



JSS MAHAVIDYAPEETHA

JSS COLLEGE OF ARTS COMMERCE AND SCIENCE

(Autonomous, NAAC 'A' Grade and College with Potential for Excellence)

Ooty Road Mysore

List of CO's & PO's (2021-22)



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JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
Ooty Road, Mysuru

Department: Postgraduate Department of English
Programme Name: Masters in English **Programme Code:** ENG
Session/Year: 2021-22

List of POs & PSOs

POID	PO Statement
PO1	Develop skills to write logically relating the real-life scenario with the issues depicted in literary texts
PO2	Formulate critical reading and thinking skills in writing analytical essays
PO3	Explain figurative language in literary works of various literatures
PO4	Appraise students to understand theoretical developments in literary studies
PO5	Develop skills of criticism in reading literary works of different periods of various genres
PO6	Organise focused, well-developed text-based essay
PSO1	Develop the competence to work as English Language teacher at Primary, Secondary, Higher secondary and Pre-University level
PSO2	Create basic knowledge needed to get global level research opportunities to pursue Ph.D. programme, targeted approach to NET and competitive civil service examinations
PSO3	Formulate good communication skills for specific placements in teaching, publishing and many other industries
PSO4	Inculcate the scientific temperament in the students using the skills of critical thinking and creative writing
PSO5	Learnt to analyse emphatically in discussions and debates demonstrating good communication skills
PSO6	Produce the skills to train the English language trainers

Course Title: English Literature from Chaucer to Milton
Course Code: ENA010
Class : MA - I Sem

List of COs

CO ID	CO Statement
CO1	Analyse figurative language and literary techniques
CO2	Compare the unique qualities of the authors studied.
CO3	Develop a well-written argument about one or more literary texts or authors, and accurately cite literary and other sources
CO4	Create ability to read, summarize and analyse poems and sonnets of various themes

Course Title: Elizabethan Age
Course Code: ENA020
Class : MA - I Sem

List of COs

CO ID	CO Statement
CO1	Classify the origin and growth of English Theatres and Renaissance plays
CO2	Produce the knowledge of Elizabethan culture, society and politics
CO3	Analyse Shakespearean Tragedies and Comedies in terms of language, character and Themes
CO4	Develop ability to read, summarize and critically analyse Shakespearean sonnets on various themes

Course Title: 17th and 18th Century English Literature
Course Code: ENA030
Class : MA - I Sem

List of COs

CO ID	CO Statement
CO1	Create the knowledge related to the historical and cultural contexts of the period
CO2	Analyse the use of figurative language and literary techniques
CO3	Organise analytically the literary texts and their contexts
CO4	Develop skills of critical analysis in reading the prescribed plays, novels and essays

Course Title: 19th Century English Literature
Course Code: ENA040
Class : MA - I Sem

List of COs

CO ID	CO Statement
CO1	Analyse the impact of French Revolution on Romantic and Victorian age.
CO2	Judge the issues related to Woman's Question during the period and contributions of Mary Wollstonecraft and J S Mill to this movement
CO3	Explain the use of allegory, metaphor, irony, rhyme, rhythm, allusion in Romantic and Victorian poetry
CO4	Produce analytical skill of understanding literary essays of Victorian philosophers
CO5	Develop ability to summarize and analyse the novels of Jane Austen, Emily Bronte, Charles Dickens and Thomas Hardy

Course Title: Realism and Fiction
Course Code: ENA250
Class : MA - I Sem

List of COs

CO ID	CO Statement
CO1	Explain realism as a literary movement
CO2	Analyse narrative techniques employed by the realistic novelists
CO3	Formulate the use of symbolisms in the prescribed novels
CO4	Judge the realistic novels of British, American, and Indian writers
CO5	Evaluate the novels of Charlotte Bronte, George Eliot, William Makepeace, Hawthorne, Henry James, Steinbeck, Premchand, Tagore and Kamal Markandaya

Course Title: Literary Criticism-I
Course Code: ENB020
Class : MA - II Sem

List of COs

CO ID	CO Statement
CO1	Analyse figurative language and literary techniques
CO2	Compare the unique qualities of the authors studied.
CO3	Develop a well-written argument about one or more literary texts or authors, and accurately cite literary and other sources
CO4	Create ability to read, summarize and analyse poems and sonnets of various themes

Course Title: Indian Writing in English – I
Course Code: ENB030
Class : MA - II Sem

List of COs

CO ID	CO Statement
CO1	Analyse figurative language and literary techniques
CO2	Compare the unique qualities of the authors studied.
CO3	Develop a well-written argument about one or more literary texts or authors, and accurately cite literary and other sources
CO4	Create ability to read, summarize and analyse poems and sonnets of various themes

Course Title: The Modern Age-I
Course Code: ENB040
Class : MA - II Sem

List of COs

CO ID	CO Statement
CO1	Evaluate the social, political and cultural milieu of the age
CO2	Explain the impact of World War I and II on 20th Century poetry
CO3	Analyse literary elements like rhyme, rhythm, tone, style, imagery and, symbols, etc
CO4	Produce analytical skills of understanding war poetry

Course Title: 20th Century Women's Writing: Theory & Practice
Course Code: ENB050
Class : MA - II Sem

List of COs

CO ID	CO Statement
CO1	Explain the history and growth of feminism as a movement, and the waves of feminism
CO2	Analyse the phrases such as Sex and Gender, women's rights
CO3	Evaluate feminist issues in the novels of Buchi Emecheta, Margaret Atwood and Mahasweta Devi.
CO4	Criticise the feminist ideas in the works of Simone de Beauvoir, Virginia Woolf and Showalter.
CO5	Compare and analyse the poems of Kamala Das and Maya Angelou

Course Title: English Essayists
Course Code: ENB220
Class : MA - II Sem

List of COs

CO ID	CO Statement
CO1	Explain the genre of prose essays and appreciate the essayist's artistic statements
CO2	Evaluate the literary devices employed by the essayists
CO3	Analyse the importance of essays as a genre to bring social change based on close reading of the essayist's observations on society.
CO4	Compare the views of Bacon, Hazlitt, Charles Lamb, Bertrand Russell, Mathew Arnold and Orwell in the prescribed essays

Course Title: The Modern Age-II
Course Code: ENC010
Class : MA - III Sem
Name of Course In-charge/Coordinator: Dr Shobha

List of COs

CO ID	CO Statement
CO1	Explain the social, political and cultural milieu of the age
CO2	Analyse the impact of World War I and II on 20th Century fiction
CO3	Evaluate the use of various literary devices and postmodern techniques such as Stream of Consciousness, Dark Humour in modern writings
CO4	Judge the new theatres evolved in modern age.

Course Title: Indian Writing in English-II

Course Code: ENC020
Class : MA - III Sem

List of COs

CO ID	CO Statement
CO1	Explain the characteristic features of post-independent Indian Writing in English
CO2	Compare and critically analyse essays of Indian critics
CO3	Evaluate the Indianness in Indian Writing in English
CO4	Analyse the use of various literary devices by Indian writers, such as Arundati Roy, Amitav Ghosh, Shanta Gokhale and RK Narayan

Course Title: New Literatures in English

Course Code: ENC030

Class : MA - III Sem

List of COs

CO ID	CO Statement
CO1	Explain the emergence of New Literatures from Commonwealth literature
CO2	Analyse the thematic concerns in New Literatures
CO3	Evaluate the cultural conflict in New literatures such as African, Australian, Canadian and Caribbean and the impact of colonization on native cultures
CO4	Formulate essays on the novels of Chinua Achebe, Wole Soyinka, Alice Munro, Patrick White, and V S Naipaul
CO5	Judge the use of various literary devices in the poetry of Dennis Brutus, David Diop, AJM Smith, Judith Wright, Derek Walcott, and Braithwaite
CO6	Produce analysis on the essays of Ngugi, Northrop Frye and Wilson Harris

Course Title: Indian English Poetry After Independence

Course Code: ENC230

Class : MA - III Sem

CO ID	CO Statement
CO1	Explain the use of Indianness in the modern Indian poetry
CO2	Analyse the themes, imagery, symbolism in the poems of Ezekiel, Ramanujan, Daruwalla, de Souza, Mahapatra, Parthasarathy, Anita Nair and Vikram Seth
CO3	Evaluate the human values and human predicament in modern Indian poetry
CO4	Formulate the trend setting themes explored in contemporary Indian poetry

Course Title: A Course in Written and Spoken English
Course Code: ENC520
Class : MA - III Sem

List of COs

CO ID	CO Statement
CO1	Explain the correct use of parts of speech and English grammar
CO2	State the grammar rules and apply them in conversation and communication
CO3	Evaluate effectively describing impressions, feelings and experiences
CO4	Formulate the familiar topics and give explanations and reasons for opinions, past actions and future plans.
CO5	Analyse comprehension passages and answer the implied questions rightly

Course Title: Literary Criticism-II
Course Code: END010
Class : MA - IV Sem

List of COs

CO ID	CO Statement
CO1	Explain the meaning, elements and characteristics of contemporary literary criticism
CO2	Analyse the essays using the skills of literary critical analysis
CO3	Produce analytical essays on the literary texts of the prescribed critics
CO4	Evaluate the latest developments in the specific field of practice of literary theories

Course Title: American Literature
Course Code: END020
Class : MA - IV Sem

List of COs

CO ID	CO Statement
CO1	Explain the significance of Renaissance, Transcendentalism and journey metaphor in American literature
CO2	Analyse the poems of Emily Dickinson, Wallace Stevens, Walt Whitman and Robert Frost
CO3	Compare and analyse the themes, narrative techniques, character analysis in the novels of Mark Twain, Douglas, Toni Morisson and Ray Bradbury
CO4	Judge the human condition in the plays of Arthur Miller, Eugene O'Neill and Edward Albee

Course Title: Major Project Work leading toDissertation

Course Code: END030

Class : MA - IV Sem

List of COs

CO ID	CO Statement
CO1	Analyse the area of topic chosen for project work in detail
CO2	Create research skills and demonstrate scholarly expertise in exploring the subject to prepare the dissertation for the project work
CO3	Produce the skills of research analysis in writing thesis
CO4	Explain logically and relate the issues and findings to real life scenario

Course Title: African Fiction

Course Code: END230

Class : MA - IV Sem

List of COs

CO ID	CO Statement
CO1	Explain the social, political and cultural milieu of the African society represented in fiction.
CO2	Produce critical essays on contemporary African novels such as Anthills of the Savannah, Purple Hibiscus, The Bride Price and Changes: A Love Story
CO3	Analyse the latest developments in the specific fields of postcolonial African writings to bring gender justice in the society
CO4	Evaluate the role of the characters in the novels of Achebe, Adichie. Emecheta and Aidoo
CO5	Analyse the political and societal conflicts in the postcolonial African writings

JSS Mahavidyapeetha
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Department: PG Department of Social Work

Programme Name: MSW

Programme Code: MSW 13

Session/Year: 2021-22

List of POs & PSOs

POID	PO Statement
PO1	Develop the capacity to undertake Research
PO2	Develop the skills and capacities to work in a multidisciplinary team
PO3	Develop the capacity to project self as a professional
PO4	Equipped with the knowledge of Social dynamism
PO5	Equipped to work in various fields of Social Work
PO6	Imbued with the core values and principles of Social Work
PSO1	Equip to work in the Community Development Programmes
PSO2	Develop the capacity to work in the field of Human Resource as Labour Welfare Officers, HR Executives and liaison officers
PSO3	Develop the skill to work as medical and psychiatric social workers
PSO4	Equip with the skill to work in family and Child Welfare Centres
PSO5	Develop the capacity to work in correctional settings

Course Title: Social Work – History and Ideologies

Course Code: SWA 010

List of COs

CO ID	CO Statement
CO1	Learn the details of Indian History of Social work Profession
CO2	Understand in depth Values and principles of Social work
CO3	Deliberate the details of Contemporary Ideologies for Social change
CO4	44731 Learn the details of Western Ideologies for Social Change and History of Social Work

Course Title: Work with Individuals and Families

Course Code: SWA 020

List of COs

CO ID	CO Statement
CO1	Learn in details with application of social case work as method of Social Work
CO2	Learn in detail the Values and principles of Social Case work
CO3	Learn the details of theories and process of Casework
CO4	Specify in depth application of Social Case work in different settings

Course Title: Work with Groups

Course Code: SWA 030

List of COs

CO ID	CO Statement
CO1	Identify in detail the concept of group and group work
CO2	Learn the process of Group Work
CO3	Understand in depth Group dynamics and skills in group work

Course Title: Work with Communities

Course Code: SWA 040

List of COs

CO ID	CO Statement
CO1	Learn in details with examples concept of Community and Community organization
CO2	Learn in depth models and strategies of Community Organization
CO3	Understand the skills of Community organize
CO4	Understand in depth Micro and macro policies of community OrgOrganizaion

Course Title: Human Growth & Development

Course Code: SWA 050

List of COs

CO ID	CO Statement
CO1	Learn in detail Human life span and principles of growth and development
CO2	Understand the details of Developmental stages of Human Life span
CO3	Understand the theories of Human Development and learning
CO4	Understand the theories of Basic Human Needs, motivation, Personality

Semester: II

Course Title: Social Work Research and Statistics

Course Code: SWB 010

List of Cos

CO ID	CO Statement
CO1	Understand the meaning, objectives and scope of Social Work Research
CO2	Understand in detail the Process of Social Work Research

Course Title: Developmental and Welfare Services

Course Code: SWB 020

List of COs

CO ID	CO Statement
CO1	Deliberate in depth need for social welfare organization
CO2	Learn the procedure of establishment of Human Service Organizations
CO3	Understand the process of Management
CO4	Learn in detail the concepts of Programme Development and Public Relations

Course Title: Personal and Professional Growth

Course Code: SWB 030

List of COs

CO ID	CO Statement
CO1	Understand the meaning, importance, purpose and process of communication
CO2	Learn the use of Visual aids in communication
CO3	Understand the counselling situations and approaches
CO4	Understand self and developing self awareness
CO5	Understand the details of emotions and emotional expressions
CO6	Understand in depth life skills
CO7	Identify in depth Values, attitudes and professional ethics

Course Title: Communication and Counselling

Course Code: SWB220

List of COs

CO ID	CO Statement
CO1	Identify in detail the concept of group and group work
CO2	Learn the process of Group Work
CO3	Understand in depth Group dynamics and skills in group work

Course Title: Social Science Perspectives for Social Work Practice **Course Code:** SWD 240

List of COs

CO ID	CO Statement
CO1	Deliberate the characteristics of sociology and its relationship with other social sciences
CO2	Specify the characteristics of social movements in India

Semester: III

Course Title: Human Resource Management

Course Code: SWC 010

List of COs

CO ID	CO Statement
CO1	Learn the concept and philosophy of Human Resource Management
CO2	Understand the policies, sources and methods of talent acquisition
CO3	Deliberate in details with examples Compensation Management
CO4	Deliberate the changing scenario of strategic Human Resource Management 70

Course Title: Organizational Behaviour and Organizational Behaviour

Course Code: SWC 020

List of COs

CO ID	CO Statement
CO1	Specify the significance of transactional analysis and theories of motivation
CO2	Understand group dynamics and organization development
CO3	Deliberate in depth on organizational change, stress and burnout

Course Title: Preventive and Social Medicine and Medical Social Work **Course Code:** SWC 030

List of COs

CO ID	CO Statement
CO1	Learn in depth concept of health and health care
CO2	Learn in details with application Medical Social Work and Rehabilitation of Patients

Course Title: Social Policy, Planning and Development **Course Code:** SWC 040

List of COs

CO ID	CO Statement
CO1	Understand in detail concept and purpose of social policies and values underlying social policy
CO2	Learn in detail Sectoral policies in India
CO3	Learn the social planning process
CO4	Learn in detail the concept of social development and Indicators of development

Course Title: Legal System in India **Course Code:** SWC 050

List of COs

CO ID	CO Statement
CO1	Learn in depth concept of social justice and understanding of Rights
CO2	Understand the divisions of law and chapters under IPC and CRPC
CO3	Understand the details of structure and functions of District Court, High Court and Supreme Court

Semester: IV

Course Title: Employee Relations and Legislations **Course Code:** SWD 010

List of COs

CO ID	CO Statement
CO1	Identify in details with application concept, philosophy and principles of employee relations
CO2	Deliberate on functioning of trade unions in India
CO3	Learn the employee legislations
	Understand in depth process of collective bargaining

List of COs

CO ID	CO Statement
CO1	Learn the details of concept of Mental Health, Mental Illness and its classification
CO2	Understand the concept of psychiatric Social Work and Multidisciplinary approach and team work
CO3	Learn about the institutional care of mentally ill and role of social workers
CO4	Understand the psycho social rehabilitation and legislations related to mental Health

List of COs

CO ID	CO Statement
CO1	Understand concept, approaches and dimensions of Human resource development
CO2	Deliberate in depth on HRD Interventions
CO3	Learn in details with examples concept and importance of talent development
CO4	Deliberate on employee wellness and standardization of systems

List of COs

CO ID	CO Statement
CO1	Understand in depth on society and its institutions
CO2	Understand in details on the different concepts of psychology
CO3	Specify the characteristics of mental health and mental disorders

List of COs

CO ID	CO Statement
CO1	Deliberate the characteristics of sociology and its relationship with other social sciences
CO2	Specify the characteristics of social movements in India

JSS College of Arts Commerce and Science

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Department: PG Commerce
 Programme Name: M.Com
 Session/Year: 2021-22

Code: 1001

Sl.No	PSO ID	PSO Statement
1	PSO1	Inculcate the knowledge of business and the techniques of managing the Business with special focus on Accounting, finance, and financial services
2	PSO2	Identify knowledge based accounting principles and the latest application oriented corporate accounting methods.
3	PSO3	Develop decision making skill through costing methods and practical application of management accounting principles.
4	PSO4	Enhance taxation skills through a thorough understanding of tax laws

Sl.No	PO ID	PO Statement
1	PO1	Understand role of accounting and finance in the present business scenario.
2	PO2	Identify the latest trends in banking and finance
3	PO3	Use wide varieties of tools and techniques to meet the emerging opportunities and challenges
4	PO4	Become an entrepreneur based on the knowledge gained.
5	PO5	Strengthen the knowledge base to take up CA/ICWA/ICS and other competitive examination
6	PO6	Acquire the ability to engage in independent & lifelong learning in the broader context of social and technical changes.
7	PO7	Accept the challenges of business world
8	PO8	Enhance logical thinking and decision making ability

Semester: I

Sl.No	Course title	Course Code	CO No./Id	CO Statement
1	Accounting Theory	MCA010	MCA010.1	Acquaint a set of logical principles for evaluation and development of sound accounting practices.
			MCA010.2	knowledge on conceptual framework of accounting theory
			MCA010.3	Critical thinking skills to analyse and interpret accounting transactions.
			MCA010.4	Understand the recognition, measurement and disclosure principles of elements of financial statements.
2	Corporate Governance And Business Ethics	MCA080	MCA080.1	Understand the concept of corporate governance
			MCA080.2	knowledge about corporate ethics and cultural influences
			MCA080.3	Acquire knowledge of corporate social responsibility and accountability
			MCA080.4	Analyze the role of E-governance in present scenario.
3	Advanced Financial Management	MCA090	MCA090.1	Understand financial management concepts and its important functions.
			MCA090.2	Learn the process of evaluation of projects
			MCA090.3	Understand capital structure theories
			MCA090.4	Identify the dynamics of financial markets
4	Strategic Marketing	MCA100	MCA100.1	Understand the marketing strategy formulation
			MCA100.2	Learn the steps in implementation of marketing strategies.
			MCA100.3	Analyze different marketing strategy
			MCA100.4	Learn about formulation and evaluation of marketing strategy
5	Business Policy And Environment	MCA210	MCA210.1	Insight on policy formation
			MCA210.2	Understand the environmental factors that influence business
			MCA210.3	Knowledge and significance of corporate social responsibility
			MCA210.4	Identify the Principles of Business ethics
6	Statistics For Business Decisions	MCA220	MCA220.1	Knowledge about application of probability theory and sampling in different areas of commerce
			MCA220.2	Analyze the various methods of theoretical probability distribution
			MCA220.3	Application of different tools in taking business decisions
			MCA220.4	Learn the advanced application oriented tests – F Distribution and Anova

Semester: II

Sl.No	Course title	Course Code	CO No./Id	CO Statement
1	Organizational Behavior	MCB030	MCB030.1	Understand individual behavior in the organization
			MCB030.2	Acquire the knowledge about foundation of individual behavior
			MCB030.3	Learn and apply skills in motivation
			MCB030.4	Evaluate individual behavior in group and resolve the conflicts
2	Entrepreneurial Development	MCB050	MCB050.1	Analyze the foundations and different dimensions of Entrepreneurial Development
			MCB050.2	Acquaint the skills of an young entrepreneurs
			MCB050.3	Analyze the techniques of project planning, implementation and execution.
			MCB050.4	Identify the institutional support to entrepreneurs.
3	Capital Market Instruments	MCB010	MCB010.1	Understand the role of capital markets
			MCB010.2	Critically evaluate the various capital market instruments like Stock, bonds etc
			MCB010.3	Identify the dynamics of global capital markets
			MCB010.4	Understand the concept and use of Derivatives in risk management.
4	Human Resource Management	MCB240	MCB240.1	Knowledge about human resources, their significance and management in organizations
			MCB240.2	Analyze human resource planning
			MCB240.3	Learn the steps in HRD
			MCB240.4	Understand reward system and appraisal of individual
5	Management of financial services	MCB250	MCB250.1	To understand and appreciate the role of financial services industry
			MCB250.2	To grasp the trends in financial services industry particularly the impact of globalization of Financial Services
			MCB250.3	To gain an insight into the future of Financial Services industry
			MCB250.4	Verify the global developments in technology.

SEMESTER III

Sl.No	Course title	Course Code	CO No./Id	CO Statement
1	International Business	MCC010	MCC010.1	Understand the scope of international business along with drivers of globalization
			MCC010.2	Analyze different aspects of International Business environment and the issues associated with them.
			MCC010.3	Identify policy and practice skills related to international business
			MCC010.4	Identify the various modes of entry in international business.
2	Business Research Methods	MCC030	MCC030.1	Evaluate various research decisions
			MCC030.2	Learn the methods of data collection
			MCC030.3	Analysis and interpretation of data
			MCC030.4	Equip the skills of report writing
3	Security Analysis And Portfolio Management	MCC040	MCC040.1	Knowledge about practical aspects of investment analysis
			MCC040.2	Understand the functions of SEBI
			MCC040.3	Analyze the various investment alternatives
			MCC050.4	Learn the skills to construct investment portfolio
4	Indirect Tax Law and Practice	MCC230	MCC230.1	Understand the significance and contribution of indirect taxes (GST) in the Indian and global economy.
			MCC230.2	Comprehend the principles of taxation and incidence process of indirect taxes in market orientated economy.
			MCC230.3	Understand the implications of indirect taxes on the taxable capacity of consumers, dealers and society at large.
			MCC230.4	Become tax consultants for tax planning, tax management, payment of tax and filling of tax returns
5	Cost Accounting for Decision Making	MCC250	MCC250.1	Understand the basic concept of marginal costing.
			MCC250.2	Analyze and apply of profitability and cost concept.
			MCC250.3	Evaluate the managerial decisions-make or buy decisions.
			MCC250.4	Examine the cost accounting techniques.

**Semester:
IV**

Sl.No	Course title	Course Code	CO No./Id	CO Statement
1	International Accounting	MCD010	MCD010.1	Understand international accounting issues related to global financialreporting.
			MCD010.2	Examine, analyze and assess theoretical and practical aspects of accounting harmonization.
			MCD010.3	Identify major diversities and challenges of financial reporting in the global arena and IFRS.
			MCD010.4	Learn the techniques of international financial statement analysis
2	Current Trends In Business And Commerce	MCD020	MCD020.1	Understand changing business and financial environment
			MCD020.2	Equip the skills required for competitive examinations and JRF, NET and SLET
			MCD020.3	Develop analyzing and decision making skills on current topics of business
			MCD020.4	Identify the reforms in areas of banking, insurance, capital markets and taxation.
3	Innovations In Accounting	MCD210	MCD210.1	To make students familiar with various innovations taking place in accounting
			MCD210.2	To learn valuation of human resource
			MCD210.3	To learn valuing the brand
			MCD210.4	To understand the concepts of Responsibility accounting
4	Corporate Tax Law And Planning	MCD230	MCD230.1	Understand the incidence of tax on residential status of the companies
			MCD230.2	Understand the different types of companies under corporate income tax act.
			MCD230.3	Know the different sources of income for corporate assesses.
			MCD230.4	Become a manger of a company/tax consultant and reduce the tax burden and maximize the company's wealth
5	Cost Management	MCD250	MCD250.1	Understand the scope and need for cost control and management.
			MCD250.2	Familiarize with the basic cost control and management tools.,
			MCD250.3	Know the manufacturing industries cost system and analysis through the statistical tool.
			MCD250.4	Understand the importance of operation research in cost control and management

Name of the Department: PG Department of Chemistry

Programmes offered: M.Sc. in Chemistry

Course outcomes

Course Title	Course Code	CO No./Id	CO Statement
Concepts and Models of Inorganic Chemistry	21CHA 10	CO1	The periodic properties of the elements, structures of ionic solids and their lattice energy calculations. Further, the use of VSEPR concepts in analyzing the structures of simple molecules.
		CO2	Various acid-base concepts and their applications in different fields. Also, understand the utility of various non-aqueous solvents in inorganic synthesis.
		CO3	Complete understanding of the chemistry of lanthanides, actinides and their applications.
Stereochemistry and Reaction Mechanism	21CHA 11	CO1	Optical and geometrical isomerism of Organic compounds. Application of stereochemistry in the study of regioselective and regiospecific reactions.
		CO2	The study of HMO and its applications to simple organic molecules, and also understand the concept of aromaticity and methods of determining reaction mechanism.
		CO3	Nucleophilic, electrophilic and elimination reactions.
Basic Physical Chemistry	21CHA 12	CO1	The completion of this course will enable the students to gain the knowledge on fundamentals and theoretical background on the concepts of chemical thermodynamics, chemical kinetics and electrochemistry of solutions.
		CO2	This helps in understanding the stability and energetics of reaction
Essentials of Analytical Chemistry	21CHA 13	CO1	To enhance the knowledge on usage of analytical terminologies
		CO2	To build the skills on statistical analysis and comparison of results
		CO3	To acquire the skills on sampling, purification, separation and data analysis using instrumental techniques.
		CO4	To excel the knowledge on various separation techniques
		CO5	Explore topics such as experimental design, sampling, calibration strategies, standardization, optimization, statistics and the validation of experimental results

Analytical Chemistry Practicals	21CHA 50	CO1	Analyze various samples with different classical and simple instrumental skills.
		CO2	Obtain knowledge for selection of analytical methods with suitable technique being adopted for the analysis different samples like, water, laboratory chemicals and reagents, body fluids such as urine etc.
		CO3	Distinguish classical and instrumental methods.
		CO4	Propose and conduct experiment for quantification of individual analytes.
Inorganic chemistry Practicals	21CHA 51	CO1	Determination of various analytes presents in different ore samples by volumetric, gravimetric and spectrophotometric methods.
		CO2	The chemistry of redox, complexometric and indirect methods
		CO3	The principle in the semi-micro analysis of an inorganic salt mixture
Organic Chemistry Practicals	21CHA 52	CO1	Students are involved in the multi-step synthesis of different organic compounds.
		CO2	Understand the qualitative analysis of binary mixture of organic compounds through separation, identification of functional groups and preparation of solid derivatives.
Physical Chemistry Practicals	21CHA 53	CO1	After the completion of this course, the students can able to develop the experimental skill and theoretical interpretation of experimental results of many physical chemistry experiments of chemical kinetics in solution phase, thermodynamics, electrochemistry and spectrophotometry.
		CO2	This helps in academics, research and industries.
Coordination Chemistry	21CHB 10	CO1	Gain the knowledge of preparative methods of coordination compounds and geometries of different coordination numbers.
		CO2	Understand the CFT and MOT bonding theories of metal complexes.
		CO3	Electronic spectra, magnetic properties and infrared spectroscopy of coordination compounds. In addition, understand the reaction mechanism and photochemistry of coordination compounds.
Synthetic Organic Chemistry	21CHB1 1	CO1	Students are familiar about chemistry of oxidants, reductants and their applications in the organic synthesis.
		CO2	Understand the various catalysts in organic synthesis by known naming reactions.
		CO3	Retro-synthesis and molecular rearrangement.
Principles of Physical Chemistry	21CHB 12	CO1	Principles of Quantum chemistry and theoretical calculations of energies of molecules and chemical reactions.
		CO2	Apply solutions of the Schrödinger equation for simple systems (particle in a

			box, rigid rotor, harmonic oscillator) to real systems.
		CO3	Explain angular momentum as possessed by atomic or molecular systems, various descriptions of how angular momentum can be coupled, and how conservation of angular momentum is important to spectroscopy.
		CO4	Rotational, and electronic energy states) in determining the energy of stationary states.
		CO5	Fundamentals of polymers and their applications in controlling the quality and waste management of polymer product.
Molecular Symmetry and Spectroscopy	21CHB 13	CO1	Molecular symmetry and applications of group theory to CFT, hybridization, MOT and vibrational spectroscopy.
		CO2	Theory and principles of Rotation, Vibration and Raman Spectroscopy.
		CO3	Theory and principles Electronic and Resonance Raman spectroscopy.
Analytical Chemistry Practicals	21CHB 50	CO1	Analyze various samples with different classical and simple instrumental skills.
		CO2	Obtain knowledge for selection of analytical methods with suitable technique being adopted for the analysis different samples like, water, laboratory chemicals and reagents, body fluids such as urine etc.
		CO3	Distinguish classical and instrumental methods.
		CO4	Propose and conduct experiment for quantification of individual analytes.
Inorganic chemistry Practicals	21CHB 51	CO1	Determination of various analytes presents in different ore samples by volumetric, gravimetric and spectrophotometric methods.
		CO2	The chemistry of redox, complexometric and indirect methods
		CO3	The principle in the semi-micro analysis of an inorganic salt mixture
Organic Chemistry Practicals	21CHB 52	CO1	Students are involved in the multi-step synthesis of different organic compounds.
		CO2	Understand the qualitative analysis of binary mixture of organic compounds through separation, identification of functional groups and preparation of solid derivatives.
Physical Chemistry Practicals	21CHB 53	CO1	After the completion of this course, the students can able to develop the experimental skill and theoretical interpretation of experimental results of many physical chemistry experiments of chemical kinetics in solution phase, thermodynamics, electrochemistry and spectrophotometry.
		CO2	This helps in academics, research and industries.
Advanced Inorganic	21CHC	CO1	Fundamental concepts of organometallic chemistry and synthesis, structure and bonding in different organometallics and their applications.

