

Outcomes

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1. Faculty of Humanities and Social Sciences

Programme: Bachelor of Arts (3 year - semester pattern)

Program Outcomes:

| S. No | Program Outcomes |
|-------|--|
| PO1 | The Humanities provide a greater insight into the world through the study of art, literature, philosophy, music and languages. |
| PO2 | To help students to better understand both the past and the future. |
| PO3 | To understand the moral and ethical impact of science and technology on the overall development of society. |
| PO4 | To encourage students to think ethically and holistically. |
| PO5 | To think creatively and to ask questions about our world. |
| PO6 | To develop informed and critical citizens. |
| PO7 | Develop commitment towards Indian Culture and Indian Value System |
| PO8 | Develop sense of social responsibility |
| PO9 | Inculcate critical temperament and creative knowledge |
| PO10 | Develop scientific and rational analytical abilities |
| PO11 | To create sense of citizenship and human values |
| PO12 | To achieve administrative professionalism in their respective fields |

1.1 DEPARTMENT OF ENGLISH

SUBJECT: COMPULSORY ENGLISH

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | To develop reading , writing, listening and speaking skills |
| PSO2 | To develop the ability to comprehend and analyse written texts |
| PSO3 | To develop the art of listening and speaking coherently in English |
| PSO4 | To develop critical thinking skills using language as a tool. |
| PSO5 | To strengthen the grammatical base of language learning. |
| PSO6 | To use literary texts as learning platforms for value education and moral science. |

Course Outcomes:

| S. No | Course Outcomes Semester I |
|-------|---|
| CO1 | To understand the need and use of poetry in daily life |
| CO2 | To develop the art of appreciating human behaviour 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 behavioural 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 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.

Programme Specific Outcomes for all Semesters I to VI:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | To introduce various genres of literature to students |
| PSO2 | To develop the ability to comprehend written texts |
| PSO3 | To acquaint students with different cultures and mores of thinking in the world |
| PSO4 | To give students a taste of the world |
| PSO5 | To develop language skills in learners (Listening, Speaking, Reading and Writing Skills) |
| PSO6 | To impart varied applied language skills to learners |
| PSO7 | To develop aesthetic sense of learners |
| PSO8 | To develop analytical skills in learners |
| PSO9 | To develop critical acumen of the learners |
| PSO10 | To motivate learners to read and write more |
| PSO11 | To help them acquire language proficiency |
| PSO12 | And to help in developing skills necessary to be a good, productive citizen |

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 analyse 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 I and II:

| 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

PROGRAM SPECIFIC OUTCOMES

| S. No | Program Specific Outcomes |
|-------|---|
| PSO1 | Hindi Literature is important in everyday life. It connects individuals with larger truths and ideas of Society |
| PSO2 | Hindi literature provides communication of thoughts, ideas and feeling through written words |
| PSO3 | It is best Practice in elementary education, as it introduces all the genres of literature mythic, romance fiction, poetry, historical fiction, non-fiction etc |
| PSO4 | It is a very poetic language & provides deeper Hindi study of Hindi literature |
| PSO5 | Students to acquire knowledge of Hindi travelogues literature. |
| PSO6 | Study of Hindi literature Develops critical thinking, analytical & life skills |
| PSO7 | It helps students to acquire fundamental knowledge about the History of Hindi literature |
| PSO8 | Students acquire knowledge of the theory of translation. It is mainly based on definition, meaning, type and different theories of translation |
| PSO9 | Learn about the origin and development of Hindi Novel, drama, one act play, theater, story, fantasy, poems etc. |
| PSO10 | It helps students to acquire knowledge of Biography, Auto- Biography, Sketch and Hindi Essay by eminent Hindi Writers. |

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 advertizing : 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 by Bakshi 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 Hindi sahitya ke pramukh Itihasgranth (only Introduction), kal Vgibhajan aur Namkaran |
| CO2 | Provide knowledge about Aadikal ki Prusthbhumi, Aadikal ke pramukh kavi, adikal ki Bhumika, Rachanyein & Aadikal ki Pramukh Kavya Pravrutiya |
| CO3 | Read Hindi prose, to know famous Hindi writers and their famous works |
| CO4 | Know famous Hindi poems, poets, their poetry and its special features |
| CO5 | Know about the Essay “ Himmat aur Jindgi” written by Ramdhari singh Deenkar |

Course: BA Sem. II (Hindi Literature)

| S. No | Course Outcomes |
|-------|--|
| CO1 | Provide knowledge about Drama “Aadhe Adhure” written by Mohan Rakesh |

| | |
|-----|---|
| CO2 | Know about the summery, Principals & characters of Drama |
| CO3 | Gain the knowledge about the “Mahakavya, khandkavya, Sansmaran” |

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 kavyadhara. Ram Bhakti shakha & krushan Bhakti shakha ke pramukh kavi |
| CO3 | Provide deep knowledge of Kabeer ke Dohe |
| CO4 | Provide deep knowledge of Tulsi das, Meera bai, Surdas, Rahim, Bihari, Raidas ke pad |

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 Hindi Kavya |

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 tatha Chhayavadi 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 Ramvrksh 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, Usha Priyamvada, Ghyranranjan.Sriram Parihar |

1.3 DEPARTMENT OF MARATHI

Program Specific Outcomes

| S. No | Program Specific Outcomes |
|-------|---|
| PSO1 | Marathi Literature is important in everyday life. It connects individuals with larger truths and ideas of Society. |
| PSO2 | communication of thoughts, ideas and feeling through written words |
| PSO3 | introduces all the genres of literature mythic, romance fiction, poetry, historical fiction, non-fiction etc. |
| PSO4 | It is a very poetic language & provides deeper Marathi study of Marathi literature. |
| PSO5 | Students to acquire knowledge of Marathi travelogues literature. |
| PSO6 | Study of Marathi literature Develops critical thinking, analytical & life skills. |
| PSO7 | to acquire fundamental knowledge about the History of Marathi literature |
| PSO8 | acquire knowledge of the theory of translation based on definition, meaning, type and different theories of translation |
| PSO9 | Learn about the origin and development of Marathi Novel, drama, one act play, theater, story, fantasy, poems etc. |
| PSO10 | It helps students to acquire knowledge of Biography, Auto-Biography, Sketch and Marathi Essay by eminent Marathi Writers. |

Course : BA, B. Sc, B.Com Sem. I (Compulsor 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 "Samanarathi 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, History writing (इतिवृत्त लेखन) |
| CO2 Sem IV | Read Marathi prose to know famous Marathi writers and their famous works, Translation and interview 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 summary, Principals & characters of Novel, computer and Internet(Introduction and types), examine text (ग्रंथ परीक्षण), introduction of their poets. |

Course : BA (Marathi Literature)

| S. No | Course Outcomes |
|---------------|--|
| CO1 Sem I | about Marathi Novel "Tahan", Marathi literature: meaning, definition, types, title, sub-title. |
| CO2 Sem II | knowledge of Drama "Ashrunchi Zali Fule" written by Vasant Kanetkar, 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", "Mamant, 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 Santanchi Abhangwani, "Praman Bhasha and Boli" |

