CO1: Attain in-depth knowledge of the chosen area of research.
CO2: Develop competence in research design and planning.
CO3: Be able to create, analyse and critically evaluate different technical solutions.
CO4: Develop ability to conduct research independently.
CO5: Be able to perform analytical techniques/experimental methods.
CO6: Develop report writing & communication skills.

# M. Sc. Biotechnology Semester IV

## Applied Molecular Biology
### Course Outcomes:
CO1: Gain knowledge of Recombination and Genome Mapping and its application in Biotechnology
CO2: Comprehend the concept of Antisense, Ribozymes and Epigenetics and their application
CO3: Understand the importance of Polymerase chain reaction and its application in biotechnology
CO4: Understand basic concept of Cancer Biology and stem cells.

## Genetic Engineering and Its Application
### Course Outcomes:
CO1: Understand the concepts of Prokaryotic and Eukaryotic Transformation
CO2: Describe the expression of heterologous genes and the vectors involved in it.
CO3: Appreciate technology involved in industrial products of Protein engineering.
CO4: Explain and illustrate techniques like Phage display, gene therapy and transgenic.

## Bioinformatics
### Course Outcomes:
CO1: Locate and use the main databases at the NCBI and EBI resources.
CO2: Know the difference between databases, tools, repositories and be able to use each one to extract specific information.
CO3: Use selected tools to run simple analyses on genomic sequences.
CO4: Understand the importance of protein modelling and protein structure prediction

## Agriculture Biotechnology OR Paper 15B: Medical Biotechnology
## Paper 15A: Agriculture Biotechnology (MBT 4T15A)
### Course Outcomes:
CO1: Learn and gain knowledge about applications of biotechnology in the field of Agriculture
CO2: Understand the importance of Genetic Engineering and Recombinant DNA Technology in crop improvement and crop protection

CO3: Understand the importance of advanced techniques in the field of agriculture.

## Paper 15 B: Medical Biotechnology (MBT 4T15B)

### Course Outcomes:

CO1: develop an ability to identify, organize and answer problems in Medical Biotechnology
CO2: understand the cellular and molecular pathogenesis of the various disease
CO3: understand molecular and cytological causes for various genetic disorders
CO4: understand various current diagnostics methods and therapies
CO5: develop novel diagnostic methods and therapeutics
CO6: Appreciate the importance of tissue engineering and stem cell technology.

## Research Project (RP) Major

### Course Outcomes:

CO1: Develop the aptitude to work on a scientific problem and look for alternative solution
CO2: Understand and apply the scientific method.
CO3: Develop the critical thinking ability and communication skills.
CO4: Write their finding in the form of a thesis and defend it by presenting it in front of their teachers and examiners.
CO5: Experience and embrace the habit of ethical practice in performing experiments and communicating them

# M. Sc. Human Development

**PROGRAMME OUTCOMES:**

**On the successful completion of the programme, the students will be able to**

(i) Demonstrate the sound theoretical foundation in theories of human development and research knowledge of human development such as theories of behaviour and development, life span development, psychological testing, research methods, statistical applications, issues of early childhood education, family counselling & family therapy, fostering creativity, early stimulation and crèche management, learning disability and communication disorders and guidance & counselling.
(ii) Able to display skills necessary to apply in guidance and counselling, family counselling and family therapy, psychological testing, entrepreneurship and management of crèches and pre-school.
(iii) Critically evaluate and appraise different theories of behaviour and development, perspective of family studies and various approaches and techniques in counselling and family therapy.
(iv) Exhibit professional and ethical values in human development as a profession.
(v) Imbibes the importance of scientific temperament and research in the mind of the students.

## SEMESTER – I

## METHODS OF CHILD STUDY(DSC)

### Course Outcomes:

- At the end of the course the student will be able to:
- Construct the psychological tools.
- Use knowledge to make tools more reliable and valid.
- Gain knowledge regarding test selection criteria and value professional and personal ethics in psychological testing.

## EARLY CHILDHOOD CARE AND EDUCATION (DSC)

### Course Outcomes: At the end of the course the student will be able to:

- Apply different types of curriculum approaches at preschool level.
- Acquire the skills for organization and administration of ECCE Centre
- Evaluate need of training in ECE set-up



- Estimate assessment and monitoring at preschool set-up.
- Gain the knowledge and insight regarding concerns related ECCE

- Develop the skills and techniques to plan activities in ECCE center of different types, to conduct activities in ECCE Centre and to conduct parent education.