Chemistry	10	CO2	Homogeneous and heterogeneous catalysts and their applications in the synthesis of organic compounds in industries.
		CO3	Chemistry of main group elements, metal clusters, silicates and silicones and their applications in day-to-day life.
Organometallic and Photochemistry	21CHC11	CO1	Basic concepts of photochemistry and pericyclic reactions and their usefulness in the synthesis of many organic compounds.
		CO2	Synthesis of organic compounds using different organometallic compounds as catalysts.
		CO3	Asymmetric synthesis of organic compounds using chiral compounds.
Advanced Physical Chemistry	21CHC12	CO1	Applications of reaction kinetics help in correlating the rates of biological and chemical reactions.
		CO2	Theory and applications of electrochemical systems helps in the field of e-waste management and protection of metals.
		CO3	Fundamentals of X-ray crystallography and structural interpretation by various X-ray diffraction techniques.
Chemical Spectroscopy	21CHC13	CO1	Understand the spectroscopic techniques such as NMR, IR, UV, and MS for recording and interpretation of spectra.
		CO2	Understand the characterization of chemical compounds.
		CO3	To learn electric and magnetic properties of radiation, molecules and bulk matter and solve the problems related to these properties.
		CO4	Understanding various fragmentation reactions of organic molecules.
		CO5	Predict the NMR, IR, UV, and MS spectra from a given molecular structure, including fragment-ions in MS.
Analytical Chemistry Practicals	21CHC50	CO1	Get experience on analysis of various complex mixtures by following multistep reactions.
		CO2	Acquire the knowledge on handling instruments and to overcome the general problems arises during the analysis.
		CO3	Acquire industrial skills required for sampling, analytical and interpretation and presentation of results.
		CO4	Possess adequate knowledge on literature search for developed analytical methods.
Inorganic Chemistry Practicals	21CHC51	CO1	Determination of alloy samples and understanding the electrochemical deposition of metals.
		CO2	Preparation and characterization of coordination compounds.

		CO3	Determination of composition, stability constant and magnetic susceptibility of metal complexes.
Organic Chemistry Practicals	21CHC 52	CO1	The isolation of caffeine, carotene, lycopene, cincole, azelaic acid and piperine from respective natural sources.
		CO2	Estimation of ketones, sugars, nitro and amino groups in natural products.
		CO3	Interpret UV, IR, NMR and MS data of different organic compounds.
Physical chemistry practical	21CHC 53	CO1	Students can able to develop experimental skill and interpretation of plausible mechanisms of reactions.
		CO2	Gain practical knowledge on the theoretical basis of electrochemistry, thermodynamics, and spectrophotometry experiments.
		CO3	This helps in academics, research and industries.
Bioinorganic Chemistry	21CHD 10	CO1	Structural building blocks of proteins, nucleic acids and their metal ion interactions. Biological role of Na/K channel, Ca, Vit B12, andcoenzymes.
		CO2	Biochemical reactions of several metallo-enzymes and oxygen transport proteins.
		CO3	Medicinal applications of metals and metal complexes, and also treatment of toxicity due to heavy metalions.
Heterocyclic and Bioorganic Chemistry	21CHD 11	CO1	Structure, reactivity and synthesis of several heterocyclic compounds.
		CO2	Synthesis, industrial and biological importance of carbohydrates.
		CO3	General synthesis of amino acids, peptides, nucleic acids and their biological
Nuclear, Radiation and Photochemis try	21CHD 12	CO1	Understand the principles of photochemistry,its experimental techniques and applications.
		CO2	Fundamentals of radiation chemistry, experimental methods of detection of radiation and applications ofradioisotopes
		CO3	General aspects of nuclear chemistry, different types of nuclear reactions, production and separation of radioisotopes and also basic features of different types of nuclearreactors.
Instrumenta l Methods of Analysis	21CHD 13	CO1	Gain the knowledge on the differences between classical and instrumental methods of chemical analysis.
		CO2	Explain different types of instrumental methods employed in chemical analysis.
		CO3	Develop an understanding of the range and theories of instrumental methods available in analytical chemistry.
		CO4	Make clear distinctions among spectrometric, electro-analytical, thermal

			and microscopic methods.
		CO5	Gain knowledge pertaining to the appropriate instrumental techniques.
		CO6	Obtain the practical experience in selected instrumental methods of analysis.
		CO7	Develop the skills on instrumental methods for planning, developing, conducting, reviewing, conducting experiments and reporting results.
Analytical Chemistry Practicals	21CHD 50	CO1	Get experience on analysis of various complex mixtures by following multistep reactions.
		CO2	Acquire the knowledge on handling instruments and to overcome the general problems arises during the analysis.
		CO3	Acquire industrial skills required for sampling, analytical and interpretation and presentation of results.
		CO4	Possess adequate knowledge on literature search for developed analytical methods.
Inorganic Chemistry Practicals	21CHD 51	CO1	Determination of alloy samples and understanding the electrochemical deposition of metals.
		CO2	Preparation and characterization of coordination compounds.
		CO3	Determination of composition, stability constant and magnetic susceptibility of metal complexes.
Organic Chemistry Practicals	21CHD 52	CO1	The isolation of caffeine, carotene, lycopene, cincole, azelaic acid and piperine from respective natural sources.
		CO2	Estimation of ketones, sugars, nitro and amino groups in natural products.
		CO3	Interpret UV, IR, NMR and MS data of different organic compounds.
Physical Chemistry Practical	21CHD 53	CO1	Students can able to develop experimental skill and interpretation of plausible mechanisms of reactions.
		CO2	Gain practical knowledge on the theoretical basis of electrochemistry, thermodynamics, and spectrophotometry experiments.
		CO3	This helps in academics, research and industries.

1. Direct Assessment:

	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
21CHA10	100	95.8	76.19	96.3	93.3	76.7	93.3	93.9		71.11	95.8	88.9
21CHA11	78.23	100	98.23	100	100	98.2	100	100		98.23	78.23	100
21CHA12	100	100	100	100	100	98	100	100	90	100	78	33
21CHA13	100	95.8	76.2	96.3	93.3	76.7	93.3	93.9		71.1	95.8	88.9
21CHA50	100	100	100	100	100	100	100	100		100	100	100
21CHA51	98.23	98.2	100	98.2	100	100	98.2	100		98.2	98.2	98.23
21CHA52	100	100	100	100	100	100	100	100		100	100	100
21CHA53	100	100	100	100	100	100	100	100		100	100	100
21CHB10	100	100	100	100	90	100	100	100	100	100	100	100
21CHB11	71.429	66.7	66.67	71.4	60	71.4	60	83.3		60		
21CHB12	100	100	100	100	100	100	100	100		100	100	100
21CHB13	100	100	100	100	90	100	100	100	100	100	100	100
21CHB50	100	100	100	100	100	100	100	100		100	100	100
21CHB51	97.82	97.8	98.2	97.8	100	97.8	97.8	100		97.82	97.8	97.82
21CHB52	100	100	100	100	100	100	100	100		100	100	100
21CHB53	100	100	100	100	100	100	100	100		100	100	100
21CHC10	100	93	91	100	84	100	93	100		93	93	100
21CHC11	100	100	66	100	100	100	76	66		100	100	100
21CHC12	100	100	100	100	100	100	100	100	100	100	33	50
21CHC13	100	100	100	100	100	100	100	100		100	100	100
21CHC50	100	100	100	100	100	100	100	100		100	100	100
21CHC51	100	100	100	100	100	100	100	100		100	100	100
21CHC52	97.82	97.8	98.2	97.8	100	97.8	97.8	100		97.82	97.8	97.82
21CHC53	100	100	100	100	100	100	100	100		100	100	100
21CHD10	82.857	82.8	82.67	82.9	82.7	82.9	82.5	83		84.167	83	83.8
21CHD11	100	98.2	0	100	98.2	98.2	100	98.2		100	100	98.2

21CHD12	100	100	100	100	100	90	100	100	90	80	78	33
21CHD13	100	100	100	100	100	100	100	100		100	100	50
21CHD50	100	100	100	100	100	100	100	100		100	100	100
21CHD51	97.82	97.8	98.2	97.8	100	97.8	97.8	100		97.82	97.8	97.82
21CHD52	100	100	100	100	100	100	100	100		100	100	100
21CHD53	100	100	100	100	100	100	100	100		100	100	100
Average	97.63	97.62	92.24	98.08	96.61	96.42	96.55	97.45	96.00	95.29	94.40	90.89
Av*0.8	78.11	78.10	73.79	78.46	77.29	77.14	77.24	77.96	76.80	76.23	75.52	72.71

2. Indirect Assessment

Response by	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
Students	100	100	100	100	100	100	100	100	100	100	100	100
Teachers	100	100	100	100	100	100	100	100	100	100	100	100
Parents	100	100	100	100	100	100	100	100	100	100	100	100
Alumni	100	100	100	100	100	100	100	100	100	100	100	100
Employers	100	100	100	100	100	100	100	100	100	100	100	100
Average	100	100	100	100	100	100	100	100	100	100	100	100
Av*0.2	20	20	20	20	20	20	20	20	20	20	20	20

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
Ooty Road, Mysuru

Department: PG Mathematics

Programme Name: M.Sc.,

Session/Year: 2021-22

List of POs & PSOs

POID	PO Statement
PO1	To move away from the conventional pedagogy of teaching mathematics
PO2	To include methods of facilitating learning such as projects, group work and participative learning
PO3	To Innovate, invent and solve complex mathematical problems using the knowledge of pure and applied mathematics
PO4	To impart knowledge of some basic concepts and principles of the discipline
PO5	To establish inter-disciplinarily between mathematics and other subjects from Humanities and the Social Sciences.
PO6	To provide in-service training for school teachers. To learn to apply mathematics to real life situations and help in problem solving
PSO1	Explain the importance of mathematics and its techniques to solve real life problems and provide the limitations of such techniques and the validity of the results
PSO2	Propose new mathematical and statistical questions and suggest possible software
PSO3	Continue to acquire mathematical and statistical knowledge and skills appropriate to
PSO4	Ability to use computer calculations as a tool to carry out scientific investigations and
PSO5	Crack lectureship and fellowship exams approved by UGC like CSIR – NET and SLET.
PSO6	Apply knowledge of Mathematics, in all the fields of learning including higher research and its extensions.

Course Title: Algebra-I

Course Code:MAA010

List of COs

CO ID	CO Statement
CO1	Define and interpret the concepts of divisibility, congruence, greatest common divisor, prime, and prime-factorization and Apply the Law of Quadratic Reciprocity
CO2	To analyze and demonstrate examples of subgroups, normal subgroups and quotient groups.
CO3	Assess properties implied by the definitions of groups and To use the concepts of isomorphism and homomorphism for groups
CO4	Analyze Permutation groups and the Class Equation and Sylow theorems
CO5	To demonstrate knowledge of conjugates.

Course Title: Real Analysis-I

Course Code:MAA020

CO ID	CO Statement
CO1	Understand the characteristics of extended real number system, the n-dimensional Euclidean space
CO2	Study the details of inequalities and its applications
CO3	Learn the characteristics of sequences and Cauchy's sequences ,upper and lower limits
CO4	Understand the details of series of real numbers ,tests for convergence
CO5	Learn in detail with examples-multiplication of series, double series, infinite products

Course Title: Real Analysis-II

Course Code:MAA030

CO ID	CO Statement
CO1	Deliberate in depth the basic topological properties of the subsets of the real numbers
CO2	Understand in details with examples, Continuity of functions
CO3	Deliberate the details of Differentiability, mean value theorems
CO4	Learn the details of The Riemann-Stieltje's integral
CO5	Identify in detail Integration and differentiation with examples.

CO ID	CO Statement
CO1	Understand the characteristics of represent complex numbers algebraically and geometrically, Study stereographic projection
CO2	Understand the characteristics lines and circles
CO3	Study the characteristics of analytic functions, Cauchy-Riemann equations and harmonic functions
CO4	Learn in depth sequences and series , uniform convergence of power series and entire functions
CO5	Learn in detail with examples-linear fractional transformations, cross ratio, symmetry, conformal mapping, evaluate definite integrals
CO6	Understand different types of Cauchy theorems and Cauchy integral formula and apply these to evaluate integrals

Linear Algebra	CO1	Learn in depth Vector Spaces, Subspaces
	CO2	Understand the classification and characteristics of Determinants
	CO3	Learn in details Inner Products and Norms with examples
	CO4	Deliberate the details of normal and Self-Adjoint Operators
	CO5	Analyse the classification and characteristics of The Diagonal form, The Triangular form and its applications

Algebra II	CO1	Assess properties implied by the definitions of rings
	CO2	Analyze and demonstrate examples and properties of ideals and quotient rings
	CO3	Demonstrate knowledge of polynomial rings and associated properties
	CO4	Derive and apply Gauss Lemma, Eisenstein criterion for irreducibility of rationals with examples
	CO5	Understand the characteristic of a field and the prime subfield

Real Analysis III	CO1	Deliberate in details with examples Sequences and series of functions
	CO2	Understand the characteristics of Uniform convergence continuity,differentiation and integration with examples
	CO3	Identify in details with examples Improper integrals and their convergence
	CO4	Understand in depth Functions of several variables
	CO5	Specify the details of Taylor's theorem, the Maxima and Minima

Complex Analysis-II	CO1	Understand in details with application-the residue theorem, evaluation of definite integrals
	CO2	Understand in details with properties of harmonic functions
	CO3	Understand in depth of power series expansions, Weierstrass theorem
	CO4	Learn in detail with examples-partial fractions, study the characteristics of infinite products, canonical products
	CO5	Study the characteristics of the gamma and beta functions, and entire functions

ODPDE	CO1	Solve problems in ordinary differential equations, dynamical systems, stability theory and a number of applications to scientific and engineering problems
	CO2	The study of Differential focuses on the existence and uniqueness of solutions also emphasizes the rigorous justification of methods for approximating solutions in pure and applied mathematics by using power series method some polynomials.
	CO3	Recognize the major classification of PDEs and the qualitative differences between the classes of equations
	CO4	Be competent in solving linear PDEs using classical solution methods.
	CO5	Theory of differential equations is widely used in formulating many fundamental laws of physics and chemistry.

Course Title: Graph Theory**Course Code:**MAB230

Graph theory	CO1	Construct examples and proofs pertaining to the basic theorems
	CO2	Understand the characteristics of external graphs, intersection graphs, operations on graph
	CO3	Write down in detail with examples of cut points, bridges, blocks and block graph
	CO4	Specify the characteristics of trees, centers, and centroids, spanning tree
	CO5	Identify the details of connectivity and the line connectivity, coverings, independence

Course Title: Elements of Functional Analysis**Course Code:**MAC010

Elements Functional Analysis	CO1	Explain the fundamental concepts of functional analysis.
	CO2	Understand the approximation of continuous functions on linear spaces
	CO3	Understand concepts of Hilbert and Banach spaces
	CO4	Understand the definitions of linear functional and prove the Hahn-Banach theorem, open mapping theorem, uniform boundedness theorem, etc.
	CO5	Define linear operators, self adjoint, isometric and unitary operators on Hilbert spaces

Course Title: Topology-I**Course Code:**MAC020

Topology-I	CO1	Deliberate in details with applications, topological spaces, basis for a topology, the order topology, subspace topology and product topology
	CO2	Learn in depth with closed set and limit point, continuous functions(defined in terms of open sets)
	CO3	Learn in details with examples-the product topology ,metric topology, quotient topology
	CO4	Understand in depth connected spaces , connected sets on the real line , path connectedness
	CO5	Deliberate the characteristics of compact spaces, compact sets on the real line, limit point compactness, local compactness

Course Title: Commutative Algebra**Course Code:**MAC210

Commutative Algebra	CO1	Understand in depth commutative ring and local rings with examples
	CO2	Learn the characteristics of Nil radical and Jacobson radical and prime spectrum of a ring
	CO3	Understand the characteristics of Noetherian and Artinian module
	CO4	Identify in details with examples Free modules, Finitely generated modules, Simple modules, Exact sequences of modules
	CO5	Specify the characteristics of Noetherian rings and Artinian rings

Course Title: Theory of Numbers**Course Code:**MAC220

Theory of Numbers	CO1	Know the diophantine equations, prime numbers, irrational numbers and prime-factorization
	CO2	Define and interpret the concepts of Arithmetical Functions and Dirichlet product of Arithmetical functions
	CO3	Provide precise definitions and appropriate examples and counter examples of Representation of a number by two or four squares, Fibonnaci and perpect number
	CO4	Know the continued fractions

Course Title: Basic Mathematics**Course Code:**MACC660

Basic Mathematics	CO1	Write an argument using logical notation and determine if the argument is or is not valid
	CO2	Identify sets as well defined collections, represents sets in roster and set builder form,
	CO3	CO3 Identify the subsets of the given sets, find the complement of a subset of a given Set, within a given universe. Represent venn diagram using sets.
	CO4	Use the simple method to solve small linear programming models by hands, given a basic feasible point
	CO5	Understand the definitions of graphs, path, connectedness, cut vertex, bridge, blocks of a graph.
	CO6	Study the properties of trees and matrix of a graph

Course Title: Measure and Integration**Course Code:**MAD010

Measure and Integration	CO1	Understand in details with examples Lebesgue measure, outer measure
	CO2	Learn the characteristics of measurable sets and measurable functions
	CO3	Deliberate in details with examples of Integration of measurable functions
	CO4	Learn in details with examples, functions of bounded variation, differentiation of an integral, absolute continuity
	CO5	Understand in depth the general measure theory

Course Title: Topology-II**Course Code:**MAD020

Topology-II	CO1	Deliberate the classification and characteristics of the countability axioms , the separation axioms
	CO2	Understand the details of Urysohn's lemma , Tietze's extension theorem, partitions of unity
	CO3	Discuss Tychonoff's theorem, local finiteness, Paracompactness
	CO4	Familiar with the construction of the fundamental group of a topological space and applications to covering spaces

Course Title: Differential Geometry**Course Code:**MAD230

Differential Geometry	CO1	To introduce the fundamentals of differential geometry primarily by focussing on the theory of curves and surfaces in three space.
	CO2	To compute quantities of geometric interest such as curvature, as well as develop a facility to compute in various specialized systems
	CO3	The theory of surfaces introduces the fundamental quadratic forms of a surface, intrinsic and extrinsic geometry of surfaces, and the Gauss theorem
	CO4	Introduce the method of the moving frame and overdetermined systems of differential equations as they arise in surface theory.

Theory of Partitions	CO1	Know the definitions of partitions , Euler's theorem on $p(n)$
	CO2	CO2 Apply the q-binomial theorem and Ramanujan ${}_1\psi_1$ - summation formula
	CO3	Know the congruence of partition
	CO4	To apply the q-series

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
Ooty Road, Mysuru

Department: PG

Programme Name: Computer Science

Programme Code: MCSC01

Session/Year - 2021-22

List of POs & PSOs

POID	PO Statement
PO1	Identify, formulate, and solve computer science problems
PO2	Design, implement, test, and evaluate a computer system, component, or algorithm to meet desired needs
PO3	Receive the broad education necessary to understand the impact of computer science solutions in a global and societal context
PO4	Communicate effectively
PO5	Success in research or industry related to computer science
PSO1	Programmers or the Software Engineers with the sound knowledge of practical and theoretical concepts for developing software.
PSO2	Serve as the Computer Engineers with enhanced knowledge of computers And its building blocks. Work as the Hardware Designers/Engineers with the knowledge of Networking Concepts.
PSO3	Work as the System Engineers and System integrators Serve as the System Administrators with thorough knowledge of DBMS.
PSO4	Work as the Support Engineers and the Technical Writers
PSO5	Work as IT Sales and Marketing person.
PSO6	Serve as the IT Officers in Banks and cooperative societies.
PSO7	Computer Scientist in research and R & D laboratories.

Course Title: DATA STRUCTURES & ALGORITHMS

Course Code: CSA100

CO ID	CO Statement
CO1	Select appropriate data structures as applied to specified problem definition.
CO2	Implement operations like searching, insertion, and deletion, traversing mechanism etc. on various data structures.
CO3	Implement Linear and Non-Linear data structures.
CO4	Implement appropriate sorting/searching technique for given problem.
CO5	Design advance data structure using Non Linear data structure.

Course Title: System Software

Course Code: CSA110

List of COs

CO ID	CO Statement
CO1	Understand fundamentals of language processing and grammar
CO2	Apply knowledge of compilation and code optimization steps to mimic a simple compiler
CO3	Demonstrate the working of various system software like assembler, loader, linker, editor and device driver

Course Title: Computer Networks

Course Code: CSA120

List of COs

CO ID	CO Statement
CO 1	Master the terminology and concepts of the OSI reference model and the TCP-IP reference model.
CO 2	Study the basic taxonomy and terminology of the computer networking and enumerate the layers of OSI model and TCP/IP model.
CO 3	Master the concepts of protocols, network interfaces, and design/performance issues in local area networks and wide area networks
CO 4	Acquire knowledge of Application layer and Presentation layer paradigms and protocols.
CO 5	Study Session layer design issues, Transport layer services, and protocols.

Course Title: Discrete Mathematics

Course Code:CSA260

List of COs

CO ID	CO Statement
CO1	Construct simple mathematical proofs and possess the ability to verify them.
CO2	Have substantial experience to comprehend formal logical arguments .
CO3	Skillfull in expressing mathematical properties formally via the formal language of propositional logic and predicate logic.
CO4	Specify and manipulate basic mathematical objects such as sets, functions, and relations and will also be able to verify simple mathematical properties that these objects possess.
CO5	Apply basic counting techniques to solve combinatorial problems .

Course Title: Java Programming

Course Code:CSA27

List of COs

CO ID	CO Statement
CO1	Understand concept of Object Oriented Programming & Java Programming
CO2	Understand basic concepts of Java such as operators, classes, objects, inheritance, packages ,Enumeration and various keywords.
CO3	Understand the concept of exception handling and Input/Output operations.
CO4	Design the applications of Java & Java applet.
CO5	Analyze & Design the concept of Event Handling and Abstract Window Toolkit.

Course Title: Analysis and Design of Algorithms

Course Code:CSB060

List of COs

CO ID	CO Statement
CO1	Analyze different scenarios for running time of algorithms using asymptotic notations and Design using Recursion.
CO2	Apply divide and conquer strategy for design of various algorithms.
CO3	Develop algorithms for well known problems using greedy methods.
CO4	Describe and apply dynamic-programming approach for designing graph and matrix based algorithms.
CO5	Understand the concept of backtracking for traversal and search algorithms.

Course Title: Operating System and UNIX

Course Code:CSB070

List of COs

CO ID	CO Statement
CO1	Understand device drivers
CO2	Write applications with improved performance and stability
CO3	Write set of small commands and utilities that do specific tasks well
CO4	Run multiple programs each at the same time without interfering with each other or crashing the system.
CO5	Implement Commands of UNIX.

Course Title:Computer Graphics

Course Code: CSB080

List of COs

CO ID	CO Statement
CO1	Utilize the components of a graphics system and become familiar with building approach of graphics system components and algorithms related with them.
CO2	Learn the basic principles of 3- dimensional computer graphics.
CO3	Provide an understanding of how to scan convert the basic geometrical primitives, how to transform the shapes to fit them as per the picture definition.
CO4	Provide an understanding of mapping from a world coordinates to device coordinates, clipping, and projections
CO5	Implement the applications of computer graphics concepts in the development of computer games, information visualization, and business applications

Course Title: Graph Theory

Course Code: CSB270

List of COs

CO ID	CO Statement
CO1	Explain basic concepts in combinatorial graph theory
CO2	Define how graphs serve as models for many standard problems
CO3	Discuss the concept of graph, tree, Euler graph, cut set and Combinatorics.
CO4	See the applications of graphs in science, business and industry.

Course Title: .NET Technologies

Course Code:CSB280

List of COs

CO ID	CO Statement
CO1	Design web applications using .NET
CO2	Use .NET controls in web applications.
CO3	Debug and deploy .NET web applications
CO4	Create database driven .NET web applications and web services
CO5	Analyze & Design the concept of Event Handling and Abstract Window Toolkit.

Course Title: Software Engineering

Course Code: CSC040A

List of COs

CO ID	CO Statement
CO1	Understand the nature of software development and software life cycle process models, agile software development, SCRUM and other agile practices.
CO2	Learn methods of capturing, specifying, visualizing and analyzing software requirements.
CO3	Understand concepts and principles of software design and user-centric approach and principles of effective user interfaces.
CO4	Basics of testing and understanding concept of software quality assurance and software configuration management process.
CO5	Understand need of project management and project management life cycle.

Course Title: Database Management System

Course Code: CSC060A

List of COs

CO ID	CO Statement
CO1	Explain the features of database management systems and Relational database.
CO2	Design conceptual models of a database using ER modelling for real life applications and also construct queries in Relational Algebra.
CO3	Create and populate a RDBMS for a real life application, with constraints and keys, using SQL.
CO4	Retrieve any type of information from a data base by formulating complex queries in SQL.
CO5	Analyze the existing design of a database schema and apply concepts of normalization to design an optimal database.

Course Title: Theory of Languages

Course Code: CSC070A

List of COs

CO ID	CO Statement
CO1	Design different types of Finite Automata and Machines as Acceptor, Verifier and Translator.
CO2	Understand, design, analyze and interpret Context Free languages, Expression and Grammars.
CO3	Design different types of Push down Automata as Simple Parser.
CO4	Design different types of Turing Machines as Acceptor, Verifier, Translator and Basic computing machine

Course Title: Computer Fundamentals

Course Code: CSC630

List of COs

CO ID	CO Statement
CO1	. Use technology ethically, safely, securely, and legally.
CO2	. Identify and analyze computer hardware, software, and network components
CO3	. Design basic business web pages using current HTML/CSS coding standards
CO4	. Install, configure, and remove software and hardware.

Course Title: Data Mining

Course Code:CSD230A

List of COs

CO ID	CO Statement
CO1	Demonstrate an understanding of the importance of data mining and the principles of business intelligence
CO2	Organize and Prepare the data needed for data mining using pre-processing techniques
CO3	Perform exploratory analysis of the data to be used for mining.
CO4	Implement the appropriate data mining methods like classification, clustering or Frequent Pattern mining on large data sets.
CO5	Define and apply metrics to measure the performance of various data mining algorithms.

Course Title: Internet Technology

Course Code:CSD220 A

List of COs

CO ID	CO Statement
CO1	Develop analytical ability in network technology
CO2	Create quality websites
CO3	Work individually as a web designer and set up their own business
CO4	Get the job opportunities in most companies for professional web designers and build websites more visually elegant and interactive
CO5	Implement interactive web page(s) using HTML, CSS and JavaScript.

Lists of PO, PSO and COs
PO M.SC. BOTANY (2021-2022)

Sl. No.	POID	PO
1	BOT20PO1	Conduct investigations of complex problems by the use of research-based knowledge on an independent term project.
2	BOT20PO2	Transfer of appropriate knowledge and methods from one topic to another within the subject.
3	BOT20PO3	Carry out practical work, in the field and in the laboratory, with minimal risk.
4	BOT20PO4	Able to think logically and organize tasks into a structured form and assimilate knowledge and ideas based on wide reading of text books and through the internet.
5	BOT20PO5	Apply the scientific knowledge of basic science, life sciences and fundamental process of plants to study and analyze any plant form.
6	BOT20PO6	Knowledge and understanding of the range of plant biology in terms of structure, function and environmental relationships.
7	BOT20PO7	Apply reasoning informed by the contextual knowledge to assess plant diversity, and the consequent responsibilities relevant to the biodiversity conservation Practice.

