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Faculty of Arts B.A. (Bachelor of Arts)

Program Outcomes

- ✓ The B.A. programme in the college is recognized by Barkatullah University and follows the syllabus prescribed by the university.
- ✓ Some learning outcomes include: Cognitive skills: Students choosing combination of three subjects develop social, political, historic, economic and literary consciousness and will be better able to appreciate different civilizations, culture.
- ✓ In the three-year duration, they will cultivate the sensibility to discern the evolution of civilizations and cultures.
- ✓ They will also be up to date with contemporary developments and develop a sociological sensibility to critically understand the social phenomena that affects their lives. Students also learn two languages along with three major subjects.
- ✓ At the end of the programme, they usually will have advanced reading, writing, speaking, interpretive and composition skills in both languages.
- ✓ Employability: On graduating, the students will be eligible for employment in tourism, music, dance, fine arts, and social work. Students also become employable in non-governmental organizations.
- ✓ Their skills in comprehension of general social phenomena around them places them in ideal situation for such jobs. They will also be able to appear for competitive examinations conducted for public sector jobs.
- ✓ The general humanities education equips them to clear competitive exams. Values: Humanities education is designed in such a way that it lays particular emphasis on human values. Students on completion of the undergraduate degree will be better able to appreciate the literary and cultural diversity.
- ✓ It equips them to think critically about the issues of contemporary relevance and hold an informed opinion on them.



B.A. Dance COURSE OUTCOMES YEAR I

PAPER I :	Primary Knowledge of Theory.
(Major)	Primary Knowledge About Music-Vocal, Instrument & Dance
History of	Development of Primary Level Teaching Ability.
Kathak Dance	Development of Physical & Mental Strength.
PRACTICAL-I	Knowledge of Footwork
Nrityanjali	Knowledge of Hand Movements.
	Knowledge of Bhramari.
	Primary Dance in Teentaal.
	Primary Dance in Jhaptaal.
	Knowledge of Gatnikas.
PAPER: II	Theoritical Knowledge of Body Movement
(Major Minor	Knowledge of Various Contents of Taal.
Elective)	Knowledge about Content of Kathak Dance
Technique of	Knowledge of Taallipi Method.
Dance	
PRACTICAL-II	Development of skills to perform Folk Dance.
Bhavanjali	Development of skills to perform Vandana on Sanskrit shloks,
	Knowledge of Asanyukth Hastas & Greeva Bheda to perform.
	Knowledge of Padhant & Notation.
	Knowledge of perform semi classical dance.



B. A. DRAWING AND PAINTING Program Specific Outcomes

In under graduation level this course is designed in such a way that the students get a step-by-step gradual knowledge of the subject practically and theoretically both. The course is divided into two parts one theory and the other is practical (two practical papers) each year. In three years, students are given all the knowledge of the subject starting from basic (elementary) to the detailed intrication of creativity and imagination. By the time student completes under graduation she becomes substantially independent to create her own unique style of painting successfully which helps her to earn too.

COURSE OUTCOMES

YEAR I

PAPER I : MAJOR HISTORY OF ARTS PAPER: II Major Minor, Elective Fundamental Of Art	 Students will recognize and understand major monuments, artists, methods and theories, and be able to assess the qualities of works of art in their historical and cultural settings. How the then social problems should become subjects of Art. Students get information about Principle of art. The art language is based on concepts called the "ELEMENTS and PRINCIPLES of Art". Introduction to the basic selements of art, 6 Elements of Art: Line Shape Color Texture Value.
PRACTICAL-I STILL	Through this paper students are made to draw and paint a few objects
LIFE	 Infough this paper students are made to draw and paint a few objects composed on a table in front of them with the drapery hanged in the back and underneath the objects. Through this practical they learn- To draw different forms and shapes. Perspective Effects of light and shades Practical study of textures Coloring in transparent and opaque style in short, they learn realistic approach of drawing and painting.
PRACTICAL-II DESIGN	 Here the students learn to convert realistic forms into creative or decorative forms They learn step by step, ➤ To use their imagination creatively. ➤ To use all those realistic forms (learned in the previous year) into decorative forms. ➤ To use all those forms collectively in a given subject for example - 'saree border', 'carpet', 'lampshade' purse etc. ➤ To develop an understanding for color combinations through different experiments



YEAR II	
PAPER I :HISTORY OF INDIAN PAINTING	An art student must know the gradual growth and development of their subject historically . This paper gives them the knowledge of Indian art scenario from prehistoric period till modern times and different styles developed in different political, social, economical and historical environments in this long span of time.
PRACTICAL I : COMPOSITION	 This paper gives the students a thorough knowledge of space and its divisions with the use of human figures, animals, nature, birds and sceneries in background and foreground. Students learn to make human figures in different poses (single and groups) ➢ They learn human figures, their anatomy & proportions of the body ➢ They learn to compose a given subject in a small given space in limited colours.
PRACTICAL II : PORTRAIT	 This paper is divided into two parts- (1) head drawing from antiques (2) head drawing and painting from life model. ➤ This enables the student to understand the features of human faces and their expressions in detail and also to paint them with exact resemblance. ➤ The effect of light and shade falling on the face of the sculpture in front and painting it accordingly in mono colour.
YEAR III	
PAPER I : THE HISTORY OF INDIAN SCULPTURE PRACTICAL I : COMPOSITION	 India is very rich in the art of sculpture as well as in painting. As the students are given knowledge of history of Indian painting in the precious year, likewise this year they come to know about History of Sculpture in India. This year the size of the ground area of painting is enhanced, so that the students learn to manage figures in bigger sizes with foreground and background, according to the given subject in multi colours. They learnt to face the challenges of composition Students play with the colours through many practices (of different colour schemes). They learn to work in different medium and thus master painting in mixed media.
PRACTICAL II : PORTRAIT	This year, the picture frame is the same but the student is expected to paint the face of the model with atmost details, so that the exact expressions can be attained through play of colours and light-shade falling on the face . This year, they use all the colours instead of monochrome.



B.A. (Economics) Program Specific Outcomes-

COURSE OUTCOMES

I YEAR

IYEAR	
PAPER I: MICRO ECONOMICS Major	 After completing this course, students will be able to understand rational behavior and fundamentals of microeconomics- They will be able to explain consumer's and producer behavior and their optimum decisions. Students will be able to know about the firms and industry, markets and their decisions about optimum production. They will also be able to explain the theory of distribution and concept of economic welfare. Learning microeconomics is an excellent way to gain an understanding of many factors that affect us in the real world, such as methods of buying goods, product pricing and input pricing. Ultimately, learning microeconomics is key in learning about the principles of economics.
PAPER: II INDIAN ECONOMY Major, Minor, Elective	 After completing this course, students will be able to sharpen the analytical skills by highlighting a broad overview of the Indian economy. They will be familiar with the issues related to Agriculture, Industry, Foreign Trade, Economic Planning and various Economic Problems of India. Students will be acquainted with a broad overview of Madhya Pradesh Economy. They will be able to develop, analyse and interpret events and issues related to the Indian Economy
I I YEAR	
PAPERI: MACRO ECONOMICS	 This will provide well resourced learning environment for students. Student will understand the wide potential of the subject economics and its implementation in day to day life as well as sustainable development.
PAPER II : PUBLIC FINANCE & INTERNATIONAL ECONOMICS	 Public economics is the study of government policies from the point of view of economic efficiency and equality. The paper deals with the nature of govt. interventions and its implications for allocation and stabilization.