1.4 DEPARTMENT OF URDU

PROGRAMME SPECIFIC OUTCOMES (PSOs)

By the end of the programme, the student will be able to:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | Write essays on their own |
| PSO2 | Know about Urdu essayists, novelists, dramatists, and new and old poets and their poetry |
| PSO3 | Gain knowledge about the authors, their lives and their contributions to Urdu literature |
| PSO4 | Read, understand and enjoy Urdu poems |
| PSO5 | History of Urdu language and literature |
| PSO6 | Understand and appropriately use Urdu grammar |
| PSO7 | Understand 'Sinatien', their types and uses |

COURSE OUTCOMES (COs)

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

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

| S. No | Course Outcomes |
|-------|---|
| CO1 | Introduce to Urdu Asnaf-e-Adab, Novels, Short stories and writers |
| CO2 | Learn the style of writing essays |
| CO3 | Know famous Urdu writers and their famous works |
| CO4 | Know famous Urdu Ghazal poets |

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 | Read and understand Urdu Nazmein |

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 trends 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-Inqilab “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’ |

1.5 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 2 nd 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 first epic Ramayana. |

| 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. |

1.6 DEPARTMENT OF MUSIC

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | The knowledge of various ragas and talas will provide an insight to Indian music and enhance the aural and vocal skills of the students |
| PSO2 | They will be able to demonstrate and apply the practical and theoretical aspects of Indian music in various fields such as doordarshan, aakashwani, social media, academics, etc |
| PSO3 | The overall study of music will enable them to gain stage confidence, and help enhance their creativity, concentration and memory |
| PSO4 | Music learning will bring about in them the sense of equality, spirituality, brotherhood, and help inculcate moral values and ethics |

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. |

1.7 DEPARTMENT OF ECONOMICS

Program Specific Outcomes (Economics)

| S. No | Program Specific Outcomes |
|-------|---|
| PSO1 | Recognize and appreciate the diversity of views that have historically been expressed or may reasonably exist about economic problems and alternative economics systems and present those views in a coherently written essay |
| PSO2 | Identify compile, interpret and analyze quantitative economic data by expressing relationships between concepts through graphs, statistical or econometric analysis |
| PSO3 | To understand the monetary and fiscal policy of Government and to know the issues of unemployment, inflation, exchange rates, balance of payments or economic growth in a global context |
| PSO4 | Use microeconomic tools and concepts to address public policies issues such as competition environmental protection, financial regulation, innovation and intellectual property, labor law or taxation |
| PSO5 | Employ economic theory, broadly defined to provide an original analysis of current or historical events to analyze social problems and evaluate alternative public policy choices |
| PSO6 | Present the results of their research using appropriate economic theories, concepts and terminology and methods in a professional setting |
| PSO7 | Students will be able improve their economic vocabulary, the knowledge of the terms and concepts commonly used in discussion of economic issues |
| PSO8 | Students will be able to demonstrate the ability to employ the economic way of thing |
| PSO9 | Students will learn to apply economic theories and concepts to contemporary social issues, as well as analysis of policies |
| PSO10 | Students will be able to formulate informed opinions on policy issues and recognize the validity of opposing viewpoints. |
| PSO11 | Students will be able to understand the impact of government policies and will be able to assess the consequences of the policies of the parties involved. |
| PSO12 | Students will be able to demonstrate quantitative reasoning skills |
| PSO13 | Students develop an awareness of career choices and the option for higher studies |

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

| S. No | Course Outcomes |
|-------|---|
| CO1 | Apply the concept of opportunity cost |
| CO2 | Employ marginal analysis for decision making |
| CO3 | Analyzing operation of markets under varying competitive conditions |
| CO4 | Analyze causes and consequences of unemployment, inflation and economic growth |
| CO5 | Analyze the global business environment |
| CO6 | Understand the various aspects of Indian Economy |
| CO7 | Understand the role of the Indian Economy in the global context and how different factors have affected this process |
| CO8 | Develop the prospective on the different problems and approaches to economic planning and development in India |
| CO9 | Understand Indian Tax System, Trade Policies, and Finance Commission etc |
| CO10 | Explain Price Elasticity of Demand and Price Elasticity of Supply and relationship of firm's price elasticity of demand and total revenue |

1.8 DEPARTMENT OF GEOGRAPHY

Program Specific Outcomes

| S. No | Program Specific Outcomes |
|-------|---|
| PSO1 | To understand the complex phenomena and processes of nature |
| PSO2 | Application of geographic knowledge in day to day life |
| PSO3 | To understand inter-relationship between man and environment |
| PSO4 | Provides platform for critical thinking, analysis, interpretation, conclusions and solutions to geographic and environmental issues |
| PSO5 | To understand 'Cause and Effect' relationship |
| PSO6 | Provides information about environmental degradation, over use of natural resources and awareness for adaptation of renewable energy resources & and development as a sustainable one |
| PSO7 | Teaches the philosophy of life |
| PSO8 | Diagrammatic representation of geographical data |
| PSO9 | Acquiring degree in geography will provide platform for various jobs such as climatologist, cartographer, scientist etc |
| PSO10 | With modern technology (RS/GIS), exploration and better use of natural resources |

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 analyse 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 |

1.9 DEPARTMENT OF HISTORY

Program Specific Outcomes

On completion of **B.A (Three year program)** with **History** as a subject students will be able to;

| S. No | Program Specific Outcomes |
|-------|---|
| PSO1 | Understand the basic themes, concepts, chronology and the Scope of History (Indian, Regional and World History). |
| PSO2 | Gain knowledge of various issues related to history that span different eras |
| PSO3 | Develop comparative approach in understanding the history of other countries in relation to history of India. |
| PSO4 | Develop the ability to establish cause and effect relation between events leading to develop historical and critical writing and discussion |
| PSO5 | Read and understand the maps of different time period and nations leading to the knowhow of socio-economic, political and cultural civilization of human race |
| PSO6 | Prepare for various types of Competitive Examinations |
| PSO7 | Have Analytical skills to gauge social, cultural, economic and political transformation |

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 |

1.10 DEPARTMENT OF HOME ECONOMICS

Programme Specific Outcomes

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | Have various opportunities in developing entrepreneurship in various fields related to interior decoration, handmade decorative articles, food products, baby garments and baby food, nursery educational aids etc |
| PSO2 | Learn essential things for betterment of life |
| PSO3 | Can 'earn while learn' |
| PSO4 | Get basic knowledge for pursuing advance degree / diploma |
| PSO5 | Can have job opportunities in boutiques and textile industries, food industry etc. |

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 |

1.11 DEPARTMENT OF PHILOSOPHY

Program Specific Outcomes

Philosophy enhances intellectual skills to question, to think seriously, to speak clearly.