PSOM.SC.BOTANY(2021-2022)

Sl. No.	COURSE	PSOID	PSO
1.	Algal Biology and Biotechnology	BOA230	Phylogeny, thallus organization, economic and ecological importance of algal community
2.	Biochemistry and Plant Physiology	BOC030	Biomolecules, metabolic pathways and stress physiology in plants
3.	Cell Biology and Genetics	BOB020	Cell originals and Mendelian principles
4.	Ecology, Conservation Biology and Phytogeography	BOD010	Diversity of vegetation, distribution and its conservation
5.	Economic Botany	BOB220	Economic values of different crop plants and their applications
6.	Major Project	BOD020	Hands on experience in various fields of plant science
7.	Molecular Biology	BOC040	Molecular level organization in prokaryotes and eukaryotes with respect to various mechanisms involved

8.	Plant Anatomy and Histochemistry	BOB210	Anatomical features and organization of cells in plants
9.	Plant Breeding and Evolutionary Biology	BOB030	Plant breeding methods, procedures and their application for crop improvement
10.	Plant Biotechnology	BOC050	Tissue culture techniques and its application in development of resistant varieties
11.	Plant Propagation and Plant Breeding	BOC230	Propagation methods and plant breeding procedures and their application in different fields
12.	Plant Propagation Techniques	BOC640	Propagation methods and procedures and their application in different fields
13.	Phycology, Bryophytes, Pteridophytes and Gymnosperms	BOA050	Distribution, classification and phylogeny of lower plant communities
14.	Phytopathology	BOA240	Concepts of plant diseases, defense mechanisms in plants and study of plant diseases
15.	Reproductive Biology of Angiosperms and Plant Morphogenesis	BOB010	Embryological study of growth and development using plant models
16.	Seed Technology	BOD210	Industrial scale processing of seeds up to marketing
17.	Systematics of Angiosperms	BOA060	Angiospermic plant family study with their phylogeny
18.	Virology, Bacteriology, Mycology and Plant Pathology	BOA040	Diversity, distribution of microorganism with respect to their economic aspects

Sl. No.	COURSE	COID	CO
1.	AlgalBiologyand Biotechnology	BOA2301	Specifyindepthofthallusorganizationand phylogenyinalgae
2.	AlgalBiologyand Biotechnology	BOA2302	Understand the detailsof toxins, blooms and distributions of algae
3.	AlgalBiologyand Biotechnology	BOA2303	Deliberateindepthaboutcultivationand marketingalgae
4.	AlgalBiologyand Biotechnology	BOA2304	SpecifythedetailsofAlgalproductsanduses
5.	BiochemistryandPlant Physiology	BOC0301	Learnindetailswithbiomoleculesandtheir function
6.	BiochemistryandPlant Physiology	BOC0302	Understandindepthaboutsolutetransport andphotosynthesisinplants
7.	BiochemistryandPlant Physiology	BOC0303	Specifythe details ofmetabolism of nitrogen, lipids and plant hormones
8.	BiochemistryandPlant Physiology	BOC0304	UnderstandindepthaboutStressphysiology
9.	CellBiologyandGenetics	BOB0201	Learnindetailaboutcell membranestransport andproteins
10.	CellBiologyandGenetics	BOB0202	DeliberatetheFunctions ofcell organelles, programmedcelldeath
11.	CellBiologyandGenetics	BOB0203	Specifytheextensions ofMendelianprinciples
12.	CellBiologyandGenetics	BOB0204	LearnaboutSexdeterminationand dosagecompensation
13.	Ecology, conservation Biology and Phytogeography	BOD0101	Understandthediversity of ecosystemand types ofecosystems
14.	Ecology, conservation Biology and Phytogeography	BOD0102	Learn the in details ofpollutionand environmental biology
15.	Ecology, conservation Biology and Phytogeography	BOD0103	Study the importance of biodiversityand conservation biology
16.	Ecology, conservation Biology and Phytogeography	BOD0104	Detailed study ofphytogeography and crop distribution
17.	EconomicBotany	BOB2201	Specifythedetailsofcereals,millets,pulses, oil yielding plants andstudy of horticultural plants and floriculture

18.	Economic Botany	BOB2202	Deliberate the characteristics of sugar yielding plants, spices and condiments
19.	Economic Botany	BOB2203	Understand the importance of fiber, timber and gum yielding plant
20.	Economic Botany	BOB2204	Deliberate on the medicinal plants and their applications
21.	Major Project	BOD0201	Learn the details of literature survey and methodology in research
22.	Molecular Biology	BOC0401	Identify the characteristics of genetic materials and its replication
23.	Molecular Biology	BOC0402	Learn the details of molecular basis of mutation, repair and recombination
24.	Molecular Biology	BOC0403	Deliberate the details of RNA formation, processing of RNA and post-RNA
25.	Molecular Biology	BOC0404	Understand in depth of gene regulation in prokaryotes and eukaryotes
26.	Plant Anatomy and Histochemistry	BOB2101	Learn in details of primary vegetative body of the plants
27.	Plant Anatomy and Histochemistry	BOB2102	Deliberate in details of differentiation in vascular tissues and study of apical meristems in shoot and root
28.	Plant Anatomy and Histochemistry	BOB2103	Deliberate the characteristics of secondary growth
29.	Plant Anatomy and Histochemistry	BOB2104	Understand the details of plant histochemistry
30.	Plant Breeding and Evolutionary Biology	BOB0301	Learn in depth about plant breeding methods and techniques
31.	Plant Breeding and Evolutionary Biology	BOB0302	Understand the details of breeding for specific purposes
32.	Plant Breeding and Evolutionary Biology	BOB0303	Learn the details of Nature of evolution
33.	Plant Breeding and Evolutionary Biology	BOB0304	Identify the characteristics of variation and speciation
34.	Plant Biotechnology	BOC0501	Understand in depth about plant tissue culture and its techniques
35.	Plant Biotechnology	BOC0502	Specify the genetic engineering and tools used in it

36.	Plant Biotechnology	BOC0503	Understand the details of genetic manipulation, transgenic approaches to produce resistant plants
37.	Plant Biotechnology	BOC0504	Learn the details of engineering of crop plants for production of secondary metabolites
38.	Plant Propagation and Plant Breeding	BOC2301	Learn the details of importance of plant propagation, vegetative propagation and micro propagation
39.	Plant Propagation and Plant Breeding	BOC2302	Understanding of basic concepts of plant breeding and genetics
40.	Plant Propagation and Plant Breeding	BOC2303	Study types, purposes of plant breeding
41.	Plant Propagation and Plant Breeding	BOC2304	Deliberate study of advanced breeding aspects
42.	Plant Propagation Techniques	BOC6401	Learn the details of importance of plant propagation
43.	Plant Propagation Techniques	BOC6402	Understand in depth about types of vegetative propagation
44.	Plant Propagation Techniques	BOC6403	Learn the techniques of budding and layering
45.	Plant Propagation Techniques	BOC6404	Deliberate in details with examples of micro propagation in forestry and horticulture plants
46.	Phycology, Bryophytes, Pteridophytes and Gymnosperms	BOA0501	Understand the details of diversity, distribution, pigmentation and lifecycle of algae
47.	Phycology, Bryophytes, Pteridophytes and Gymnosperms	BOA0502	Deliberate in depth of Bryophytes lifecycle, classification, phylogeny and Economic importance
48.	Phycology, Bryophytes, Pteridophytes and Gymnosperms	BOA0503	Understand the details of Pteridophytes life cycle, phylogeny, classification, economic importance and anatomy
49.	Phycology, Bryophytes, Pteridophytes and Gymnosperms	BOA0504	Write down in details with examples Gymnosperms history, reproduction, economic importance and interrelationship
50.	Phytopathology	BOA2401	Learn the details of the concept, causative agents and disease cycle of plant pathogens
51.	Phytopathology	BOA2402	Deliberate the details of defense mechanisms in plants and its genetics

52.	Phytopathology	BOA2403	Study of Management of plant diseases
53.	Phytopathology	BOA2404	Identify in details with examples of diseases in crop plants
54.	Reproductive Biology of Angiosperms and Plant Morphogenesis	BOB0101	Understanding the micro sporogenesis and historical overview
55.	Reproductive Biology of Angiosperms and Plant Morphogenesis	BOB0102	Specify in details with examples about mega sporogenesis, fertilization, endosperm and embryo
56.	Reproductive Biology of Angiosperms and Plant Morphogenesis	BOB0103	Specify the details of models and concepts of plant morphogenesis
57.	Reproductive Biology of Angiosperms and Plant Morphogenesis	BOB0104	Understand in details with examples of plant growth and development, photo morphogenesis
58.	Seed Technology	BOD2101	Understand the seed science and concepts
59.	Seed Technology	BOD2102	Study the seed production and processing methods
60.	Seed Technology	BOD2103	Learn about seed quality parameters and tests
61.	Seed Technology	BOD2104	Deliberate the procedure of seed certification
62.	Systematics of Angiosperms	BOA0601	Understand the principles and applications of Taxonomy of angiosperms
63.	Systematics of Angiosperms	BOA0602	Specify the details of taxonomic literature
64.	Systematics of Angiosperms	BOA0603	Deliberate in details with examples Dicot and monocot family and features of classification systems
65.	Systematics of Angiosperms	BOA0604	Specify in details molecular systematics with examples of softwares and databases
66.	Virology, Bacteriology, Mycology and Plant Pathology	BOA0401	Learn the classification and characteristics of viruses, viroids, prions and diseases of it
67.	Virology, Bacteriology, Mycology and Plant Pathology	BOA0402	Deliberate in details with examples of Bacteria, archeobacteria, actinomycetes and mycoplasma and its economic importance

68.	Virology, Bacteriology, Mycology and Plant Pathology	BOA0403	Specify the Fungal diversity, lifecycle and economic importance of fungi
69.	Virology, Bacteriology, Mycology and Plant Pathology	BOA0404	Understand in details of etiology, distribution and management of plant disease

PG Department of Zoology

Course title	Course Code	CO No./Id	CO Statement
Biosystematics and Non Chordata	ZOA050	ZOA050.1	Understand the classification of major and minor invertebrate phyla
		ZOA050.2	Give some examples and basic characteristics of each phylum
		ZOA050.3	Understand the evolutionary pathway and its significance
		ZOA050.4	Adaptive characters of animals coming under different invertebrate phyla
Biological Chemistry	ZOA060	ZOA060.1	Identify the five classes of polymeric biomolecules and their monomeric building blocks.
		ZOA060.2	Explain the specificity of enzymes (biochemical catalysts), and the chemistry involved in enzyme action.
		ZOA060.3	Understand types, Structure, biochemical properties, and functions of vitamins.
		ZOA060.4	Explain how the metabolism of organic compounds leads ultimately to the generation of large quantities of ATP.
Cytogenetics	ZOA070	ZOA070.1	Describe the fundamental molecular principles of genetics
		ZOA070.2	Understand the structure and function of DNA & RNA
		ZOA070.3	Understand about the transmission, distribution, arrangement, and alteration of genetic information and how it functions and is maintained in populations

		ZOA070.4	Describe the basics of genetic mapping
		ZOA070.5	Explain basic structure of animal cell and its organelles
		ZOA070.6	Describe the functions and organization of cell organelles
Tools and Techniques in Biology	ZOA220	ZOA220.1	Describe the methodology involved in biotechniques.
		ZOA220.2	Describe the applications of bioinstruments
		ZOA220.3	Demonstrate knowledge and practical skills of using instruments in biology and medical field.
		ZOA220.4	Perform techniques involved in molecular biology and diagnosis of diseases
		ZOA220.5	Update current knowledge regarding biomedical engineering involving new methods and the instrumentation.
Histology and Histopathology	ZOA230	ZOA230.1	Understand the application of dyes and its classification.
		ZOA230.2	Know the functional morphology of various mammalian organs.
		ZOA230.3	Imbibe the knowledge on histochemical techniques.
		ZOA230.4	Describe the etiology and pathology of liver cirrhosis and atherosclerosis.
		ZOA230.5	Explain histopathology of breast and prostate tumours.
Course title	Course Code	CO No./Id	CO Statement
	ZOB050	ZOB050.1	Understand the classification of chordates
		ZOB050.2	Give some examples and basic characteristics of protochordates

Chordata		ZOB050.3	Givesomeexamplesandbasic characteristics of vertebrates
		ZOB050.4	Understandtheevolutionary pathwayand itssignificance
		ZOB050.5	Analyzeadaptivecharacters of animals coming under differentvertebrate classes
Animal Physiology	ZOB060	ZOB060.1	Understandthemechanismof transport of molecules, stepwise release of energy, aerobicandanaerobic respiration
		ZOB060.2	Describethephysiologyof digestive and respiratory systemofhumanbeings.
		ZOB060.3	Understandtheblood composition,types,groups and circulatory system.
		ZOB060.4	Describe the physiology of excretorysystemandnervous systemofhumanbeings.
		ZOB060.5	Knowthephysiologyofsense organs, muscles, and reproductivesystem.
Entomology	ZOB070	ZOB070.1	Understand insects encounteredinagricultural fields.
		ZOB070.2	Envisage an insight on economicallyimportantpests of various foods, fiber and household
		ZOB070.3	Understandvariousinsect pest managementmethodsandits significance
		ZOB070.4	Learn to apply various agricultural equipment and understand the effect of chemicals and its dosages in agriculturalpestmanagement
		ZOB070.5	Learntoapplythepestcontrol methods wisely to minimise ecologicalbacklash
		ZOB070.6	Discuss the evolutionary significance of insect plant interactionandinsectanimal interaction.
		ZOB220.1	Understandthemolecular conceptsofdevelopmental biologyduringfertilization

Developmental Biology	ZOB220	ZOB220.2	Know about Noble prize concepts during frog development viz., Nucleocytoplasmic interactions
		ZOB220.3	Explain on axis development in drosophila
		ZOB220.4	Describe endocrine and molecular control in metamorphosis of insects and amphibians
		ZOB220.5	Explain the various stages of chick embryonic development
Immunology	ZOB230	ZOB230.1	Outline the key components of the innate and adaptive immune responses.
		ZOB230.2	Describe about cell types and organs which are involved in an immune response
		ZOB230.3	Describe the Infectious diseases, hypersensitivity, autoimmune disorders, immunodeficiency diseases

Course title	Course Code	CO No./Id	CO Statement
Molecular Biology and Biotechnology	ZOC040	ZOC040.1	Know nucleic acids, DNA replication and its mechanism.
		ZOC040.2	Understand transcription and its modifications.
		ZOC040.3	Explain genetic code, enzymes, factors and the process of translation.
		ZOC040.4	Analyse gene regulation, lytic and lysogenic cycles in prokaryotes.
		ZOC040.5	Understand gene regulation in eukaryotes.
		ZOC040.6	Explain molecular mechanism of DNA damage repair.
Reproductive Biology	ZOC050	ZOC050.1	Understand structure and function of reproductive organs
		ZOC050.2	Explain the structure of reproductive cells
		ZOC050.3	Describe the role of internal cues in reproduction
		ZOC050.4	Describe the role of external factors in reproduction
		ZOC050.5	Analyse the role of endocrine glands and their secretions in reproduction
		ZOC050.6	Identify the factors affecting fertility
		ZOC050.7	Know different types of assisted reproductive technologies.
Ecology and Wildlife	ZOC060	ZOC060.1	Demonstrate and Understand ecological relationships between organisms and their environment.
		ZOC060.2	Present an overview of diversity of life forms in an ecosystem.
		ZOC060.3	Explain and identify the role of the organism in energy transfers

		ZOC060.4	Describe the Habitat ecology and Resource ecology
		ZOC060.5	Understand the types of environmental Pollution and their management
		ZOC060.6	Scope, Values and Conservation strategies of wildlife.
Ethology	ZOC230	ZOC230.1	Evaluate the learning and instinct behavior.
		ZOC230.2	Explain the mechanisms in instinct and behaviour
		ZOC230.3	Explain how animals learn
		ZOC230.4	Compare learning and instinct behaviour.
		ZOC230.5	Analyse any problem about animal behaviour
		ZOC230.6	Explain the importance of evolution for animal behaviour.
		ZOC230.7	Explain evolution and behaviour.
		ZOC230.8	Explain natural selection and behaviour.
		ZOC230.9	Explain the relationship between predators and prey
		ZOC230.10	Explain social behaviour.

Course title	Course Code	CO No./Id	CO Statement
Advanced Genetics and Computational Biology	ZOD030	ZOD030.1	Understand the genomic organization of prokaryotes and eukaryotes.
		ZOD030.2	Know the applications of various model organisms in genomic research.
		ZOD030.3	Ability to analyze the pedigree, psychosomatic disorders, prenatal diagnosis and genetic counselling.
		ZOD030.4	Recognize few heritable diseases in man.
		ZOD030.5	Understand the basic concepts of genomics
		ZOD030.6	Understand the basic concepts of proteomics
		ZOD030.7	Understand the nucleic acid and protein databases and tools.
Applied Zoology	ZOD040	ZOD040.1	Explain plant-insect interaction, origin of pest and its control.
		ZOD040.2	Understand vectors and its communicable diseases.
		ZOD040.3	Explain races of silkworm their disease and its control.
		ZOD040.4	Know about the importance of insects in forensic science and medicine.
		ZOD040.5	Know about aquaculture and its practices in India.
Major Project	ZOD020	ZOD020.1	Understand the concepts of Project Management for planning to execution of projects
		ZOD020.2	Find importance of reference work Using tools of information such as periodical, journals, online resources

		ZOD020.3	Breakwork downthetasks of projectanddetermine handover procedures
		ZOD020.4	Interpret, analyze and presentation of the results obtainedandcomparewith similar works and draw conclusion.

PO

POID	POStatement
ZOO17.PO1	Imbibetheknowledgewithfactsandfiguresrelated Zoology.
ZOO17.PO2	Understandthebasicconcepts,fundamentalprinciples, and the scientific theories related to various scientific phenomenaandtheirrelevanciesintheday-to-daylife.
ZOO17.PO3	Identify, formulate, research literature, and analyze complex problems reaching substantiated conclusions usingfirstprinciplesofmathematical,biological,physical and chemical sciences.
ZOO17.PO4	Willbeabletothinkcreativelytoproposenovelideas in explainingfactsandfiguresorprovidingnewsolutionto the problems.
ZOO17.PO5	Developscientificoutlooknotonlywithrespectto Zoology but also in all aspects related to life.
ZOO17.PO6	Realizethatinterdisciplinaryknowledgeinotherfaculties can have greatly and effectively influence which inspires in evolving new scientific theories and inventions.
ZOO17.PO7	Imbibeethical,moralandsocialvaluesinpersonaland social life leading to highly cultured and civilized personality.
ZOO17.PO8	Developvariouscommunicationskillssuchasreading, listening, speaking, etc.
ZOO17.PO9	Realizethatacquiringknowledgeisacontinuousprocess and in combination with untiring efforts and positive attitude and other necessary qualities leads towards a successful life.

PSO

PSOID	PSO Statement
ZOO17.PSO1	Understand the classification and taxonomic aspects of the animal world (chordates and non-chordates). The students will be able to identify the taxonomic group of a given animal based on the external characteristics.
ZOO17.PSO2	Understand the basic concepts of Animal physiology. The students will be able to identify and understand the important life processes which are essential for continuation of life on earth.
ZOO17.PSO3	Understand the nature and structure of biomolecules and basic concepts of Biological chemistry.
ZOO17.PSO4	Understand the concepts of Genetics, Cell Biology and Molecular Biology.
ZOO17.PSO5	Understand the basic principles and concepts of environmental science, ecology and nature conservation.
ZOO17.PSO6	Understand the importance of knowledge of wildlife and animal behaviour for conservation and balancing the nature.
ZOO17.PSO7	Understand the tools and techniques employed in Biological research and experiments.
ZOO17.PSO8	Understand the process of evolution.
ZOO17.PSO9	Understand the concept and applications of sericulture, apiculture, animal husbandry, Lac culture etc.

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
Ooty Road, Mysuru – 570 025, Karnataka, India

2021-22

Name of the Department: PG Department of Biotechnology

Programmes offered: M.Sc. in Biotechnology

COURSE	COURSE CODE	COID	CO'S
BIOMOLECULES AND BIOENERGETICS	BTA040	CO1	Study of different biomolecules
		CO2	Metabolism and their regulation
		CO3	Enzymes and their role in metabolism
		CO4	Application of thermodynamics to understand the basic concepts of life.
		CO5	To study the integrated metabolism of all the biomolecules.
BIOANALYTICAL TECHNIQUES	BTA050	CO1	To understand the separation of molecules by different chromatography, centrifugation and electrophoretic techniques
		CO2	Analysis and characterization of molecules by spectroscopic techniques
		CO3	Use of radioactive material in understanding metabolic pathways
		CO4	To study the imaging techniques to explore the basics of cell

LAB – I	BTA060	CO1	Course objective is to introduce the students to the fundamental experiments in the field of Biochemistry, Microbiology and Genetics.
		CO2	Students get the insight to operate simple equipments like colorimeter and spectrophotometer
		CO3	Identification of microorganisms by morphology and staining techniques and study of growth kinetics.
		CO4	In genetics students are exposed to know about culture and maintenance of <i>Drosophila melanogaster</i> (model organism), Study of mutants, salivary gland chromosome and karyotyping techniques.
		CO5	To understand the different enzyme kinetics.
MOLECULAR GENETICS	BTA230	CO1	To understand the molecular mechanism of inheritance
		CO2	Mutation and DNA repair mechanism
		CO3	Gene mapping and study of chromosomal abnormalities
		CO4	Phylogenetics and micro-evolution
		CO5	Development of an organism
MICROBIOLOGY	BTA240	CO1	To understand the microbial taxonomy
		CO2	Handling, preservation and sterilization of microbes
		CO3	Microbial interactions with different hosts
		CO4	-Application of microorganisms in the field of agriculture, environment and health sciences

MOLECULAR BIOLOGY	BTB020	CO1	The student will get an idea about the genomic organization of prokaryotes and eukaryotes.
		CO2	To obtain in depth knowledge of genetic code, DNA replication and transcription.
		CO3	Understand principles, concepts of translation, post translation mechanism
		CO4	Regulation of gene expression in prokaryotes and eukaryotes
		CO5	Gain the insight into molecular mechanism of antisense molecules, inhibition of splicing and application of antisense and ribozyme technologies
IMMUNOLOGY AND IMMUNOTECHNOLOGY	BTB050	CO1	Study basic concepts of immunology
		CO2	MHC and their role in transplantation
		CO3	Cytokines and their role in immune system, Tumor Immunology
		CO4	Autoimmune diseases , causes and treatment
		CO5	Hypersensitivity, Vaccine production
LAB – II	BTB060	CO1	Students are trained to get the skills in the field of Molecular biology and Genetic engineering
		CO2	Isolation and purification of nucleic acids and their quantification
		CO3	Study of antigen and antibody interactions
		CO4	Preparation of wine and analysis of food samples
		CO5	Visit to Bio-tech Industries
CELL SIGNALLING AND COMMUNICATION	BTB220	CO1	Understanding the multi-cellularity of organisms
		CO2	role of extracellular matrix in signalling
		CO3	various signalling pathways from the cell surface to the nucleus
		CO4	cell signalling in plants
		CO5	microbe-plant and insect-plant interaction.

FOOD AND ENVIRONMENTAL BIOTECHNOLOGY	BTB210	CO1	Comprehensive insight into the fermented foods and enzymes in food industry
		CO2	Obtain knowledge of functional foods, genetically modified foods and nutraceuticals
		CO3	Students will be able to understand current status of biotechnology in environment protection.
		CO4	Understand the principles of bioremediation and significance of GMO to the environment.
		CO5	waste management.
BIOPROCESS ENGINEERING AND TECHNOLOGY	BTC040	CO1	understand the different metabolic pathways of microorganisms
		CO2	To have the comprehensive insight into the different type of fermenter
		CO3	To obtain knowledge of media design and industrial culture
		CO4	Students will be able to understand different type of fermenter and bioreactor
		CO5	Understand the principles of downstream processing, To understand the enzyme technology and their applications in industry.
GENETIC ENGINEERING	BTC050	CO1	To have the comprehensive insight into the different enzymes used in Genetic engineering lab
		CO2	To obtain knowledge of construction of vectors
		CO3	Students will be able to understand different type of cloning methods.
		CO4	Understand the principles of PCR & types
		CO5	To know the different sequencing methods

LAB- III	BTC060	CO1	To have the comprehensive insight into the different enzymes kinetics
		CO2	Production of different compounds by fermentation
		CO3	to study the plant tissue culture methods
		CO4	Estimation of different bio active compounds
		CO5	Preparation of animal cell culture media and anti-angiogenic activity
BIOSTATISTICS, BIOINFORMATICS AND BIOENTERPRENURSHIP	BTC220	CO1	Application of statistics to understand and analyse the experimental results of biological sciences
		CO2	Retrieval of biological data
		CO3	phylogenetic analysis
		CO4	Primer designing, Insight into start-up companies.
		CO5	drug discovery and molecular docking
APPLIED BIOTECHNOLOGY		CO1	Scope of Biotechnology in India
		CO2	Use of plant tissue culture to society
		CO3	Applications of animal cell culture in medical field
		CO4	Applications of Bio-technology in solving agricultural problems
		CO5	Production of bio-pesticides and bio-fertilizers.
PLANT BIOTECHNOLOGY	BTD010	CO1	General Introduction to tissue culture
		CO2	Use of plant tissue culture to society
		CO3	Haploid technology to produce seedless crops
		CO4	Applications of Bio-technology in solving agricultural problems
		CO5	Applications of recombinant technology to produce disease free crops

ANIMAL BIOTECHNOLOGY	BTD020	CO1	General Introduction to Animal cell culture
		CO2	Use of different media to culture animal cells
		CO3	Different methods of cell separation
		CO4	Tissue Engineering using different matrices
		CO5	Cloning of animals
Project work	BTD030	CO1	Making the students to think about current scientific problems
		CO2	Designing the objectives and writing the synopsis
		CO3	Understanding the research articles
		CO4	Designing the experiments
		CO5	Analysing the data, interpretation of results and writing research papers

PG DEPARTMENT OF BIO-TECHNOLOGY

SUBJECT	COID	PO'S
MSc Biotechnology	PO1	Acquire knowledge on the fundamentals of biotechnology for sound and solid base which enables them to understand the emerging and advanced engineering concepts in life sciences
	PO2	To make the students develop interpersonal skills, written and oral communication and also to improve their body language and eye contact during presentations.
	PO3	To train the students in group discussions to develop leadership qualities and to respect the others idea and take the decisions for the welfare of society.
	PO4	To teach the students not to demoralize the others ideas and not to differentiate the intelligent and the ignorant, poor and the rich and to uphold the moral values in the society
	PO5	Upon completion of course students will have the ability to design the experiment to solve the current problems in the society related to health, environment and industries,
	PO6	Upon completion of course students will have the ability to design the experiment to solve the current problems in the society related to health, environment and industries

JSS College of Arts, Commerce and Science

Ooty Road, Mysuru – 570 025, Karnataka, India

Name of the Department: PG Biochemistry

Programmes offered: M.Sc Biochemistry

POID	PO
48032	Provides with the necessary knowledge and skills to undertake a career in research, either in industry or in an academic setting
48035	Provides the breadth and depth of scientific knowledge in Biochemistry and allied areas
48036	Equips to apply for a PhD or to gain employment in biochemistry and allied areas
48016	Provides a substantial element of hands-on research experience, with enhanced experimental skills
48022	Demonstrates detailed knowledge and understanding of the principles and theories of biochemistry
48017	Helps to understand the principle techniques of biomolecular structural characterization, including spectroscopy

PSOID	PSO
48044	Global level research opportunities to pursue PhD programme targeted approach of CSIR-NET examination
48052	Enormous job opportunities at all level of chemical, pharmaceutical, food products, life oriented material industries
48061	Specific placements in R&D and quality control or analysis division of nutraceutical, pharmaceutical industries and allied division

Course Title	Course Code	COID	CO
Analytical Biochemistry-I	BCA040	47911	Specify in depth cell fractionation techniques
Analytical Biochemistry-I	BCA040	47912	Write down in details with application, if applicable, chromatography and spectroscopy
Analytical Biochemistry-I	BCA040	47913	Write down in details with application, if applicable, principle and applications of electrophoresis
Analytical Biochemistry-I	BCA040	47914	Understand the classification and characteristics of centrifugation and microscopy
Chemistry and Metabolism of Proteins and Nucleic Acids	BCA050	47922	Identify the details of amino acids and proteins

Chemistry and Metabolism of Proteins and Nucleic Acids	BCA050	47923	Understand in details with application, if applicable, nitrogen metabolism and degradation
Chemistry and Metabolism of Proteins and Nucleic Acids	BCA050	47924	Write down the classification and characteristics of synthesis of amino acids and proteins
Chemistry and Metabolism of Proteins and Nucleic Acids	BCA050	47925	Write down in details with application, if applicable, metabolism of nucleic acids
Experiments in Biochemical Techniques and Enzymology and Seminar	BCA060	47926	Identify the details of spectrophotometer
Experiments in Biochemical Techniques and Enzymology and Seminar	BCA060	47927	Identify the details of specific activity of enzymes
Experiments in Biochemical Techniques and Enzymology and Seminar	BCA060	47928	Deliberate the characteristics of gel electrophoresis
Experiments in Biochemical Techniques and Enzymology and Seminar	BCA060	47929	Deliberate the characteristics of use of pipettes
Enzymology	BCA230	47930	Write down in details with examples enzyme kinetics
Enzymology	BCA230	47931	Identify in details with examples enzyme catalysed reactions
Enzymology	BCA230	47932	Identify the characteristics of cooperativity reactions
Enzymology	BCA230	47933	Learn the classification and characteristics of multienzyme complex reactions
Chemical Principles and Biochemical Reactions	BCA250	47934	Specify in details with examples chemical principles and bonding
Chemical Principles and Biochemical Reactions	BCA250	47935	Write down in depth thermodynamics
Chemical Principles and Biochemical Reactions	BCA250	47936	Learn in details with application, if applicable, stereochemistry
Chemical Principles and Biochemical Reactions	BCA250	47937	Deliberate in depth secondary metabolites
Analytical Biochemistry–II	BCB040	47938	Identify in details with application, if applicable, flow cytometry

Analytical Biochemistry–II	BCB040	47940	Specify the characteristics of biosensor technology
Analytical Biochemistry–II	BCB040	47941	Understand in details with examples spectroscopy

Analytical Biochemistry–II	BCB040	47942	Write down the details of x-ray crystallography
Chemistry and Metabolism of Carbohydrates and Lipids	BCB050	47943	Understand the classification and characteristics of chemistry of carbohydrates
Chemistry and Metabolism of Carbohydrates and Lipids	BCB050	47944	Deliberate the classification and characteristics of bioenergetics
Chemistry and Metabolism of Carbohydrates and Lipids	BCB050	47945	Write down the characteristics of chemistry of lipids
Chemistry and Metabolism of Carbohydrates and Lipids	BCB050	47946	Learn in depth metabolism of lipids
Experiments in Immunology and Biochemical Estimations and Seminar	BCB060	47947	Understand in details with examples antigen antibody reactions
Experiments in Immunology and Biochemical Estimations and Seminar	BCB060	47949	Specify in details with application, if applicable, oils and fats estimation
Experiments in Immunology and Biochemical Estimations and Seminar	BCB060	47950	Understand in depth acid value principle and determination
Experiments in Immunology and Biochemical Estimations and Seminar	BCB060	47951	Identify in details with examples mitosis and meiosis
Immunology and Microbiology	BCB250	47952	Identify in details with examples antigens and antibodies
Immunology and Microbiology	BCB250	47953	Understand the details of cellular basis of immunity
Immunology and Microbiology	BCB250	47954	Identify the classification and characteristics of MHC Complex
Immunology and Microbiology	BCB250	47955	Learn in depth basic concepts of microbiology
Human Physiology and Nutrition	BCB260	47956	Specify the classification and characteristics of blood and respiratory systems
Human Physiology and Nutrition	BCB260	47957	Identify in depth digestive and excretory systems

Human Physiology and Nutrition	BCB260	47958	Learn in details with application, if applicable, concepts of nutrition
Human Physiology and Nutrition	BCB260	4759	Specify the details of vitamins and minerals
Cell Biology, Endocrinology and Cell Signaling	BCC070	47961	Specify in details with examples cellular organization

Cell Biology, Endocrinology and Cell Signaling	BCC070	47962	Learn the characteristics of endocrinology
Cell Biology, Endocrinology and Cell Signaling	BCC070	47963	Learn in depth cell signaling
Cell Biology, Endocrinology and Cell Signaling	BCC070	47964	Write down the characteristics of membrane biology
Clinical Biochemistry	BCC050	47965	Identify in details with application, if applicable, specimen collection and analysis
Clinical Biochemistry	BCC050	47966	Specify in details with application, if applicable, metabolic disorders
Clinical Biochemistry	BCC050	47967	Write down the characteristics of hormonal disorders
Clinical Biochemistry	BCC050	47968	Write down in details with application, if applicable, hematology
Biotechnology and Research Methodology	BCC230	47973	Understand the concepts of biotechnology
Biotechnology and Research Methodology	BCC230	47974	Provide examples of current applications of biotechnology
Biotechnology and Research Methodology	BCC230	47975	Explain the concept and application of enzyme technology
Biotechnology and Research Methodology	BCC230	47976	Explain the general principles of generating transgenic plants, animals and microbes
Experiments in Clinical Biochemistry and Molecular Biology	BCC060	47977	Specify the details of urine and blood analysis
Experiments in Clinical Biochemistry and Molecular Biology	BCC060	47978	Specify the characteristics of determination of enzyme activity
Experiments in Clinical Biochemistry and Molecular Biology	BCC060	47979	Identify the classification and characteristics of DNA quantification and analysis

Experiments in Clinical Biochemistry and Molecular Biology	BCC060	47980	Deliberate the details of isolation of nucleic acids from plant, animal and microbial sources
Molecular Biology and Gene Regulation	BCD010	47981	Write down the characteristics of DNA characteristics and replication
Molecular Biology and Gene Regulation	BCD010	47982	Write down in depth Transcription and regulation
Molecular Biology and Gene Regulation	BCD010	47983	Learn in depth translation

Molecular Biology and Gene Regulation	BCD010	47985	Identify in depth translational regulation
Genetics and Genetic Engineering	BCD070	47986	Understand the importance of plasmids and viruses to genetic engineering.
Genetics and Genetic Engineering	BCD070	47987	Understand the principle of Mendelism and gene development
Genetics and Genetic Engineering	BCD070	47988	Describe how mutations occur and scope of population genetics
Genetics and Genetic Engineering	BCD070	47989	Explain the principle of genetic engineering
Nutrition and Health	BCC740	47990	Identify the details of basic concepts of nutrition
Nutrition and Health	BCC740	47991	Learn in details with application, if applicable, nutrients
Nutrition and Health	BCC740	47992	Deliberate in details with application, if applicable, nutrition associated problems
Nutrition and Health	BCC740	47993	Write down in depth social health problems
Project Work OR Dissertation	BCD060	47994	Identify the classification and characteristics of literature survey
Project Work OR Dissertation	BCD060	47995	Learn in depth define of objective of project work
Project Work OR Dissertation	BCD060	47996	Write down the classification and characteristics of design of experimental methods
Project Work OR Dissertation	BCD060	47997	Understand the details of result analysis and interpretation

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
Ooty Road, Mysuru – 570 025, Karnataka, India

2021-22

Name of the Department: Department of MCA (I and II sem)

Programmes offered: Computer Application

Course outcomes

Course Title	Course Code	CO No./Id	CO Statement
Java Programming	IT11	CO1	Demonstrate and implement programs using components and constructs of a Java language
		CO2	Identify classes, objects, members of a class and use packages and interfaces appropriately.
		CO4	Use the concept of string, event handling, simple data structures like arrays and members of classes of Java API in application development
Data Structure and Algorithms	IT12	CO1	Design and analyze programming problem statements
		CO2	Design appropriate data structures and algorithm
		CO3	Demonstrate linear data structure
		CO4	Implement tree, search, graph
Computer Organisation and Architecture	IT13	CO1	Computer Architecture-Hardware, software
		CO2	Design of Interfaces
		CO4	Addressing Modes
Operating System Concepts	IT14	CO1	Recognize the structure of operating system, interaction of an operating system and application programs.
		CO2	Analyze the various programming paradigms viz., multi-process and multi-threaded programming.
		CO3	Examine the various resource and memory management techniques.
		CO4	Distinguish the different features of real time and mobile operating systems.
		CO5	Identify current issues in system security; demonstrate various factors can influence the overall performance of an operating system.