YEAR-III	
PAPER I: DEVELOPMENT & ENVIRONMENTAL ECONOMICS	 Students will be able to understand the meaning of development and the development model in the context of India. Students will be able to understand modern model of development and the combine concept of environment and development.
PAPER II: STATISTICS	 Student will be able to understand basic theoretical and applied principals of statistics needed to enter the job force. Students will be able to communicate key statistical concept to non-statistical student will gain proficiency using statistics.



B.A. (ENGLISH) Program Specific Outcomes-

The department of English SNGGPG College Bhopal offers an undergraduate course in English literature. The bachelor of arts English literature is a carefully designed 3 year course which enlightens about diverse nuances of English literature including plays, novels, prose and poetry

The UG Course is planned -

- To introduce students with usefulness of English language through the study of English literature.
- To help students in the development of critical and analytical thinking through literary texts from different historical periods and genres.
- To provide students a platform to understand interrelatedness between life and literature and engage them in a lifelong learning.

To promote career dexterity in the students.COURSE OUTCOMES

YEAR-I

PAPER I – MAJOR STUDY OF DRAMA	 The course will inculcate team work , communicative ability , creativity and aesthetic sense in students enabling them to understand in detail drama and the theatre. Through this course the students will acquire the knowledge of Different genres of drama like comedy , tragedy , epic theatre and commedia dell'art Distinctive features of Sanskrit , Greek , English , American and Indian plays Dramatic techniques and elements like plot , theme , character , spectacle and narrative
PRACTICAL I APPLIED DRAMA	 The course will inculcate team work, communicative ability, creativity and aesthetic sense in students enabling them to understand in detail drama and the theatre. Through this course the students will acquire the knowledge of - Different genres of drama like comedy, tragedy, epic theatre and commedia dell'art Distinctive features of Sanskrit, Greek, English, American and Indian plays Dramatic techniques and elements like plot, theme, character, spectacle and narrative



and the second s	
Paper II MAJOR, MINOR, ELECTIVE Study of Pootray	The Study of Poetry will not only instruct and delight the students but also inspire them to have positivity creativity and a new way of thinking. After the study of this paper the students will be able -
Study of Poetry	To identify , interpret , analyze and appreciate the various elements of poetry
	To develop literary intellect and
	> To appreciate the lyrical and sonorous quality of language
Practical II Applied poetry Major, Minor,	The Study of Poetry will not only instruct and delight the students but also inspire them to have positivity , creativity and a new way of thinking. After the study of this paper the students will be able -
Elective	\succ To identify , interpret , analyze , and appreciate the various elements of poetry
	To develop literary intellect and
	> To appreciate the lyrical and sonorous quality of language and create poetry
	The course is beneficial for learners in understanding the mechanism of literature in a creative manner. This course will –
	Accelerate the confidence of students for extempore English and surge their knowledge ; and
	Promote the analytical and arguing capacity of students.
YEAR-II	
PAPER I - DRAMA	Students will become drama and its different forms.
DRAMA	Become acquainted with the development of drama through ages.
	Students will be able to interpret and analyse drama with respect to plot and characters.
	Will become familiar with the dramatical techniques.
	Students will be able to describe, analyse , interpret and evaluate dramatic literature theatrical productions.
PAPER II - FICTION	Students will be able to recognize the elements of fiction.
FICTION	Students will become familiar with historical background of fiction through ages.
	Students will learn to interpret texts with an awareness and curiosity of 9



other viewpoints.

Students will be acquainted with religions, political and social movements across the ages.

YEAR-III

PAPER I – POETRY	Students will be able to get familiar with the trends that are associated with the era.
	Students will be able interpret and analyse modern poetry.
	> Appreciate the masterpieces of literature written in an error.
	Develop and practice their interpretative skills and textual analysis in reading poetry.

Become familiar with the major theoretical and critical terms related to poetry of a period.

PAPER II -
FICTION> Acquainted with the major issues related to the cultural and social contexts
with respect to 20th century fiction.

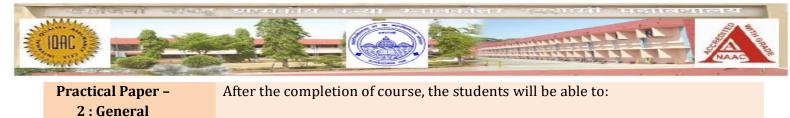
- Students will be able to read texts closely and analyse a piece of fiction from the perspective of plot, themes and characters.
 - Students will be able to read fiction with graduate level interpretative analytical proficiency.
 - Students will be able to appreciate fiction and its ability to stimulate feelings in the reader



B.A. (Geography) Program Specific Outcomes-

COURSE OUTCOMES

YEAR-I	
PAPER I Human Geography ; Environment and Culture (Major)	 After the completion of course, the students will be able to: Discuss and describe the major concepts and key principles of Human Geography including place, space, scale and landscape. Appreciate the diversity of the cultural backgrounds and places. Approach problem solving from a geographic perspective by understanding the role location plays.
Practical I General Cartography	 After the completion of course, the students will be able to: Learn the principles of Map Design, Map Reading and Construction of Scale. Create professional and aesthetically pleasing maps through thoughtful application of Cartographic Conventions. Comprehend the principles and types of Surveying and learn the Chain and Tape survey.
Paper-2 : Physical Geography- Lithosphere (Geomorphology) (Major, Minor, Elective)	 After the completion of course, the students will be able to: Understand the internal structure of the earth, rocks that compose it and forces within the earth that act to deform it. Analyze how the natural and anthropogenic operating factors affect the development of land forms. Understand about the denudation processes that unceasingly act at the earth's surface to shape land forms and reduce relief. Assess the role of structure, stage and time in shapingthe land forms.



Cartographic

Techniques Cartography

- Learn the principles of Map Design, Map Reading and Construction of Scale.
- Create professional and aesthetically pleasing maps through thoughtful application of Cartographic Conventions.
- Comprehend the principles and types of Surveying and learn the Chain and Tape survey.