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | Students will be able to apply their Philosophical learning for important public issues |
| PSO2 | Students can apply Philosophical methods and insights to other areas of human interest, experience or cognitive inquiry |
| PSO3 | Speculative method of Philosophy gives insight in to the nature of universal human values |
| PSO4 | Students will possess the critical reasoning skills necessary to effectively analyze and critique abstract concept and arguments |
| PSO5 | Students will be able to apply critical reasoning skills in a wide range of carrier setting |

Course outcomes

Semester I (Ethics)

| S. No | Course Outcomes |
|-------|--|
| CO1 | Understand the ethical principals in General |
| CO2 | Can apply Ethical principals in various academic, professional, social or personal contexts |
| CO3 | Understand how cultural, historical, Spiritual, Ethical forces shape the world and recognize the role of the individual with in communities to effect change |
| CO4 | This includes the ability to Reflects on one's cultural identities and values |

Semester II (Logic)

| S. No | Course Outcomes |
|-------|---|
| CO1 | Analyze, synthesize and integrate knowledge |
| CO2 | Critically evaluate the validity of arguments and conclusions |
| CO3 | Practice creative thinking and expressions |
| CO4 | Demonstrate the capacity to argue in innovative directions |

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 |

1.12 DEPARTMENT OF POLITICAL SCIENCE

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|---|
| PSO1 | Theoretical and practical knowledge of Government machineries, its functions and responsibilities |
| PSO2 | Knowledge of Indian National politics, Indian Judiciary and International Politics |
| PSO3 | To create political leadership in students |
| PSO4 | To inculcate professional and competitive exams temperament in students |

Course Outcomes:

B.A Sem. I: Political Theory

| S. No | Course Outcomes |
|-------|--|
| CO1 | Study of various concepts and theories |
| CO2 | Study of theories propounded by eminent political thinkers |

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 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 organisations, 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 |

1.13 DEPARTMENT OF SOCIOLOGY

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | Students will be able to think sociologically about the relationship between social structure, interaction, identities, and inequalities |
| PSO2 | Students will be able to identify and explain major sociological theories and apply them to everyday life |
| PSO3 | Students will be proficient in qualitative and quantitative research design, data collection and data analysis |
| PSO4 | Students will be proficient in oral and written communication skills appropriate to the discipline |
| PSO5 | Students will be able to practice sociology as educated and civically engaged persons |
| PSO6 | To understand the intricacies of caste, family and educational system in India and their changing patterns |
| PSO7 | To understand the issues and problems related to population in India |

Course Outcomes:

Semester I Sociology: An Introduction

| S. No | Course Outcomes |
|-------|--|
| CO1 | To induct the students to sociology as the beginner of the subject |
| CO2 | To expose the students to the basic concepts in sociology |
| CO3 | To expose the students to the themes and concepts in sociology as a science of society and make them acquainted with different types of society, sociological perspectives, social structure and social change |
| CO4 | To make students understand the ideas of socialization, social control, conformity, social stratification and mobility in society |

Semester II Sociology: Themes and Perspectives

| S. No | Course Outcomes |
|-------|--|
| CO1 | To orient the students to certain basic perspectives in sociology |
| CO2 | To make students know in details about culture, stratification and mobility and the deviant patterns and social control in society |

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

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | Understand human Behavior and develop oneself |
| PSO2 | Be psychologically healthy , positive thinker and learn to live Quality of life |
| PSO3 | Respect others and show unconditional expectance |
| PSO4 | Learn to support others |
| PSO5 | Prepare oneself for the competitive examination |
| PSO6 | Prepare oneself for the future academic |
| PSO7 | Application of knowledge in everyday life. Develop insight for the research in social science. |

Course Outcomes:

Semester I:

| S. No | Course Outcomes |
|-------|---|
| CO1 | Understand the basic concepts of Psychology. To understand the basic procedure of Psychology practical's, how to conduct experiments, Psychological testing and analysis. Hands on Experience |

Semester II:

| S. No | Course Outcomes |
|-------|---|
| CO1 | To understand about Social Psychology, Attitude, Pro-social Behavior, Aggression and its management and communication |

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 | Organisational 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 |

2. Faculty of Science and Technology

Programme: Bachelor of Science (3 year - semester pattern)

Program Outcomes:

| S. No | Program Outcomes |
|-------|---|
| PO1 | Apply principles of science for problem analysis and solving |
| PO2 | Use the modern tools of scientific temper and logical thinking in daily life |
| PO3 | Use critical thinking and ethical values in carrying out daily responsibilities of a good citizen |
| PO4 | Be committed to the Indian culture and ethos |
| PO5 | Respect the environment and sustainability of natural resources of the country |
| PO6 | Be a socially responsible person |
| PO7 | Acquire the ability for self-learning and independent thinking |
| PO8 | Apply and adapt their knowledge in the practice of their profession. |
| PO9 | Achieve professional growth in their field |

2.1 DEPARTMENT OF PHYSICS

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

| S. No | Program Specific Outcomes |
|-------|---|
| PSO1 | To demonstrate proficiency in mathematics and the mathematical concepts needed for a proper understanding of physics. |
| PSO2 | To demonstrate knowledge of selected topics from classical mechanics, quantum mechanics, electromagnetism, thermodynamics, electrodynamics, solid state electronics, communication electronics, digital electronics, biophysics, nanotechnology, and be able to apply this knowledge to analyse a broad range of physical phenomena |
| PSO3 | To be able to show that they have learned laboratory skills, enabling them to take measurements in a physics laboratory and analyse the measurements/recorded observations to draw valid/ logical conclusions |
| PSO4 | To be capable of oral and written scientific communication, and should be able to prove that they can think critically and work independently |
| PSO5 | To have a firm foundation in every aspect of Physics and to explain a broad spectrum of modern trends in physics; and to develop experimental, computational and mathematics skills of students. |

COURSE OUTCOMES

| | Semester I Paper I |
|-----|--|
| CO1 | Understanding the concept Elasticity of materials, concept of modulus of elasticity and estimation of these in laboratory experiments, elastic limits. |
| CO2 | Concept of Viscosity- Streamline and turbulent flow, Coefficient of viscosity, Stokes law, Variation of viscosity with temperature. |
| CO3 | Surface tension- Introduction, Angle of contact and wetting, Surface energy. Understanding the surface tension of different liquids (eg. Water, mercury) and determining the values by different methods in laboratory. Mechanics- Newton's laws of motion, motion in a plane, components of velocity and acceleration in different coordinate system, Centripetal acceleration, Coriolis force and its applications. |
| CO4 | Mechanics- System of particles, Centre of mass, Equation of motion, Conservation of linear momentum, angular momentum and Conservation of energy, Single stage and multistage rockets, Elastic and inelastic collisions, Moments of inertia and their products |
| | Semester I Paper II |
| CO1 | Electrostatics- Concept of electric charge(s), electric dipoles, electric potential, electric field, electric field intensity. |
| CO2 | Understanding Dielectric materials and their behaviour under the influence of electric field. Classification of dielectric materials and their applications. |
| CO3 | Study of Time varying fields and electric currents. Response of resistor, inductor and capacitor, and their combinations to electric current. Study of Electromagnetic induction and its application to transformers. |
| CO4 | To Analyse, determine and derive the behaviour of alternating currents in pure resistive(R), pure inductive(L) and pure capacitive (C) circuit, application of j- |