Computer Networks	IT15	CO1	Analyze and distinguish the basic concepts, principles and techniques of data communication along with the layers of OSI and TCP/IP model.
		CO2	Independently understand and distinguish the concept of links, nodes and data transmission issues in the network.
		CO3	Capability to categorize wired LANs: Ethernet, IPv4 addresses and performance of The network-layer.
		CO4	Design and demonstrate the services of TCP and UDP.
Management Information System	BT11	CO1	Apply the different strategies for the management of business to formulate business process.
		CO2	Analyze the need for business process re-engineering, and the process of making.
		CO3	Analyze and examine business information needs to facilitate evaluation of strategic alternatives.
		CO4	Apply Management Information Systems knowledge and skills learned to facilitate the acquisition, development, deployment, and management of information systems.
Mathematical foundations	MT11	CO1	Implement statistical measures and explore its applications
		CO2	Analysis of computational errors and design of algorithms to solve a set of linear equations.
		CO3	Applying the concepts of vector and linear functions in real time applications.
		CO4	Apply the notion of relations on finite structures, like strings and analyze algorithms using the concept of functions.
		CO5	Explore the properties of Graph theory and its applications in computer science.
Python Programming	IT21	CO1	Design and apply a solution clearly, accurately in a program using python.
		CO2	Comprehend and Apply knowledge in real time situational problems and think creatively about solutions.
		CO3	Apply the best features of mathematics, engineering and natural sciences to program using python.
		CO4	Apply object-oriented programming concepts to develop dynamic interactive Python applications.
Software Architecture	IT22	CO1	Comprehend the need and importance of software architectures.
		CO2	Differentiate various architectural styles based on requirement.

		CO4	Apply pattern oriented architecture by understanding patterns and their descriptions.
Optimization Techniques	MT21	CO1	Understand the role and principles of optimization techniques in business world (Understand)
		CO3	Apply the optimization techniques in business environments (Apply)
		CO4	Illustrate and infer for the business scenario (Analyze)
		CO5	Analyze the optimization techniques in strategic planning for optimal gain. (Analyze)
Advanced Internet Technologies	IT23	CO1	Outline the basic concepts of Advance Internet Technologies (Understand)
		CO2	Design appropriate user interfaces and implements webpage based on given problem Statement (Apply)
		CO3	Implement concepts and methods of NodeJS (Apply)
		CO4	Implement concepts and methods of Angular (Apply)
		CO5	Build Dynamic web pages using server-side PHP programming with Database Connectivity (Apply)
Analysis and Design of Algorithms	IT24	CO1	Apply object oriented techniques to solve bigger computing problems
		CO2	Explore the knowledge of computational complexity, approximation and randomized algorithms
		CO3	Analyze the range of the algorithm and the notion of tractable and intractable problems
		CO4	Design and analyze a wide range of searching and sorting algorithms
		CO5	Implementation of graph and matching algorithms
DBMS	IT 25	CO2	Outline the basic concepts of DBMS (Understand)
		CO3	Design appropriate user interfaces and implements based on given problem Statement (Apply)
		CO4	Implement concepts and methods of queries(Apply)
NOSQL	ET22	CO1	Demonstrate competency in describing how NoSQL databases differ from relational databases from a theoretical perspective.
		CO2	Demonstrate competency in designing NoSQL database management systems
		CO3	Use of a number of NoSQL databases to store and retrieve data and perform aggregation functions
		CO4	Demonstrate competency in selecting a particular NoSQL database for different applications.
		CO5	Execute various CRUD operations with MongoDB.

Direct Assessment:

	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
IT11	100	95.8	76.19	96.3	93.3	76.7	93.3	93.9		71.111	95.8	88.9
IT12	78.23	100	98.23	100	100	98.2	100	100		98.23	78.23	100
IT13	100	100	100	100	100	100	100	100	100	100	30	50
IT14	61	30	66	100	66	61	60	61		60	100	61
IT15	100	100	100	100	100	100	100	100	100	100	100	100
BT11	98.23	98.2	100	98.2	100	100	98.2	100	100	98.2	98.2	98.23
MT11	100	100	100	100	100	100	100	100		100	100	100
IT21	100	100	100	100	100	100	100	100		100	100	100
IT22	100	100	100	100	90	100	100	100	100	100	100	100
MT21	71.429	66.7	66.67	85	60	71.4	60	83.3		60	100	100
IT23	100	100	100	100	100	100	100	100	86	100	100	100
IT24	59.167	64.2	53.3333	100	68	61.7	61.7	61.7		63.333	63.3	66.7
IT25	100	100	100	100	100	100	100	100	100	100	100	100
ET22	97.82	97.8	98.2	100	100	97.8	97.8	100		97.82	97.8	97.82

2. Indirect Assessment

Response by	PO1	PO2	PO3	PO4	PO5	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6	PSO7
Students	100	100	100	100	100	100	100	100	100	100	100	100
Teachers	100	100	100	100	100	100	100	100	100	100	100	100
Parents	100	100	100	100	100	100	100	100	100	100	100	100
Alumni	100	100	100	100	100	100	100	100	100	100	100	100
Employers	100	100	100	100	100	100	100	100	100	100	100	100
Average	100	100	100	100	100	100	100	100	100	100	100	100
Av*0.2	20	20	20	20	20	20	20	20	20	20	20	20

JSS COLLEGE OF ATRS, COMMERCE AND SCIENCE
OOTY ROAD MYSURU-25
PG DEPARTMENT OF PHYSICS
2021-22

COURSE	COURSE CODE	COID	CO'S
Classical Mechanics	PHY101	CO1	Deliberate the characteristics of Mechanics of a system of particles
		CO2	Specify in depth The Lagrangean method
		CO3	Learn in details with examples Central forces
		CO4	Write down the details of Hamilton's equations
		CO5	Deliberate the characteristics of Canonical transformations
Mathematical Methods of Physics 1	PHY102	CO1	Specify the characteristics of Curvilinear coordinates and Tensors
		CO2	Write down in depth Tensors
		CO3	Learn in details with application, if applicable, Differential equations, Hermite function and Laguerre functions
		CO4	Write down the details of Special functions
		CO5	Write down in details with application, if applicable, Bessel functions
Mathematical Methods of Physics 2	PHY103	CO1	Understand the classification and characteristics of Linear vector space
		CO2	Specify the characteristics of Linear representations of groups
		CO3	Deliberate in details with application, if applicable, Rotation group
		CO4	Understand the details of Fourier transforms

		CO5	Understand in details with examples Integral equations
Optics, Classical Electrodynamics, Plasma Physics	PHY104	CO1	Write down in details with examples Electric multipole moments
		CO2	Deliberate the characteristics of Potential formulation
		CO3	Specify in details with application, if applicable, Fields of moving charges and radiation
		CO4	Learn the characteristics of Radiating systems
		CO5	Learn the details of Relativistic electrodynamics
Continuum Mechanics and Relativity	PHY201	CO1	Write down the details of Continuum mechanics of solid media
		CO2	Understand the characteristics of Fluid mechanics
		CO3	Deliberate in details with examples Minkowski space-time
		CO4	Specify the classification and characteristics of Relativistic mechanics of a material particle
		CO5	Specify the characteristics of Einstein's equations
Thermal Physics	PHY202	CO1	Identify the classification and characteristics of Thermodynamics Preliminaries
		CO2	Deliberate in depth Entropy
		CO3	Specify in depth Phase equilibria
		CO4	Deliberate the characteristics of Classical Statistical Mechanics
		CO5	Deliberate the classification and characteristics of Quantum Statistical Mechanics

Quantum Mechanics 1	PHY203	CO1	Understand in depth The wave function and uncertainty Principle
		CO2	Specify in depth Formalism of quantum mechanics
		CO3	Understand the details of Schrodinger equation in one dimension
		CO4	Deliberate the details of Angular Momentum
		CO5	Understand in depth Schrodinger equation in three dimensions
Spectroscopy and Fourier Optics	PHY204	CO1	Specify the details of Atomic spectroscopy
		CO2	Identify in details with application, if applicable, Nuclear magnetic resonance
		CO3	Specify in depth Microwave spectroscopy
		CO4	Specify in depth Infrared spectroscopy
		CO5	Write down in details with application, if applicable, Raman spectroscopy
Quantum Mechanics 2	PHY301	CO1	Learn in details with application, if applicable, The time-independent perturbation theory
		CO2	Learn the characteristics of The Variational Principle
		CO3	Understand in details with application, if applicable, WKB Approximation
		CO4	Deliberate in details with examples Adiabatic approximation
		CO5	Deliberate in details with application, if applicable, Time-dependent perturbation theory
Condensed Matter Physics	PHY302	CO1	Write down the classification and characteristics of X-ray crystallography
		CO2	Identify in details with examples Atomic scattering factor
		CO3	Specify in details with examples Electron and neutron diffraction
		CO4	Identify in details with examples Crystal growth techniques
		CO5	Learn the details of Disordered materials

Nuclear and Particle Physics	PHY303	CO1	Specify in details with application, if applicable, Properties of the Nucleus
		CO2	Learn in details with application, if applicable, Nuclear Models
		CO3	Specify the characteristics of Nuclear reactions
		CO4	Deliberate in depth Nuclear decay modes
		CO5	Understand the classification and characteristics of Interaction of nuclear radiation with matter
Solid State Physics 1	PHY304	CO1	Specify in details with application, if applicable, basic concepts of properties of Solid
		CO2	Deliberate in details with application, if applicable, Dielectrics; Properties and classification
		CO3	Specify the classification and characteristics of Ferroelectrics; Properties and classification
		CO4	Specify the characteristics of thermal and vibrational properties of solids
		CO5	Learn the characteristics of tight-binding approximation
Nuclear Physics 1	PHY305	CO1	Specify in details with examples Nuclear detectors
		CO2	Understand in depth Nuclear pulse techniques
		CO3	Learn the details of Shell model
		CO4	Understand the classification and characteristics of Collective model
		CO5	Identify the classification and characteristics of Nilsson model

Solid State Physics 2	PHY401	CO1	Learn the details of X-ray diffraction by crystals
		CO2	Identify the details of Experimental techniques
		CO3	Deliberate in depth Structure analysis
		CO4	Learn the classification and characteristics of Particle Size study of Fibre structure
		CO5	Specify in depth Imperfections in solids
Solid State Physics 3	PHY402	CO1	Write down in details with application, if applicable, Free electron theory of metals
		CO2	Identify the characteristics of Electrical conductivity
		CO3	Deliberate in details with examples Hall effect
		CO4	Write down the classification and characteristics of Elemental and Compound Semiconductors
		CO5	Deliberate in details with application, if applicable, Carrier concentrations
Nuclear Physics 2	PHY403	CO1	Write down the details of nuclear fission
		CO2	Write down in details with application, if applicable, Neutron transport equation using elementary diffusion theory
		CO3	Specify the details of Fermi age theory
		CO4	Specify in depth homogeneous reactor
Nuclear Physics 3	PHY404	CO1	Write down the details of Deuteron
		CO2	Understand in details with application, if applicable, Deuteron magnetic and Quadrupole moments
		CO3	Understand the details of Nucleon-nucleon scattering processes
		CO4	Write down in details with examples Theory of scattering of slow neutrons

		CO5	Specify in details with examples Plane wave theory of direct reactions
Accelerator Physics	PHY407	CO1	Specify in details with application, if applicable, ion Source
		CO2	Deliberate the details of Alternating gradient machines
		CO3	Understand the working of Betatron
		CO4	Learn the details of Ion sources
		CO5	Write down the characteristics of Townsend theory
Electronics	PHY413	CO1	Learn analyzing digital and analog devices and circuits
		CO2	Analyze components associated with digital and analog electronic systems
		CO3	Demonstrate proficiency in the use of electronic equipment and devices
		CO4	Assist in the design, operation, and troubleshooting of electronic systems
		CO5	Analyze electronics devices and circuits using computer simulations

JSS COLLEGE OF ATRS, COMMERCE AND SCIENCE
OOTY ROAD MYSURU-25
PG DEPARTMENT OF PHYSICS
2021-22

SUBJECT	COID	PO'S
MSc Physics	PO1	Identify, formulate and analyze complex problems using first principles.
	PO2	A research oriented learning to develop analytical problem-solving approaches.
	PO3	Understand the basic concepts, fundamental principles and the scientific Theories.
	PO4	Acquire skills in handling scientific instruments, planning and performing in laboratory experiments
	PO5	Think creatively in explaining solutions to the problems

JSS COLLEGE OF ATRS, COMMERCE AND SCIENCE

**OOTY ROAD MYSURU-25
PG DEPARTMENT OF PHYSICS
PO-ATTAINMENT-INDIRECT 2021-22**

SUBJECT	COID	PO'S
MSc Physics	PO1	Identify, formulate and analyze complex problems using first principles.
	PO2	A research oriented learning to develop analytical problem-solving approaches.
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	PO4	Acquire skills in handling scientific instruments, planning and performing in laboratory experiments
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Lists and Attainment of PO, PSO and COs
PO M.SC. BOTANY (2021-2022)

Sl. No.	POID	PO
1	BOT20PO1	Conduct investigations of complex problems by the use of research-based knowledge on an independent term project.
2	BOT20PO2	Transfer of appropriate knowledge and methods from one topic to another within the subject.
3	BOT20PO3	Carry out practical work, in the field and in the laboratory, with minimal risk.
4	BOT20PO4	Able to think logically and organize tasks into a structured form and assimilate knowledge and ideas based on wide reading of text books and through the internet.
5	BOT20PO5	Apply the scientific knowledge of basic science, life sciences and fundamental process of plants to study and analyze any plant form.
6	BOT20PO6	Knowledge and understanding of the range of plant biology in terms of structure, function and environmental relationships.
7	BOT20PO7	Apply reasoning informed by the contextual knowledge to assess plant diversity, and the consequent responsibilities relevant to the biodiversity conservation Practice.

PSO M.SC. BOTANY

Sl. No.	COURSE	PSOID	PSO
1.	Algal Biology and Biotechnology	BOA230	Phylogeny, thallus organization, economic and ecological importance of algal community
2.	Biochemistry and Plant Physiology	BOC030	Biomolecules, metabolic pathways and stress physiology in plants
3.	Cell Biology and Genetics	BOB020	Cell originals and Mendelian principles
4.	Ecology, Conservation Biology and Phytogeography	BOD010	Diversity of vegetation, distribution and its conservation
5.	Economic Botany	BOB220	Economic values of different crop plants and their applications
6.	Major Project	BOD020	Hands on experience in various fields of plant science
7.	Molecular Biology	BOC040	Molecular level organization in prokaryotes and eukaryotes with respect to various mechanisms involved
8.	Plant Anatomy and Histochemistry	BOB210	Anatomical features and organization of cells in plants
9.	Plant Breeding and Evolutionary Biology	BOB030	Plant breeding methods, procedures and their application for crop improvement
10.	Plant Biotechnology	BOC050	Tissue culture techniques and its application in development of resistant varieties
11.	Plant Propagation and Plant Breeding	BOC230	Propagation methods and plant breeding procedures and their application in different fields
12.	Plant Propagation Techniques	BOC640	Propagation methods and procedures and their application in different fields
13.	Phycology, Bryophytes, Pteridophytes and Gymnosperms	BOA050	Distribution, classification and phylogeny of lower plant communities
14.	Phytopathology	BOA240	Concepts of plant diseases defense mechanisms in plants and study of plant diseases
15.	Reproductive Biology of Angiosperms and Plant Morphogenesis	BOB010	Embryological study of growth and development using plant models
16.	Seed Technology	BOD210	Industrial scale processing of seeds up to marketing
17.	Systematics of Angiosperms	BOA060	Angiospermic plant family study with their phylogeny
18.	Virology, Bacteriology, Mycology and Plant Pathology	BOA040	Diversity, distribution of microorganism with respect to their economic aspects

CO M.SC. BOTANY (2021-2022)

Sl. No.	COURSE	COID	CO
1.	Algal Biology and Biotechnology	BOA2301	Specify in depth of thallus organization and phylogeny in algae
2.	Algal Biology and Biotechnology	BOA2302	Understand the details of toxins, blooms and distributions of algae
3.	Algal Biology and Biotechnology	BOA2303	Deliberate in depth about cultivation and marketing algae
4.	Algal Biology and Biotechnology	BOA2304	Specify the details of Algal products and uses
5.	Biochemistry and Plant Physiology	BOC0301	Learn in details with biomolecules and their function
6.	Biochemistry and Plant Physiology	BOC0302	Understand in depth about solute transport and photosynthesis in plants
7.	Biochemistry and Plant Physiology	BOC0303	Specify the details of metabolism of nitrogen, lipids and plant hormones
8.	Biochemistry and Plant Physiology	BOC0304	Understand in depth about Stress physiology
9.	Cell Biology and Genetics	BOB0201	Learn in detail about cell membranes transport and proteins
10.	Cell Biology and Genetics	BOB0202	Deliberate the Functions of cell organelles, programmed cell death
11.	Cell Biology and Genetics	BOB0203	Specify the extensions of Mendelian principles
12.	Cell Biology and Genetics	BOB0204	Learn about Sex determination and dosage compensation
13.	Ecology, conservation Biology and Phytogeography	BOD0101	Understand the diversity of ecosystem and types of ecosystems
14.	Ecology, conservation Biology and Phytogeography	BOD0102	Learn the in details of pollution and environmental biology
15.	Ecology, conservation Biology and Phytogeography	BOD0103	Study the importance of biodiversity and conservation biology
16.	Ecology, conservation Biology and Phytogeography	BOD0104	Detailed study of phytogeography and crop distribution
17.	Economic Botany	BOB2201	Specify the details of cereals, millets, pulses, oil yielding plants and study of horticultural plants and floriculture
18.	Economic Botany	BOB2202	Deliberate the characteristics of sugar yielding plants, spices and condiments

19.	Economic Botany	BOB2203	Understand the importance of fiber, timber and gum yielding plant
20.	Economic Botany	BOB2204	Deliberate on the medicinal plants and their applications
21.	Major Project	BOD0201	Learn the details of literature survey and methodology in research
22.	Molecular Biology	BOC0401	Identify the characteristics of genetic materials and its replication
23.	Molecular Biology	BOC0402	Learn the details of molecular basis of mutation, repair and recombination
24.	Molecular Biology	BOC0403	Deliberate the details of RNA formation, processing of RNA and post-RNA
25.	Molecular Biology	BOC0404	Understand in depth of gene regulation in prokaryotes and eukaryotes
26.	Plant Anatomy and Histochemistry	BOB2101	Learn in details of primary vegetative body of the plants
27.	Plant Anatomy and Histochemistry	BOB2102	Deliberate in details of differentiation in vascular tissues and study of apical meristems in shoot and root
28.	Plant Anatomy and Histochemistry	BOB2103	Deliberate the characteristics of secondary growth
29.	Plant Anatomy and Histochemistry	BOB2104	Understand the details of plant histochemistry
30.	Plant Breeding and Evolutionary Biology	BOB0301	Learn in depth about plant breeding methods and techniques
31.	Plant Breeding and Evolutionary Biology	BOB0302	Understand the details of breeding for specific purposes
32.	Plant Breeding and Evolutionary Biology	BOB0303	Learn the details of Nature of evolution
33.	Plant Breeding and Evolutionary Biology	BOB0304	Identify the characteristics of variation and speciation
34.	Plant Biotechnology	BOC0501	Understand in depth about plant tissue culture and its techniques
35.	Plant Biotechnology	BOC0502	Specify the genetic engineering and tools used in it
36.	Plant Biotechnology	BOC0503	Understand the details of genetic manipulation, transgenic approaches to produce resistant plants
37.	Plant Biotechnology	BOC0504	Learn the details of engineering of crop plants for production of secondary metabolites
38.	Plant Propagation and Plant Breeding	BOC2301	Learn the details of importance of plant propagation, vegetative propagation and micro propagation

39.	Plant Propagation and Plant Breeding	BOC2302	Understanding of basic concepts of plant breeding and genetics
40.	Plant Propagation and Plant Breeding	BOC2303	Study types, purposes of plant breeding
41.	Plant Propagation and Plant Breeding	BOC2304	Deliberate study of advanced breeding aspects
42.	Plant Propagation Techniques	BOC6401	Learn the details of importance of plant propagation
43.	Plant Propagation Techniques	BOC6402	Understand in depth about types of vegetative propagation
44.	Plant Propagation Techniques	BOC6403	Learn the techniques of budding and layering
45.	Plant Propagation Techniques	BOC6404	Deliberate in details with examples of micro propagation in forestry and horticulture plants
46.	Phycology, Bryophytes, Pteridophytes and Gymnosperms	BOA0501	Understand the details of diversity, distribution, pigmentation and life cycle of algae
47.	Phycology, Bryophytes, Pteridophytes and Gymnosperms	BOA0502	Deliberate in depth of Bryophytes life cycle, classification, phylogeny and Economic importance
48.	Phycology, Bryophytes, Pteridophytes and Gymnosperms	BOA0503	Understand the details of Pteridophytes life cycle, phylogeny, classification, economic importance and anatomy
49.	Phycology, Bryophytes, Pteridophytes and Gymnosperms	BOA0504	Write down in details with examples Gymnosperms history, reproduction, economic importance and interrelationship
50.	Phytopathology	BOA2401	Learn the details of the concept, causative agents and disease cycle of plant pathogens
51.	Phytopathology	BOA2402	Deliberate the details of defense mechanisms in plants and its genetics
52.	Phytopathology	BOA2403	Study of Management of plant diseases
53.	Phytopathology	BOA2404	Identify in details with examples of diseases in crop plants
54.	Reproductive Biology of Angiosperms and Plant Morphogenesis	BOB0101	Understanding the micro sporogenesis and historical overview
55.	Reproductive Biology of Angiosperms and Plant Morphogenesis	BOB0102	Specify in details with examples about mega sporogenesis, fertilization, endosperm and embryo
56.	Reproductive Biology of Angiosperms and Plant Morphogenesis	BOB0103	Specify the details of models and concepts of plant morphogenesis

57.	Reproductive Biology of Angiosperms and Plant Morphogenesis	BOB0104	Understand in details with examples of plant growth and development, photo morphogenesis
58.	Seed Technology	BOD2101	Understand the seed science and concepts
59.	Seed Technology	BOD2102	Study the seed production and processing methods
60.	Seed Technology	BOD2103	Learn about seed quality parameters and tests
61.	Seed Technology	BOD2104	Deliberate the procedure of seed certification
62.	Systematics of Angiosperms	BOA0601	Understand the principles and applications of Taxonomy of angiosperms
63.	Systematics of Angiosperms	BOA0602	Specify the details of taxonomic literature
64.	Systematics of Angiosperms	BOA0603	Deliberate in details with examples Dicot and monocot family and features of classification systems
65.	Systematics of Angiosperms	BOA0604	Specify in details molecular systematics with examples of softwares and databases
66.	Virology, Bacteriology, Mycology and Plant Pathology	BOA0401	Learn the classification and characteristics of viruses, viroids, prions and diseases of it
67.	Virology, Bacteriology, Mycology and Plant Pathology	BOA0402	Deliberate in details with examples of Bacteria, archeabacteria, actinomycetes and mycoplasma and its economic importance
68.	Virology, Bacteriology, Mycology and Plant Pathology	BOA0403	Specify the Fungal diversity, life cycle and economic importance of fungi
69.	Virology, Bacteriology, Mycology and Plant Pathology	BOA0404	Understand in details of etiology, distribution and management of plant disease

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
Ooty Road, Mysuru

Department: PG Kannada

Programme Name: MA Kannada

Programme Code: MKAN01

Session/Year: 2021-22

List of POs & PSOs

POID	PO Statement
PO1	Demonstrate critical reading, writing, and thinking skills. Write well developed, focussed and effective paragraphs, which support a clear thesis statement, and demonstrate competence in Standard Kannada usage.
PO2	Get the opportunity to opt for career in the field of social media
PO3	Helps to pursue research work at M.Phil and Doctoral level
PO4	Help to communicate effectively and fluently at various occasions
PO5	Analyse and interpret text written in Dravidian Language.
PO6	Learn to write logical and informative papers
PO7	Imbibe good ethics explored in the works of great writers.
PO8	Learn to participate effectively in debates, group discussions, seminars.

Course Title: Prachina Kannada Sahithya : Patya : Adipurana

Course Code: KNA010

List of COs

CO ID	CO Statement
CO1	Recognize and understand figurative language, such as allegory and metaphor, and literary techniques, like irony, rhyme, and allusion.
CO2	Identify the unique qualities of the authors studied, and compare and contrast them
CO3	Analyze literary works for their structure and meaning
CO4	Able to effectively communicate ideas related to the literary work

Course Title: Prachina Kannada Sahithyada Hinnele

Course Code: KNA020

List of COs

CO ID	CO Statement
CO1	To enable them to have a historical perspective of the development over the centuries. CO2: Identify the unique qualities of the authors studied, and compare and contrast them
CO2	Identify the unique qualities of the authors studied, and compare and contrast them
CO3	Demonstrate knowledge of the style, structure, and content of the assigned literary texts.
CO4	Develop a well-written argument about one or more literary texts or authors, and accurately cite literary and other sources

Course Title: Kannada Chandasinna Adhyayana

Course Code: KNA030

List of COs

CO ID	CO Statement
CO1	Familiar with Old Kannada Poetry
CO2	Adopt the correct reading of Old Kannada poetry
CO3	Identify the different forms of meters in the writings of poets of different genre
CO4	Learn to apply in creative literature

Course Title: Vimarsheya Adhyayana

Course Code: KNA040

List of COs

CO ID	CO Statement
CO1	Creates opportunity to nurture their ability to produce literary texts.
CO2	Helps to understand the process of communicating and interpreting human experience through literary representation
CO3	They learn to raise significant questions, gather relevant evidence, reach well-reasoned conclusions.
CO4	Students also develop an ethical orientation to living as their study of literature encourages them to value human actions, motivations, and differences.