## Elective-1- EARLY STIMULATION AND CRECHE MANAGEMENT (DSE)

**Course Outcomes: At the end of the course the student will be able to:**

- Demonstrate an understanding of the methodological issues related to infant assessment and to identify the infants at risk conditions
- Acquire the skills of conducting multisensory stimulating activities for promoting the developments of infants
- Make them aware of the managerial, supervisory and administrative skills in working of crèches.

## Elective-2-CHILD AND HUMAN RIGHTS (DSE)

**Course Outcomes: At the end of the course the student will be able to:**

- Identify the health status of children in India.
- Draft the legal safeguards for Indian children.
- Appraise the role of NGOs in child right protection.
- Formulate the child right perspective in view of children

## RESEARCH METHODOLOGY (RM)

**Course Outcomes: At the end of the course the student will be able to:**

- Understand the significance and research methodology in Home Science research.
- Demonstrate knowledge and skills to compute and incorporate most suitable statistics.
- Demonstrate competence in research designs and interpretations.
- Understand and apply the appropriate technique for the measurement scale and design.

## LIFE SPAN DEVELOPMENT-I (DSC)

**Course Outcomes: At the end of the course the student will be able to:**

- Articulate issues impacting human development.
- Organize knowledge and nature of various developmental changes from prenatal period to adolescence.
- Use the skills to manage issues at the time of birth and immediately after the birth.

## THEORIES OF GROWTH AND DEVELOPMENT(DSC)

**Course Outcomes: At the end of the course the student will be able to:**

- Relate to various developmental theories and perspectives.
- Critically appreciate theories of behavior and development.
- Understand the practical application of personality theories.

## SPECIAL CHILDREN(DSC)

**Course Outcomes: At the end of the course the student will be able to:**

- Appreciate the special needs of children with different disabilities and disorders;
- Gain insights into the causes of disability and disability and in children, and into their prevention and treatment;
- Sensitized to the similarities and differences between disabled and non-disabled children.



## Elective 1- STATISTICAL ANALYSIS IN HUMAN DEVELOPMENT (DSE)

**Course Outcomes: At the end of the course the student will be able to:**

- Understand the types, tools and methods of research and develop the ability to construct data gathering instruments appropriate to the research design.
- Use and interpret results of descriptive and inferential statistical methods effectively.
- Learn the skills of data analysis using statistical software and communicate the results of statistical analyses accurately and effectively.

## Elective-2-DATA ANALYSIS AND COMPUTER APPLICATION (DSE)

**Course Outcomes: At the end of the course the student will be able to:**

- Select from, use and interpret results of descriptive and inferential statistical methods effectively.
- Learn the skills of data analysis using statistical software and communicate the results of statistical analyses accurately and effectively.

## Practical-7-LIFE SPAN DEVELOPMENT-II (DSC)

**Course Outcomes: At the end of the course the student will be able to:**

- Articulate issues impacting human development.
- Demonstrate the knowledge of midlife crisis and address the issues.

## GUIDANCE AND COUNSELLING (DSC)

**Course Outcomes: At the end of the course the students will be able to:**

- Locate relevance of guidance and counselling.
- Develop competencies and skills to use counselling approaches in counselling.
- Critically evaluate and appraise various counselling techniques.
- Exhibit professional or ethical behaviour.

## FOSTERING CREATIVITY (DSC)

**Course Outcomes: At the end of the course the students will be able to:**

- Understand the relevance and scope of studying creativity.
- Discuss the concept of creativity and various approaches to its study.
- Understand the role of the individuals, the context and socialization in developing creativity.
- Apply psychometric measurement and alternate ways of assessing creativity.

## Elective- 1- PSYCHOLOGICAL DISORDERS (DSE)

**Course Outcomes: At the end of the course the students will be able to:**

- Describe the diagnosis and classification process
- Identify different personality disorders
- Discuss the characteristics and traits associated with different psychological disorders.

## Elective-2- MENTAL HEALTH IN DEVELOPMENTAL PERSPECTIVE (DSE)

**Course Outcomes: At the end of the course the students will be able to:**

- Acquire skills to organize awareness programmes to the parents and teachers to deal children with mental health problems.
- Identify the need for guidance and intervention to the children with mental health problem.
- Develop skills of organizing mental health programme in community.
- Demonstrate knowledge to understand the mental health policy of India.



## Practical 10-LEARNING DISABILITY AND COMMUNICATION DISORDERS

**(DSC)**

**Course Outcomes: At the end of the course the students will be able to:**

- Categorize children with communication and learning disabilities.
- Understand causes and prevention of disabilities.
- Employ the special education methods.