| | |
|-----|--|
| | operator in LR, CR and LCR circuit, Resonance circuits, Sharpness of resonance, Q factor, Power in an a. c. circuit, Power factor. |
| | Semester II Paper I |
| CO1 | To understand SHM and derive equations for Free oscillations and damped oscillations, Power dissipation and quality factor. Lissajous's figures. |
| CO2 | To understand SHM and derive equations for Forced oscillations- Resonance (Amplitude), Sharpness of resonance, Power dissipation, Quality factor and bandwidth. Understanding of Kinetic theory of gases Boyle's law, Equipartition of energy, Molecular collision, Mean free path and collision cross section, To Estimate of molecular diameter and mean free path. |
| CO3 | Understanding Transport phenomenon in gases; Study of Thermodynamic s-Thermodynamic variables, Thermal equilibrium and temperature, Thermodynamic processes (Reversible and Irreversible), zeroth and first law of thermodynamics, Carnot cycle |
| CO4 | Thermodynamics-Entropy, Second and third law of thermodynamics, Thermodynamic scales of temperature, Maxwell general relationship and its applications, Joules coefficient, Porous plug experiment, Liquefaction of gases-Boyle's temperature and inversion temperature, Liquefaction of Helium, Air conditioning (Concept only). |
| | Semester II Paper II |
| CO1 | Gravitation- Kepler's laws of Planetary motion (statement only), Newton's law of gravitation, Relation between G and g, Gravitational field, Gravitational potential, Gauss's theorem, Gravitational potential and intensity due to uniform solid sphere at a point inside and outside the sphere, Gravitational self energy of a galaxy. |
| CO2 | Astrophysics : Understanding various constituents of universe (Solar system, Stars, Galaxies, Stellar spectra, The Milky way (shape, size, clusters), Cosmological theories of the universe (Concept only). |
| CO3 | Understanding Magnetism- Introduction and classification of Magnetic materials and study of relevant theories and derivations of , superconductors, and their properties and applications, |
| CO4 | Study of Magneto statics. Concept of magnetic field, Magnetic dipole moment, Magnetization current, Magnetic vectors and derivation of relevant formulae, Gauss law of magnetization. Biot- Saverts law and its applications, Ampere's law and its applications |
| | 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 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 and stabilization |
| | Semester III Paper II |
| CO1 | To study Interference of light and construction and working of various instruments Newton'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 and its 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 | |
| CO1 | Study of crystal structures and classification into Bravais Lattices, Determinations of Miller indices, allowed rotations, lattice types, lattice planes, Bravais lattices, packing fraction, coordination number, Inter-planar distances, Study of Crystal structures 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, Auger effect, X-ray absorption spectra, applications of X-rays in various fields. |
| CO3 | Studying the concept of Reciprocal lattice, Wigner Seitz cell, Geometrical relation between 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, electron 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 its application 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, 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 Ψ , Operators, Expectation values of 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, 1D, 0D materials, various morphologies of nanomaterials |
| CO4 | Nanotechnology- Different methods of synthesis of nanomaterials (Determination of 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, Inertial and non- inertial frames, Galilean transformation Lorentz transformations, Length contraction, Time dilation, Velocity addition theorem, variation of mass with velocity, Mass energy equivalence and equations. |
| CO2 | Study of particle accelerators and radiation detectors, Shell model of the nucleus, Nuclear fission, and nuclear fusion, Liquid drop model, Chain reaction, Nuclear reactors, Nuclear fusion, Cosmic rays, Elementary particles,. |
| CO3 | Understanding α -decay, β - decay and γ - 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. 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, Study of Phase shift oscillator, Hartley oscillator, Colpitts oscillator. |
| CO2 | Understanding Propagation of light waves in optical fiber, various types of optical fibres 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 binary numbers 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. |

2.2 DEPARTMENT OF ELECTRONICS

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

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|---|
| PSO1 | Understand and appreciate the principles of electronics and their applications in the modern life |
| PSO2 | Apply the knowledge of electronics to enhance the quality of life of self and community |
| PSO3 | Be aware of the dangers of over use and misuse of electronic gadgets |
| PSO4 | Be aware of and work to reduce the effect of e-waste on the environment |

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 feed back 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 |

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| 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 micro processor to various applications |
| CO2 | Understand the Hardware and apply the software of 8051 micro controller to various applications |

2.3 DEPARTMENT OF CHEMISTRY

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

Programme Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | To understand basic facts and concepts in Chemistry |
| PSO2 | To develop the ability to apply the principles of Chemistry |
| PSO3 | To develop problem solving skills |
| PSO4 | To become familiar with the emerging areas of Chemistry and their applications in various spheres of Chemical sciences |
| PSO5 | To apprise the students of its relevance in future studies |
| PSO6 | To develop skills in the proper handling of apparatus and chemicals |
| PSO7 | To get exposure to the different processes used in industries and their applications |

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 familiarise 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, particle in 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 |

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| | 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 characterisation 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 catalysis 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 ions in 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)

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|---|
| PSO1 | Knowledge and understanding of: 1. The range of plant diversity in terms of structure, function and environmental relationships. 2. The evaluation of plant diversity. 3. Plant classification and the flora of Maharashtra. 4. The role of plants in the functioning of the global ecosystem. 5. A selection of more specialized, optional topics. 6. Statistics as applied to biological data. |
| PSO2 | Practical skills: To carry out practical work, in the field and in the laboratory, with minimal risk; To gain introductory experience in applying each of the following skills and gain greater proficiency in a selection of them depending on their choice of optional modules - 1. Interpreting plant morphology and anatomy. 2. Plant identification. 3. Vegetation analysis techniques. 4. A range of physiochemical analyses of plant materials in the context of plant physiology and biochemistry. 5. Analyze data using appropriate statistical methods and computer packages. 6. Plant pathology to be added for sharing of field and lab data obtained. |
| PSO3 | Scientific Knowledge: To apply the knowledge of basic science, life sciences and fundamental process of plants to study and analyze any plant form |
| PSO4 | Design solutions: To design solutions from medicinal plants for health problems, disorders and disease of human beings and estimate the phytochemical content of plants which meet the specified needs to appropriate consideration for the public health. |
| PSO5 | Environment and Sustainability: To understand the impact of the plant diversity in societal and environmental contexts, and to demonstrate the knowledge of, and need for sustainable development. |
| PSO6 | Ethics: To apply ethical principles and commit to environmental ethics and responsibilities and norms of the biodiversity conservation |
| PSO7 | Life-long learning: To recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change. |