YEAR-II	
PAPER I CLIMATOLOGY AND OCEANOGRAPHY	 After completion of this course the students will be able to : Comprehend the individual elements and controls of climate, their distribution pattern and interrelation. Gain in depth knowledge of upper atmospheric condition and cyclonic features. Understand the concept of climatic regions, types and groups deriving from a synthesis of climatic elements. Get detailed exposure to the elements of ocean and ocean bottoms. Understand the oceanic processes and oceanic environment.
PAPER II ECONOMIC GEOGRAPHY	 After completion of this course the students will be able to : Establish and analyze the spatial pattern of economic development. Explain the role of historical, environmental, cultural and other factors and determining economic activities. Comprehend and distinguish the different type of economic activities and processes which transform economy from primary to tertiary stage.
YEAR-III	
PAPER I GEOGRAPHY OF INDIA	 After completion of this course the students will be able to : Acquaint with the physical and human characteristics of India. Analyze the natural resource based of India. Examine the factors responsible for location and distribution of economic activities in India. Comprehend the basis of regionalization and regions of India.



PAPER II ENVIRONMENT AND RESOURCE MANAGEMENT After completion of this course the students will be able to :

- Get in-depth knowledge of man environment relationship.
- Analyze the use, reuse and misuse of resources and their consequences.
- Comprehend measures of conservation and management of resources.
- Understand the environmental programmes and policies at local as well as global level.



B.A. Hindi Program Specific Outcomes

पाठ्यक्रम का अध्ययन करने के उपरांत छात्राएं निम्नांकित लाभ प्राप्त कर सकती है:-

- > उत्कृष्ट साहित्यिक पाठों के अध्ययन से रूचि का विकास करना।
- > सांस्कृतिक चेतना और राष्ट्रीय भावना का विकास करना।
- 🕨 भाषा-ज्ञान
- > सामान्य शब्दावली और विशेष शब्दावली के अध्ययन द्वारा भाषा एवं संस्कृति बोध का विकास करना।
- > विशिष्ट शब्दावली (बीज शब्द/की वर्ड) से परिचित करवाते हुए बोध के स्तर को विकसित करना।
- > प्रतियोगी परीक्षाओं हेतु तैयार करना

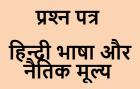
COURSE OUTCOMES

YEAR-I > इस पाठ्यक्रम के अध्ययन से विद्यार्थी हिन्दी काव्य की सुदीघ्र परम्परा से परिचित होंगे प्रथम प्रश्न पत्र > प्रसिद्ध रचनाओं के अध्ययन से देश की सामाजिक, सांस्कृतिक एवं राष्ट्रीय पृष्ठभूमि से हिन्दी काव्य स्विज्ञ होगें। > विद्यार्थियों के व्यक्तित्व का विकास होगा, उनकी जीवन दृष्टि का विस्तार होगा, जिससे वह जीवन एवं जीवन मूल्यों को समझने में सक्षम होगा। > रचनात्मक कौशल से दक्षता होगी, जिससे उन्हें रोजगार की अनेक संभावनाएं मिलेंगी। द्वितीय प्रश्न पत्र > इस पाठ्यक्रम के माध्यम से विद्यार्थी कार्यालय के कार्यों की मूलभूत जानकारी एवं कार्यशैली सीख सकेंगें, जिससे वे कार्यालयीन कार्य करने में सक्षम होंगें। कार्यालयीन हिन्दी का स्वरूप, उद्देश्य नई तकनीक के माध्यम से ज्ञान विज्ञान के क्षेत्र में विशेषज्ञता प्राप्त कर सकेंगें। एवं क्षेत्र भाषा कम्प्यूटिंग में दक्षता होगी एवं रोजगार प्राप्ति के अवसर मिलेंगें। (मुख्य, गौण, वैकल्पिक) **YEAR-II** > छात्राओं को हिन्दी भाषा, वर्ण, स्वर, व्यंजन, उनका वर्गीकरण, उच्चारण स्थान की जानकारी प्रथम प्रश्न पत्र प्रदान करना। हिन्दी भाषा और > छात्राओं में निबंध, कहानी एवं यात्रा वृतांत लेखन के प्रति रूचि जाग्रत करना। नैतिक मुल्य > विराम चिन्हों का प्रयोग करना



- > वैज्ञानिक लेखों के प्रति छात्राओं की रूचि बढ़ाना।
- स्वामी विवेकानन्द, महर्षि अरविन्द, महात्मा गाँधी, रविन्द्रनाथ टैगौर जैसे महापुरूषों के जीवन वृत्तांत एवं नैतिक मूल्यों को जानने के लिए प्रेरित करना।

YEAR-III



इस पाठ्यक्रम के अध्ययन करने के उपरांत छात्राएं निम्नांकित लाभ प्राप्त कर सकती हे:-

- छात्राओं को मध्यप्रदेश की लोककलाओं से परिचित कराना तथा हिन्दी की लोकोक्तियों एवं मुहावरों से छात्राओं का ज्ञानवर्द्धन करना।
- मीडिया को लोकतंत्र का चौथा स्तंभ कहा जाता है इसी के चलते इसके महत्व का अंदाजा लगाया जा सकता है।
- छात्राएं प्रिंट मीडिया व इलेक्ट्रॉनिक मीडिया संबंधी जानकारी प्राप्त कर पत्रकारिता के क्षेत्र में अग्रसर हो सकती है।
- > अनुवाद प्रक्रिया का उपयोग सिखाना।
- विश्व के विभिन्न धर्मों की जानकारी देना तथा महात्मा गाँधी (सत्य के प्रयोग) पढ़ने के लिए प्रेरित करना।



B.A. (History) Program Specific Outcomes COURSE OUTCOMES

YEAR-I		
PAPER I: Idea of Bharat Major	 Students will acquire knowledge regarding the primitive life and cultural status of the people of ancient India. They can gather knowledge about the society, culture, religion and political history of ancient India. They will also acquire the knowledge of changing socio-cultural scenarios of India. By studying this paper, students will get to know the golden past of India and feel proud of them. 	
PAPER II: History of Ancient India (From early to 1205 A) Major, Minor, Elective	 The students will learn to analyze the various stages of evolution and development of man in the prehistoric, Protohistoric and Historic Age. To have an in depth knowledge about the ancient civilizations of India like Indus-Saraswati Civilization, Vedic civilization, Later Vedic Civilization etc. and compare them with the other contemporary civilizations of the world. To explain in detail about golden past of India during the Mauryan and Gupta period, their conquests, art, architecture and literature, etc. They will able to write meaningful essays on the brave and courageous rajput clans and the South Indian dynasties of India. 	
YEAR-II		
PAPER I: MEDIEVAL HISTORY	 Students will be able to understand the political and Arabian and Turks Dynasties establishing. Students will be able to understand the composite culture of Hindus and Muslims. The students will be able to know the sculptures and monuments built during medieval period. Students will be able to know the cultural renaissance during Bhakti movements in sultanate period and growth of human values 	