## FAMILY COUNSELLING AND FAMILY THERAPY (DSC)

**Course Outcomes: At the end of the course the students will be able to:**

- Able to justify the need of family counselling and family therapy
- Discover the social change and changing patterns of families
- Integrate family issues across life cycles of the family
- Formulate counselling session according to the family crisis and various stressful events taking place in the family
- Critically analyze theoretical perspectives in family counselling.

## POSITIVE PSYCHOLOGY AND EFFECTIVE PARENTING (DSC)

**Course Outcomes: At the end of the course the students will be able to:**

- Acquire skills of parenting and identify the facilitating and debilitating factors for positive parent-child relationship.
- Understand the elements of positive psychology.
- Understand the significance of parent's role in early childhood.
- Learn to conduct parent education programmes.

## Elective-1-CHALLENGES AND CARE OF ELDERLY (DSE)

**Course Outcomes: At the end of the course the students will be able to**

- Sensitize to the issues of the elderly.
- Understand the theoretical perspective of the aging process.
- Develop skills for organizing activities and effective interventions for the elderly.

## Elective-2-CHILD AND FAMILY WELFARE (DSE)

**Course Outcomes: At the end of the course the students will be able to**

- Understand the purpose, scope and challenges in the management of programmes for children and families.
- Understand the various approaches to programme management.
- Work with children & families in different settings.
- Organize, implement & evaluate programmes for children & family.
- Critically evaluate & review programme models.

## Practical-13- CURRICULUM FOR ECE (DSC)

**Course Outcomes: At the end of the course the students will be able to**

- Cultivate theoretical insight into developing learning environment in the classroom where children can play, learn and be happy.



- Develop skills in planning and executing the developmentally appropriate activities.

## Practical-14- LIFE SKILLS (DSC)

## Course Outcomes: At the end of the course the students will be able to

- Understand the basic concept and core life skills, theoretical perspectives and practical strategies of life skills education.
- Understand how life skills education promotes positive social and mental health of individuals that plays an important role in all aspects of life.

### 2.4 Master of Fashion Design

M.Sc. (FASHION DESIGN)-SEMESTER III PAPER-8 ENVIRONMENTAL FASHION DESIGN MFD3T08

COURSE OUTCOME
After successful completion of this course students will be able to: - 1. Understand the Responsibility of the designer who will understand the impact of her activities on the environment 2. Create better living conditions keeping in mind the need to save the environment 3. Aware of the importance of designing for sustainability 4. Understand the certification of environmentally friendly products.

M.Sc.(FASHION DESIGN)-SEMESTER III PAPER-9 FILM AND THEATER COSTUME MFD3T09
COURSE OUTCOME
After successful completion of this course students will be able to: - 1. Understand the history and process of costume designing 2. gain knowledge on types of stages of theatre, trimmings and decoration for costume development 3. watch the films to understand the costume and its components 4. Analyse theatre costumes.

M.Sc.(FASHION DESIGN)-SEMESTER III PAPER-10 ELECTIVE 1. APPAREL MANUFACTURE TECHNOLOGY MFD3T10
COURSE OUTCOME
After successful completion of this course students will be able to :- 1. Understand the processes of garment manufacturing industry 2. Gain knowledge on types of machines used in RMG 3. learn the production process of RMG 4. Relate worker and work of industry.

M.Sc.(FASHION DESIGN)-SEMESTER III PAPER-10 ELECTIVE 2. ETHNIC TEXTILES MFD3T10
COURSE OUTCOME
After successful completion of this course students will be able to: 1. understand different hand crafted textiles of India and Globe 2. Preserve and promote these textiles and revive the indigenous art of fabric making 3. Use these textiles to create innovative garments 4. Gain knowledge of significant development in the production of textile in the world 5. Understand the international textiles of historical significance that influenced other cultures and civilizations.

M.Sc.( FASHION DESIGN)-SEMESTER III PRACTICAL 8 RESEARCH PROJECT (MINOR) MFD3P08
COURSE OUTCOME
After successful completion of this course students will be able to: - 1. Know the method of doing research in fashion 2. study the step-wise process of making a design collection 3. Explore the different ideas and concepts applicable for fashion research by selecting a theme for collection 4. implement design ideas for a collection in actual practice.

M.Sc.(FASHION DESIGN)-SEMESTER III PRACTICAL 9 FABRIC MANIPULATION AND ADORNMENT MFD3P09



COURSE OUTCOME
After successful completion of this course students will be able to :- 1. Develop garments manipulating fabric 2. Construct garments using adornment techniques 3. Create innovative garments using techniques of fabric manipulation 4. Design garments using a combination of

fabric manipulation and adornment techniques.