Course Outcomes (All Semesters):

| S. No | Course Outcomes |
|-------|---|
| CO1 | To critically evaluate ideas and arguments by collecting relevant information about the 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 DEPARTMENT OF ZOOLOGY

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

Program Specific Outcomes:

| S. No | Course Outcomes |
|-------|--|
| PSO1 | Develop a strong foundation of basic sciences, especially Zoology |
| PSO2 | Prepare and be ready for a career in Industry through mastery of core curriculum |
| PSO3 | Prepare and be ready for higher studies of their choice |
| PSO4 | Prepare and be ready for job oriented diploma and PG courses related to Zoology (like Mushroom cultivation Vermiculture, DMLT (Micro/Zoo or Micro/Botany), Radiotherapy Technology, Medical Laboratory Technology, X Ray Radiography and Ultra Sonography Techniques etc.) |
| PSO5 | To apply the 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 will be able to increase income and contribute in economic growth. |
| PSO6 | making their careers in small scale industries & develop entrepreneurship |

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 gives them an opportunity to become a Taxonomist |
| CO2 | Students of Semester III & IV Genetics one of the branches of Zoology makes them aware 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)

Program specific outcomes:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | Construct mathematical arguments, proofs and develop mathematical as well as analytical thinking |
| PSO2 | Critically interpret numerical data, graphical data and develop models |
| PSO3 | Apply mathematical knowledge to a career and research related to mathematical sciences |
| PSO4 | Apply critical thinking skills to solve problems which can be modeled mathematically. |

Course Outcomes:

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

| S. No | Course Outcomes |
|-------|---|
| CO1 | Understand the applications of De Moivre'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, 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 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. |

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| 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 MICROBIOLOGY

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

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|---|
| PSO1 | To gain the knowledge for various specialized discipline of Microbiology like:- 1) Molecular biology of micro-organisms. 2) Metabolic studies of micro-organisms. 3) Industrial application of micro-organisms. 4) Clinical/pathogenic microbiology. 5) Microbial biotechnology |
| PSO2 | To acquire, articulate, retain and apply specialized language and knowledge relevant to microbiology. |
| PSO3 | To demonstrate competency in laboratory safety and in routine and specialized microbiological laboratory skills applicable to microbiological research or clinical methods, including accurately reporting observations and analysis |
| PSO4 | To communicate scientific concepts, experimental results and analytical arguments clearly and concisely, both verbally and in writing |
| PSO5 | To demonstrate various technique in the Microbiology discipline through involvement in research or internship activities |

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 of bacteria, 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, enzyme kinetics 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 BIOCHEMISTRY

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

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | Leads to an under graduate degree -B.Sc a three year degree course with Biochemistry as one of the three major subject |
| PSO2 | To apply the knowledge gained for the general well-being of self and other persons |
| PSO3 | To equip the students for health/clinical courses like degree/diploma in pathology, nutrition studies like dietetics |
| PSO4 | To gain basic knowledge for being fully equipped for first aid procedures and thus can be of help to society |
| PSO5 | To increases health awareness in an individual and to spread the same among the masses. |
| PSO6 | To inculcating hygienic practices in self and to teach others |
| PSO7 | To become qualified for pursuing post-graduation in various subjects of Life Sciences. |
| PSO8 | To become qualified to pursue Hospital management courses, Laboratory management courses and management courses in Biotechnology |
| PSO9 | To acquire skill to work in clinical industries |

Course Outcomes

B.Sc Semester I & II

| 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 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 biology in 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 especially their 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 one cell to another. |
| CO3 | To understand Protein synthesis mechanisms and unravel the making of molecules and body building processes |
| CO4 | To understand and use Recombinant DNA technology, the tools and techniques used by 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)

Program Specific Outcomes

| Sr. No. | Program Specific Outcomes |
|-------------|---|
| PSO1 | Food & Nutrition |
| | To acquire skills of Change Agents and Assistants to Dieticians |
| | To apply the knowledge gained for the general well-being of self, family and community. To inculcate hygienic practices in self and teach others. |
| | To gain basic knowledge for being fully equipped for Scientific Therapeutic Cooking, Creativity and Management of Resources, Nurturing and Counseling, Designing and also Extending this Knowledge gained to the Community thus can be of help to society, to work in various industries like Bakery, Preservation etc. and in Social Organizations, Media etc. |
| | To increase health awareness in an individual and to spread the same among the masses, to become qualified for pursuing higher courses in hospital management, laboratory management, PG in Food Science and Nutrition and Dietetics. |
| PSO2 | Human Development |
| | To acquire skills of Pre-school teachers |
| | To acquire skills to become assistant to counselors and psychologists |
| | To become equipped to run creative classes for young children and to prepare educational toys |
| | To acquire skills for taking care of elderly both institutionalized and non-institutionalized |
| PSO3 | Textile & Clothing |
| | To acquire the skills of Fashion Designing |
| | They can start their own unit of dyeing and printing and start a tailoring unit |
| | They can venture for a hand embroidery unit |
| | They can begin a start up in regional and traditional embroidery |
| PSO4 | Family Resource Management |
| | To acquire the skills of Event Management |
| | To acquire the skills of interior decoration |
| | They can become administrative managers |
| | To acquire skills to become entrepreneur i.e. the programme focuses on building entrepreneurship. |
| PSO5 | Home Science Extension Education |
| | They can work as Extension Scientists who transfer the agricultural technology from research station to farmers. |
| | They can be absorbed in different central government departments as officers in food corporation, plant protection boards, etc. |
| | To acquire skills needed in media agencies like news edition, media manager, radio jockey, agricultural journalists, etc. |
| | Students can work as Extension workers at block level, district level. |
| PSO6 | To equip the students for courses like degree/diploma in nutrition studies like Dietetics/ Food Science, Family Resource Management, Human Development, Textiles & Clothing/ Fashion Technology/and Home Science Extension Education. |

Course Outcomes

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|-------|--|
| 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 man made fibers along with introduction to new fibres |
| | How to take body measurement and different methods of constructions, tools and equipments 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, collars 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 |
| | To understand the meaning and need of Home Science Extension To understand the meaning and importance of Rural Sociology. To know the Society in respect of Social 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 and social research. To gain the knowledge about gender and development. To know 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 of water 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. |

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| 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. |
| | 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. |

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| | 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 vastushrta |
| 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. |
| 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) |

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| 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. |

| | |
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| | 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)

Program Specific Outcome:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | Fundamental aim of education is to develop capability in students to think independently. Use the information and knowledge gained for betterment of society and self. |
| PSO2 | To grow professionally in the field of study and interest |
| PSO3 | To develop responsible citizens with commitment towards society and nation |
| PSO4 | Using electronic and computer technology for betterment of human life and for protecting mother earth from harmful effects of modern technology |
| PSO5 | To earn bread and butter for self and family respectfully. |

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 Engineering Drawing and workshop: Students will be able to present electronic product 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. <ul style="list-style-type: none"> • They understand electronic amplifier. • They are able to convert weak signal into strong signal. • They are able to convert physical signal into electronic/electrical signal. • 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 through 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 |
| CO10 | 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. |