Course Title: Bashavignanada Mulatatvagalu

Course Code: KNA210

List of COs

CO ID	CO Statement
CO1	They have the ability to analyse and interpret all aspects of language phenomena
CO2	Able to understand the concepts, theories, and methodologies used by linguists
CO3	Helps in qualitative and quantitative analyses of linguistic structure, and patterns of language use.
CO4	Developes a significant capacity for adaptation and the ability to question and engage in professional practice

Course Title: Madhyakaleena Kannada Sahithya : Patya

Course Code: KNB010

List of COs

CO ID	CO Statement
CO1	Able to understand the background for the linguistic situation of the period.
CO2	Appreciate the representative poets, novelists and works of Kannada literature
CO3	Identify and describe distinct literary characteristics of the literature of this time period
CO4	Able to analyze and interpret texts.

Course Title: Madhyakaleena Kannada Sahithya Hinnele

Course Code: KNB020

List of COs

CO ID	CO Statement
CO1	Helps to understand the historical and cultural contexts of the literature of this period to some major authors, works, and genres
CO2	Imbibe good ethics explored in the works
CO3	Helps to Identify the key elements that are distinctive to the artistic achievement of early modern writers.
CO4	Reflect and write analytically about the literary texts and their contexts.

Course Title: Dravida Bashavijayana

Course Code: KNB030

List of COs

CO ID	CO Statement
CO1	Earn knowledge on the Origin and Growth of Dravidian Languages
CO2	Develope the skill to write in traditional form
CO3	Acquire knowledge to analyse Old Kannada Literature
CO4	Able to make the comparative analysis of Dravidian Literature

Course Title: Kannada Vimarshe : Ayda Lekhanagalu

Course Code: KNB040

List of COs

CO ID	CO Statement
CO1	Understand the growth of Kannada Criticism
CO2	Able enough to evaluate the present genre writings
CO3	Understand to view literature in different dimensions
CO4	Learn to write analytically about the literary text and their contexts

Course Title: Kannada Vyakarangala Thoulanika Samikshe

Course Code: KNB210

List of COs

CO ID	CO Statement
CO1	Able to lidentify the different ways in which grammar has been described.
CO2	Imply the use of grammar and vocabulary in speech and writing
CO3	Learn how to analyze unfamiliar words by understanding the structure of the Language.
CO4	Increase confidence in their ability to read, comprehend, organize, and retain written information.

Course Title: Kannada Samskurthi Chinthane

Course Code: KNB220

List of COs

CO ID	CO Statement
CO1	Acquire knowledge of Different phases of Kannada Culture
CO2	Understand and adopt the values of Rich Heritage of Kannada Culture
CO3	Understand the relation between Kannada Language and Culture
CO4	Read and analyse the opinions of famous intellectuals about Kannada Culture

Course Title: Thulanika Sahithya : Kavya mattu Nataka

Course Code: KNC010

List of COs

CO ID	CO Statement
CO1	Explore the connections of literature with history, philosophy, politics, and literary theory
CO2	Analyze literary works from various genres for their structure and meaning, using correct terminology
CO3	Develop multi-dimensional characters
CO4	Help to interact, with other cultural forms of literature.

Course Title: Adunika Kannada Sahithyada Hinnele

Course Code: KNB020

List of COs

CO ID	CO Statement
CO1	Develops new thinking on modern writers and their writings.
CO2	Identify and describe distinct literary characteristics of 20th century literature
CO3	Effectively communicate ideas related to the literary works
CO4	Integrate source material into research papers smoothly

Course Title: Bharatiya Kavya Mimamse

Course Code: KNB030

List of COs

CO ID	CO Statement
CO1	Helps to unfold new spheres of study and research
CO2	Understand Indian poetics with its speciality of literary devices, Helps to gain knowledge of poetry as a literary genre.
CO3	Able to Identify and describe distinct literary characteristics of poetic forms
CO4	Able to analyse poetic works for their structure and meaning, using correct terminology

Course Title: Samashodana vidyana mattu Ganaka Gyana

Course Code: KNC040

List of COs

CO ID	CO Statement
CO1	Understand the Research methodology of Kannada Studies
CO2	Understand the historical background of Kannada Research
CO3	Learn to utilize the application of the computers
CO4	Learn the application of computers in Social media

Course Title: Upabasha Vijyayana

Course Code: KNC210

List of COs

CO ID	CO Statement
CO1	Understand various Kannada Dialects.
CO2	Learn the Phonetics of Kannada Dialects
CO3	Attempt to collect local dialects through field visits by solving survey problems
CO4	Analyse the different phases of the growth of Kannada dialects.

Course Title: Adunika Kannada Sahithya : Patya

Course Code: KND010

Name of Course In-charge/Coordinator: Dr. Prabhuswamy B

List of COs

CO ID	CO Statement
CO1	Learn different phases of the growth of Kannada novels and poems.
CO2	Understand the diverse themes according to period.
CO3	Create interest to opt these in their research work.
CO4	Motivate young writers.

Course Title: Pacshatiya Kavya Mimamse

Course Code: KND020

List of COs

CO ID	CO Statement
CO1	Acquire knowledge on western literary criticism.
CO2	Analyse the influence of western literary criticism on Kannada literature.
CO3	Develop analytical skills.
CO4	Identify the difference between eastern and western criticism.

Course Title: Samuha Madyama

Course Code: KND030

List of COs

CO ID	CO Statement
CO1	Gather knowledge on social and mass media.
CO2	Understand the working knowledge about AIR, TV Channels, cinemas and press media.
CO3	Enhanced communicative skills help in carrier opportunity.
CO4	Able to work in various positions in media sector.

Course Title: Avadika Karya

Course Code: KND040

List of COs

CO ID	CO Statement
CO1	Understand the research methodology.
CO2	Implement the knowledge in their project work.
CO3	Learn editing skills.
CO4	Helps to pursue doctoral research.

Course Title: Kannada Basha Swaroopu : Patya

Course Code: KND210

List of COs

CO ID	CO Statement
CO1	Develop the ability to analyse and interpret all aspects of language phenomena
CO2	Able to understand the concepts, theories, and methodologies used by linguists.
CO3	Helps in qualitative and quantitative analyses of linguistic structure, and patterns of language use.
CO4	Developes a significant capacity for adaptation and the ability to question and engage in professional practice

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru - 570025
Outcome Attainments 2021-22

Department: **UG Department of English**

Programme: **BA**

(NEP)

POID	PO
PO1	Students should be familiar with representative literary and cultural texts within a significant number of historical, geographical, and cultural contexts.
PO2	Students should be able to apply critical and theoretical approaches to the reading and analysis of literary and cultural texts in multiple genres
PO3	Students should be able to identify, analyze, interpret and describe the critical ideas, values and themes that appear in literary and cultural texts and understand the way these ideas, values and themes inform and impact culture and society, both now and in the past.
PO4	Students should be able to write analytically in a variety of formats, including essays, research papers, reflective writing, and critical reviews of secondary sources.
PO5	Students should be able to ethically gather, understand, evaluate and synthesize information from a variety of written and electronic sources.
PO6	Students should be able to understand the process of communicating and interpreting human experiences through literary representation using historical contexts and disciplinary methodologies.

NEP PAPERS

Course Code: FHA510

Course Title: Introduction to Literature

CO ID	CO
CO1	Acquire knowledge of Indian writing
CO2	Interpret ideas of the past and contemporary writers
CO3	Understand the impact of Indian writers
CO4	Express history through prose and poetry
CO5	Illustrate the literary background

Course Code: FHA520

Course Title: Indian Writing in English-Part I

CO ID	CO
CO1	Acquire knowledge of Indian writing
CO2	Interpret ideas of the past and contemporary writers
CO3	Understand the impact of Indian writers
CO4	Express history through prose and poetry
CO5	Illustrate the literary background

Course Code: FHB510

Course Title: Introduction to Phonetics and Linguistics

CO ID	CO
CO1	Define and explain different literary terms and forms
CO2	Acquire knowledge of the genres of literature
CO3	Apply the basic stylistics of literary texts in original writings
CO4	Study the English Language scientifically.
CO5	Understand the different patterns and sound system of the language.

Course Code: FHB520

Course Title: Indian Writing in English (Part 2)

CO ID	CO
CO1	Acquire knowledge of Indian writing
CO2	Interpret ideas of the past and contemporary writers
CO3	Understand the impact of Indian writers
CO4	Express history through prose and poetry
CO5	Illustrate the literary background

CBSC Papers

Course Code: ELC22224

Course Title: Poetry, Drama and Fiction

CO ID	CO
CO1	Apply theoretical knowledge into life effectively.
CO2	Reminisce certain literary descriptions and look at life with another perspective.
CO3	Critical understanding of literature
CO4	Relation between literature and real life.
CO5	Understand the culture and tradition prevailed in the 19 th Century
CO6	Distinguish the human qualities.
CO7	Connect, compare and contrast the life of fantasy and fact.

Course Code: ELD22224

Course Title: Poetry, Fiction & Prose

CO ID	CO
CO1	Understand the culture and tradition prevailed in 20 th Century
CO2	Enhance the narrative capacity and be rational and decisive in his approach to life
CO3	Re-relate historical events in a more apprehensive language.
CO4	Relation between literature and real life.
CO5	Learn and lead a life filled with humanitarian concern.

Course Code: ELE22224

Course Title: Modern Literature

CO ID	CO
CO1	Have better understanding of life.
CO2	Develop analytical and critical quality.
CO3	Be creative in his day to day life and face the problems
CO4	Relation between literature and real life.
CO5	Compare and contrast the historical and modern works

Course Code: ELF22224

Course Title: English Writing in Third World Countries

CO ID	CO
CO1	Understand the problems the of third world countries
CO2	Know the rift between colonised and coloniser
CO3	Understand the spirit of independence and limitations of freedom.
CO4	Get the knowledge of pre and post independent socio-political and economic aspects of India.
CO5	Develop critical and rational thinking.

JSS MAHAVIDYAPEETHA
JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru - 570025
2021-22

Department: History
Program Code: BAHE44 & BA24

Program: BA

PO ID	PO
BAHE44P01	Critically recognize the social, political, economic and cultural aspects of History
BAHE44P02	Demonstrate thinking skills by analyzing, synthesizing, and evaluating historical information from multiple sources
BAHE44P03	Correctly extract evidence from primary sources by analyzing and evaluating them in relation to their cultural and historical context
BAHE44P04	Develop an informed familiarity with multiple cultures
BAHE44P05	Emerge as a multifaceted personality who is self-dependent
BAHE44P06	Spread the messages of equality, nationality, social harmony and other human values
BAHE44P07	Comprehend the basic structures and processes of government systems and/or theoretical underpinnings
BAHE44P08	Analyze political problems, arguments, information, and/or theories
BAHE44P09	Apply methods appropriate for accumulating and interpreting data applicable to the Discipline of political science & English
BAHE44P10	Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

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JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru - 570025

Department: History

Program: BA

Program Code: BAHE44

Course Title: Introduction to Ancient World Civilization

Course Code	COs
FHA450CO1	Understand the birth of Ancient Civilizations across the world.
FHA450CO2	Obtain an idea of the geographical influences which aided the establishment of these Civilizations
FHA450CO3	Trace the evolution of political history and socio-economic characteristics of the different Civilizations
FHA450CO4	Analyze the ideas of theocracy and statehood during this time
FHA450CO5	Gather information on the various contributions in the fields on religion, law, education, language, literature, science mathematics, art and architecture

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2021-22

Department: History

Program: BA

Program Code: BAHE44

Course Title: History of Ancient India (From Earliest times to 1206 CE)

Course Code	COs
FHA460CO1	Gain an extensive insight of the political developments in Ancient India.
FHA460CO2	Become familiar with development of Human evolution and material culture in the Indian subcontinent
FHA460CO3	Analyze sources in different forms to study the history of Ancient India
FHA460CO4	Capture a glimpse of the evolving socio-cultural and religious diversities and dissents of Ancient India
FHA460CO5	Understand the progress of early State formations and political structures in Ancient India

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Ooty Road, Mysuru - 570025

Department: History

Program: BA

Program Code: BAHE44

Course Title: History of Medieval India (1206 to 1761)

Course Code	COs
FHB460CO1	The students will get the knowledge of the political history of Delhi Sultanate, Mughals and Marathas
FHB460CO2	To analyze the changes in state and society under the Delhi Sultanates with respect to their administrative structure and theory of state/kingship of the Delhi Sultanate
FHB460CO3	Understand the critical historiographical approaches on the State and also the Decline of the Delhi Sultans and Mughal Empire
FHB460CO4	To understand the significance of the Bhakti and Sufi Movements and their impact on the socio-cultural sphere
FHB460CO5	To understand the fusion of art, architecture, literature, language and fine arts in medieval India under Islamic and Hindu styles

Department: History

Program: BA

Program Code: BA24

Course Title: HISTORY OF KARNATAKA (540-1565)

Course Code	COs
BAHE24CO1	Understand the historical growth of Karnataka, sources-Geographical feature and Early kingdom
BAHE24CO2	Enable the students to learn the contributions of Chalukyas, Rastrakutas and Hoysalas development of Art and Architecture.
BAHE24CO3	Understand the glorious days of Vijayanagara Empire. The developments of Economy, Social and religious life style, contribution, Administration and culture
BAHE24CO4	Gain knowledge about Bahamani and Adilshahi's Kingdom, their contribution to Education and Culture
BAHE24CO5	Helpful for the students to understand the policy of Wodeyar and their contributions to the of growth and development of Mysore

JSS MAHAVIDYAPEETHA

**JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru - 570025**

Department: History

Program: BA

Program Code: BA24

Course Title: HISTORY OF MODERN KARNATAKA (1700-1956)

Course Code	Cos
BAHE24CO1	Acquire knowledge about Dalavoy's, Hyder Ali and Tippu-Anglo-Mysore war.
BAHE24CO2	Evaluate the Restoration of Mysore and understand Resistance against the British.
BAHE24CO3	Gain knowledge to students about the Commissioner's rule in Mysore and Development of Mysore during Diwans
BAHE24CO4	Providing basic information on Backward Class movement in Mysore
BAHE24CO5	Stimulate interest among students for Freedom Movement in Karnataka and Unification movement and Birth of United Karnataka in 1956-Historical places of Freedom struggle and unification movement

Department: History

Program: BA

Program Code: BA24

Course Title: HISTORY OF MODERN INDIA (1498-1947)

Course Code	COs
BAHE24CO1	Understand the detailed picture of the heroic resistance Indian to the company's rule, the battle of Plassi, Buxar and Carnatic wars and their effects
BAHE24CO2	Develop the knowledge of Consolidation of the British rule regulating Act 1773, subsidiary alliance, doctrine of lapse and land revenue policies
BAHE24CO3	Indian renaissance and change of administration, the great revolt of 1857. It will inspire students to appreciate and respect national leaders and values of patriotism and nationalism
BAHE24CO4	Gain knowledge about foundation of Indian National congress. Role of moderates, extremists and Gandhian era., to the students

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Department: History

Program: BA

Program Code: BA24

Course Title: HISTORY OF MODERN ASIA (1900-1990)

Course Code	COs
BAHE24CO1	Analyze the progress of Asian countries like China and Japan from insular nations to their present Dynamic position
BAHE24CO2	Understand to trace their role in world affairs in the last 3 decades of the 20 th Century
BAHE24CO3	Develop the knowledge about diverse countries of the region and provide an insight into the historical background
BAHE24CO4	Evaluate the basics of colonization and decolonization and analyse the areas of conflict in this vital region. Historical background of Iran, Arabs and Jews. Rise and growth of Arab nationalism, Zionist movement

JSS MAHAVIDYAPEETHA

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Department: History

Program: BA

Program Code: BA24

Course Title: HISTORY OF MODERN EUROPE (1789-1945)

Course Code	COs
BAHE24CO1	Enrich the knowledge to understand Europe before French revolution
BAHE24CO2	Europe of to-day which occupies a place of vital importance in world affairs
BAHE24CO3	learn the major events that challenged the life style of the people of Europe and their governments
BAHE24CO4	Acquire knowledge about the age of revolutions and the slogan of liberty equality and fraternity
BAHE24CO5	Understand the role played by the dictators and causes and impacts of World Wars
BAHE24CO6	Know the establishment of UNO and its Aims, Objectives and structures

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Ooty Road, Mysuru - 570025

Department: History

Program: BA

Program Code: BA24

Course Title: INDIA AND CONTEMPORARY WORLD (1947-2000)

Course Code	COs
BAHE24CO1	Gain knowledge about the Birth of Indian Republic, Economic Development under Nehru
BAHE24CO2	Foreign Policy of India and major crisis in India
BAHE24CO3	Understand & update knowledge on contemporary, issues and challenges
BAHE24CO4	Understand the concepts of state and power in International relations
BAHE24CO5	Conceptualize the Relations between India and other countries Alliances.

CBSC Papers

Course Code: ELC22224

Course Title: Poetry, Drama and Fiction

CO ID	CO
CO1	Apply theoretical knowledge into life effectively.
CO2	Reminiscence certain literary descriptions and look at life with another perspective.
CO3	Critical understanding of literature
CO4	Relation between literature and real life.
CO5	Understand the culture and tradition prevailed in the 19 th Century
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CO7	Connect, compare and contrast the life of fantasy and fact.

Course Code: ELD22224

Course Title: Poetry, Fiction & Prose

CO ID	CO
CO1	Understand the culture and tradition prevailed in 20 th Century
CO2	Enhance the narrative capacity and be rational and decisive in his approach to life
CO3	Re-relate historical events in a more apprehensive language.
CO4	Relation between literature and real life.
CO5	Learn and lead a life filled with humanitarian concern.

Course Code: ELE22224

Course Title: Modern Literature

CO ID	CO
CO1	Have better understanding of life.
CO2	Develop analytical and critical quality.
CO3	Be creative in his day to day life and face the problems
CO4	Relation between literature and real life.
CO5	Compare and contrast the historical and modern works

Course Code: ELF22224

Course Title: English Writing in Third World Countries

CO ID	CO
CO1	Understand the problems the of third world countries
CO2	Know the rift between colonised and coloniser
CO3	Understand the spirit of independence and limitations of freedom.
CO4	Get the knowledge of pre and post independent socio-political and economic aspects of India.
CO5	Develop critical and rational thinking.

JSS Mahavidyapeetha
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Ooty Road, Mysuru - 570025
Department: Hindi

Programme: BBA

PO ID	PO (BBA) (11)
PO 1	Inculcate human values
PO 2	Avail job opportunities in translation
PO 3	Create interest in literature

Programme Code: FBA 040 (11)

Course title : Gadya ki vidhiya aur Vyakarna

Paper 1

CO ID	CO
CO 1	1. Deliberate in details with application, if applicable, short stories of 20 th century
CO 2	2. Deliberate in details with application, if applicable, gadya by manoja guptha
CO 3	3. Understand the classification and characteristics of gadya by manoja guptha
CO 4	4. Understand in details with application, if applicable, Hindi vyakaran
CO 5	5. Learn the details of Hindi vyakaran
CO 6	6. Specify in details with application, if applicable, Hindi vyakaran

Programme Code: FBB 040 (11)

Course title : Hindi Kahani Sangrah aur Midiya lekan

Paper 2

CO ID	CO
CO 1	1 . Specify in details with application, if applicable, Midiya lekan
CO 2	2 . Understand the details of kahani of 20th cenyury
CO 3	3 . Learn in details with application, if applicable, kahani of 20th cenyury
CO 4	4 . Identify the classification and characteristics of Midiya lekan
CO 5	5. Deliberate the details of Hindi vyakaran
CO 6	6. Understand in details with application, if applicable, Midiya lekan

Programme Code: CDC050

Course title : Hindi Kavya aur Anuvada Paribhashik Shabdavali

Paper 3

CO ID	CO
CO 1	1. Deliberate the classification and characteristics of medieval and modern hindi kavya
CO 2	2 . Deliberate the characteristics of medieval and modern hindi kavya
CO 3	3 . Understand the details of Kaber by saakhe
CO 4	4 . Identify the characteristics of Hemala by ramadhare simha dinakar, Hindi Sarkari Patrachar
CO 5	5. Learn in depth preyatham by suryakanta threepati niralala
CO 6	.6. Understand the characteristics of Hindi Anuvada
Co7	7 . Understand in depth Hindi Anuvada
Co8	8 . Identify in details with examples Hindi Anuvada

1.

Programme Code: CDD050

Course title : Hindi Upanyas Tatha Vanijya Hindi

Paper 4

CO ID	CO
CO 1	1. . Learn in details with examples Novel-Gaban by Premchand
CO 2	2. Understand in details with examples Novel-Gaban by Premchand
CO 3	3. Understand the details of Novel-Gaban by Premchand
CO 4	4. Identify the classification and characteristics of Vanijya Hindi
CO 5	5. Learn the classification and characteristics of Vanijya Hindi
CO 6	6. Identify in details with application, if applicable, Vanijya Hindi

JSS Mahavidyapeetha

JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru - 570025
Department: Hindi

Programme: BA

PO ID	PO (BA) (FHA-31 to 35)
PO 1	Understand culture and heritage
PO 2	Manage business affairs
PO 3	Create interest in literature
PO 4	Report and edit public events effectively
PO 5	Develop reading writing communication and reasoning skills

Programme Code: FHA 040 (FHA-31 to 35)

Course title : **Hindi Kahani sahetya Aur Vyakarna**

Paper 1

CO ID	CO
CO 1	1 . Identify in details with examples kahani of 20th century
CO 2	2. Write down in depth kahani of 20th century
CO 3	3. Deliberate in depth kahani of 20th century
CO 4	4. Specify the classification and characteristics of Hindi vyakaran
CO 5	5. Identify the characteristics of Hindi vyakaran

Programme Code: FHB 040 (FHA-31 to 35)

Course title : **Hindi Lagu upanyasa Aur prayojan mulak Hindi**

Paper 2

CO ID	CO
CO 1	1.Learn in details with examples Novel- by kamaleshwra
CO 2	2Understand in details with examples Novel-by kamaleshwra
CO 3	3.Understand the details of Novel-by kamaleshwra
CO 4	4. Identify the classification and characteristics of Prayojan Mulak Hindi
CO 5	5. Identify the characteristics of Hindi vykaran

Programme Code: ELC 050 (21 to 25)

Course title : **Hindi Nataka aur Vanjya Hindi**

Paper 3

CO ID	CO
CO 1	1.Understand the characteristics of Hindi Natak
CO 2	2 . Deliberate in details with application, if applicable, Hindi Natak -deep daan by Ramkumar varma
CO 3	3. Deliberate the characteristics of Hindi Natak -Red ke haddi by Jagadeshachandra mathur
CO 4	4. Understand the details of Hindi Natak -sukhe dale by Upendranath ashka
CO 5	5. Write down in details with examples Hindi Natak -mai bee manav hu by Vishnu prabakar
CO6	6. Identify the details of Hindi Vanijya Hindi
CO7	7. Specify in depth Vanijya Hindi

Programme Code: ELD 050 (21 to 25)

Course title : **Hindi** Kavya aur Anuvada Paribhashik Shabdavali

Paper 4

CO ID	CO
CO 1	1. Write down the classification and characteristics of medieval and madran Hindi Kavya
CO 2	2. Deliberate in details with application, if applicable, medieval - saakhi by Kaber
CO 3	3. Specify in details with examples Hemala by Ramadhare Simha Dinakar
CO 4	4. Specify in details with application, if applicable, Gurukul by Ramkumar Varma
CO 5	5. Specify the characteristics of Hindi Anuvada Paribhasik Shabdavali
Co6	6 . Learn in details with examples Hindi Anuvada Paribhasik Shabdavali

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru - 570025
Department: Hindi

Programme: BBA

PO ID	PO (BBA) (11)
PO 1	Inculcate human values
PO 2	Avail job opportunities in translation
PO 3	Create interest in literature

Programme Code: FBA 040 (11)

Course title : Gadya ki vidhiya aur Vyakarna

Paper 1

CO ID	CO
CO 1	1. Deliberate in details with application, if applicable, short stories of 20 th century
CO 2	2. Deliberate in details with application, if applicable, gadya by manoja guptha
CO 3	3. Understand the classification and characteristics of gadya by manoja guptha
CO 4	4. Understand in details with application, if applicable, Hindi vyakaran
CO 5	5. Learn the details of Hindi vyakaran
CO 6	6. Specify in details with application, if applicable, Hindi vyakaran

Programme Code: FBB 040 (11)

Course title : Hindi Kahani Sangrah aur Midiya lekan

Paper 2

CO ID	CO
CO 1	1 . Specify in details with application, if applicable, Midiya lekan
CO 2	2 . Understand the details of kahani of 20th cenyury
CO 3	3 . Learn in details with application, if applicable, kahani of 20th cenyury
CO 4	4 . Identify the classification and characteristics of Midiya lekan
CO 5	5. Deliberate the details of Hindi vyakaran
CO 6	6. Understand in details with application, if applicable, Midiya lekan

Programme Code: CDC050

Course title : Hindi Kavya aur Anuvada Paribhashik Shabdavali

Paper 3

CO ID	CO
CO 1	1. Deliberate the classification and characteristics of medieval and modern hindi kavya
CO 2	2 . Deliberate the characteristics of medieval and modern hindi kavya
CO 3	3 . Understand the details of Kaber by saakhe
CO 4	4 . Identify the characteristics of Hemala by ramadhare simha dinakar, Hindi Sarkari Patrachar
CO 5	Co5 . Learn in depth preyatham by suryakanta threepati niral
CO 6	Co6 . Understand the characteristics of Hindi Anuvada

Co7	7 . Understand in depth Hindi Anuvada
Co8	8 . Identify in details with examples Hindi Anuvada

2.

Programme Code: CDD050

Course title : **Hindi Upanyas Tatha Vanijya Hindi**

Paper 4

CO ID	CO
CO 1	1. . Learn in details with examples Novel-Gaban by Premchand
CO 2	2 . Understand in details with examples Novel-Gaban by Premchand
CO 3	3. Understand the details of Novel-Gaban by Premchand
CO 4	4. Identify the classification and characteristics of Vanijya Hindi
CO 5	5. Learn the classification and characteristics of Vanijya Hindi
CO 6	6. Identify in details with application, if applicable, Vanijya Hindi

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru - 570025
Department: Hindi

Programme: BCA

PO ID	PO (BCA) (11)
PO 1	Inculcate human values
PO 2	Avail job opportunities in translation
PO 3	Create interest in literature

Programme Code: FAA040 (11)

Course title :GadyakividhiyaaurVyakarna

Paper 1

CO ID	CO
CO 1	1. Deliberate in details with application, if applicable, short stores of 20 th century
CO 2	2. Deliberate in details with application, if applicable, gadya by manojaguptha
CO 3	3. Understand the classification and characteristics of gadya by manojaguptha
CO 4	4. Understand in details with application, if applicable, Hindi vyakaran
CO 5	5. Learn the details of Hindi vyakaran
CO 6	6. Specify in details with application, if applicable, Hindi vyakaran

Programme Code: FAB040 (11)

Course title :Hindi KahaniSangrahaurMidiyalekan

Paper 2

CO ID	CO
CO 1	1 . Specify in details with application, if applicable, Midiyalekan
CO 2	2 .Understand the details of kahani of 20th cenyury
CO 3	3 . Learn in details with application, if applicable, kahani of 20th cenyury
CO 4	4 . Identify the classification and characteristics of Midiyalekan
CO 5	5. Deliberate the details of Hindi vyakaran
CO 6	6. Understand in details with application, if applicable, Midiyalekan

Programme Code: ECC050

Course title : Hindi KavyaaurAnuvadaParibhashikShabdavali

Paper 3

CO ID	CO
CO 1	1.Deliberate the classification and characteristics of medieval and modern hindikavya
CO 2	2 .Deliberate the characteristics of medieval and modern hindikavya
CO 3	3 .Understand the details of Kaber by saakhe
CO 4	4 . Identify the characteristics of Hemala by ramadharesimhadinakar, Hindi SarkariPatrachar
CO 5	5 . Learn in depth preyatham by suryakantathreepatinirala
CO 6	6 . Understand the characteristics of Hindi Anuvada

Co7	7 . Understand in depth Hindi Anuvada
Co8	8 . Identify in details with examples Hindi Anuvada

Programme Code: ECD050

Course title:**Hindi UpanyasTathaVanijya Hindi**

Paper 4

CO ID	CO
CO 1	1.. Learn in details with examples Novel-Gaban by Premchand
CO 2	2 .Understand in details with examples Novel-Gaban by Premchand
CO 3	3.Understand the details of Novel-Gaban by Premchand
CO 4	4.Identify the classification and characteristics of VanijyaHindi
CO 5	5.Learn the classification and characteristics of Vanijya Hindi
CO 6	6.Identify in details with application, if applicable, Vanijya Hindi



**JSS COLLEGE OF ARTS, COMMERCE & SCIENCE, OOTY ROAD,
MYSORE-25 (AUTONOMOUS)
UG DEPARTMENT OF ECONOMICS**

Name of the Department: ECONOMICS

Programme offered: BA

Programme code : EG-31

PO-ID	PO After completion of your study in the college:
PO1	Students will be able to understand economic vocabulary, methodologies, tools and analysis procedures.
PO2	Students will be familiar with the knowledge and application of micro economics for the formulation of policies and planning.
PO3	Students will learn to apply economic theories and concepts to contemporary social issues, as well as analysis of policies.
PO4	Students will be able to understand the impact of government policies and will be able to assess the consequences of the policies on the parties involved.
PO5	As the programme along with economics contains like statistics, mathematics, it enhances them to compute and assess the real situation of the economy including the size and changes of population, income pattern, and rate of development with pattern of savings and investments and social security measures adopted in the country.
PO6	Understand the basics of Quantitative techniques their applications
PO7	Critically evaluate the ongoing economic developments in India and abroad
PO8	Understand research methods in economics
PO9	Student develops an awareness of career choices and the option for higher studies.