PAPER II: (I & II YEAR) WORLD HISTORY	 The students will be able to understand the events took place in Europe and other continents regarding political, emperialism, liberalism and world war. This will enhance How the world runs and rules. To know the human rights and how foreign revolutions declared human rights first time in 18th century. The students will be able to know the importance of republic by studying the struggle for freedom of America. The importance and success of parliamentary organization of Great Britain.
YEAR-III	
PAPER I: The Goals Of Studying Of History Of Modern India	 The students will be able to know the political, cultural and economical effects due to colonialism of England in India. Students will be able to understand the freedom movements and sacrifies of revolutionaries to get freedom of India.
	Students will be able to know constitutional development as a Nation of India.
	 Students will be able to understand the contribution of princely states and freedom fighters



B.A. (Music Vocal) Program Specific Outcomes

YEAR-I

> The course aims to acquaint the students with the Hindustani Music System.
 The Meaning of the initial technical words of music and to acquaint the student with Ragas and Talas. What is notation System? It aims to introduce the students with the inventor of
notation and his musical contribution.
Student will come to know about the employment opportunities in the field of music.
Introduction of types of Indian Music:-
a) folk Music
b) Semi Classical Music
c) Light Music
 Reporting of Akashvani, Doordarshan and Music Festival of Madhya Pradesh. Introduction of Life sketch of Film Playback Singers of Madhya Pradesh and their contribution in Music. Harmonium which is used in Indian Music, its complete description.

YEAR- II

- The 'Raags' of advance level are taught and are given the technical details about them so that they can enhance their knowledge.
- The transcripts of different style is gives them overall knowledge of presenting music in different way.
- The minute details of supporting instruments like 'Tanpure' and 'Table' are provided to them which every musician should know. The knowledge of 'Taals' gives them perfection in singing.
- Again the work of reknowned historical music enhance their knowledge of music and motivate them.

YEAR- III

- The technical details of sound and acoustics given to students makes their performances more towards perfection.
- The knowledge of Indian classical and Karnataka styles of music is given which puts students a more higher levels of music.
- To prepare students for a overall musician category and to make their personality development to more perfect level, knowledge about very reknow historic personalities of Indian classical music is given.
- By learning about this course a student become a complete musician and it adds to their overall personality and they are enabled to generate their own employment.



B.A. (Music -SITAR) Program Specific Outcomes

COURSE OUTCOMES

YEAR- I

PAPER I: Principles	After completion of course student can opt it as means of living.
of Indian Music – 1 Major	 Can be very useful for students with disabilities.
Major	The student can understand the importance of Indian music.
PAPER II:	In this course the students can know the relation of sound and music.
Principles of Indian	 Can know the History of Indian music.
Music – 2 Major, Minor,	Can understand the importance of ' Laya' and a'Taal'
Elective	 You can know what aspects of music are related to life.

YEAR-II

- ◆ In this class students are taught tougher Ragas on other aspects of instrumental music.
- They are guid to apply technicalities of instrument and to the if they are critically analysed to prepare them for public performances.
- A student gets ready for it by learning the fine basics of Raag and Taal.
- A student learn the importance of practice (Riyaz) and are assessed critically

YEAR- III

- In this class a student learns more new and tough Raags and is well prepared for demonstration her skills in public.
- She can rate her performance on different parameters, analyse it and utilize the suggestions given by experts to improve upon.
- They are taught different styles of playing instrument like masket khani & Rajakhani get. They get acquainted with differentiation of instrument.
- By knowing about leading musicians their knowledge is enhanced.



B.A. (Political Science) Program Specific Outcomes

- Students will gain an in depth holistic knowledge of the subject.
- They will be able to understand the political affairs at regional, national and international levels.
- Students will be groomed for undertaking advance research and register for a Ph.D. degree.
- A base would be prepared for those who want to take competitive exams.
- There are ample opportunities in the field of academics at school and higher education levels.
- Students can get job opportunities in the field of journalism, administrative services, NGOs and voluntary organizations, international organizations, embassies and consulates.
- After gaining knowledge of constitution and regional, state and national politics, students can participate better in active politics consequently holding different political posts at various levels of the nation.
- The expected outcome of the course is to equip students with the concepts, principles, theories and processes studied in Political Science, so as to facilitate their career choices and employment. The course is aimed at shaping the students' perception and outlook on social, economic and political environment of India and beyond. The course also seeks to develop the analytical abilities, observational skills and decision making faculties of the students so that they will be able to face different challenges of life.

COURSE OUTCOMES

YEAR- I	
PAPER I-: POLITICAL	Students will be able to understand the meaning and significance of political theory, different ideology and approaches
THEORY MAJOR	> They will be able to explain the concept and state and its changing nature.
	They will be learn what is power and authority and how they are interwoven. These two concepts will further and enhance their understanding of politics.
	They will be able to learn different dimensions of sovereignty and its relations with state.
	They will be able to explain liberty, equality, justice, and rights. Understanding of these key political concepts will facilitate student in real political world.



PAPER II- INDIAN	Students will be able to understand the constitutional development in India.
CONSTITUTIO	They will be able to answer how constituent assembly was formed,
N MAJOR, MINOR,	They will be able to describe the significance of Preamble, Fundamental Rights and Directive Principals of state policy in the constitutional design of India.
ELECTIVE	They will be able to answer questions pertaining to the function and role of the President, Prime Minister, Governor, Chief Minister, Parliament and state Legislator and the courts in the constitutional Design of India.
YEAR-II	
PAPER I- Representativ e Political	Acquiring an insight into the fundamentals of Ancient Indian Political Thought and appreciating the richness of the thought and Philosophy of Manu, Kautilya and Buddhist tradition.
Thinkers	Developing an in-depth knowledge about the dominant features of Ancient Western Political Thought in general and Ancient Greek political thought in particular with focus on Plato and Aristotle.
	Understanding the specific features of Modern Political Thought and getting an insight into the thought of thinkers like Machiavelli, the Social Contractarians- Hobbes, Locke, Rousseau and Utilitarian- Jeremy Bentham.
	Comprehending the views of Western and Indian communist thinkers.
	Acquiring knowledge about modern Indian Political Thought and the unique views of its propounders like Gandhi, Ambedkar, Lohiya and Deendayal Upadhyay.
	Appreciating the diversity and richness of Political Thought in a comparative perspective. A study of different theories and concepts enables a comparison with the contemporary social, economic and political realities and their relevance in present times.
PAPER II- CONSTITUTIO NS OF MAJOR	Getting introduced to the basics of the ideas of constitution and constitutionalism and its diverse application. Student's interest is generated in the global arena.
COUNTRIES:	Understanding the evolution of parliamentary democracy and its institutions by studying the constitution of Britain by learning about British political system and the British political traditions.
	Acquiring knowledge about the constitution of United State of America, the originator of the Presidential from of government and modern Federal system, Presidential form. Student shall understand the uniqueness of the system of checks and balances.



> Getting an insight into two very different systems and their constitutions-
Switzerland with its direct democracy and China with an authoritarian system.