M.Sc.(FASHION DESIGN)-SEMESTER III PRACTICAL 10 FILM AND THEATER DRAPES MFD3P10.
COURSE OUTCOME
After successful completion of this course students will be able to :- 1. Handle and construct garments using different textures 2. learn to combine silhouette and texture for the required character of film, theatre, and television serial 3. drape costume as given in film, theatre, television serial 4. develop and construct designs of costumes based on the theme of given film, theatre, television serial.

M.Sc.(FASHION DESIGN)-SEMESTER III PRACTICAL 11 MAKE-UP & STYLING MFD3P11
COURSE OUTCOME
After successful completion of this course students will be able to :- 1. understand categories of make-ups and cosmetics 2. do fashion and glamour make-ups with practice 3. equip themselves in fashion styling 4. develop skills in fashion styling techniques using their creativity.

M.Sc.(FASHION DESIGN)-SEMESTER IV PAPER-11 CONCEPTUAL DESIGN DEVELOPMENT MFD4T11
COURSE OUTCOME
After successful completion of this course students will be able to :- 1. study Indian designers and innovative themes 2. study International designers and different fashion looks 3. gain knowledge on couture designers and different fashion boards 4. experiment with line collection and presentation techniques.

M.Sc.(FASHION DESIGN)-SEMESTER IV PAPER-12 E-MARKETING & MERCHANDISING MFD4T12
COURSE OUTCOME
After successful completion of this course students will be able to :- 1. made aware of the advantages of e- marketing concept and process of online marketing 2. imbibe the basic conceptof fashion merchandising and its principles in fashion 3. understand the concept of visual merchandising and the factors affecting store success 4. have complete understanding of store display and window display.

M.Sc.(FASHION DESIGN)-SEMESTER IV PAPER-13 ELECTIVE 1. FASHION FORECASTING MFD4T13
COURSE OUTCOME
After successful completion of this course students will be able to :- 1. understand the terminology of fashion forecasting 1. learn the factors influencing fashion forecasting processes 2. carry out action of fashion forecasting in colour & textiles 3. know the process of updating themselves in the design process of fashion forecasting through research work.

M.Sc.(FASHION DESIGN)-SEMESTER IV PAPER-13 ELECTIVE 2. GLOBAL FASHION TREND MFD4T13
COURSE OUTCOME
After successful completion of this course students will be able to :- 1. gain knowledge on the global scenario of fashion trends 2. identify the different fashion markets in terms of trends 3. understand the global nature of the fashion industry and how culture affects / provide inspiration to the continuously changing industry 4. appreciate stages of the fashion cycle globally.

M.Sc.(FASHION DESIGN)-SEMESTER IV PRACTICAL-12 RESEARCH PROJECT (MAJOR) MFD4P12
COURSE OUTCOME

After successful completion of this course students will be able to :- 1. study in detail the design development process of a collection in detail 2. interpret the research work in doing a collection on a theme 3. evaluate the work done in a collection 4. state the limitations and recommendations of the work on a particular theme.

M.Sc.(FASHION DESIGN)-SEMESTER IV PRACTICAL-13 CONCEPTUAL DESIGN DEVELOPMENT MFD4P13
COURSE OUTCOME
After successful completion of this course students will be able to :- 1. design and construct knockoffs of Indian designer 2. design and construct knockoffs of International designer 3. implement nuances of couture stitching 4. to prepare khaka for embroidery.

M.Sc.(FASHION DESIGN)-SEMESTER IV PRACTICAL-14 FASHION ACCESSORY DESIGN MFD4P14 Total Marks:25 Internal: 25 Marks Credits: 2 COURSE OUTCOME After successful completion of this course students will be able to :- 1. gain knowledge on history of fashion accessories 2. study different types of accessories 3. know the materials used for accessories 4. Know the materials used for jewellery.

M.Sc.(FASHION DESIGN)-SEMESTER IV PRACTICAL-15 FASHION SHOW MANAGEMENT MFD4P15
COURSE OUTCOME
After successful completion of this course students will be able to :- 1. gain knowledge on fashion shows, its type and techniques 2. management of time, expenses, light with sound and technique of presentation 3. promote the fashion show planned 4. handle the choreography, cat walk with music for the planned show.