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| 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 each and 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 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. |

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| 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 simple 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):

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | To develop professional, creative and skilled students for cosmetic industry. |
| PSO2 | 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. |
| PSO3 | To use the technology for the betterment of society and self-employment as well. |
| PSO4 | The students also study the regulatory affairs i.e. Drug and Cosmetic Act to understand their responsibility towards citizens and society. |
| PSO5 | To develop professionalism in the student and helps to develop leadership qualities and administrative capabilities. |
| PSO6 | To be qualified for pursuing Post Graduation and Research leading to Ph.D. programme. This enables the students to work at higher position in the academic and industrial scenario. |

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. |

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| CO7 | Beauty Culture: Impart a knowledge of the application of various cosmetic products systematically with precautions. |
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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):

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | To equip the students with skills and theoretical knowledge in operation and management of different types and class of hotels. The students after undergoing the rigorous practicals and hands on job, industrial training in various hotel organization aids in setting up entrepreneur project and prepares them to face challenge of Hospitality and allied fields . |

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, charcuterie; 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

Program Specific Outcomes

Course Outcomes

B.Com. Sem. I

Financial Accounting-I

| 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 Organisation

| 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 |

Company Law

| S. No | Course Outcomes |
|-------|---|
| CO1 | Know concepts of Company Act-2013, Corporation, incorporation, formation, promotion and types of company |
| CO2 | Study about Memorandum, Articles association, private and public placement, prospectus |
| CO3 | To understand shares and share capital, Depositories and dematerialization |
| CO4 | Explore about membership, Director and provisions relating to directorship and shareholder Director, Auditor. |

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. |

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 of variation (Theory & Numericals) |
| CO3 | Explore the knowledge of Skewness-Absolute Measures of Skewness, Relative Measures of Skewness, Karl Pearson's Coefficient of Skewness, Bowley's Coefficient of Skewness. (Numericals) |
| CO4 | To study Business Mathematics:- Ratio Proportion, Percentages, Simple & Compound Interest, Profit/ Loss. (Numericals). |

Business Management

| S. No | Course Outcomes |
|-------|--|
| CO1 | To gain knowledge about introduction, scope and functions of Business Management |
| CO2 | Study about Planning, Decision Making |
| CO3 | Learn Delegation of Authority Co-ordination and Controlling |
| CO4 | Understand the recent trends in Business Management |

Secretarial Practices

| S. No | Course Outcomes |
|-------|---|
| CO1 | Explore about different types of companies, qualifications, functions, role, duties of a company secretary. |
| CO2 | Know about various types of company meetings. |
| CO3 | Understand report writing, E-Governance and E-Filing. |
| CO4 | Learn the Managerial Remuneration. |

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 Quasi Rent, 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 Difficulties in National Income Accounting. |

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, along with theories of communication 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 warranties, 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 and fiscal policy in controlling inflation and deflation |
| CO3 | Acquaint the knowledge of money market and its recent trends. 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. To know 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 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 goodwill |
| CO4 | To know the concept and Types of Liquidation, Steps in Voluntary Liquidation, 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 Absorption and 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 of Reconciliation 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 incomplete contract. |

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 replace 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 Ratios and Average Collection Period. To Acquaint 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 Management Accounting. 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 flow statement 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 Karl Pearson'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 of regression/ 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 learn 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, SEZ, 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 Resource Manager. |
| CO2 | To give knowledge to students about recruitment selection and training, selection process 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 and Collective 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 DEPARTMENT OF BIOTECHNOLOGY

Three Years Six Semesters B. Sc. Program

Program Specific Outcomes:

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | To help students to understand various aspects of Biology and related chemistry and to apply and evolve new aspects to benefit mankind |
| PSO2 | To develop practical skills for application |
| PSO3 | Students are given freedom to handle various instruments so that they develop confidence in using them |
| PSO4 | The syllabus itself aims at creating scientific temperament amongst students |
| PSO5 | To emerge out as a skilled personnel to take up any research work once they step out of the portal |

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, Environmental Biotechnology, Animal and Plant Biotechnology. These subjects emphasise the application of Biotechnology in various fields. Learning the techniques in the field of application of Biology in various walks will equip the students with skills needed to pursue their higher studies with more clarity and understanding. |

2. Faculty of Commerce and Management

2.2 Bachelor of Business Administration (B. B. A.) Program: Three Years, Six Semesters

PROGRAM SPECIFIC OUTCOMES

Course Outcomes

B.B.A. Sem. I

English

| 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. |

Computer Applications for Business

| S. No | Course Outcomes |
|-------|---|
| CO1 | To provide basic knowledge of computers and to make aware of importance and benefits of use computer technology in today's business world. |
| CO2 | To have a basic introduction of E-learning-business, M-commerce, web page designing languages, consulting services like outsourcing functions, processes in order to understand and cope with current trends in IT. |

Accounting

| S. No | Course Outcomes |
|-------|---|
| CO1 | To provide basic concepts of costs, different techniques of costing in various industries, application of cost accounting in business and to understand implication of cost in business decision making in order to know the practicability of the subject. |
| CO2 | To give valuable information and make attempt to alleviate the complex problem regarding the cost methods and technique as well as position of one's business. |

B.B.A. Sem. II

Principles of Marketing Management

| S. No | Course Outcomes |
|-------|---|
| CO1 | To have a basic introduction to the core and modern concepts of marketing management and to study various elements of marketing plan, marketing mix |

| | |
|-----|--|
| | including product, price, place and promotion mix. |
| CO2 | To impart modern marketing skills which aim at customer satisfaction through the process of pricing, promotion and distribution of ideas to satisfy goals. |

Financial & Management Accounting

| S. No | Course Outcomes |
|-------|--|
| CO1 | To develop conceptual understanding of the fundamentals of financial accounting system from book keeping mechanism for preparation of financial statements of a company. |
| CO2 | To learn skills in management accounting tools that facilitate management decision making in various kinds of business transactions. |

Micro-Economic Fundamentals

| S. No | Course Outcomes |
|-------|--|
| CO1 | To familiarize with the concepts of economics, laws of demand and supply, production function, cost theory, types of markets in order to enable one to understand economic environment of an economy |
| CO2 | To understand the current economic situations in relation to the basic concepts. |

Introduction of Sociology and Psychology

| S. No | Course Outcomes |
|-------|--|
| CO1 | To learn the concept of psychology and its key elements and gain an insight of social behavior, socialization and social traits. |
| CO2 | To study the scope and applications of psychology, various models of information integration, cultural aspects etc. |

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, concept of 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 development of 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 social awareness 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 social responsibility 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 planning process, 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 income concepts, 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 different aspects 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/ Human resource 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

Program Specific Outcomes:

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. |

Financial Accounting

| S. No | Course Outcomes |
|-------|--|
| CO1 | To develop conceptual understanding of the fundamentals of financial accounting system from book keeping mechanism for preparation of financial statement. |
| CO2 | To learn skills in accounting for various kinds of business transactions. |