Enable students to develop critical thinking, intercultural sensitivity and appreciate specific features of four diverse countries and develop a broad international perspective.

YEAR-III

PAPER I- INDIAN FOREIGN POLICY :	 Developing an understanding the fundamental features and determinants of Indian foreign policy and the implications of diplomatic moves made by the states. Knowledge about the areas of cooperation and also the background of many disputes that continue to fester India's relation with its neighbouring countries. Getting an insight into the relations with the super powers over a period of time and develop a critical understanding of its status under the existing dispensation. Understanding the pursuit of national interest and international commitments through its foreign policy and India's role in regional organizations in this field. Develop a critical perspective on contemporary international issues and their implication for India.
PAPER II- PUBLIC ADMINISTRAT ION :	 Understanding and acquiring an overview of the Public Administration and how it is different from Private Administration. Being introduced to the changing contours of the discipline and various principles of organization. Attain knowledge about types and methods of recruitment, training and promotion in public administration and about the recruiting body. Learning about the process of making the budget and the importance of accounting and auditing. Student will be able to understand development administration and local self-government institutions.



B.A. PSYCHOLOGY

COURSE OUTCOMES

PAPER 1:	Students will gain knowledge of personality
Personality Development	Students will learn to implement coping strategies for beller adjustment.
Major	Students will develop skills to enhance self esteem sell regulation and self presentation
	Students will learn the skills of SWOC, communication, time and stress management for their life
	Acquisition of life skills based on happiness and positive thinking
Practical I	On Completion of this course, learners will be able to :
Report	
Presentation	Students will learn to evaluate their strength, weakness, opportunities and challenges
	Students will develop skills to enhance their personality through applications of communication skills, time and stress management.
Paper II	
Introduction to	To develop knowledge and skill in life through learning principles
Psychology	Learn to apply techniques of memory improvement in everyday life
Major, Minor, Elective	Learn to gain self regulations for quality of life
	Acquisition of life skills through motivation
Practical II	
Practical Work	On completion of this course, learners will be able to:
	Student will learn to apply practical application of psychological concepts of attention, learning and emotion.
	Student will develop the skill of memory improvement and ability to enhance their personality through applications of communication skills, time and stress management.
	Student will acquire the knowledge of achievement motivation in their life



I LAN-II	
PAPER 1:	A
DEVELOPMENT AL PSYCHOLOGY	>
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VEAD H

After the completion of this course students will be able:

- > To understand the process, stages and principles of human development.
 - To grasp the extent of influence of hereditary and environmental factors on development process.
 - To obtain the knowledge of differences among growth, development and maturation.
 - To understand and appreciate the biological, emotional, physical, cognitive, social, and moral changes during babyhood, childhood, adolescence, adulthood and old age.
 - > To acquire knowledge of problems of adolescence and old age.

PAPER II A

COUNSELING PSYCHOLOGY

- After completion of this course students will be able:
- To understand concept of psychological guidance and counseling, its importance and need at every stage of life.
- To develop understanding for oneself and others with the knowledge of self concept and self esteem.
- To learn various approaches and techniques of counseling used in helping educational, vocational, personal and social problems.
- To acquire specific coping skills for problems solving, crisis management, decision making and relationship improvement.
- To develop positive attitude, sensitivity and empathy for understanding persons with special abilities.
- To imbibe knowledge about qualities of counselor, counseling skills and techniques for special groups; like, elderly people, alcoholics, drug abuse cases and mental retarded individuals.
- To gain knowledge of group counseling techniques applicable to family, parents, delinquents, pre- marital and marital counseling for betterment of society.



YEARIII	
PAPER 1:	After the completion of this course students will be able:
SOCIAL PSYCHOLOGY	To understand various methods applied in the field of social psychology.
	To gain knowledge of interrelation between social psychology and other social sciences.
	> To interpret perception of other people and attribution process.
	To develop an insight into formation of attitudes, prejudice, discrimination and process of change/ reduction.
	To demonstrate group formation, group cohesiveness and effect of group on individual's behavior.
	To acquaint with various social problems and understand applications of social psychology
PAPER II	After the completion of this course students will be able:
RESEARCH METHODS AND	To understand the basic steps of research.
STATISTICS.	to demonstrate the ability to select appropriate methods suitable to research aims and objectives.
	To construct tools for measuring psychological attributes.
	> To develop skills in qualitative and quantitative data analysis and its presentation.
	> To gain knowledge and demonstrate research report writing skill.



B.A. (PHILOSOPHY) PROGRAM SPECIFIC OUTCOMES

- 1. After completing of B.A. Philosophy course, the students will be able to understand and discuss major philosophical problems in the Indian as well as western tradition. They also will be able to assess arguments and philosophical perspectives using critical reasoning and can also express complex thoughts logically & coherently.
- 2. By studying classical texts and contemporary problems, B.A. Philosophy students learn how to construct powerful arguments while pondering over some of the deepest questions in human life.
 - What makes for a meaningful life?
 - Do humans have freewill?
 - What is the nature of consciousness and can it be explained?
- 3. Students in the B.A. Philosophy course will be able to learn how to explore answers to these fundamental questions by debating and defending complex ideas & arguments and express their beliefs with clarity and precision. After completing this course students can also live a thoughtful and productive life.

COURSE OUTCOMES

YEAR-I

PAPER I-	As a result of meeting the requirements in this course, students will be able to
Yoga Philosophy	 From the time immemorial yoga philosophy has established its significance. In present Scenario, yoga has become need of hour and proved its relevance.
Major	proved its relevance.
	Through yoga education, students will be able to know about their ancient traditions.
	Students will be aware that how ancestors live health, happy and longer life.
	Through study of yoga student will become aware about their health and personality development, along with they will know how to enter in spiritual realm too.
	Through yogic practices students will prepare themselves for their future livelihoods. For example students will able to get appointment as physical trainer in yogic and fitness centers.
	At the time of present pandemic situation Yoga students will be helpful to improve the mental and physical condition of patients.



Sec.		
	PAPER II	After studying this course, students will be able to :-
	An Introduction to Ethics	After completion of the study of Ethics the student will become more conscientious about his actions and behavior.
	Major, Minor, Elective	He will acquire knowledge of implementing ethical solutions in making policies at his workspace.
		He will know about ethical thinkers and Philosophers which will broaden his horizon.
		Demonstrate ethical awareness and ability to do ethical reflection.
		Use specific capacities and skills to make moral decisions.
	YEAR- II	
	PAPER I-	The outcome of this course is to :-
	INDIAN PHILOSOPHY	Learn various treatise on Indian Philosophy and enquiries in to the different tools which led the foundation of Indian philosophy.
		Get the detailed study of Indian knowledge system.
		Understand the distinct features of Indian epistemology and metaphysics.
	PAPER II-	The outcome of this course is to :-
	WESTERN	Give an in-depth knowledge of western philosophy and thinkers.
	PHILOSOPHY:	Increase the analytical and critical thinking.
		Introduce and interpret the stream of Rationalism, Empricism and Criticism.
	YEAR-III	
	PAPER I:	By studying this course, a student will be able to :-
	MODERN LOGIC	Enhance rational, analytical and scientific thinking.
		Enhance problem solving skills.
		Develop logical thinking to crack the different competitive exams.
	PAPER II-	The outcome of this course is to :-
	PHILOSOPHY	Know the meaning of 'Religion' and 'Dharma' along with the relation with science and other disciplines.
		Compare the different religions.
		Develop the feelings of respect to other religions.