Name of the Department: ECONOMICS

Programme offered: BA

Programme code : EG-31

I Semester Course code: FHA410

Course title	CO ID	CO
BASIC ECONOMICS-I	CO1	Identify the facets of an economic problem.
	CO2	Learn basic economic concepts and terms.
	CO3	Explain the operation of a market system;
	CO4	Analyse the production and cost relationships of a business firm;
	CO5	Evaluate the pricing decisions under different market structures; and
	CO6	Use basic cost-benefit calculations as a means of decision making (i.e., thinking like an economist)

I Semester Course code: FHA420

Course title	CO ID	CO
CONTEMPORARY INDIAN ECONOMY	CO1	Understand the current problems of Indian Economy
	CO2	Identify the factors contributing to the recent growth of the Indian Economy
	CO3	Evaluate impact of LPG policies on economic growth in India
	CO4	Analyze the sector specific policies adopted for achieving the as rational goals
	CO5	Review various economic policies adopted

II Semester Course code: FHB410

Course title	CO ID	CO
BASIC ECONOMICS-II	CO1	Understand the operation of the overall economic system;
	CO2	Calculate national income and related aggregates
	CO3	Explain the relationship between macroeconomic aggregates;
	CO4	Analyse the nature of business cycles and policies towards controlling them;
	CO5	Evaluate the macroeconomic policies for solving major problems like poverty and unemployment

II Semester Course code: FHB420

Course title	CO ID	CO
KARNATAKA ECONOMY	CO1	Understand the nature of economic growth and problems of Karnataka state.
	CO2	Explain the process of structural growth in Karnataka Economy;
	CO3	Evaluate the policies and programmes undertaken by the Govt. of Karnataka for bringing about socio-economic development

III Semester Course code: ELC210

Course title	CO ID	CO
PRINCIPLES OF MACRO ECONOMICS-I	CO1	Identify in details with examples Key variables of Macro Economics.
	CO2	Understand in details with examples Concepts of National Income.
	CO3	Identify the characteristics of Keynesian Macro Economics.
	CO4	Identify the characteristics of Demand for Money.
	CO5	Deliberate in depth Liquidity Theory of money.
	CO6	Identify in details with application, if applicable, Concepts of Micro and Macro Economics.

IV Semester Course code: ELD210

Course title	CO ID	CO
PRINCIPLES OF MACRO ECONOMICS-II	CO1	Specify in details with examples IS-LM Analysis.
	CO2	Learn in depth Supply side Economics.
	CO3	Evaluate the Concept of Multiplier and Inflation, Understand the Theories of National Income Accounting
	CO4	Identify the details of Rational Expectation.
	CO5	Identify in details with examples Concept of Inflation.
	CO6	Specify the classification and characteristics of Disequilibrium in Balance of Payment.

V Semester Course code: ELE210

Course title	CO ID	CO
ECONOMICS OF DEVELOPMENT	CO1	Learn in depth Understand the concept of Economic development and factors affect Development.
	CO2	Deliberate in details with examples Differentiate Economic development and growth.
	CO3	Identify the characteristics of Demographic Trends.
	CO4	Specify in depth Harrod -Domar Growth Model. Understand the classification and characteristics of Endogenous Growth theory.
	CO5	Identify the details of Poverty Eradication Measures.
	CO6	Learn in depth Understand the concept of Economic development and factors affect Development.

VI Semester Course code: ELF210

Course title	CO ID	CO
INDIAN ECONOMY	CO1	Understand the characteristics of Indian Agricultural policies.
	CO2	Identify the classification and characteristics of Regional variation.
	CO3	Write down the classification and characteristics of New Industrial Policy.
	CO4	Identify in depth Monetary Policy.
	CO5	Understand in depth FDI and WTO.
	CO6	Identify the details of Effects of Parallel Economy.

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
 Ooty Road, Mysuru – 570 025, Karnataka, India

2021-22

Name of the Department: POLITICAL SCIENCE

Programme offered: B A

Programme code:HP/JP 32/35

I SEMESTER

Course code: FHA47032 /FHA47035

Course title	CO Id	CO
BASICCONCEPTS OF POLITICAL SCIENCE	CO1	Political Science, theoretically and will gain knowledge to explain and analyse politics at large
	CO2	The dynamics of politics.
	CO3	To inculcate the democratic spirit

PO/Id	PO
PO1	Spread the messages of equality, nationality, social harmony and other human values.
PO2	Understand the papers such as Ancient Indian Political Ideas and Institutions throws light on the wisdom of Indian Political Thought bringing along its side the Modern Political Analysis which is skill based paper.
PO3	Understand voluminously about the dimensions of Indian Government, its Parliamentary Procedures, the concerns of Gender in Politics, Gandhian Philosophy and an understanding of the citizens duties and responsibilities

I SEMESTER Course code:FHA48032/FHA48035

Course title	CO ID	CO
POLITICAL THEORY	CO1	The nature and relevance of Political Theory.
	CO2	The different concepts like Liberty, Equality, Justice and Rights.
	CO3	To reflect upon some of the important debates in Political Theory.

II SEMESTER Course code:FHB47032/FHB47035

Course title	CO Id	Cos
WESTERN POLITICAL THOUGHT	CO1	And get an introduction to the Schools of Political Thought and Theory making in the West.
	CO2	And get an introduction to the Schools of Political Thought and Theory making in the West.
	CO3	And familiarize themselves to the Thought and Theory of Western Philosophy.

II SEMESTER Course Code:FHB48032/FHB48035

Course title	COI D	CO
INDIAN NATIONAL MOVEMENT AND CONSTITUTIONAL DEVELOPMENT	CO1	Understand how the colonial rule was overthrown by the Indian nationalists.
	CO2	Appreciate the ideals and values of Gandhi that resulted in freedom.
	CO3	Examine the problem of Independent India and the role played by great leaders in solving them.

III SEMESTER

COURSE CODE:ELC260

Course title	CO /Id	CO Statement
Comparative Government and politics	CO1	Specify the details of comparative governments
	CO2	Understand the details of classification of political systems
	CO3	Understand the classification and characteristics of electoral systems
	CO4	Learn the classification and characteristics of contemporary debates on state
	CO5	Understand in details with application, if applicable, contemporary debates

PO/Id/No.	PO
PO1	To extract, analyze, and present information from a spatial perspective.
PO2	Spread the messages of equality, nationality, social harmony and other human values.
PO3	Comprehend the basic structures and processes of government systems and/or theoretical underpinnings.
PO4	Analyze political problems, arguments, information, and/or theories.
PO5	Apply methods appropriate for accumulating and interpreting data applicable to the discipline of Political Science

IV SEMESTER COURSE CODE :ELD260

Course title	CO Id	CO Statement
Introductions to International Relations	CO1	Identify the classification and characteristics of approaches of international relations
	CO2	Specify in depth India and her neighbours relationship
	CO3	Specify the classification and characteristics of cold war
	CO4	Learn the details of relations of India with great powers
	CO5	Write down the characteristics of India's foreign policy

V SEMESTER COURSE CODE :ELE260

Course title	CO Id	CO Statement
Themes on Comparative Political Theory	CO1	Understand in details with application, if applicable, Indian political thought
	CO2	Specify in depth Indian political thought
	CO3	Identify the classification and characteristics of western political thought
	CO4	Understand in details with examples western political thought
	CO5	Understand in depth local government Learn the details of regulatory institutions

VI SEMESTER COURSE CODE ELF260

Course title	CO Id	CO Statement	
Modern Governments(U K,USA,SWISS)	CO1	Understanding the world politics	
	CO2	Enlightening the world governmental system	
	CO3	Develop comparative study on governmental systems	
	CO4	Deliberate the details with examples fundamental rights	
	CO5	Understand the details of comparative study on judiciary system	

V SEMESTER COURSE CODE :ELE262

Course title	CO No./ Id	CO Statement
GE:Reading Gandhi	CO1	Specify the details of reading Gandhi
	CO2	Deliberate in depth Gandhi and hind swaraj
	CO3	Learn the details of Gandhi's views on nationalism

PO/Id	PO
PO1	Analyse political problems, arguments, information, and/or theories
PO2	Apply methods appropriate for accumulating and interpreting data applicable to the discipline of political science.
PO3	Acquire the ability to engage in independent and life-long learning in the broadest context socio-technological changes

1.

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science

Ooty Road, Mysuru – 570 025, Karnataka, India

Name of the Department: POLITICAL SCIENCE

Programmes offered: B A

List of COs, POs, and PSOs (For the year 2021-22Only):

PO/Id/No.	PO
PO1	Spread the messages of equality, nationality, social harmony and other human values.
PO2	Understand the papers such as Ancient Indian Political Ideas and Institutions throws light on the wisdom of Indian Political Thought bringing along its side the Modern Political Analysis which is skill based paper.
PO3	Understand voluminously about the dimensions of Indian Government, its Parliamentary Procedures, the concerns of Gender in Politics, Gandhian Philosophy and an understanding of the citizens duties and responsibilities

Course title	Course Code	CO No./Id	CO Statement
BASIC CONCEPTS OF POLITICAL SCIENCE	FHA47032 /FHA47035	CO1	Political Science, theoretically and will gain knowledge to explain and analyse politics at large
		CO2	The dynamics of politics.
		CO3	To inculcate the democratic spirit
POLITICAL THEORY	FHA48032/ FHA48035	CO1	The nature and relevance of Political Theory.
		CO2	The different concepts like Liberty, Equality, Justice and Rights.
		CO3	To reflect upon some of the important debates in Political Theory.
WESTERN POLITICAL THOUGHT	FHB47032/ FHB47035	CO1	And get an introduction to the Schools of Political Thought and Theory making in the West.
		CO2	And get an introduction to the Schools of Political Thought and Theory making in the West.
		CO3	And familiarize themselves to the Thought and Theory of Western Philosophy.

INDIAN NATIONAL MOVEMENT AND CONSTITUTIONAL DEVELOPMENT	FHB48032/ FHB48035	CO1	Understand how the colonial rule was overthrown by the Indian nationalists.
		CO2	Appreciate the ideals and values of Gandhi that resulted in freedom.
		CO3	Examine the problem of Independent India and the role played by great leaders in solving them.
Themes on Comparative Political Theory	ELE260	CO1	Understand in details with application, if applicable, Indian political thought
		CO2	Specify in depth Indian political thought
		CO3	Identify the classification and characteristics of western political thought
		CO4	Understand in details with examples western political thought
		CO5	Understand in depth local government Learn the details of regulatory institutions
Modern Governments(UK,U SA,SWISS)	ELF260	CO1	Understanding the world politics
		CO2	Enlightening the world governmental system
		CO3	Develop comparative study on governmental systems
		CO4	Deliberate the details with examples fundamental rights
		CO5	Understand the details of comparative study on judiciary system
GE:Reading Gandhi	ELE262	CO1	Specify the details of reading Gandhi
		CO2	Deliberate in depth Gandhi and hind swaraj
		CO3	Learn the details of Gandhi's views on nationalism

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
Ooty Road, Mysuru

Department: COMMERCE AND MANAGEMENT

Programme Name: B.COM

Programme Code:

Session/Year 2021-22

List of POs & PSOs

POID	PO Statement – On successful completion of this Programme, students will be able to work in ;
PO1	Industries and Multinational Companies
PO2	Banking Sectors and Insurance Companies
PO3	Financing and Leasing Companies
P04	Transport Agencies and Warehousing
P05	Stock Markets and Foreign Trade

Course Title: Financial Accounting

Course Code: ENA 21

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the theoretical framework of accounting as well accounting standards.
CO2	Understand the accounting treatment for royalty transactions & articulate the Royalty agreements.
CO3	Demonstrate the preparation of financial statement of manufacturing and nonmanufacturing entities of sole proprietors.
CO4	Exercise the accounting treatments for consignment transactions & events in the books of consignor and consignee.
Or as designed in the curriculum	

Course Title: Business Organisation and Management

Course Code: ENA 220

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Design and demonstrate the strategic plan for the attainment of organisational goals.
CO2	Differentiate the different types of authority and chose the best one in the present context.
CO3	Compare and chose the different types of motivation factors and leadership styles.
CO4	Choose the best controlling techniques for better productivity of an organization
Or as designed in the curriculum	

Course Title: Banking and Insurance

Course Code: ENA 230

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the basic concepts of Banking
CO2	Judge the impact of schemes of banks on self employment
CO3	Analyse the the present scenario of banking services
CO4	Analyse the the present scenario of Insurance services
Or as designed in the curriculum	

Course Title: Cost Accounting

Course Code: ENB 210

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand concepts of cost accounting & Methods of Costing.
CO2	Outline the Procedure and documentations involved in procurement of materials& compute the valuation of Inventory.
CO3	Make use of payroll procedures & compute idle and over time.
CO4	Prepare cost sheet & discuss cost allocation under ABC.
Or as designed in the curriculum	

Course Title: Financial Accounting -II

Course Code: ENB 220

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the theoretical framework of accounting as well accounting standards.
CO2	Understand the accounting treatment for royalty transactions & articulate the Royalty agreements.
CO3	Demonstrate the preparation of financial statement of manufacturing and nonmanufacturing entities of sole proprietors.
CO4	Exercise the accounting treatments for consignment transactions & events in the books of consignor and consignee.
Or as designed in the curriculum	

Course Title: Principles of Marketing

Course Code: ENB 230

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Analyse the consumer behaviour in the present scenario and marketing segmentation.
CO2	Discover the new product development & identify the factors affecting the price of a product in the present context.
CO3	Judge the impact of promotional techniques on the customers & importance of channels of distribution.
CO4	Outline the recent developments in the field of marketing
Or as designed in the curriculum	

Course Title: Principles and Practices of General Insurance **Course Code:** ENC 260

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Determine the loss exposures of properties, human lives, business operations
CO2	Identify the financial consequences because of the occurrence of a loss.
CO3	Apply the knowledge of current information, models, and techniques
CO4	Practices in all of the major business disciplines.
Or as designed in the curriculum	

Course Title: Logistics and supply Chain Management

Course Code: ENC 270

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Provide an opportunity for comprehensive analysis
CO2	To evaluate the achievement of competitive advantage through logistics framework
CO3	Discussion of key contemporary issues and problems in logistics management.
CO4	Outline the recent developments in the field of marketing
Or as designed in the curriculum	

Course Title: Corporate Accounting - II

Course Code: END 210

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Know the procedure of redemption of preference shares.
CO2	Comprehend the different methods of Mergers and Acquisition of Companies
CO3	Understand the process of internal reconstruction
CO4	Prepare the liquidators final statement of accounts.
Or as designed in the curriculum	

Course Title: Quantitative Techniques

Course Code: END 230

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Recognize the laws and its application in business activities.
CO2	Acquire knowledge of business decision models.
CO3	Understand in depth Ratio proportion and variation
CO4	Learn in depth the the different tools applicable for business decision
Or as designed in the curriculum	

Course Title: Entrepreneurship Development

Course Code: ENE 210

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Specify in details the different types of entrepreneurs
CO2	Identify in detail with examples to easily different financial schemes offered by Banks and Government Agencies
CO3	Understand in depth and identify the social responsibility of an entrepreneur towards different sectors
CO4	Learn in depth the Self employment opportunities
Or as designed in the curriculum	

Course Title: IFRS (IND - AS)

Course Code: ENF 220

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Learn in detail with examples Accounting for assets and liabilities
CO2	Understand the details of IND AS in relation to accounting for Revenue and Expenses
CO3	Learn in detail with examples IND AS on business combination
CO4	Deliberate the characteristics of IFRS
Or as designed in the curriculum	

Course Title: Goods and Services Tax

Course Code: ENF 300

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Learn in details provisions of GST to handle TDS and POS online
CO2	Understand the provisions of integrated goods and service Tax Act, 2017
CO3	Understand the technology and flow of return filing under GST
CO4	Learn in details and gain knowledge to practice as GST Consultant
Or as designed in the curriculum	

Course Title: Financial Management -I

Course Code: ENF 310

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Identify the details of various sources of finance
CO2	Identify the characteristics of capital structure and factors affecting the capital Structure
CO3	Learn the characteristics of different methods of time value of money and its structure
CO4	Learn the details of Capital Budgeting
Or as designed in the curriculum	

Course Title: Principles and Practice of Auditing

Course Code: ENF 210

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Learn the characteristics of errors and frauds and minimize them in maintenance of books of accounts
CO2	Identify the details of audit planning
CO3	Learn in depth verification and valuation of Assets and Liabilities
CO4	Deliberate in details with examples audit of different types of organizations
Or as designed in the curriculum	

Course Title: Business Law

Course Code: ENF 220

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the characteristics of legal environment and practice business ethics
CO2	Learn in depth and apply the basic legal knowledge to business enterprises
CO3	Identify and appointed as member of various commerce and legal boards / committee
CO4	Specify the details of Information technologies Act
Or as designed in the curriculum	

Course Title: Financial Management - II

Course Code: ENF 310

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Deliberate the details of working capital management
CO2	Understand the details of working capital financing
CO3	Deliberate in details with examples Venture capital financing
CO4	Learn in depth the details of shareholders value creation
Or as designed in the curriculum	

Course Title: Advanced Cost and management Accounting

Course Code: ENF 320

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the details of management accounting
CO2	Learn in depth the details of financial statement analysis techniques
CO3	Analyze the inflow and outflow of cash and able to prepare cash flow statement
CO4	Understand the characteristics of different types of ratios

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
Ooty Road, Mysuru

Department: COMMERCE AND MANAGEMENT

Programme Name: BBA

Programme Code:

Session/Year 2021-22

List of POs & PSOs

POID	PO Statement – On successful completion of this Programme, students will be able to work in ;
PO1	Financial Analysts, Tax consultants, Tax Practitioners and Investment consultants
PO2	Financial and management accountants
PO3	Marketing Manager, Store manager, Purchase Manager and Sales Manager
P04	Human Resources Manager, Counsellor
P05	Retail Manager, Middle men and Customer relation manager

Course Title: Business Organisation and Management

Course Code: CBA 410

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand and identify the different theories of organisations, which are relevant in the present context.
CO2	Design and demonstrate the strategic plan for the attainment of organisational goals.
CO3	
CO4	
Or as designed in the curriculum	

Course Title: Financial Accounting

Course Code: CDA 420

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the theoretical framework of accounting as well accounting standards.
CO2	Understand the accounting treatment for royalty transactions & articulate the Royalty agreements.
CO3	Demonstrate the preparation of financial statement of manufacturing and nonmanufacturing entities of sole proprietors.
CO4	Exercise the accounting treatments for consignment transactions & events in the books of consignor and consignee.
Or as designed in the curriculum	

Course Title: Marketing Management

Course Code: CDA 430

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the concepts and functions of marketing.
CO2	Analyse marketing environment impacting the business.
CO3	Segment the market and understand the consumer behaviour
CO4	Enable students learn to media decision
Or as designed in the curriculum	

Course Title: Human Resource Management

Course Code: CDB 420

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Ability to describe the role and responsibility of Human resources management functions on business
CO2	Ability to describe HRP, Recruitment and Selection process
CO3	Ability to describe to induction, training, and compensation aspects.
CO4	Ability to explain performance appraisal and its process.
Or as designed in the curriculum	

Course Title: Business Environment

Course Code: CDB 430

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	An Understanding of components of business environment.
CO2	Ability to analyse the environmental factors influencing business organisation.
CO3	Ability to demonstrate Competitive structure analysis for select industry
CO4	Ability to explain the impact of fiscal policy and monetary policy on business.
Or as designed in the curriculum	

Course Title: Financial management

Course Code: CDB 410

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	The ability to understand the process of public issue of shares and accounting for the same
CO2	The ability to prepare final accounts of joint stock companies.
CO3	The ability to prepare and evaluate vertical and horizontal analysis of financial statements
CO4	The ability to understand the process of public issue of shares and accounting for the same
Or as designed in the curriculum	

Course Title: Cost and management Accounting

Course Code: CDC410

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	The ability to understand company's annual reports.
CO2	Understand the elements of costing and preparation of cost sheet
CO3	The ability to prepare material requisitions and management of store.
CO4	The ability to compare and contrast labour cost techniques.
Or as designed in the curriculum	

Course Title: Organisational Behaviour

Course Code: CDC 420

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Ability to reconcile the cost.
CO2	To recall role of OB in business organization.
CO3	Able to understand group dynamics in an organization.
CO4	Able to understand the change management
Or as designed in the curriculum	

Course Title: Statistics for Business Decisions

Course Code: CDC 430

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	To understand the requirements of statistical framework
CO2	To construct and visualize the data.
CO3	To determine the data adequacy for analysis.
CO4	To Review the data by using various tools.
Or as designed in the curriculum	

Course Title: Management Accounting

Course Code: CDD 410

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Able to understand the concept of Management Accounting.
CO2	To Understand and recall ratios and apply the same on given case.
CO3	To construct cash flow statement
CO4	Should be able to apply Marginal cost ratios to make business decisions.
Or as designed in the curriculum	

Course Title: Financial Management

Course Code: CDD 430

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Able to Summarize the concept of stock market
CO2	To identify the goals of financial management.
CO3	To appraise the concepts of time value of money.
CO4	To understand the different models of dividend policy.
Or as designed in the curriculum	

Course Title: Entrepreneurship Development

Course Code: CDF 210

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Learn in depth qualities of an entrepreneur and able to become an entrepreneur
CO2	Write down the details of financial schemes offered by banks and government agencies and able to access them easily
CO3	Learn the details of mobilization of resources
CO4	Learn in depth the characteristics of customer and able to identify the customer
Or as designed in the curriculum	

Course Title: Human Resource Management - I

Course Code: CDF 274

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand and identify the objectives, principles, factors influencing wage and salary Administration
CO2	Understand the concept of wage policy in India
CO3	Learn in depth the objectives of fringe benefits.
CO4	Learn in depth the Methods of performance appraisal
Or as designed in the curriculum	

Course Title: Financial Management -I

Course Code: CDF 284

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand and identify the features, importance, contribution of financial service in promoting industry and service
CO2	Understand the concept of money market and capital market.
CO3	Learn in depth the Scope of merchant banking services
CO4	Learn in depth the growth of merchant banking in India
Or as designed in the curriculum	

Course Title: Human Resource Management-II

Course Code: CDF 276

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand and identify conditions necessary for employee empowerment
CO2	Understand the concept of Quality circles
CO3	Learn in depth the types of social Security
CO4	Understand and identify the measures to strengthen trade Union movement in India
Or as designed in the curriculum	

Course Title: Financial Management- II

Course Code: CDF 286

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the concept of Portfolio Management Process- Approaches to Investment Decision making Portfolio Management Process- Approaches to Investment Decision making
CO2	Understand the concept of Risk and Return
CO3	Understand and identify the features, importance, contribution of financial service in promoting industry and service
CO4	Understand the concept of Portfolio Return and Risk-Measurement
Or as designed in the curriculum	

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
Ooty Road, Mysuru

Department: COMMERCE AND MANAGEMENT

Programme Name: B.COM

Programme Code:

Session/Year 2020-21

List of POs & PSOs

POID	PO Statement – On successful completion of this Programme, students will be able to work in ;
PO1	Industries and Multinational Companies
PO2	Banking Sectors and Insurance Companies
PO3	Financing and Leasing Companies
P04	Transport Agencies and Warehousing
P05	Stock Markets and Foreign Trade

Course Title: Financial Accounting

Course Code: ENA 210

Name of Course In-charge/Coordinator: Nagashree N

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the theoretical framework of accounting as well accounting standards.
CO2	Understand the accounting treatment for royalty transactions & articulate the Royalty agreements.
CO3	Demonstrate the preparation of financial statement of manufacturing and nonmanufacturing entities of sole proprietors.
CO4	Exercise the accounting treatments for consignment transactions & events in the books of consignor and consignee.

Course Title: Business Organisation and Management

Course Code: ENA 220

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Design and demonstrate the strategic plan for the attainment of organisational goals.
CO2	Differentiate the different types of authority and chose the best one in the present context.
CO3	Compare and chose the different types of motivation factors and leadership styles.
CO4	Choose the best controlling techniques for better productivity of an organisation
Or as designed in the curriculum	

Course Title: Banking and Insurance

Course Code: ENA 230

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the basic concepts of Banking
CO2	Judge the impact of schemes of banks on self employment
CO3	Analyse the the present scenario of banking services
CO4	Analyse the the present scenario of Insurance services
Or as designed in the curriculum	

Course Title: Cost Accounting

Course Code: ENB 210

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand concepts of cost accounting & Methods of Costing.
CO2	Outline the Procedure and documentations involved in procurement of materials& compute the valuation of Inventory.
CO3	Make use of payroll procedures & compute idle and over time.
CO4	Prepare cost sheet & discuss cost allocation under ABC.
Or as designed in the curriculum	

Course Title: Financial Accounting -II

Course Code: ENB 220

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the theoretical framework of accounting as well accounting standards.
CO2	Understand the accounting treatment for royalty transactions & articulate the Royalty agreements.
CO3	Demonstrate the preparation of financial statement of manufacturing and nonmanufacturing entities of sole proprietors.
CO4	Exercise the accounting treatments for consignment transactions & events in the books of consignor and consignee.

Course Title: Principles of Marketing

Course Code: ENB 230

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Analyse the consumer behaviour in the present scenario and marketing segmentation.
CO2	Discover the new product development & identify the factors affecting the price of a product in the present context.
CO3	Judge the impact of promotional techniques on the customers & importance of channels of distribution.
CO4	Outline the recent developments in the field of marketing

Course Title: Principles and Practices of General Insurance **Course Code:** ENC 260

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Determine the loss exposures of properties, human lives, business operations
CO2	Identify the financial consequences because of the occurrence of a loss.
CO3	Apply the knowledge of current information, models, and techniques
CO4	Practices in all of the major business disciplines.

Course Title: Logistics and supply Chain Management

Course Code: ENC 270

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Provide an opportunity for comprehensive analysis
CO2	To evaluate the achievement of competitive advantage through logistics framework
CO3	Discussion of key contemporary issues and problems in logistics management.
CO4	Outline the recent developments in the field of marketing

Course Title: Corporate Accounting - II

Course Code: END 210

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Know the procedure of redemption of preference shares.
CO2	Comprehend the different methods of Mergers and Acquisition of Companies
CO3	Understand the process of internal reconstruction
CO4	Prepare the liquidators final statement of accounts.
Or as designed in the curriculum	

Course Title: Quantitative Techniques

Course Code: END 230

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Recognize the laws and its application in business activities.
CO2	Acquire knowledge of business decision models.
CO3	Understand in depth Ratio proportion and variation
CO4	Learn in depth the the different tools applicable for business decision
Or as designed in the curriculum	

Course Title: Entrepreneurship Development

Course Code: ENE 210

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Specify in details the different types of entrepreneurs
CO2	Identify in detail with examples to easily different financial schemes offered by Banks and Government Agencies
CO3	Understand in depth and identify the social responsibility of an entrepreneur towards different sectors
CO4	Learn in depth the Self employment opportunities
Or as designed in the curriculum	

Course Title: IFRS (IND - AS)

Course Code: ENF 220

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Learn in detail with examples Accounting for assets and liabilities
CO2	Understand the details of IND AS in relation to accounting for Revenue and Expenses
CO3	Learn in detail with examples IND AS on business combination
CO4	Deliberate the characteristics of IFRS
Or as designed in the curriculum	

Course Title: Goods and Services Tax

Course Code: ENF 300

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Learn in details provisions of GST to handle TDS and POS online
CO2	Understand the provisions of integrated goods and service Tax Act, 2017
CO3	Understand the technology and flow of return filing under GST
CO4	Learn in details and gain knowledge to practice as GST Consultant
Or as designed in the curriculum	

Course Title: Financial Management -I

Course Code: ENF 310

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Identify the details of various sources of finance
CO2	Identify the characteristics of capital structure and factors affecting the capital Structure
CO3	Learn the characteristics of different methods of time value of money and its strucutre
CO4	Learn the details of Capital Budgeting
Or as designed in the curriculum	

Course Title: Principles and Practice of Auditing

Course Code: ENF 210

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Learn the characteristics of errors and frauds and minimize them in maintenance of books of accounts
CO2	Identify the details of audit planning
CO3	Learn in depth verification and valuation of Assets and Liabilities
CO4	Deliberate in details with examples audit of different types of organizations
Or as designed in the curriculum	

Course Title: Business Law

Course Code: ENF 220

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the characteristics of legal environment and practice business ethics
CO2	Learn in depth and apply the basic legal knowledge to business enterprises
CO3	Identify and appointed as member of various commerce and legal boards / committee
CO4	Specify the details of Information technologies Act
Or as designed in the curriculum	

Course Title: Financial Management - II

Course Code: ENF 310

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Deliberate the details of working capital management
CO2	Understand the details of working capital financing
CO3	Deliberate in details with examples Venture capital financing
CO4	Learn in depth the details of shareholders value creation
Or as designed in the curriculum	

Course Title: Advanced Cost and management Accounting

Course Code: ENF 320

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the details of management accounting
CO2	Learn in depth the details of financial statement analysis techniques
CO3	Analyze the inflow and outflow of cash and able to prepare cash flow statement
CO4	Understand the characteristics of different types of ratios
Or as designed in the curriculum	

JSS Mahavidyapeetha

JSS College of Arts, Commerce and Science

Ooty Road, Mysuru

Department: COMMERCE AND MANAGEMENT

Programme Name: BBA

Programme Code:

Session/Year 2020-21

List of POs & PSOs

POID	PO Statement – On successful completion of this Programme, students will be able to work in ;
PO1	Financial Analysts, Tax consultants, Tax Practitioners and Investment consultants
PO2	Financial and management accountants
PO3	Marketing Manager, Store manager, Purchase Manager and Sales Manager
P04	Human Resources Manager, Counsellor
P05	Retail Manager, Middle men and Customer relation manager

Course Title: Business Organisation and Management

Course Code: CBA 410

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand and identify the different theories of organisations, which are relevant in the present context.
CO2	Design and demonstrate the strategic plan for the attainment of organisational goals.
CO3	
CO4	
Or as designed in the curriculum	

Course Title: Financial Accounting

Course Code: CDA 420

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the theoretical framework of accounting as well accounting standards.
CO2	Understand the accounting treatment for royalty transactions & articulate the Royalty agreements.
CO3	Demonstrate the preparation of financial statement of manufacturing and nonmanufacturing entities of sole proprietors.
CO4	Exercise the accounting treatments for consignment transactions & events in the books of consignor and consignee.
Or as designed in the curriculum	

Course Title: Marketing Management

Course Code: CDA 430

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the concepts and functions of marketing.
CO2	Analyse marketing environment impacting the business.
CO3	Segment the market and understand the consumer behaviour
CO4	Enable students learn to media decision
Or as designed in the curriculum	

Course Title: Human Resource Management

Course Code: CDB 420

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Ability to describe the role and responsibility of Human resources management functions on business
CO2	Ability to describe HRP, Recruitment and Selection process
CO3	Ability to describe to induction, training, and compensation aspects.
CO4	Ability to explain performance appraisal and its process.