**2.5 Master of Home Science Extension Education**
**Programme Outcomes**
On the successful completion, the student will be able to:
● Display skills necessary for community development by the use of Extension teaching methods. Solving community people's problems by using their available resources and imparting skills necessary for change.
● Critically evaluate communication methods and medium and to effectively use them in accordance with the situation, condition and audience.
● Exhibits professional and ethical value as a change agent and community leader for people's participation, co-operation and co-ordination in various developmental programmes which will benefit the community and nation at large.
● Imbibes the importance of scientific research in various subjects related to community development. This can be done to solve people's problems and difficulties. Solutions and recommendations can be given for their welfare.

SEMESTER - I COMMUNICATION TECHNOLOGY Subject Code: DCS- MEE1T01
Course Outcome: At the end of the course the student will be able to: 1. Develop an understanding about the concept of communication systems. 2. Understand the theories of communication. 3. Study the types of Media and their features.

SEMESTER - I COMMUNITY HEALTH Subject Code: DSC- MEE1T02 Periods:
Course Outcome: At the end of the course the student will be able to: 1. Comprehend the meaning of community health. 2. Develop understanding regarding community health care andits needs. 3. Develop understanding regarding family planning services in India & its different methods.

SEMESTER-I SUSTAINABLE DEVELOPMENT APPROACH (ELECTIVE-I) Subject Code: DSE-MEE1T03
Course Outcome: At the end of the course the student will be able to: 1. Understand the concept of sustainability and development. 2. Understand the consequences of urbanization. 3. Understand the relationship between people's participation and a healthy environment. 4. Understand Indian Laws framed for environment protection.



SEMESTER-I COMMUNITY DEVELOPMENT AND SOCIOLOGY (ELECTIVE II) Subject Code: DSE- MEE1T03
Course Outcome: At the end of the course the student will be able to: 1. Enable students to

understand different types of communities in India. 2. Develop understanding of the factors contributing to changes in communities. 3. Get acquainted with rural / urban / tribal problems and ongoing development programmes.

SEMESTER-I EQUIVALENT MOOC COURSE (ELECTIVE III) Subject Code: DSE MEE1T03
SEMESTER - I RESEARCH METHODOLOGY Subject Code: RM-MEE1T04
Course Outcome: At the end of the course the student will be able to: Understand the significance and research methodology in Home Science research. Understand the types, tools and methods of research and develop the ability to construct data gathering instruments appropriate to the research design. Understand and apply the appropriate technique for the measurement scale and design.

SEMESTER-I PRACTICAL COMMUNICATION TECHNOLOGY Subject Code: DSC-MEE1P01
SEMESTER-I PRACTICAL COMMUNITY HEALTH Subject Code: DSC-MEE1P02
SEMESTER-I PRACTICAL CURRENT TRENDS IN EXTENSION EDUCATION Subject Code: DSC- MEE1P03

SEMESTER-II MEDIA TECHNOLOGY FOR COMMUNICATION Subject Code: DSC MEE2T05
Course Outcome: At the end of the course the student will be able to: 1. Develop understanding of communication media. 2. Enhance the versatility of the students in selection and use of media. 3. Comprehend the concept of mass media and its applications and use.

SEMESTER-II COMMUNITY HEALTH EDUCATION TECHNIQUES Subject Code: DSC MEE2T06
Course Outcome: At the end of the course the student will be able to: 1. Understand National, State and Local nutritional problems. 2. Appreciate national and international contribution towards nutritional improvement in India. 3. Be familiar with various approaches to nutrition and health interventions, programmes and policies. 4. Develop understanding the scope of family planning, services in India and the different methods of family planning.

SEMESTER-II STATISTICAL ANALYSIS IN EXTENSION EDUCATION (ELECTIVE-I) Subject Code: DSE- MEE2T07
Course Outcome: At the end of the course the student will be able to: Understand the significance and research methodology in Home Science research. Understand the types, tools and methods of research and develop the ability to construct data gathering instruments appropriate to the research design. Understand and apply the appropriate technique for the measurement scale and design.

SEMESTER-II DATA ANALYSIS AND COMPUTER APPLICATIONS (ELECTIVE-II) Subject Code: DSE-MEE2T07
Course Outcome: At the end of the course the student will be able to: Understand the significance and research methodology in Home Science research. Understand the types, tools and methods of research and develop the ability to construct data gathering instruments appropriate to the research design. Understand and apply the appropriate technique for the measurement scale and design.