B.A. (PUBLIC ADMINISTRATION) PROGRAM SPECIFIC OUTCOMES

COURSE OUTCOMES

YEAR-I

PAPER I- PRINCIPLES OF	Developing an awareness about the evolution and nature and scope of the discipline of Public Administration
ADMINISTRATION: Major	Comprehending the new contours and changing paradigms of Public Administration.
	Understanding the structure and principles of organization.
	Getting acquainted with the theories, approaches, concepts and principles of Public Administration
	Acquiring knowledge about the administrative theories and concepts to make sense of administrative practices.
PAPER II- INDIAN	Knowledge regarding the origin and evolution of Indian Administration will be acquired.
ADMINISTRATION Major, Minor,	Learning about the constitutional and structural framework on which Indian Administration is based.
Elective	Understanding the functioning of various administrative agencies under the Indian federal structure.
	Awareness about the institutions and mechanism for citizen-state interface.
YEAR- II	
PAPER I- ORGANISATION AND MANAGEMENT:	Understanding the structure of organization and the role chief executive in it.
	Knowledge about Line and Staff agencies. Ability to distinguish between the structure and the functions of Department, Public Corporations and Independent regulatory commissions.
	Enhancing the ability of management with knowledge acquired through the study of New Public Management.
	Learning about the tools of management, such as leadership, decision making and motivation, that may develop administrative skills in a student.
	Developing skills of preparing and responding in disaster situations and understanding the importance and characteristics of good governance.



PAPER II- PERSONNEL AND FINANCIAL ADMINISTRATI	Getting exposure to the concept of Civil Service and its development. Students would understand bureaucracy, its various shades and the importance of human development.
ON:	Attain knowledge about types and methods of recruitment, training and promotion in public administration. Learning the various methods of recruitment in the civil services and the benefits accorded to them.
	Getting a broad knowledge about financial administration and its structure.
	Learning about Budget in general and the entire budgetary process in India.
	Developing an understanding about the financial committees, the importance of accounting and auditing and the role of Comptroller and Auditor General.
YEAR-III	
PAPER I-	
CENTRAL AND STATE	Acquiring knowledge regarding origin, evolution and features of Public Administration in India.
ADMINISTRATION (WITH SPECIAL REFERENCE OF	Knowledge about the constitutional and structural framework on which Indian Administration is based.
M.P.)	Awareness about the institutions and mechanisms in force for citizen-state interface.
	Theoretical clarity about administrative structure of the state administration with special reference to Madhya Pradesh.
	Getting an overview of district administration, with particular focus on powers of the Collector.
PAPER II- LOCAL SELF	Acquiring theoretical knowledge of the 73 rd and 74th constitutional amendments on local governance.
GOVERNMENT AND DEVELOPMENT	Gaining insights about composition, role and functions, resources of Panchayati raj institutions.
ADMINISTRATION	Understanding about the organization, functions and working of urban local bodies
	Developing a conceptual and theoretical understanding of Development Administration.
	Understanding relationship between economic and political development and social change and the role played by bureaucracy in development.



B.A(Sanskrit)

COURSE OUTCOMES

B.A Year-I	
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Paper I वेद और व्याकरण	 विश्व की धरोहर के रूप के रूप में घोषित ऋग्वेद सहित सम्पूर्ण वैदिक साहित्य की ज्ञान महिमा से छात्र लाभांवित होंगें। व्याक्रण के माध्यम से संस्कृत भाषा साहित्य की संरचना की समझ में सहायक छात्र में संस्कृत लेखन और अनुवाद की कला का विकास होगा छात्र के धार्मिक और आध्यात्मिक व मनोवैज्ञानिक विकास होगा। प्रकृति और पर्यावरण संरक्षण की प्रेरणा मिलेगी। प्राचीन देवताओं और यज्ञ विधाओं से छात्र सुपरिचित हो संकेगा। पृथ्वी की महिमा से अवगत होकर छात्रों में पृथ्वी माता के प्रति समर्णण की भावना विकसित होगी। वाक्य निर्माण व प्रयोग का ज्ञान संस्कृत भाषा में अनुवाद कला एवं सम्भाषण कौशल का विकास होगा।
Paper II आर्षकाव्य एवं लौकिक काव्य	 नैतिक मूल्यों के विकास में सहायक। रामायण की सार्वकालिक व सार्वजनिक उपादेयता के साथ राष्ट्रनिर्माण में सहायक। भारतीय संस्कृति के अवबोध एवं महापुरूषों के आदर्श से छात्रों को परिचित कराना। प्राचीन सामाजिक संरचना एवं उत्कृष्ट समाज का ज्ञान। रंगमंचीय कौशल के विकास व लेखन की कला की दृष्टि से उपादेय। छात्र में कथा लेखन की शैलीकाविकास। उपदेशात्मककाव्यसेनैतिकमूल्योंकाविकास।
B.A Year-II	
Paper I – गद्य दर्शन एवं व्याकरण	व्याकरण पर आधारित कादम्बरी शुकनासोपदेश: के आधार पर राजा चन्द्रपीड के चरित्र के आधार पर छात्रों को अपने चरित्र निर्माण करने में सहायता मिलती है। साथ ही साथ आस्तिक एवं नास्तिक दर्शन एवं भारतीय संस्कृति एवं संस्कारों का ज्ञान उन्हें प्राप्त होता है। चतुर्थ एवं पंचम इकाई के आधार पर व्याकरण का ज्ञान भी उन्हें प्राप्त होता हैं।
Paper II – महाकाव्य एवं नाटक	पाठ्यक्रम के आधार पर छात्रों को महाकाव्य- कुमारसुम्भ्वम् से पार्वती के समान कठिन तप एवं परिश्रम करने के लिए प्रेरणा प्राप्त होती है। साथ में छात्रों को नाट्यशास्त्र का ज्ञान उन्हें सिनेमाजगत एवं राष्ट्र मंच पर प्रतिभा दिखाने का अवसर प्रदान करता है। चतुर्थ एवं पंचम इकाई के आधार पर विभिन्न साहित्यकारों एवं राजाओं का ज्ञान प्राप्त करके उनके समान चरित्र-निर्माण करने का अवसर एवं आदर्श नागरिक बनने की शिक्षा प्राप्त होती है।