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. |

Programming in C

| S. No | Course Outcomes |
|-------|---|
| CO1 | To write and execute programs in C language for commercial applications |

Practical – I**Component - I:** Fundamentals of Computer**Component - II:** Programming in ‘C’

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

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. |

Programming in C++:

| S. No | Course Outcomes |
|-------|---|
| CO1 | To write and execute programs in C++ language for commercial applications |

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**Component-I:** C++**Component-II:** E-Commerce & Web Designing

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

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 of various 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 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 Semester**C#.Net**

| 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#. |

Python

| 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. |

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 under design before delivery and to understand the needs of after sales services . |

Non-Grant (Self-Financed) Courses (PG)

1. Faculty of Humanities and Social Sciences

1.1 M. A. Political Science

| S. No | Course Outcomes |
|-------|---|
| | Sem I |
| | POL 1T1 Modern Indian Political thought |
| CO1 | Study of various political thinkers and their Political thoughts/ theories |
| CO2 | Study of various theories |
| | POL 1T2 Indian Government and Politics |
| CO1 | Study of Indian Constitution |
| CO2 | Knowledge of Political Culture |
| CO3 | Knowledge of issues and challenges in contemporary Indian Politics |
| | POL1T3 Modern Political Ideologies |
| CO1 | Knowledge about various political Ideologies |
| CO2 | To create awareness about women development, Environment |
| | POL1T4.3 International Law |
| CO1 | Develop Knowledge of development & sources of International Law |
| CO2 | Study of state laws. |
| CO3 | To create awareness of the International treaty, agreements & its impact on world Politics. |
| | Sem II |
| | POL 2T1 Comparative politics |
| CO1 | Comparative study of various constitutions legislature, Executive & Judiciary. |
| CO2 | Historical development of various constitutions. |
| CO3 | Develop sense about political participation & political culture. |
| | POL2T2 Western Political thought |
| CO1 | Study of various political thinkers and their Political thoughts/ theories |
| CO2 | Study of various thinkers and their |
| | POL 2T3 International Relations |
| CO1 | Study of International concepts security, National Power act. |
| CO2 | Study of Global Regional originations and related issues (WTO SAARC) |
| CO3 | To promote Human Security. |
| | POL2T4.1 Political Sociology |
| CO1 | To create sense of social responsibility |
| CO2 | To create Political leadership in students |
| CO3 | Study of Political institutions (political parties, pressure groups) |
| | M.A. II Sem III |
| | POL3T1 Research Methodology |
| CO1 | Study of Research Design. |
| CO2 | Develop Knowledge of tools & techniques of data collection. |
| CO3 | Study of field survey method & library research. |
| CO4 | Acquiring Knowledge of Thesis & Report writing |
| | POL3T2 Public Administration |
| CO1 | Study of public Administration its function |
| CO2 | Knowledge about Budget & Planning Commission. |
| CO3 | To achieve Knowledge of Financial & personnel Administration |

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|-----|---|
| CO4 | To promote E- governance awareness. |
| | POL3T3.1 Politics of Maharashtra |
| CO1 | Acquiring historical Knowledge of Politics of Maharashtra. |
| CO2 | Study of cooperative sector, sub- regional backwardness. |
| CO3 | Study of politics of Rural & Urban Maharashtra. |
| | POL3T4.3 Local Self Government |
| CO1 | Study of Local Self Government & Indian Political process |
| CO2 | Acquiring Knowledge of local Political institutions |
| CO3 | Study of Local Self Government its functions & responsibilities in Maharashtra. |
| | Sem IV |
| | POL 4T1 State Politics in India |
| CO1 | Acquiring Knowledge about State Politics |
| CO2 | To promote awareness about State elections & party system. |
| CO3 | To develop sense of responsibilities about various Human Development issues |
| | POL 4T2 Indian Administration |
| CO1 | Acquiring Knowledge of about Indian Administration & Indian Constitution |
| CO2 | To promote civil services awareness & its functions. |
| | POL 4T23.1 Pressure Groups & Social Movement |
| CO1 | Comparative Study of various Pressure Groups & Social Movement & its functions. |
| CO2 | To create awareness of the Environment issues. |
| | POL4T4.4 International Human Rights |
| CO1 | Acquiring Knowledge about Human Rights |
| CO2 | Study of Individual Rights & Collective Rights |
| CO3 | To promote awareness about civil, Political, social and economic rights. |

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | Theoretical and practical knowledge of Indian Administration ,its functions and responsibilities |
| PSO2 | Theoretical and practical knowledge of International organizations & its functions |
| PSO3 | Knowledge of World politics & Indian Politics. |
| PSO4 | To inculcate competitive exams temperament in students. |
| PSO5 | Knowledge of various theories. |

| S. No | Program Outcomes |
|-------|---|
| PO1 | Develop the ability to use critical, analytical and reflective thinking and reasoning. |
| PO2 | Develop sense & social responsibility. |
| PO3 | To create sense of citizenship and & social human values. |
| PO4 | Develop a through knowledge of theories, concepts, and research methods in the field and apply them in research design and data analysis. |
| PO5 | To achieve administrative professionalism in their respective fields. |
| PO6 | Assess the impact of the economic, social and political environment from global, national and regional level. |

1.2 M. A. Home Economics

| S. No | Program Specific Outcomes |
|-------|--|
| PSO1 | to manage family resources, understand and solve diet related health and other social issues, to apply knowledge of Home Economics in everyday life, to generate their own employment or earning sources |
| PSO2 | To develop the research skills and can go for further research study. |
| PSO3 | To learn importance of nutritious food and will able to take care family health, study of child development student will able to develop good parent child relation and teacher - child relation |

| S. No | Course Outcomes |
|-------|--|
| CO1 | acquire essential skills for self employment |
| CO2 | to choose right qualities in the spouse and better understanding in marriage and relations |
| CO3 | Knowledge of consumer and market gives them better understanding of current trends in market |