SEMESTER-II EQUIVALENT MOOC COURSE (ELECTIVE III) Subject Code: DSE MEE2T07
SEMESTER-II ON JOB TRAINING/FIELD PROJECT (INTERNSHIP) Subject Code: OJT-MEE2P04
SEMESTER-II PRACTICAL MEDIA TECHNOLOGY FOR COMMUNICATION Subject Code: DSC- MEE2P05
SEMESTER-II PRACTICAL COMMUNITY HEALTH EDUCATION TECHNIQUES Subject Code: DSC- MEE2P06
SEMESTER-II PRACTICAL SOCIAL WELFARE Subject Code: DSC- MEE2P07

SEMESTER - III NON-FORMAL EDUCATION Subject Code: DSC- MEE3T08
Course Outcome: At the end of the course the student will be able to: 1. Develop the concept of Non - Formal Education. 2. Understand the need for Non-Formal Education for National Development. 3. Develop ability to plan Non - Formal Education Programmes. 4. Develop knowledge of Adult Education.

SEMESTER - III DIFFUSION OF INNOVATIONS Subject Code: DSC- MEE3T09
Course Outcome: At the end of the course the student will be able to: 1. Develop understanding regarding core elements of diffusion and status of diffusion. 2. Understand attributes of innovation and generation of innovation. 3. Study innovation decision process and diffusion networks. 4. Develop an understanding regarding opinion leaders and change agents and consequences of innovation.

SEMESTER-III HUMAN RIGHTS OF WOMEN AND CHILDREN (ELECTIVE-I) Subject Code: DSE- MEE3T10
Course Outcome: At the end of the course the student will be able to: 1. Understand the need for human rights. 2. Understand the types of violence against women. 3. Study the strategies of women empowerment in India. 4. Comprehend the areas where children's rights are violated. 5. Develop understanding of the right to privacy of women in mass media.

SEMESTER-III POPULATION EDUCATION (ELECTIVE-II) Subject Code: DSE- MEE3T10
Course Outcome: At the end of the course the student will be able to: 1. Understand the basic concept of population education. 2. Acquire knowledge on factors affecting the population. 3. Learn the methods & approaches for population education. 4. Understand the effect of population explosion on the environment.

SEMESTER-III EQUIVALENT MOOC COURSE (ELECTIVE III) Subject Code: DSE MEE3T10
SEMESTER-III PRACTICAL NON-FORMAL EDUCATION Subject Code: DSC- MEE3P08
SEMESTER-III PRACTICAL DIFFUSION OF INNOVATIONS Subject Code: DSC-MEE3P09
SEMESTER-III PRACTICAL GOVERNMENT PROJECTS & SCHEMES Subject Code: DSC MEE3P10
SEMESTER-III RESEARCH PROJECT-(DESIGN) REVIEW OF LITERATURE & PRESENTATION Subject Code: RP- MEE3T11

SEMESTER - IV DISTANCE EDUCATION Subject Code: DSC- MEE4T11
Course Outcome: At the end of the course the student will be able to: 1. Understand the need of distance education for National Development. 2. Develop understanding regarding curriculum development. 3. Comprehend the different programmes of distance education. 4. Develop understanding regarding methods & concepts of guidance and counselling.

SEMESTER - IV ADOPTION OF INNOVATIONS Subject Code: DSC- MEE4T12
Course Outcome: At the end of the course the student will be able to: 1. Develop understanding regarding Adoption process and rate of adoption. 2. Understand Motivation and Adoption. 3. Study Adopter categories and characteristics of Adopters. 4. Develop understanding regarding barriers to adoption.

SEMESTER-IV GENDER EQUITY & SOCIETY (ELECTIVE-I) Subject Code: DSE MEE4T13 Course Outcome: At the end of the course the student will be able to: 1. Appreciate gender as a socio-cultural constraint. 2. Create awareness of the gender biases and barriers that prevail in society. 3. Develop sensitivity regarding the socio-economic and political factors that determine life experiences in relation to gender. 4. Become aware of the need for proactive approach and empowerment to attain and maintain equality.



SEMESTER-IV PROGRAMME PLANNING & BUILDING IN EXTENSION (ELECTIVE-II) Subject Code: DSE-MEE4T13
Course Outcome: At the end of the course the student will be able to: 1. Understand the concept

of programme planning. 2. Understand the need for a plan of work. 3. Understand the concept of administration & coordination. 4. Understand the need for evaluation of extension programmes.