B.A Year-III

Paper I
काव्य व्याकरण एवं
भाषा विज्ञान

Paper II अलंकार

पाठ्यक्रम के आधार पर श्रीमद्-भगवतगीता छात्रों की कर्तव्य करने की दृढ़ इच्छा शक्ति को और भी प्रबल करती है। साथ ही साथ उपनिषदों का ज्ञान, व्याकरण का ज्ञान, भाषा विज्ञान, भाषा का महत्व, संस्कृत भाषा के विकास में महत्वपूर्ण योगदान रखता है।

पाठ्यक्रम पर आधारित किरातार्जुनीयम् से अपने लक्ष्यों को प्राप्त करने की मौलिक शिक्षा काव्य, रस, छन्द एवं अलंकार महाकाव्य एवं व्याकरण संबंधित सम्पूर्ण ज्ञान छात्रों को कौशल विकास में सहायक है।



B.A.I (SOCIOLOGY) PROGRAM SPECIFIC OUTCOMES

- ✓ This programme enables students to enter the second year of B.A. degree programme. Every student has to pass this programme to complete his three year degree programme.
- ✓ Three subjects a students opts for his/her B.A. degree each subject includes two compulsory papers in the 1st year of B.A. degree programme. Hence a student gets comprehensive knowledge about at least two branches of each subject.

COURSE OUTCOMES

WEAR A	
YEAR I	
PAPER I	The students will get an Impression About the basic compositions of Indian Society, its historical Society and the Institutions, Basic Philosophical
Indian Society and Culture	foundation of the society.
Major	The students will have extensive comprehension of Indian Traditions and the opportunity to explore and express them.
	They will also learn in detail about the three layers of Indian society namely aranakya, Lok (Gramya and Nagar).
	After reading this course student will be able to understand and strengthen local / regional employment avenue.
PAPER II -	After completing the course the students will able to:-
Basic concept of sociology	Develop keen insight to distinguish between the commonsense knowledge and sociological knowledge.
Major, Minor, Electives	Comprehend the conceptual learning of society and social groups.
	Get information about various employment opportunity.
YEAR-II	
PAPER I	> The theoretical knowledge of social change will be helpful in holistic
Social Process And	comprehensive of society.
Change	It will be also equip the students to work in the field of administration, social welfare, planning, social reformation and reconstruction.
	Study of social change is also essential for fruitful research on any aspect of social life. This Paper also significant from this point of view.



 A student well versed in this paper gets job opportunities is NGOs and Government departments dealing with Tribal welfare, Rural development and Urban planning and management issues. The students can carry fruitful research about tribal, rural and urban society
 Comprehensive of Sociological is incomplete without the knowledge of its founders their socio-economic background and their perspective. This paper provides the students with all this information. This paper also helps students to link Sociological Concepts and Theories of the Pioneer Sociologists with social research.
This paper will help students to develop research insight.
 It will help teach them about the importance of reality and the ways to obtain objective reliable information. This paper will also acquaint them with scientific ways of studying social phenomena.



B.A. (URDU) PROGRAM SPECIFIC OUTCOMES

COURSE OUTCOMES

YEAR-I

PAPER I नस्र : सावनेह, खा़के, इन्शाः	इस निसाब के ज़रिये पहले साल में तुलबा (विद्यार्थी) नसर और उर्दू कम्प्यूटर की तालीम के साथ रोजगार हासिल करने में मदद ले सकता है।
PAPER II नज़्म : उर्दू गज़ल	इस निसाब के पढ़कर पहले साल में तुलबा (विद्यार्थी) उर्दू गज़ल और स्क्रिप्ट राईटिंग के जरिये मूकालमें लिखकर रोजगार हासिल कर सकते है।
YEAR-II	
PAPER । नस्र : दास्तान, नाविल और अफ़्रसाना	इस निसाब के ज़रिये तुलबा दास्तां, नाविल और अफसानों की (इबारत ख्वानी) पाठ से अच्छे अख़लाक़, अच्छे किरदार, हमदर्दी, दूसरो की मदद करना, इतेहाद और इल्तेफाक से रहना कौम और वतन के लिए मर मिटने का जज़्बा पैदा करना है।
PAPER II नज़्म : मन्जुमात-ओ- मस्नवियात	
YEAR-III	
PAPER I खुतुत, ड्रामा- मज़ामीनो मकालान	इस निसाब के ज़रिये पुराने तुलबा को पुराने और नए अदब कोसहज के रखना, नये और पुराने अदब में फर्क़ करना हैा तुलबा में अदब से दिलचस्पी पैदा करना है।
PAPER II नज़्म- कसीदा- ओ- मरसिया	खुतुत नवीसी वॉटसऐप का पुराना रूप है। ड्रामा और मजामीन लिखकर रोजगार हासिल किया जा सकता है। इनको पढ़कर नौजवानों में अच्छे किरदार पैदा करने और समाज में फैली बुराईयों को दूर किया जा सकता है।



Faculty of Commerce B.Com. (Bachelor of Commerce)

PROGRAM OUTCOMES (PO):

- The course provides a platform for experimental learning and grooms students towards industry specific curriculum with focused approach on specific areas which are crucial in the management of companies.
- After completing three years for Bachelors in Commerce (B.Com) program, students would gain a thorough grounding in the fundamentals of Commerce, Management, Marketing and Finance.
- The course is focused on the all-round development of the students' personality through proper education and exposure to the vast treasure of knowledge.
- The course provides exposure to students in the latest trends in relevant branches of knowledge giving them the needed competence and creativity to face global challenges and enhance Entrepreneurship Potential.
- Students have a plethora of choices to pursue professional courses such as CA, MBA, CMA, ICWA, CS, CFA, etc.
- The students will be ready for employment in functional areas like accounting, taxation, banking, insurance and corporate law.
- Student can opt various disciplines for Post-Graduation such as Commerce and Humanities.

PROGRAM SPECIFIC OUTCOMES (PSO):

B.COM WITH APPLIED ECONOMICS:

- Students will be able to understand economic vocabulary, methodologies, tools and procedures.
- Students will be familiar with the knowledge and application of micro economics for the formulation of policies and planning.
- Students will learn to apply economic theories and concepts to contemporary social issues, as well as analysis of policies.
- 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.
- 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.
- Students will be able to pursue their career as Financial Analyst apart from different positions in the



field of accounting, taxation, banking, insurance and corporate law.

B.Com with Computer Applications:

Students will improve their computer literacy, their basic understanding of operative systems and a working knowledge of software commonly used in academic and professional environments.

Students will learn to organize information efficiently in the forms of outlines, charts, etc. using appropriate software.

Students will acquire skills for designing and delivering an effective presentation and developing the various IT skills to electronic databases.

- ✓ Students will be able to design and implement a web page.
- ✓ students will be able to perform E-Banking, E-Marketing, E-Learning, E-Shopping
- \checkmark Students will understand the concept of supply chain management & customer relationship management
- ✓ Students will be able to perform any C++ programming tasks.