2. Faculty of Science and Technology

2.1 M. Tech Cosmetic Technology

| S. No | Course Outcomes Sem – I |
|-------|---|
| CO1 | Core-I- Formulation & Development –I (FDI) 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. |
| CO2 | Core-II- Quality Assurance Technique-I (QAT I) 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 |
| CO3 | Core-IV- Advanced Cosmetic Technology –I (ACT I) Encompasses all the fundamental physico-chemical properties and concepts of cosmetic ingredients with their methods of determination and their effects on cosmetic products. |
| CO3 | Core-III-Research Methodology (RM) To understand the basics of statistics and research hypothesis and application thereof in practice. |
| S. No | Course Outcomes Sem – II |
| CO1 | Core-I- Formulation & Development –II (FDII) This subject aims to study all sort of sophisticated cosmetic preparations which include hair, 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. |
| CO2 | Core-II- Advance Cosmetics Technology II (ACT II) Teaches all the fundamental physico-chemical properties and concepts of cosmetic ingredients with their methods of determination and their effects on cosmetic products. |
| CO3 | Core-III-Statistics and Qualitative Techniques (SQT) To understand the concept of statistical measurement and application of hypothesis. |
| CO4 | Core-IV- Natural Products (NP) Study of Natural ingredients for example herbs and other materials of natural sources and their logical applications in cosmetic industries. |
| | SEM III |
| CO1 | Core-I- Advance Cosmetics Technology III (ACT III) To make students understand the concept of delivery system and different encapsulation techniques and their application in the field of cosmetics and study of safety and regulatory aspects. |
| CO2 | Elective – I Skin Care Cosmetics (HCC) Study the herbs used in skin care preparation with respect to its biological source, chemical constituents, extraction, isolation and phytochemical screening of their constituent and their incorporation in cosmetics. Also study the stability at different storage condition. Thus student gain detailed knowledge of herbs and their application in various skin care cosmetics |
| CO3 | Elective – II Hair Care Cosmetics (SCC) Study the herbs used in Hair care preparation with respect to its biological source, chemical constituents, extraction, isolation and phytochemical screening of their constituent and their incorporation in cosmetics. Also study the stability at different storage condition. Thus student gain detailed knowledge of herbs and their application in various Hair care cosmetics |
| CO4 | Core-II- Quality Assurance Technique II (QAT II) Teaches regulation, rules and laws schedules related to cosmetics that is Drug and Cosmetic Act, Quality assessment of packaging material and skin testing and hair testing as per BIS IP and performance evaluation of cosmetic products using sophisticated instruments. |
| CO5 | Research Designing and Planning (RDP) Teaches data management and analysis along with method to prepare research proposals and projects. |

| | |
|-----|--|
| CO6 | Seminar - Students have to give the PPT presentation to understand the historical background along with the recent concepts, trends of raw materials, herbs, actives and finished cosmetic products. Also to understand the marketing concept. |
| | SEM IV |
| CO1 | Core-I- Cosmetics Microbiology (CM) Learn the importance of quality control in cosmetic preparations, its guidelines, global regulations, ISO significance, Concept of HACCP and current GMP, Microbial Contamination in cosmetic products and validation. |
| CO2 | Core-II- Production and Marketing Management (PMM) Learn the entrepreneurial development, finance and personal management, different management development programmes. |
| CO3 | Elective I –Perfumes in Cosmetics (PC) Teaches the knowledge of perfumery ingredients of various origins their availability and extraction, isolation, their incorporation in the product and stability studies. |
| CO4 | Elective II – Colours in Cosmetics (CC) Learn advanced formulation with incorporation of colors and extraction, isolation, their incorporation in the product and stability studies. |
| CO5 | Foundation OR Global Fashion Trends (GFT) Study of fashion trends complementing the use of cosmetics, perfumes, colours and cultural aspects of clothing global community and design of various clothing. |
| CO6 | Research Project To Carry out Research projects individually within given time frame with definite aim and objective set by the students and using proper methodology to reach desired conclusion. This helps them for research and development of product for the industries. This leads to train students to think rationally and scientifically. |

2.2 M. Sc. Biotechnology

| S. No | Program Outcomes |
|-------|--|
| PO1 | In Semester-I, Cell Biology, Enzymology and Molecular Biology are dealt in detail to understand the basic concepts and kinetics to apply at the bench scale. |
| PO2 | In Semester-II, students will study Microbiology, Immunology and Genetic Engineering in detailed aspect to know the core of the subjects |
| PO3 | In Semester-III, they have Genetic Engineering and its Applications, Industrial/Environmental Biotechnology. In this semester they will study Genetic Engineering and Industrial/Environmental Biotechnology in detail in both theory and practical which will equip them with theory correlated to practice. Also they have Diagnostic Medical Biotechnology which will give an insight into the applications of Biotechnology in Medical Diagnostics |
| PO4 | In Semester-IV Students will be studying Animal Biotechnology, Biostatistics and Bioinformatics and therapeutic Medical Biotechnology. Again these topics are related to research and understanding the basics of theory and practice will help them in choosing their line of research for their doctoral work or for choosing any career Biotechnology is an integrated subject. So many aspects are taught to them so that they can use their knowledge for converting Biology into Technology. |

2.3 M. Sc. Human Development

| S.No. | Program Outcomes |
|-------|--|
| PO1 | To give the student an in-depth insight of the subjects such as early childhood curriculum, assessment of human abilities, care of the elderly, psychological disorders and guidance and counseling. |
| PO2 | To equip the students to handle the overall development of the individual. |
| PO3 | To imbibe the importance of scientific temperament and research in the mind of the students |
| PO4 | To work as preschool teachers and consultants, counselors, assistant to psychiatrist and work in child welfare organizations and work with children with special abilities |

2.4 Master of Fashion Design

| | |
|-------|---|
| S. No | Sem I Core I-Fashion Illustration |
| CO1 | This course will develop skill through different medias & techniques to master and explore the ideas they have visualized. This being the specialized branch of figure drawing the student will be taught to draw according to fashion conventions elongation, idealization and beautification in a simplified and sketchy manner. To evolve the budding fashion designers of future who will shape the fashion by putting up the ideas they need to communicate on paper |
| | Core II-Pattern Making |
| CO2 | This course will introduce students to the world of fashion design through patternmaking, to understand, appreciate and apply the concepts and principles in garment making ,to explain important skill that enable the designer to concert a design sketch into a three dimensional form, inculcate enhanced ability and sensitivity to flat pattern and initialize a design vocabulary an essential tool for practicing as designer. |
| | Core III-Textile Studies |
| CO3 | Textiles being integral part of fashion, the knowledge of different processes of production and development of textiles will be imparted with a view to apply it for identification, recommendation and using the most appropriate textile in fashion. Extensive information on indigenous textiles (Printed, Painted & Dyed) of India will become a backbone for creation of innovation in fashion. |
| | Core IV-History of Fashion |
| CO4 | To familiarise students with the vocabulary, the concepts and the fashion, theories related to the history of clothing, to trace the development of indigenous clothing from ancient times to its present state, to understand the various influences that acted upon the indigenous clothing and to study the traditional costumes of different states of India. |

3. Faculty of Commerce and Management

3.1 M. Com

| S. No | Course Outcomes |
|-------|---|
| CO1 | To impart the students with higher level knowledge and understanding of contemporary trends in commerce and business related areas, such as Advanced Financial Accounting, Indian Financial System, Research Methodology, Advanced Cost Accounting, Advanced Management Accounting, Statistical Techniques, Computer Application in Commerce, Taxation etc. |
| CO2 | To prepare capable professionals in Finance and Business, competent in responding to the market with the capacity to analyse the complex problems and make effective business decisions. |
| CO3 | To develop an ability to apply knowledge acquired in solving the Business problems and taking business decisions. |
| CO4 | To be ready for employment in functional areas like Accounting, Taxation, Banking, Insurance and Corporate as well as start entrepreneurial activities |