SEMESTER-IV EQUIVALENT MOOC COURSE (ELECTIVE III) Subject Code: DSE MEE4T13
SEMESTER-IV PRACTICAL DISTANCE EDUCATION Subject Code: DSC-MEE4P12
SEMESTER-IV PRACTICAL ADOPTION OF INNOVATIONS Subject Code: DSC- MEE4P13
SEMESTER-IV PRACTICAL APPROACHES FOR EDUCATION Subject Code: DSC MEE4P14
SEMESTER - IV RESEARCH PROJECT-MAJOR Subject Code: RP-MEE4P15

**2.6 Post Graduate Diploma in Fashion Technology**

**M.Com.**

**M.COM (BUSINESS STUDIES)**

**Program Specific Outcomes**
PSO 1 - Develop necessary professional knowledge and skills in in various functional areas of business and commerce
PSO 2 - Demonstrate the ability to apply various theories of business management to solve business problems
PSO 3 - Demonstrate effective oral and written business communication
PSO 4 - Implement traditional and modern strategies and practices of business management, business economics and allied areas
PSO 5 - Develop competency in students to make them employable in the corporate world

**Course Outcomes**
**Semester – I**
**Organization Behaviour**
Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to -
CO 1 - To learn and understand Organization Behaviour theories and be able to apply them in business organization
CO 2 - Compare and contrast job enlargement with job enrichment
CO 3 - Evaluate roles of conflicts, power and politics in determining group behaviour
CO 4 - Identify determinants of organization culture

**Business Laws**
Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to
CO 1 - To learn and understand various provisions of Business laws, and its application
CO 2 - Analyze the provisions of Contract Act in context of business organizations
CO 3 - Analyze the provisions of Indian Negotiable Act
CO 4 - Evaluate the implications of provisions of Cyber Laws
**Managerial Economics**
Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to -
CO 1 - Distinguish between the domains of micro and macroeconomics and their applications in business world
CO 2 - Determine factors affecting demand for a particular commodity and be able to ascertain demand in a given condition
CO 3 - Identify various elements of cost and relate the same with output and revenue under a given market condition

CO 4 - Determine the factors causing business cycles and be able to identify the business cycle stage with given economic indicators

**Fundamentals of Financial Management**

Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to -
CO 1 - Determine the working capital requirement for an organization in a given situation
CO 2 - Calculate Weighted Average Cost of Capital for a given Debt-Equity Mix
CO 3 - Analyze the impact of capital structure on profitability of organization
CO 4 - Select the appropriate investment option from a given choice to ensure maximum profit

**International Business**
Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to -
CO 1 - Determine factors international business environment
CO 2 - Critically evaluate International Trade Theories
CO 3 - Analyze impact of globalization on international business of a developing economy under a given foreign trade policy
CO 4 - Evaluate the role of developing countries in Regional Economic Integration

**Research Methodology**
Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to -
CO 1- Formulate a research problem and identify appropriate research design for a specific research problem
CO 2 - Construct a data collection tool and identify appropriate processing tools for verification of hypothesis
CO 3 - Articulate research findings and be able to present the findings in research report
CO 4 - Understand various dimensions related to Intellectual Property Rights

**Semester – II**

**Indian Financial System**
Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to -
CO 1 - Compare and Contrast roles of various components of financial system
CO 2 - Analyze the role of banks with respect to credit creation and assess impact on economic development
CO 3 - Assess the impact of privatisation of insurance companies on penetration of insurance products
CO 4 - Evaluate the role of regulatory bodies in capital market operations

**Company Law**
Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to -
CO 1 - Exemplify the procedure for formation of a company
CO 2 - Compare and Contrast the provisions regarding issue of equity share capital with preference share capital
CO 3 - Draft a notice and agenda for Annual General Meeting
CO 4 - Understand provisions related to appointment of directors and auditors

**Project Management**
Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to -
CO 1 - Determine the factors of project environment and list out the essentials of project management
CO 2 - Determine the optimum capital structure for a project
CO 3 - Evaluate applicability and efficiency various control tools for effective project management
CO 4 - Design and demonstrate the project execution plan for a given project

**Advanced Financial Management**
Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to -
CO 1 - Prepare a Cash Budget and determine optimal cash balance in a given situation
CO 2 - Determine various costs of receivables & payables and frame cost-effective Receivables Management Policy
CO 3 - Prepare a Cash Flow Statement of an organization for a given situation
CO 4 - Analyze the impact of dividend decisions under various dividend payout and retention ratios

**Basics of GST**
Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to -
CO 1 - To learn and understand GST Law, and its application
CO 2 - Determine the value of taxable goods and services and Input Tax Credit
CO 3 - Understand provisions related to compliances under GST Act
CO 4 - Understand provisions related to demand and appeals