Course Title: Business Environment

Course Code: CDB 430

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	An Understanding of components of business environment.
CO2	Ability to analyse the environmental factors influencing business organisation.
CO3	Ability to demonstrate Competitive structure analysis for select industry
CO4	Ability to explain the impact of fiscal policy and monetary policy on business.
Or as designed in the curriculum	

Course Title: Financial management

Course Code: CDB 410

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	The ability to understand the process of public issue of shares and accounting for the same
CO2	The ability to prepare final accounts of joint stock companies.
CO3	The ability to prepare and evaluate vertical and horizontal analysis of financial statements
CO4	The ability to understand the process of public issue of shares and accounting for the same
Or as designed in the curriculum	

Course Title: Cost and management Accounting

Course Code: CDC410

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	The ability to understand company's annual reports.
CO2	Understand the elements of costing and preparation of cost sheet
CO3	The ability to prepare material requisitions and management of store.
CO4	The ability to compare and contrast labour cost techniques.
Or as designed in the curriculum	

Course Title: Organisational Behaviour

Course Code: CDC 420

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Ability to reconcile the cost.
CO2	To recall role of OB in business organization.
CO3	Able to understand group dynamics in an organization.
CO4	Able to understand the change management
Or as designed in the curriculum	

Course Title: Statistics for Business Decisions

Course Code: CDC 430

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	To understand the requirements of statistical framework
CO2	To construct and visualize the data.
CO3	To determine the data adequacy for analysis.
CO4	To Review the data by using various tools.
Or as designed in the curriculum	

Course Title: Management Accounting

Course Code: CDD 410

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Able to understand the concept of Management Accounting.
CO2	To Understand and recall ratios and apply the same on given case.
CO3	To construct cash flow statement
CO4	Should be able to apply Marginal cost rations to make business decisions.
Or as designed in the curriculum	

Course Title: Financial Management

Course Code: CDD 430

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Able to Summarize the concept of stock market
CO2	To identify the goals of financial management.
CO3	To appraise the concepts of time value of money.
CO4	To understand the different models of dividend policy.
Or as designed in the curriculum	

Course Title: Entrepreneurship Development

Course Code: CDF 210

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Learn in depth qualities of an entrepreneur and able to become an entrepreneur
CO2	Write down the details of financial schemes offered by banks and government agencies and able to access them easily
CO3	Learn the details of mobilization of resources
CO4	Learn in depth the characteristics of customer and able to identify the customer
Or as designed in the curriculum	

Course Title: Human Resource Management - I

Course Code: ENA 220

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand and identify the objectives, principles, factors influencing wage and salary Administration
CO2	Understand the concept of wage policy in India
CO3	Learn in depth the objectives of fringe benefits.
CO4	Learn in depth the Methods of performance appraisal
Or as designed in the curriculum	

Course Title: Financial Management -I

Course Code: CDF 284

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand and identify the features, importance, contribution of financial service in promoting industry and service
CO2	Understand the concept of money market and capital market.
CO3	Learn in depth the Scope of merchant banking services
CO4	Learn in depth the growth of merchant banking in India
Or as designed in the curriculum	

Course Title: Human Resource Management-II

Course Code: CDF 276

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand and identify conditions necessary for employee empowerment
CO2	Understand the concept of Quality circles
CO3	Learn in depth the types of social Security
CO4	Understand and identify the measures to strengthen trade Union movement in India
Or as designed in the curriculum	

List of COs

CO ID	CO Statement - On successful completion of the course, the Students will be able to;
CO1	Understand the concept of Portfolio Management Process- Approaches to Investment Decision making Portfolio Management Process- Approaches to Investment Decision making
CO2	Understand the concept of Risk and Return
CO3	Understand and identify the features, importance, contribution of financial service in promoting industry and service
CO4	Understand the concept of Portfolio Return and Risk-Measurement
Or as designed in the curriculum	

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru - 570025
2021-22

Department: **Journalism**

Programme: **BA**

Programme Code: **BAJP45 (NEP)**

POID	PO
BAJP451	The programme aims to churn out responsible media professionals who would contribute positively to the society.
BAJP452	The programme aims to facilitate better career opportunities for all those students of this course and get them to tackle challenges in the professional setup.
BAJP453	The programme aims to strike a balance between the dynamic working environment and professional ethics in the field of journalism and mass communication.

Programme Code: **BA25(CBCS)**

POID	PO
BA251	Acquire a functional knowledge of the underlying principles and recent emerging trends of the media industry.
BA252	Create a design emerging audio media production.
BA253	Conceptualize, create, design and strategies high-quality media content for various digital platforms.
BA254	Appreciate and demonstrate the ability to produce reliable outcome.
BA255	Demonstrate critical reading, writing and thinking skills.
BA256	Locate, evaluate, organize and incorporate information effectively.
BA257	Develop and carry out research project.
BA258	Demonstrate competence in Standard English Language and usage in documentation.

Programme Code: **BAJP45 (NEP)**

Course Title: Introduction to Journalism

CO ID	CO
FHA5301	To identify the distinct nature of journalism and its professional aspects, including career opportunities.
FHA5302	To familiarize and use terms specific to Media.
FHA5303	To acquaint the students about the historical perspective of Indian journalism.
FHA5304	To upgrade the students with the current practices.

Course Title: Computer Application For Media

CO ID	CO
FHB5301	Students will be equipped with computer related media skills.
FHB5302	Students will get hands on experience on various computer applications .
FHB5303	Students will independently be able to create new media content.

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
Ooty Road, Mysuru

Department: Physics

Programme Name: B.Sc

Programme Code:

Session/Year: 2021-22

List of POs & PSOs

POID	PO Statement
PO1(NEP)	Discipline Knowledge: Knowledge of science and ability to apply to relevant areas.
PO2	Problem solving: Execute a solution process using first principles of science to solve problems related to respective discipline.
PO3	Modern tool usage: Use a modern scientific, engineering and IT tool or technique for solving problems in the areas of their discipline.
PO4	Ethics: Apply the professional ethics and norms in respective discipline.
PO5	Individual and teamwork: Work effectively as an individual as a team member in a multidisciplinary team.
PO1(cbc)	Demonstrate proficiency in mathematics and the mathematical concepts needed for a proper understanding of physics
PO2	Demonstrate the ability to justify and explain their thinking and/or approach
PO3	Develop state of the art laboratory and professional communication skills
PO4	Apply the scientific method to design, execute and analyse an experiment

Course Title:**Course Code:**

Course title	Course Code	CO Statement
I SEM Mechanics and Properties of matter	FSA41031	Will learn fixing units, tabulation of observations, analysis of data (graphical/analytical)
	FSA41032	Will learn about accuracy of measurement and sources of errors, importance of significant figures.
	FSA41033	Will know how g can be determined experimentally and derive satisfaction.
	FSA41034	Will see the difference between simple and torsional pendulum and their use in the determination of various physical parameters.
	FSA41035	Will come to know how various elastic moduli can be determined.
II SEM Electricity and Magnetism	FSB41031	Demonstrate Gauss law, Coulomb's law for the electric field, and apply it to systems of point charges as well as line, surface, and volume distributions of charges.
	FSB41032	Explain and differentiate the vector (electric fields, Coulomb's law) and scalar (electric potential, electric potential energy) formalisms of electrostatics.
	FSB41033	Apply Gauss's law of electrostatics to solve a variety of problems.
	FSB41034	Describe the magnetic field produced by magnetic dipoles and electric currents.
III SEM Thermal physics and statistical physics	DMC29001	Write down the classification and characteristics of laws of thermodynamics
	DMC29002	Have a clear understanding about reversible and irreversible process
	DMC29003	Understand the classification and characteristics of entropy and thermodynamic Potential
IV SEM Waves and Optics	DMD29001	Specify the classification and characteristics of Fourier theorem
	DMD29002	Learn in detail with application, superposition of simple harmonic motion
	DMD29003	.Learn the details of Interference, diffraction and polarization
V SEM Solid State Physics	DME29201	Write down in detail with application of crystal structure
	DME29202	Write down the details of elementary lattice dynamics
	DME29203	Deliberate in detail with examples magnetic properties of matter
V SEM Renewable energy and Energy harvesting	DME29601	Understand the characteristics of fossil fuel
	DME29602	Learn in detail with application of wind energy
VI SEM Nuclear and particle physics	DMF29201	Write down in detail with application and properties of nuclei
	DMF29202	Learn in details with application and properties of nuclei
	DMF29203	Understand in detail with examples radioactivity

Programme Code: **BA25**

Course Title: Reporting and Editing Techniques

CO ID	CO
ELE270251	Prepare news copy
ELE270252	Specialize as fashion reporter
ELE270253	Prepare news copy and editing
ELE270254	Become Freelance journalist

Course Title: Practice of Advertising and Public Relation

CO ID	CO
ELF270251	Setup advertising agency.
ELF270252	Prepare the advertising copy for print.
ELF270253	Become script writer-marketing research
ELF270254	Become PRO and event campaigner.

Department: Physics

Programme Name:

Programme Code:

Session/Year: 2021-22

List of POs & PSOs

POID	PO Statement(I & II SEM)
PO1	Discipline Knowledge: Knowledge of science and ability to apply to relevant areas.
PO2	Problem solving: Execute a solution process using first principles of science to solve problems related to respective discipline.
PO3	Modern tool usage: Use a modern scientific, engineering and IT tool or technique for solving problems in the areas of their discipline.
PO4	Ethics: Apply the professional ethics and norms in respective discipline.
PO5	Individual and teamwork: Work effectively as an individual as a team member in a multidisciplinary team.
PO1(cbs)	Demonstrate proficiency in mathematics and the mathematical concepts needed for a proper understanding of physics
PO2	Demonstrate the ability to justify and explain their thinking and/or approach
PO3	Develop state of the art laboratory and professional communication skills
PO4	Apply the scientific method to design, execute and analyse an experiment

Course Title:**Course Code:****Name of Course In-charge/Coordinator:****List of Cos : 2021-22**

Course title	Course Code	CO No./Id	CO Statement
I SEM Mechanics and Propertis of matter	FSA41031	FSA41031	Will learn fixing units, tabulation of observations, analysis of data (graphical/analytical)
	FSA41032	FSA41032	Will learn about accuracy of measurement and sources of errors, importance of significant figures.
	FSA41033	FSA41033	Will know how g can be determined experimentally and derive satisfaction.
	FSA41034	FSA41034	Will see the difference between simple and torsional pendulum and their use in the determination of various physical parameters.
	FSA41035	FSA41035	Will come to know how various elastic moduli can be determined.
II SEM Electricity and Magnetisam	FSB41031	FSB41031	Demonstrate Gauss law, Coulomb's law for the electric field, and apply it to systems of point charges as well as line, surface, and volume distributions of charges.
	FSB41032	FSB41032	Explain and differentiate the vector (electric fields, Coulomb's law) and scalar (electric potential, electric potential energy) formalisms of electrostatics.
	FSB41033	FSB41033	Apply Gauss's law of electrostatics to solve a variety of problems.
	FSB41034	FSB41034	Describe the magnetic field produced by magnetic dipoles and electric currents.
III SEM Thermal physics and statistical physics	DMC29001	DMC29001	Write down the classification and characteristics of laws of thermodynamics
	DMC29002	DMC29002	Have a clear understanding about reversible and irreversible process
	DMC29003	DMC29003	Understand the classification and characteristics of entropy and thermodynamic potential
IV SEM Waves and Optics	DMD29001	DMD29001	Specify the classification and characteristics of Fourier theorem
	DMD29002	DMD29002	Learn in detail with application, superposition of simple harmonic motion
	DMD29003	DMD29003	.Learn the details of Interference, diffraction and polarization
V SEM Solid State Physics	DME29201	DME29201	Write down in detail with application of crystal structure
	DME29202	DME29202	Write down the details of elementary lattice dynamics
	DME29203	DME29203	Deliberate in detail with examples magnetic properties of matter
V SEM Renewable energy and Energy harvesting	DME29601	DME29601	Understand the characteristics of fossil fuel
	DME29602	DME29602	Learn in detail with application of wind energy
VI SEM Nuclear and particle physics	DMF29201	DMF29201	Write down in detail with application and properties of nuclei
	DMF29202	DMF29202	Learn in details with application and properties of nuclei
	DMF29203	DMF29203	Understand in detail with examples radioactivity

JSS Mahavidyapeetha

JSS College of Arts, Commerce and Science (Autonomous)

Ooty Road, Mysuru - 570025

Outcome Attainments 2021-22

Department: Mathematics

Programme: B.Sc

Programme Code: BScPhMa32/: BScCsMa34

I SEMESTER

Course title	CO ID	CO
Algebra-I and Calculus-I	CO1	Learn to solve system of linear equations.
	CO2	Solve the system of homogeneous and non homogeneous linear of m equations in n variables by using concept of rank of matrix.
	CO3	Students will be familiar with the techniques of integration and differentiation of function with real variables.
	CO4	Students learn to solve polynomial equations.
	CO5	Learn to apply Reduction formulae.

II SEMESTER

Course title	CO ID	CO
Algebra-II and Calculus-II	CO1	Learn the concept of Divisibility.
	CO2	Learn about prime and composite numbers.
	CO3	Learn the concept of congruences and its applications
	CO4	Identify and apply the intermediate value theorems and L'Hospital rule.
	CO5	Understand the concept of differentiation and fundamental theorems in differentiation and various rules.
	CO6	Find the extreme values of functions of two variables.
	CO7	Students learn to find areas and volumes using integration.

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru - 570025
2021-22

Department: Mathematics

Programme: B.Sc

Programme Code: BScPCM01/BScPMCs02/BScPMcM03/BScPME04

III SEMESTER

Course title	CO ID	CO
Real Analysis	CO1	Distinguish between a field and an ordered field
	CO2	<i>Study the behaviour of sequences.</i>
	CO3	Discuss the nature of infinite series.
	CO4	Understand the concept of least upper bound principle and its applications.
	CO5	Distinguish between pointwise and uniform convergence of sequence of functions

PO ID	PO
PO1	Demonstrate proficiency in Mathematics and the Mathematical concepts needed for a proper understanding of Physics.
PO2	Demonstrate the ability to justify and explain their thinking and/or approach
PO3	Demonstrate the ability to think, express and present in a clear, logical and succinct arguments
PO4	Develop state-of-the-art laboratory skills and professional communication skills
PO5	Use this as a basis for ethical behavior in issues facing chemist/drugs

IV SEMESTER

Course title	CO ID	CO
Algebra	CO1	Understand the concept of groups.
	CO2	<i>Understand the concept of cyclic groups.</i>
	CO3	Understand normal subgroups and Quotient groups.
	CO4	Understand the symmetries of geometrical figures.
	CO5	Understand the concept of integral domains and fields.

PO ID	PO
PO1	Demonstrate proficiency in Mathematics and the Mathematical concepts needed for a proper understanding of Physics.
PO2	Demonstrate the ability to justify and explain their thinking and/or approach
PO3	Demonstrate the ability to think , express and present in a clear, logical and succinct arguments
PO4	Develop state – of – the –art laboratory skills and professional communication skills
PO5	Use this has a basis for ethical behavior in issues facing chemist/drugs

V SEMESTER

Course title	CO ID	CO
Linear Algebra	CO1	Understand the concept of vector space
	CO2	Understand Euclidian geometry with the help of real inner products.
	CO3	Understand the orthogonal projection
	CO4	Distinguish between linear and non- linear transformations
	CO5	Understand the importance of Matrices in the study of linear transformations..

PO ID	PO
PO1	Demonstrate proficiency in Mathematics and the Mathematical concepts needed for a proper understanding of Physics.
PO2	Demonstrate the ability to justify and explain their thinking and/or approach
PO3	Demonstrate the ability to think, express and present in a clear, logical and succinct arguments
PO4	Develop state – of – the –art laboratory skills and professional communication skills
PO5	Use this as a basis for ethical behavior in issues facing chemist/drugs

VI SEMESTER

Course title	CO ID	CO
Complex Analysis	CO1	Understand the importance of complex numbers and their geometrical representation
	CO2	Find the equations of geometrical figures in complex form
	CO3	Distinguish between differentiability and analyticity of a function.
	CO4	Study the properties of various transformations.
	CO5	Understand the importance of conformal mappings.

PO ID	PO
PO1	Demonstrate proficiency in Mathematics and the Mathematical concepts needed for a proper understanding of Physics.
PO2	Demonstrate the ability to justify and explain their thinking and/or approach
PO3	Demonstrate the ability to think, express and present in a clear, logical and succinct arguments
PO4	Develop state – of – the –art laboratory skills and professional communication skills
PO5	Use this as a basis for ethical behavior in issues facing chemist/drugs

VI SEMESTER

Course title	CO ID	CO
Vector calculus	CO1	Understand the concepts of differentiation and partial differentiation of a vector function.
	CO2	<i>Study the properties of vectors</i>

PO ID	PO
PO1	Demonstrate proficiency in Mathematics and the Mathematical concepts needed for a proper understanding of Physics.
PO2	Demonstrate the ability to justify and explain their thinking and/or approach

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru – 570025

Department: Mathematics

Programme: BBA

I SEMESTER

Course title	CO ID	CO
Mathematical Aptitude-I	CO1	Have a strong base in the fundamental Mathematical concepts.
	CO2	<i>Grasp the approaches and strategies to solve problems with speed and accuracy.</i>
	CO3	Gain appropriate skills to succeed in preliminary selection process for recruitment.

II SEMESTER

Course title	CO ID	CO
Mathematical Aptitude-II	CO1	Have a strong base in the fundamental Mathematical concepts.
	CO2	<i>Grasp the approaches and strategies to solve problems with speed and accuracy.</i>
	CO3	Gain appropriate skills to succeed in preliminary selection process for recruitment.

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru – 570025

Department: Mathematics

Programme: BCA

I SEMESTER

Course title	CO ID	CO
Mathematical foundation	CO1	Study and solve problems related to connectives , predicates and quantifiers under different situations
	CO2	<i>Develop basic knowledge of matrices and to solve equations using cramer's rules</i>
	CO3	Know the concept of eigen values
	CO4	To develop the knowledge about derivatives and know various applications of differentiation
	CO5	Understand the basic concepts Mathematical reasoning , set and functions

II SEMESTER

Course title	CO ID	CO
Discrete Mathematical structures	CO1	To understand the basic concept of Mathematical reasoning, set and function
	CO2	<i>To understand various counting techniques and principle of inclusion and exclusions</i>
	CO3	Understand the concepts of various types of relations, partial ordering and equivalence relation
	CO4	Apply the concepts of generating functions to solve the recurrencs relations
	CO5	Familiarise the fundamental concepts of graph theory and shortest path algorithm

V SEMESTER (CBCS)

Course title	CO ID	CO
Business Mathematics	CO1	Specify the characteristic of Matrices and determinants
	CO2	<i>Write down in details with examples</i> Matrices and determinants
	CO3	Deliberate the characteristics of algebra
	CO4	Learn the classification and characteristic of permutation and combination
	CO5	Deliberate in details with examples Mathematical induction

PO ID	PO
PO1	Get expected skills to be placed in Is sector and self-employment
PO2	To develop abilities for data analysis and interpretation using ICT
PO3	Acquire comprehensive knowledge with equal emphasis on theory and practice

1. Direct Assessment:

	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4
Algebra-I and Caculus-I	100	33.33	33.33	66.667	100	33.33	33.33	66.66
Algebra-II and Calculus-II	33.33	33.33	33.33	100	33.33	33.33	33.33	100
Real Analysis	100	100	100	33.333	100	100	100	33.333
Algebra	100	100	33.333	100	100	100	33.333	100
Linear Algebra	100	100	100	33.33	100	100	100	33.33
Complex Analysis	33.33	100	100	100	33.33	100	100	100
Vector calculus	100	100			100	100		
Mathematical foundation	66.667	100	66.667		66.667	100	66.66	
Discrete Mathematical structures	83.33	66.667	100		83.33	66.66	100	
Business Mathematics	77.778	66.667	100		77.778	66.667	100	
Mathematical Aptitude-I	60	40	60	40	60	40	60	40
Mathematical Aptitude-II	80	80	53.33	53.33	80	80	53.33	53.33
Average	77.8698	76.6661	70.908	65.8325	77.8696	76.67	70.91	65.832
Av*0.8	62.296	61.333	56.724	52.667	62.296	61.34	56.73	52.666

2. Indirect Assessment

Response by	PO1	PO2	PO3	PO4	PSO1	PSO2	PSO3	PSO4
Students	100	100	100	100	100	100	100	100
Teachers	100	100	100	100	100	100	100	100
Average	100	100	100	100	100	100	100	100
Av*0.2	20	20	20	20	20	20	20	20

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science (Autonomous)
Ooty Road, Mysuru - 570025
2021-22
Department: BIOCHEMISTRY

Programme: B.Sc

Programme Code: BSc40-BcMb, BSc42- BcBt

I SEMESTER

Course title	CO ID	CO
Chemical Foundations of Biochemistry-1	CO1	Understand in detail Scope of Biochemistry and Units of measurement
	CO2	Specify the characteristics of Atomic structure and Chemical bonds
	CO3	Learn the characteristics of Buffers and Colligative properties
	CO4	Understand the types and characteristics of Electrochemistry and Redox reactions

PO ID	PO
PO1	To create interest in Biochemistry and appreciation for chemical basis of biological processes.
PO2	To inculcate the spirit of inquiry and value of systematic study of a discipline. Provide a general understanding of the related disciplines with a holistic knowledge generation in biological sciences.
PO3	To provide an in-depth understanding of chemical reaction mechanisms in biological processes.
PO4	To provide a flavor of historical developments of enzymes and their applications in research, diagnostics and various industries.
PO5	Gain proficiency in basic laboratory techniques and be able to apply the scientific method to the processes of experimentation, hypothesis testing, data interpretation and logical conclusions.
PO6	Develop problem solving and analytical skills through case studies, research papers and hands-on-experience
PO7	To appreciate biochemical mechanistic basis of physiological processes, metabolism under normal and pathological conditions importance and levels of metabolic regulations.
PO8	To apply and effectively communicate scientific reasoning and data analysis in both written and oral forms. They will be able to communicate effectively with well-designed posters and slides in talks aimed at scientific audiences as well as the general public.

II SEMESTER

Course title	CO ID	CO
Chemical Foundations of Biochemistry-2	CO1	Understand in depth Chemical Catalysis
	CO2	Specify the Nomenclature of Organic Compounds
	CO3	Deliberate the detail of Organometallic Compounds
	CO4	Learn the detail of Inorganic Chemistry

III SEMESTER

Course title	CO ID	CO
Enzymology & Bioenergetics	CO1	Learn the characteristics of enzyme kinetics
	CO2	Learn in depth enzyme inhibitions
	CO3	Specify in detail with examples enzyme activity
	CO4	Understand the classification and characteristics of bioenergetics

PO ID	PO
PO1	Identify the taxonomic position of plants using principles and methods of nomenclature and classification in Botany
PO2	Understand the impact of the plant diversity in societal and environmental context
PO3	Demonstrate the knowledge of, and need for sustainable development
PO4	Use interdisciplinary approaches with quantitative skills to work on biological problems
PO5	Demonstrate the ability to justify and explain their thinking and/or approach
PO6	Develop state-of-the-art laboratory and professional communication skills
PO7	Apply the scientific method to design, execute, and analyze an experiment
PO8	Explain scientific procedures and their experimental observations

IV SEMESTER

Course title	CO ID	CO
Metabolism	CO1	Specify the detail of metabolism of lipids
	CO2	Understand the detail of metabolism of carbohydrates
	CO3	Deliberate the characteristics of metabolism of proteins
	CO4	Understand the detail of metabolism of nucleic acids

V SEMESTER

Course title	CO ID	CO
Nutritional Biochemistry	CO1	Understand the characteristics of energy metabolism
	CO2	Specify the characteristics of dietary carbohydrates
	CO3	Identify in detail with examples dietary lipid & health
	CO4	Understand the characteristics of minerals

V SEMESTER

Course title	CO ID	CO
Tools and Techniques in biochemistry	CO1	Understand in depth chromatography
	CO2	Learn in depth electrophoresis technique
	CO3	Deliberate the characteristics of centrifugation
	CO4	Understand in detail with examples spectrophotometry

VI SEMESTER

Course title	CO ID	CO
Plant biochemistry	CO1	Understand in detail with examples spectrophotometry
	CO2	Specify the characteristics of plant cell structure
	CO3	Deliberate in detail with examples photosynthesis
	CO4	Understand the detail of nitrogen metabolism

Direct Assessment:

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
Chemical foundations of Biochemistry-1	66.66667	66.66667	66.66667	66.66667	33.33333	66.66667	66.66667	66.66667
Chemical foundations of Biochemistry-2	73.33333	75	88.88889	88.88889	66.66667	66.66667	83.33333	66.66667
Enzymology and Bioenergetics	77.77778	66.66667	77.77778	77.77778	77.77778		77.77778	
Metabolism	75	75	100	83.33333	66.66667	100	100	66.66667
Nutritional Biochemistry		55.55556	66.66667		33.33333	50		50
Tools and techniques of Biochemistry		55.55556	66.66667	33.33333	50	50	50	44.44444
Plant Biochemistry	77.77778	66.66667	77.77778	77.77778	77.77778		77.77778	
AVERAGE	74.11111	65.87302	77.77778	71.29633	57.93651	66.66667	75.92593	58.88889
Av*0.8	59.28889	52.69841	62.22222	57.03704	46.34921	53.33333	60.74074	47.11111

	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
Chemical foundations of Biochemistry-1						
Chemical foundations of Biochemistry-2						
Enzymology and Bioenergetics						
Metabolism	66.66667	66.66667	66.66667	66.66667		
Nutritional Biochemistry	66.66667	50				50
Tools and techniques of Biochemistry	66.66667	44.44444	33.33333	33.33333	55.55556	
Plant Biochemistry	88.88889	66.66667	66.66667	66.66667	100	
AVERAGE	72.22223	56.94445	55.55556	55.55556	77.77778	50
Av*0.8	57.77778	45.55556	44.44445	44.44445	62.22222	40

2. Indirect Assessment

Response by	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8
Students	100	100	100	100	33.33	100	66.66	100
Teachers	100	66.66	33.33	66.66	33.33	100	100	66.66
Average	100	83.33	66.665	83.33	33.33	100	83.33	83.33
Av*0.2	20	16.666	13.333	16.666	6.666	20	16.666	16.666

Response by	PSO1	PSO2	PSO3	PSO4	PSO5	PSO6
Students	66.66	100	100	66.66	100	100
Teachers	100	100	66.66	66.66	100	100
Average	83.33	100	83.33	66.66	100	100
Av*0.2	16.666	20	16.666	13.332	20	20

Department: BIOTECHNOLOGY (UG)

Programme Name: BSc

Programme Code: BScBtZo36/ BScChBt37/ BScBtBc40/ BScMbBt41/BSC05/BSC06

Session/Year: 2021-22

List of POs & PSOs

POID	PO Statement
PO1	Develop state-of-the-art laboratory skills and professional communication skills.
PO2	Apply the scientific method to design, execute, and analyse an experiment.
PO3	Explain the theoretical basis of the tools, technologies and methods common in Life science.
PO4	Design and develop solution to biotechnology problems by applying appropriate tools while keeping in mind safety for environment and society.
PSO1	Apply appropriate techniques for the qualitative and quantitative analysis of chemicals in laboratories and in industries
PSO2	Demonstrate effectively the applications of biochemical and biological sciences.
PSO3	Know and apply appropriate tools and techniques in biotechnological manipulation
PSO4	Understand his or her responsibilities in biotechnological practices.

Course Title: CELL BIOLOGY & GENETICS

Course Code:FSA460

List of COs

CO ID	CO Statement
CO1	Develop an understanding of the structure and functions of organelles.
CO2	Understand the structure of chromosomes, types, cell differentiation and features of cancer cells.
CO3	Gain comprehensive understanding of the chemical basis of heredity and methods.
CO4	Understand effect of mutation, mechanism and Chromosomal Aberrations.

Course Title: BIOMOLECULES & BIO-ANALYTICAL TECHNIQUES

Course Code:FSB460

List of COs

CO ID	CO Statement
CO1	Understand the properties, mechanisms and biological importance of Bio-molecules.
CO2	Comprehend the mechanism of enzyme action, factors affecting it and its applications.
CO3	Understand and able to relate the principles underlying various instruments in the field of Biology.
CO4	Compare and contrast the role of bio -molecules and enzymes.

Course Title: MOLECULAR BIOLOGY & GENETIC ENGINEERING

Course Code:DMC220

List of COs

CO ID	CO Statement
CO1	Display a broad understanding of core molecular Biology.
CO2	Discuss and differentiate the process of Transcription and Translation
CO3	Explain key concept of genome organization and manipulation
CO4	Demonstrate working knowledge in a defined skill set of molecular biology and biotechnology protocols.

Course Title: PLANT TISSUE & ANIMAL CELL CULTURE

Course Code:DMD220

List of COs

CO ID	CO Statement
CO1	Develop concept of plant tissue and animal cell culture techniques and their application in biotechnology.
CO2	Comprehend the knowledge of transgenic plants in industrial and agricultural applications.
CO3	Establish and maintain various cell lines used in tissue culture.
CO4	Understand the application of animal cell culture in biopharmaceutical industry.

Course Title: IMMUNOLOGY & MEDICAL BIOTECHNOLOGY

Course Code:DME220

List of COs

CO ID	CO Statement
CO1	Understand the role of different types of Cells in immune system .
CO2	Discuss the principles and applications of immunological techniques.
CO3	Understand to diagnose diseases.
CO4	Comprehend the knowledge of therapeutic applications of enzyme and hormone.

Course Title: MICROBIAL TECHNIQUES

Course Code:DME222

List of COs

CO ID	CO Statement
CO1	Understand structure, classification and reproduction in micro-organisms.
CO2	Know and apply appropriate sterilization techniques in biotechnology.
CO3	Discuss the various culture media and its components used in culturing microbes.
CO4	Comprehend the knowledge of staining technique.