## M.COM (ACCOUNTING AND TAXATION)

**Program Specific Outcomes**
PSO 1 - The student will be able to apply professional knowledge of accounting and taxation in real life business situations
PSO 2 - The student will be able to interpret and analyse the financial statements
PSO 3 - The student will be able to demonstrate effective oral and written business communication
PSO 4 - The student will be able to implement traditional and modern strategies and practices of costing, management, auditing and taxation
PSO 5 - Develop competency in students to make them employable in the accounting and taxation industry

**Course Outcomes**

**Advanced Financial Accounting -1**
C01 - Student will be able to gain knowledge about Computer Software Accounting, and will be able to amount of Insurance claim.
CO2 - Student will be able be aware of Hire Purchase system and instalment system.
C03 - To develop competency of students to solve problem in accounting for Service Sector.
C04 - To develop competency of students to solve problem in accounting for non-profit organization.

**Advanced Cost Accounting**
CO1 - Student will be able the gain knowledge about classification of cost, methods and techniques, and student will be able to calculate the cost of goods.
CO2 - To familiarizes the student for process account.
CO3 – Student will be able to calculate the profit on contract.
CO4 - Student will be able to evaluate the reconciliation of cost and Financial Accounting

**Indian Financial System**
CO1 - Students will be able to understand various components of Formal Financial System
CO2 - Students will be able to acknowledge the definition of Banking and creation of money banking System.
CO3 - Students will be able to understand the basics of Insurance and components related to it.
CO4 - Students will have the knowledge of process of creating funds in Capital Market.

**Advanced Statistical Techniques**
CO1 - Students will develop an understanding of basic Statistical decision making and analyze the significance.
CO2 – Students will be able to understand Statistical quality control and will also be able to draw association of attributes and F test.
CO3 - Students will be able to understand Analysis of time series and will also be able to calculate probability.
CO4 - Student will be able to perform regression analysis, interpolation and also know their usages.

**ADVANCED AUDITING**
CO1 - To impart knowledge of Auditing such as Audit programs, Vouching, Verification, and Valuation.
CO2 - To understand the significance of using computers in the Audit program.
CO3 - To provide hands-on training in Auditing of a Limited Company.
CO4 - To understand the Management Audit and different firms Audit

**Research Methodology**
Course Outcomes (COs)/Learning Outcomes: On successful completion of this course, the learner will be able to -
CO 1- Formulate a research problem and identify appropriate research design for a specific research problem
CO 2 - Construct a data collection tool and identify appropriate processing tools for verification of hypothesis
CO 3 - Articulate research findings and be able to present the findings in research report
CO 4 - Understand various dimensions related to Intellectual Property Rights

**ADVANCED FINANCIAL ACCOUNTING-II**
C01-To understand the concept of corporate restructuring, its accounting methods.
CO2-To understand the concept of corporate Reconstruction, its accounting methods.
CO3 -To understanding the Consolidation of Financial Statements of Holding Companies & two Subsidiary Companies.
CO4- To Prepare Statement of Affairs of the Companies in Liquidation

**COST CONTROL AND ANALYSIS**
CO1- Familiarize the students with the basic cost allocation and control of various cost and method of costing.
CO2-Explain the classification of cost, methods and techniques, and student will be able to calculate the cost of goods.
CO3-Student will be able to allocate overheads on the basis of Activity Based Costing.
CO4-Student will be able to skills in computation and analysis of various variances.

**FINANCIAL ANALYSIS AND CONTROL**
CO1-Students will develop an understanding of basic financial analysis.
CO2-Students will be able to analyze the Balance Sheets to interpret the business's financial situation.
CO3-Students will be able to use financial analysis and control tools in the future.
CO4-By providing knowledge of various capital budgeting techniques, students will be able to understand the tools required to manage risks, make wise investment decisions, and achieve financial goals.

**ADVANCED FINANCIAL MANAGEMENT**
CO1-Student will understand the use of various tools, techniques and methods of Financial Management.
CO2-Student will be able to sharpen their critical thinking about working capital management.
C03-Student will understand the methods & computation of cash Management.
C04-Student will be able to sharpen their decision making about Debtors, Creditors and Inventory Management.

**BUSINESS ETHICS AND CORPORATE SOCIAL RESPONSIBILITY**
CO1-To familiarize the learners with the concept and relevance of Business Ethics in the modern era.
CO2-To analyse ethical aspect in finance. To get aware about the consequences of unethical behaviour in finance.
CO3-To trace the historical evaluation of CSR. To analyses the factors affecting the growth of CSR. To learn the arguments in favor and against CSR.
CO4-To analyze the provision for Corporate Social Responsibility in Companies Act2013
CO 5-To summarize CSR as Strategic business tool for sustainable development.