List of COs

CO ID	CO Statement
CO1	Gain an understanding of the causes, types and control methods for Environmental Pollution.
CO2	Differentiate the application of different life forms in Environmental Remediation.
CO3	Apply Statistical Tools for Analysis of Biological Data.
CO4	Apply Statistical Tools for calculation of standard deviation

JSS Mahavidyapeetha
JSS College of Arts, Commerce and Science
 Ooty Road, Mysuru – 570 025, Karnataka, India

Name of the Department: Botany

Programmes offered: B.Sc (CBZ & BBM) B.Sc. - BZ CB (NEP)

List of COs, POs, and PSOs (For the year 2021-22):

PO/PSO Id/No.	PO/PSO
PO1	Identify the taxonomic position of plants using principles and methods of nomenclature and classification in Botany
PO2	Understand the impact of the plant diversity in societal and environmental context
PO3	Demonstrate the knowledge of, and need for sustainable development
PO4	Use interdisciplinary approaches with quantitative skills to work on biological problems
PO5	Demonstrate the ability to justify and explain their thinking and/or approach
PO6	Develop state-of-the-art laboratory and professional communication skills
PO7	Apply the scientific method to design, execute, and analyze an experiment
PO8	Explain scientific procedures and their experimental observations

Course title	Course Code	CO No./Id	CO Statement
Plant Anatomy and Embryology of Angiosperms	DMC23007	DMC230071	Understand the details of histology
		DMC230072	Understand the details of anatomy
		DMC230073	Understand the characteristics of secondary growth
		DMC230074	Learn the details of embryology

Course title	Course Code	CO No./Id	CO Statement
Plant Physiology and Metabolism	DMD23007	DMD230071	Learn in depth translocation in phloem
		DMD230072	Specify the classification and characteristics of enzyme
		DMD230073	Understand the details of photosynthesis
		DMD230074	Identify the characteristics of plant response to light and temperature

Course title	Course Code	CO No./Id	CO Statement
Cell and Molecular Biology	DME23007	DME230071	Understand in depth microscopy
		DME230072	Learn the details of cell
		DME230073	Specify the details of DNA
		DME230074	Learn the details of gene regulation

Course title	Course Code	CO No./Id	CO Statement
Floriculture	DME23607	DME236071	Specify the classification and characteristics of gardening
		DME236072	Understand in depth nursery management
		DME236073	Identify in details with examples ornamental plants

Course title	Course Code	CO No./Id	CO Statement
Genetics and Plant Breeding	DMF23008	DMF230071	Specify the details of heredity
		DMF230072	Write down the classification and characteristics of mutations
		DMF230073	Learn the details of plant breeding
		DMF230074	Identify in details with examples linkage

NEP BZ & CB

PO ID	PO
P01	Skill development for the proper description using botanical terms, identification, naming and classification of life forms especially plants and microbes.
P02	Acquisition of knowledge on structure, life cycle and life processes that exist among plant and microbial diversity through certain model organism studies.
P03	Understanding of various interactions that exist among plants and microbes; to develop the curiosity on the dynamicity of nature.
P04	Understanding of the major elements of variation that exist in the living world through comparative morphological and anatomical study.
P05	Ability to explain the diversity and evolution based on the empirical evidences in morphology, anatomy, embryology, physiology, biochemistry, molecular biology and life history.
P06	Skill development for the collection, preservation and recording of information after observation and analysis- from simple illustration to molecular database development.

NEP CB and BZ

Course title	Course Code	CO No./Id	CO Statement
Microbial Diversity and Technology	FSA48039	FSA9401	To make the students familiar with economic importance of diverse plants that offer resources to human life
		FSA9402	To make the students known about the plants used as-food, medicinal value and also plant source of different economic value.
		FSA9403	To generate interest amongst the students on plants importance in day today life, conservation, ecosystem and sustainability.
Plants and human welfare	FSA940	FSA9401	To make the students familiar with economic importance of diverse plants that offer resources to human life
		FSA9402	To make the students known about the plants used as-food, medicinal value and also plant source of different economic value.
		FSA9403	To generate interest amongst the students on plants importance in day today life, conservation, ecosystem and sustainability.
Diversity of Non flowering Plants	FSB48039	FSB480391	Understand the diversity and affinities among Algae, Bryophytes, Pteridophytes and Gymnosperms.
		FSB480392	Understand the morphology, anatomy, reproduction and life cycle across Algae, Bryophytes, Pteridophytes and Gymnosperms, and their ecological and evolutionary significance.
		FSB480393	Obtain laboratory skills/explore non-flowering plants for their commercial applications.
Plant propagation, nursery management and gardening	FSB940	FSB9401	To gain knowledge of gardening, cultivation, multiplication, raising of seedlings of garden plants.
		FSB9402	To get knowledge of new and modern techniques of plant propagation
		FSB9403	To develop interest in nature and plant life.

Programme Outcome for Bachelor of Science in Botany, Biochemistry & Microbiology

Sl. No.	Course	COID	
1.	Biodiversity of Microbes and Archegoniate	DMA2300801	Understand the characteristics of viruses
		DMA2300802	Learn the classification and characteristics of bacteria
		DMA2300803	Understand the classification and characteristics of fungi
		DMA2300804	Identify the classification and characteristics of archegoniate
2.	Plant Ecology, Morphology and Taxonomy	DMB2300801	Learn the classification and characteristics of plant communities
		DMB2300802	Understand in depth herbarium
		DMB2300803	Understand in details with examples plant morphology
		DMB2300804	Specify the characteristics of ecosystem
3.	Plant Anatomy and Embryology	DMC2300801	Understand the details of histology
		DMC2300802	Learn the details of embryology
		DMC2300803	Understand the details of anatomy
		DMC2300804	Learn in depth translocation in phloem
4.	Plant Physiology and Metabolism	DMD2300801	Understand the details of photosynthesis
		DMD2300802	
		DMD2300803	Specify the classification and characteristics of enzyme
		DMD2300804	
5.	Cell and Molecular Biology	DME2300801	Understand in depth microscopy
		DME2300802	Learn the details of cell
		DME2300803	Specify the details of DNA
		DME2300804	Learn the details of gene regulation

6.	Floriculture	DME2360801	Specify the classification and characteristics of gardening
		DME2360802	Understand in depth nursery management
		DME2360803	Identify in details with examples ornamental plants
7.	Genetics and Plant Breeding	DMF2300801	Specify the details of heredity
		DMF2300802	Write down the classification and characteristics of mutations
		DMF2300802	Learn the details of plant breeding
		DMF2300803	Identify in details with examples linkage

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Department: Microbiology

Programme Name: B.Sc(BMBt & BBM)

Programme Code: BScMbbt41

Session/Year: 2021-22: NEP

BScMbbc42

List of POs

POID	PO Statement
PO1	Knowledge and understanding of concepts of microbiology and its application in pharma, food, agriculture, beverages, nutraceutical industries.
PO2	Understand the distribution, morphology and physiology of microorganisms and demonstrate the skills in aseptic handling of microbes including isolation, identification and maintenance.
PO3	Competent to apply the knowledge gained for conserving the environment and resolving the environmental related issues.
PO4	Learning and practicing professional skills in handling microbes and contaminants in laboratories and production sectors.
PO5	Exploring the microbial world and analysing the specific benefits and challenges.
PO6	Applying the knowledge acquired to undertake studies and identify specific remedial measures for the challenges in health, agriculture, and food sectors.
PO7	Thorough knowledge and application of good laboratory and good manufacturing practices in microbial quality control.
PO8	Understanding biochemical and physiological aspects of microbes and developing broader perspective to identify innovative solutions for present and future challenges posed by microbes.
PO9	Understanding and application of microbial principles in forensic and working knowledge about clinical microbiology.
PO10	Demonstrate the ability to identify ethical issues related to recombinant DNA technology, GMOs, intellectual property rights, biosafety and biohazards.
PO11	Demonstrate the ability to identify key questions in microbiological research, optimize research methods, and analyse outcomes by adopting scientific methods, thereby improving the employability.
PO12	Enhance and demonstrate analytical skills and apply basic computational and statistical techniques in the field of microbiology

Course Title: General Microbiology

Course Code: FSA500

Name of Course In-charge/Coordinator: Dr.M.Seema

List of CO

CO ID	CO Statement
CO1	Thorough knowledge and understanding of concepts of microbiology.
CO2	Learning and practicing professional skills in handling microbes.
CO3	Thorough knowledge and application of good laboratory and good manufacturing practices in microbial quality control.

Course Title: Microbial Biochemistry and Physiology

Course Code: FSB500

Name of Course In-charge/Coordinator: Dr.H.P.Spoorthy

List of CO

CO ID	CO Statement
CO1	Inculcate the knowledge regarding microbial growth, functions, physiology and metabolism
CO2	Know the microbial growth in response to environmental factors
CO3	Get equipped with various methods of bacterial growth measurement

Department: Microbiology

Programme Name: B.Sc(BMBt & BBM)

Programme Code: BSc06 & BSc07

Session/Year: 2021-22 : CBCS

List of POs

POID	PO Statement
PO1	Demonstrate the ability to justify and explain their thinking and/or approach, both written and oral. Demonstrate the ability to present clear, logical and succinct arguments, including prose and mathematical language. Write and speak using professional norms, and demonstrate an ability to collaborate effectively.
PO2	Develop state-of-the-art laboratory skills and professional communication skills.
PO3	Apply the scientific method to design, execute, and analyze an experiment and also to explain their scientific procedures as well as their experimental observations.
PO4	Demonstrate an understanding of fundamental biochemical principles, structure and biological function of biomolecules, metabolic pathways and their regulation.
PO5	Work as a laboratory technician, biochemists or medical scientist
PO6	Possess knowledge of ethical practices in science.
PO7	Describe/ explain the processes used by microorganisms for their replication, survival, and interaction with their environment and host populations.
PO8	Explain the theoretical basis of the tools, technologies and methods common to microbiology.
PO9	Apply the scientific method as a demonstration that they understand its application furthering our knowledge of the microbial world.
PO10	Design and develop solution to Biotechnology problems by applying appropriate tools while keeping in mind safety factor for environmental & society.
PO11	Create, select, and apply appropriate techniques, resources, and modern tools including prediction and modelling to different activities with an understanding of the limitations.
PO12	Support biotechnology research activity with strong technical background knowledge.

Course Title: MICROBIAL PHYSIOLOGY AND METABOLISM

Course Code: DMC28006 & 28007

List of Cos

CO ID	CO Statement
CO1	Inculcate the knowledge regarding microbial growth, functions, physiology and metabolism.
CO2	Understand the microbial transport systems and microbial metabolism
CO3	Know the microbial growth in response to environmental factors.
CO4	Get equipped with various methods of bacterial growth measurement
CO5	Knowledge of properties, structure, function of enzymes, enzyme kinetics and their regulation

Course Title: MICROBIAL GENETICS AND GENETIC ENGINEERING

Course Code: DMD28006 & 28007

List of CO

CO ID	CO Statement
CO1	Genetics of microorganisms and also about recombinant DNA technology used in microbiological research
CO2	Understand about techniques in genetic engineering
CO3	Social and ethical issues concerning genetic engineering
CO4	Applications of genetic engineering in various fields

Course Title: ENVIRONMENTAL SCIENCE

Course Code: DME28006 & 28007

List of CO

CO ID	CO Statement
CO1	The role of microorganisms in soil, air, water, waste water and bioremediation.
CO2	Know about the diversity of microorganism and microbial communities inhabiting a wide range of ecological habitats.
CO3	Learn the occurrence, abundance and distribution of microorganisms in the environment and their role in the environment
CO4	Understand various biogeochemical cycles – Carbon, Nitrogen, Phosphorus cycles etc. and microbes involved in these cycles.
CO5	Understand various plant microbes interactions especially rhizosphere, phyllosphere and mycorrhizae and their applications especially the biofertilizers and their mass

	production.
CO6	The various methods to determine the Sanitary quality of water and sewage Treatment methods employed in waste water treatment

Course Title: AGRICULTURAL MICROBIOLOGY

Course Code: DME28006 & 28007

List of Cos

CO ID	CO Statement
CO1	Microorganisms in agriculture, plant pathology and control of plant diseases
CO2	and their significance
CO3	Understand the land mark in the field of Agricultural microbiology.
CO4	Gain knowledge about biofertilizers and biopesticide in agriculture.
CO5	Know about principles and practices involved in the management of plant diseases by different methods
CO6	Understand the important plant diseases caused by phytoplasma, viruses and viroids. Bacteria and fungi

Course Title: IMMUNOLOGY

Course Code: DMF28006 & 28007

List of Cos

CO ID	CO Statement
CO1	The human immune response towards microbes in medical microbiology, knowledge is gained about the relationship between microorganism and human disease, pathogenicity, Laboratory diagnosis, treatment and prophylaxis.
CO2	Demonstrate an understanding of key concepts in immunology.
CO3	Understand the overall organization of the immune system.
CO4	To make them understand the salient features of antigen antibody reaction & its uses in diagnostics and various other studies.
CO5	Learn about immunization and their preparation and its importance

Course Title: INDUSTRIAL, FOOD AND MEDICAL MICROBIOLOGY

Course Code: DMF28006 & 28007

List of CO

CO ID	CO Statement
CO1	Understand food related microorganisms, their contamination, spoilage and preservation .
CO2	Understand the beneficial role of microorganisms in fermented dairy products
CO3	Understand how microbiology is applied in manufacture of industrial products
CO4	The underlying principles in downstream processing
CO5	Know the human immune response towards microbes, Know the relationship between microorganism and human disease, pathogenicity, Laboratory diagnosis, treatment and prophylaxis Demonstrate an understanding of key concepts in immunology

Course Title: MICROBIAL DIAGNOSIS IN HEALTH CLINICS

Course Code: DMF28206 & 28207

List of CO

CO ID	CO Statement
CO1	Gain experience in health clinics such as examination, collection of clinical samples and diagnosis
CO2	Demonstrate scientific quantitative skills, the ability to evaluate experimental design, read graphs.

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Department: Computer Science

Programme Name: BCA

Programme Code:

Session/Year III sem 21/22

List of POs & PSOs

PO/PSO ID	PO/PSO
PO/PSO ID	PO/PSO
PO1	Get expected skills to be placed in IT sector and self-employment.
PO2	To develop abilities for data analysis and interpretation using ICT.
PO3	Acquire comprehensive knowledge with equal emphasis on theory and practice.
PO4	Analyze and apply latest technologies to solve problems in the areas of computer applications.
PO5	Develop the basic programming skills to enable students to build Utility tools.
PO6	Get the foundation knowledge for higher studies in the field of Computer Application.
PO7	Analyze and synthesis computing systems through quantitative and qualitative techniques
PO8	Develop practical skills to provide solutions to industry, society and business.
PO9	Work effectively both as an individual and a team leader on multidisciplinary projects.
PO10	Improves communication skills so that they can effectively present technical information in oral and written reports
PSO01	Knowledge of contemporary and emerging issues in computer science
PSO02	Ability to identify, critically analyse, formulate and develop computer application
PSO03	Learn techniques, skills and modern hardware and software tools necessary for innovative software solutions

PSO04	Devise and conduct experiments, interpret data and provide well informed conclusions.
PSO05	Information about computer, technology, organization and management.
PSO06	Know various computer applications and latest development in IT and communication system.
PSO07	Act as software programmer, system and Database administrator, web designer, faculty for computer science and computer applications.
PSO08	Design and conduct experiments, analyze and interpret data.

Course Title: C Programming

Course Code:FAA420

List of COs

CO ID	CO Statement
CO1	Understand the characteristics of DBMS with examples
CO2	Deliberate the details of types of database languages with examples
CO3	Learn the details of ER- Diagrams and Relationship
CO4	Understand in depth Basic concepts of Relational Model
CO5	Learn in details with examples MYSQL Commands
CO6	Learn in details with examples in PL-SQL
Or as designed in the curriculum	

Course Title: Data Communication and Computer Networks

Course Code: DSE 1

ECE21001

List of COs

CO ID	CO Statement
CO1	Learn in depth Elements of Data Communications and network Systems
CO2	Learn in depth Transmission Media
CO3	Understanding the various classifications and characteristics of Signals
CO4	Understand in details with examples Network Models
CO5	Learn in depth Error Detection and Corrections Algorithms
CO6	Deliberate in details with examples Switching Concepts
CO7	Deliberate the classification and characteristics of networking and internetworking Devices
Or as designed in the curriculum	

**Programme Name: BCA
DCE45001**

Programme Code: DSE 2

Course Title: Data mining Course Code: DSE 2 DCE45001

List of COs

CO ID	CO Statement
CO1	Understand the characteristics of Data Warehousing
CO2	Understand the details of Data Warehousing Architecture
CO3	Deliberate in depth Data Mining
CO4	Learn in details with examples Association Rule Mining
CO5	Specify the details of Classification and Prediction Techniques
CO6	Write down in depth Application of Data Mining
CO7	Learn in depth Clustering Methods
Or as designed in the curriculum	

**Programme Name: BCA
DCF31001**

Programme Code: DSE 1

Course Title: DBMS

Course Code: DSE 2 DCE45001

CO ID	CO Statement
CO1	Understand the characteristics of DBMS with examples
CO2	Deliberate the details of types of database languages with examples
CO3	Learn the details of ER- Diagrams and Relationship
CO4	Understand in depth Basic concepts of Relational Model
CO5	Learn in details with examples MYSQL Commands
CO6	Learn in details with examples in PL-SQL
Or as designed in the curriculum	

Department: Computer Science
Programme Name: BCA
Session/Year III sem 21/22

Programme Code:FAA410

Course Title: Data Structure using C

Course Code:FAB420

CO ID	CO Statement
CO1	Understand the characteristics of DBMS with examples
CO2	Deliberate the details of types of database languages with examples
CO3	Learn the details of ER- Diagrams and Relationship
CO4	Understand in depth Basic concepts of Relational Model
CO5	Learn in details with examples MYSQL Commands
CO6	Learn in details with examples in PL-SQL
Or as designed in the curriculum	

Programme Name: BCA
Session/Year III sem 21/22

Programme Code:FAA410

Course Title: Fundamentals of Computer

Course Code:

CO ID	CO Statement
CO1	Understand the characteristics of DBMS with examples
CO2	Deliberate the details of types of database languages with examples
CO3	Learn the details of ER- Diagrams and Relationship
CO4	Understand in depth Basic concepts of Relational Model
CO5	Learn in details with examples MYSQL Commands
CO6	Learn in details with examples in PL-SQL
Or as designed in the curriculum	

Programme Name: BCA
DCD23001
Session/Year IV sem 21/22

Programme Code: DSE 1

Course Title: Object Oriented Programming in C++
Course Code: ECA23001

List of COs

CO ID	CO Statement
CO1	Learn the details of Basic elements of J2EE
CO2	Deliberate the details of Concepts of Multi-Tier Architectures
CO3	Understand the characteristics of Enterprise Application Strategy
CO4	Write down in depth Basic Concepts of JDBC
CO5	Identify in details with examples implementation of SQL Commands Using JDBC objects
CO6	Learn in details with examples Basic Concepts of Servlet
CO7	Learn in details with examples Basic Concepts of JSP
Or as designed in the curriculum	

Department: Computer Science

Programme Name: BCA

DCF31001

Session/Year III sem 21/22

Course Title: JAVA

Programme Code: DSE 1

Course Code: DSE 1

CO ID	CO Statement
CO1	Deliberate in details with examples Boolean algebra and logic circuits
CO2	Learn the details of Data Representation and Computer Arithmetic
CO3	. Learn in depth Computer Organization and Design
CO4	. Learn the details of architecture of CPU
CO5	Deliberate the classification and characteristics of Basic Computer Programming Concepts
CO6	Write down in depth Basic Computer Programming Concepts
Or as designed in the curriculum	

Department: Computer Science

Programme Name: BCA

Session/Year IV sem 21/22

Course Title: Numerical Analysis

And Statistics

Programme Code: DSE 2 DCD21001

Course Code: DSE 2 DCD21001

CO ID	CO Statement
CO1	Understand the details of Computer Numerical data and arithmetic
CO2	Understand the classification and characteristics of Iterative Methods in numerical analysis
CO3	Deliberate in details with examples Matrices and linear system of Equations
CO4	Specify in details with examples Interpolation
CO5	Understand in depth Numerical integration and differentiation
CO6	Learn the details of Importance and limitations of statistics
Or as designed in the curriculum	

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Department: Computer Science

Programme Name: BCA

DCF31001

Session/Year VI sem 21/22

Programme Code: DSE 1

Course Title: Operation Research Course Code: DSE 1

DCF31001

List of COs

CO ID	CO Statement
CO1	Write down the details of Origin and Development of Operation Research
CO2	Understand the characteristics of Linear Programming Problems and Methods
CO3	Deliberate in depth Transportation Problems
CO4	Deliberate in depth Assignment Problem
CO5	Identify in details with examples Network Analysis
CO6	Learn in depth Application of Operation Research
Or as designed in the curriculum	

Department: Computer Science
Programme Name: BCA
ECE26001
Session/Year IV sem 21/22

Programme Code: DSE 2

Course Title: PHP Programming with MySQL **Course Code: DSE 2 ECE26001**

CO ID	CO Statement
CO1	Learn in depth Elements of PHP
CO2	Learn in depth Interaction Methods Between HTML and PHP
CO3	Understand in depth PHP function
CO4	Understand in depth String Manipulation
CO5	Learn the characteristics of Regular Expression
CO6	Learn the details of Developing PHP Web Application
Or as designed in the curriculum	

Programme Name: BCA
DCE45001
Session/Year VI sem 21/22

Programme Code: DSE 2

Course Title: Project **Course Code: DCF**
40001

CO ID	CO Statement
CO1	Identify in details with examples Problem identification
CO2	Write down in depth System Analysis
CO3	Understand and Develop SRS for selected System Problem
CO4	Understand and Develop System Design for selected System Problem
CO5	Learn in details and Develop a Code and Test the System
CO6	Understand the details of Presentation and Demo of Project Work
Or as designed in the curriculum	

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Department: Computer Science

Programme Name: BCA

Programme Code: DSE 2 DCD21001

Session/Year IV sem 21/22

Course Title: Softwear testing and softwear engineering Course Code: DSE 2 DCE45001

List of COs

CO ID	CO Statement
CO1	Understand in details with examples Concepts of Software process
CO2	Specify the details of Software requirements and analysis
CO3	Learn in depth Design concepts and principles of software engineering
CO4	Understand in depth software Configuration Management and Project Management
CO5	Learn in details with examples Software Tastings
CO6	Specify in depth trends in software engineering
Or as designed in the curriculum	

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Department: Computer Science

Programme Name: BCA

Programme Code: DSE 1

DCF31001

Session/Year III sem 21/22

Course Title: Web technology

Course Code: DSE 2 DCC25001

List of COs

CO ID	CO Statement
CO1	Learn the details of HTML tags
CO2	Understand the details of Basic CSS and implements
CO3	Understand the details of Basic Concepts of Java Scripts
CO4	. Write down in details with application and Usage of Java scripts
CO5	Understand in details with examples Document object Model
CO6	Deliberate in depth Basic of XML
Or as designed in the curriculum	

JSS College of Arts, Commerce and Science (Autonomous)

Ooty Road, Mysuru - 570025

2021-22

Department: **KANNADA**

Programme: **BA**

Programme Code: **BAKG43 (NEP)**

POID	PO
BAKG431	GET THE LITERARY AWARENESS , ADOPT SCIENTIFIC & RATIONAL THINKING.
BAKG432	GAIN THE KNOWLEDGE OF CLASSICAL,MEDIVEL & MODERN KANNADA LITERATURE
BAKG433	GAIN LANGUAGE SKILLS IN READING & WRITING
BAKG434	GAIN KNOWLEDGE OF CONTEMPORARY PREVAILINGS
BAKG435	AWARENESS OF SOCIO-RELIGIOUS ,POLITICAL & GEOGRAPHICAL BACKGROUND OF KANNADA
BAKG436	KNOWLEDGE OF CULTURAL RICHNESS OF KANNADA LANGUAGE & LITERATURE
BAKG437	BECOME A CREATIVE WRITER BY STUDYING KANNADA LITERATURE

Programme Code: **BA23(CBCS)**

POID	PO
BA231	DEVELOP HUMAN VALUES & A SENSE OF SOCIAL SERVICE
BA232	BECOME A RESPONCIBLE & DUTIFUL CITIZEN
BA233	ABLE TO ENHANCE CRITICAL TEMPER & CREATIVE ABILITY
BA234	UNDERSTAND & APPRECIATE RELATIONSHIP BETWEEN MAN AND ENVIRONMENT
BA235	TO READ & INTERPRIT ,GENERATE MAPS AND OTHER GEOGRAPHIC REPRESENTATIONS
BA236	UNDERSTAND PHYSICAL- GEOGRAPHIC PROCESS, THE GLOBAL DISTRIBUTION OF LANDFORMS AND ECOSYSTEMS
BA237	ROLE OF THE PHYSICAL ENVIRONMENT ON HUMAN POPULATION

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Ooty Road, Mysuru - 570025

Department: GEOGRAPHY
Program Code: BA31/33

Program: BA

PO ID	PO
PO1	<p>Relating to Knowledge</p> <p>Give explanation of relevant terms and concept of geography including definitions.</p> <p>Give better explanation about relevant principles, theories and models in geography.</p> <p>Show clear knowledge relating to man and environmental process and factors.</p>
PO2	<p>Understanding and application</p> <p>Identify the importance of spatial scale and time scale.</p> <p>Know the complex and interactive nature of physical and human environments.</p> <p>Identify the importance of the resemblances and variance between places, environments and people.</p> <p>Comprehend how processes bring changes in systems, distributions and environments.</p>
PO3	<p>Students Skills</p> <p>Interpret a variety of types of geographical data and sources and recognise their limitations.</p> <p>Communicate geographical evidence, ideas and arguments.</p> <p>Use geographical data to identify trends and patterns.</p> <p>Use diagrams and sketch maps to demonstrate geographical aspects.</p> <p>Demonstrate skill of analysis and synthesis of geographical information</p>
PO4	<p>Students Evaluation</p> <p>Critically evaluate geographical principles, theories and models</p> <p>Assess the effects of geographical processes and change on physical and human environments.</p> <p>Assess how the viewpoints of different groups of people, potential conflicts of interest and other factors interact in the management of physical and human environments.</p> <p>Evaluate the relative success of failure of initiatives.</p>

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Ooty Road, Mysuru - 570025

Department: GEOGRAPHY

Program: BA(I SEM)

Program Code: BA31/33

Course Title: Principles of Geomorphology

COURSE CODE: FHA430

Course Code	COs
CO1	After the completion of this course, students should be able to: To understand the conceptual and dynamic aspects of landform development
CO2	Define the field of Geomorphology and to explain the essential principles of it
CO3	To outline the mechanism of dynamic nature of the Earth's surface and interior of the Earth
CO4	To illustrate and explain the forces affecting the crust of the earth and its effect on it.
CO5	To understand the conceptual and dynamic aspects of landform development

Program: BA(II SEM)

Program Code: BA31/33

Course Title: Introduction to Climatology

COURSE CODE: FHB430

Course Code	COs
CO1	Define the field of climatology and to understand the atmospheric composition and structure.
CO2	To outline the mechanism and process of solar radiation transfer to earth surface and to explain the temperature distribution and variation according to time and space.
CO3	To illustrate and explain the air pressure system, wind regulating forces and the formation of the Atmospheric Disturbance
CO4	To understand and compute the air humidity as well as to explain the process of Condensation and formation of precipitation and its types.

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Department: GEOGRAPHY
Program Code: BA21/23

Program: BA

PO ID	PO
PO1	Develop human values and a sense of social service
PO2	Become a responsible and dutiful citizen
PO3	Abel to enhance critical temper and creative ability
PO4	Understand and appreciate relationship between man and Environment.
PO5	Read, interpret, and generate maps and other geographic representations
PO6	Understand physical- geographic processes, the global distribution of landforms and
PO7	Role of the physical environment on human populations

Department: GEOGRAPHY
Program Code: BA21/23

Program: BA(III SEM)

Course Title: General Cartography

COURSE CODE: ELC23023

Course Code	COs
CO1	Write down the details of human geography importance
CO2	Deliberate in details with examples race, religion and language study
CO3	Specify the details of demographic age transition study
CO4	Understand in details with application, if applicable, population composition
CO5	Learn in details with application, if applicable, human settlement study

Department: GEOGRAPHY
Program Code:BA21/23

Program: BA(IV SEM)

Course Title: Environmental Geography

COURSE CODE: ELD23023

Course Code	COs
CO1	Deliberate the characteristics of interdisciplinary nature of environmental geography
CO2	Learn in depth ecosystem study
CO3	Identify in details with examples environmental pollution
CO4	Understand in depth conservation and management of environment

Department: GEOGRAPHY
Program Code: BA21/23

Program: BA(V SEM)

Course Title: GEOGRAPHY OF INDIA

COURSE CODE: ELE23023

Course Code	COs
CO1	Deliberate in depth physical stinting of India
CO2	Write down in details with examples Irrigation system of India
CO3	Identify in depth population study of India
CO4	Learn in depth resources base study of India
CO5	Identify the characteristics of economic study of India

Department: GEOGRAPHY
Program Code: BA21/23

Program: BA(V SEM)

Course Title: Economic Geography

COURSE CODE: ELE23223

Course Code	COs
CO1	Identify the classification and characteristics of concepts of economic geography
CO2	Understand the characteristics of locational theories
CO3	Understand in depth study of primary activities
CO4	Learn the details of study of secondary activities
CO5	Write down in details with examples study of tertiary and quaternary activities

Department: GEOGRAPHY
Program Code: BA21/23

Program: BA(VI SEM)

Course Title: DISASTER MANAGEMENT

COURSE CODE: ELF23223

Course Code	COs
CO1	Identify in details with application, if applicable, hazards and disasters concepts.
CO2	.Specify the characteristics of flood, landslide, drought are in India
CO3	Write down in details with examples earthquake tsunami and cyclone are in India
CO4	Identify the classification and characteristics of human induced disasters
CO5	Learn in details with examples response and mitigation to disaster

Department: GEOGRAPHY
Program Code: BA21/23

Program: BA(VI SEM)

Course Title: GEOGRAPHY OF TOURISM

COURSE CODE: ELF23023

CoS.NO	COs
CO1	Learn in depth geography of tourism concepts
CO2	Specify in details with examples types of tourism
CO3	Learn in details with application, if applicable, recent trends of tourism
CO4	.Identify in details with application, if applicable, impact of tourism
CO5	Understand the details of tourism in India