B.Com with Advertising:

- The course exposes the students to the rigors of international advertising and equips them to be able to manage the media along with different aids of advertising in the international markets.
- Students will understand the concept of creativity in depth with the knowledge of growing importance of creativity in Ads in today's competitive world.
- The course enables the students to develop skills required for job/vocation in advertising, personal selling and salesmanship.
- Students will be equipped with skills required to motivate and train the sales force and enhance their productivity.
- The course enables the students to pursue post graduate programs in Advertising, Marketing, and Digital Marketing, Advertising cum Public Relations, Media Management etc.
- After completion of the course, students can pursue their carriers as Client Service Manager, Account Executive, Copywriter, Content writer, Marketing Research Executive etc.

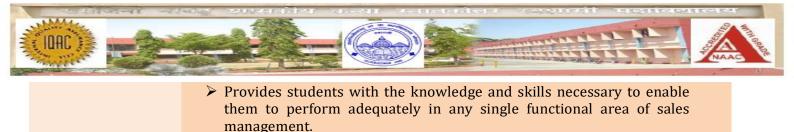


Course Outcomes

B.Com I Year	
Paper I: Financial Accounting Major	 Succession completion of the course, the student will be able to: Acquire conceptual knowledge of basics of accounting Identify events that need to be recorded in the accounting records Develop the skill of recording financial transaction and preparation of reports in accordance with GAAP Describe the role of accounting information and its limitation Equip with the knowledge of accounting process and preparation of in a accounts of sole trader Identify and analyse the reasons for the difference between cash book and pass book balances Recognize circumstances providing for increased exposure to errors and frauds.
Paper II: Business Regulatory Framework Major, Minor, Elective	 The outcome of this course is to provide the students with practical legal knowledge of general business law issues. To Understand the Essentials of A Valid Contract, The Laws of The Act, Consideration And The Various Modes of Discharge of A Contract. To Explain the Various Laws with Regard to The Sale of Goods and Performance of a Sale Contract and Remedial Measures, to Familiarize the Students with The Various Law with Regard to Consumer Protection in India And the Functions of Various Consumer Forums and to Understand the Meaning and The Various Legislations with Regard to The Cyber Laws
Minor Paper I: Business Organization And Communication	After completion of this course it is expected that the student shall understand the basics of the business and will able to imbibe how any business can be organized successfully the chapters related communication shall be able to elucidate how communication plays an important role in modern business scenario.



Elective for Applied Economic Group: Business Economics	 Upon successful completion of the course a student will be able to Understand how households (demand) and businesses (supply) interact in various market structures to determine price and quantity of a good produced. Understand the links between household behavior and the economic models of demand. Represent demand, in graphical form, including the downward slope of the demand curve and what shifts the demand curve. Understand the links between production costs and the economic models of supply Understand the concept of Pricing. Analyze operations of markets under varying competitive conditions.
Elective for Advertisement Group: Sales Promotion	Students will be able to understand:- The Meaning and Importance of Sales promotion. Types, tools and Programme of Sales promotion, Sales Promotion- result to increase sales of organization
Vocational for Applied Economics Group Office Procedure and Practice	 After studying this course the student will be able to Understand office record keeping, Record management and filing. Understand about office forms, register and the mail management. Understand the Budget and audit system in the Office. Understand the procedure and record keeping of various deductions like professional tax, Goods and Service tax, Income tax, Provident Fund and Insurance.
Vocational for Advertising Group: Salesmanship	 After studying this Course the Student will be able to Basic Selling Techniques: Demonstrate effective selling skills. Contract and Sales Negotiations: Apply negotiation techniques to selling situations. Customer Profiling: Identify and profile the various selling styles. Sales Proposal Writing: Apply the principles of proposal writing. Customer Service Skills: Identify successful techniques for working with customers in business situations.



> Helps developing effective selling skills as required in the today's competitive industry.

B.COM II YEAR CORPORATE ACCOUNTING

COST

On successful completion of this course students will be able to:

- > Construct the financial statements of company within the frame work of Indian Accounting Standards.
- > Explain the implication of unethical accounting practices on the society.
- Enlighten the students on the accounting procedures followed by the Companies.
- > To make aware the students about the valuation of shares and Goodwill.
- > To impart knowledge about holding company accounts, amalgamation, absorption and reconstruction of company.

After completing this course students will be able to-ACCOUNTING

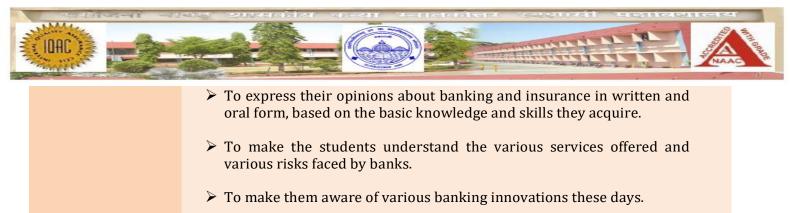
- Understand various costing systems and management systems.
- > Analyze and provide recommendations to improve the operations of organizations through the application of Cost and Management accounting techniques.
- > Evaluate the costs and benefits of different conventional and contemporary costing systems.
- Differentiate methods of inventory management.
- Identify the specifics of different costing methods.
- > Analyze cost-volume-profit techniques to determine optimal managerial decisions.
- > Apply cost accounting methods for both manufacturing and service industry.

After completing this course students will be able to-

Principles of Understand basic statistical concepts such as statistical collection, **Statistics**



	statistical series, tabular and graphical representation of data.
	Calculate measures of central tendency, dispersion, symmetry and correlation analysis.
	Independently calculate basic statistical parameters viz- mean, measures of dispersion, correlation coefficient, indexes.
	Based on the acquired knowledge to interpret the meaning of the calculated statistical indicators.
	Choose a statistical method for solving practical problems.
	Highlight statistical relationships between variables in data sets.
	Predict values of strategic variables using correlation analysis.
D · · · I · <i>C</i>	After completing this course students will be able to-
Principles of Management	To have clear understanding of managerial functions like planning, organizing, directing, budgeting, etc. and have same basic knowledge on international aspect of management.
	To understand the planning process in the organization.
	To understand all the aspects of organization.
	Demonstrate the ability of directing, leadership and communicate effectively.
	To formulate best controlling techniques and methods.
Teo Maria	After completing this course students will be able to-
Indian Company Act	Gain complete knowledge of company right from incorporation to winding up.
	Gain complete knowledge of company law in India.
	Know about the concept of shares and debentures.
	Understand the memorandum of association and article of association in a company.
	Know about the use of prospectus in a company.
DANIZING Ø	After completing this course students will be able to-
BANKING & INSURANCE	To have knowledge of banking, insurance and capital market law besides fundamental legal knowledge.



- > To give them an overview about insurance industry.
- To make the students understand various principles, provisions that govern the Life and General Insurance Contracts.

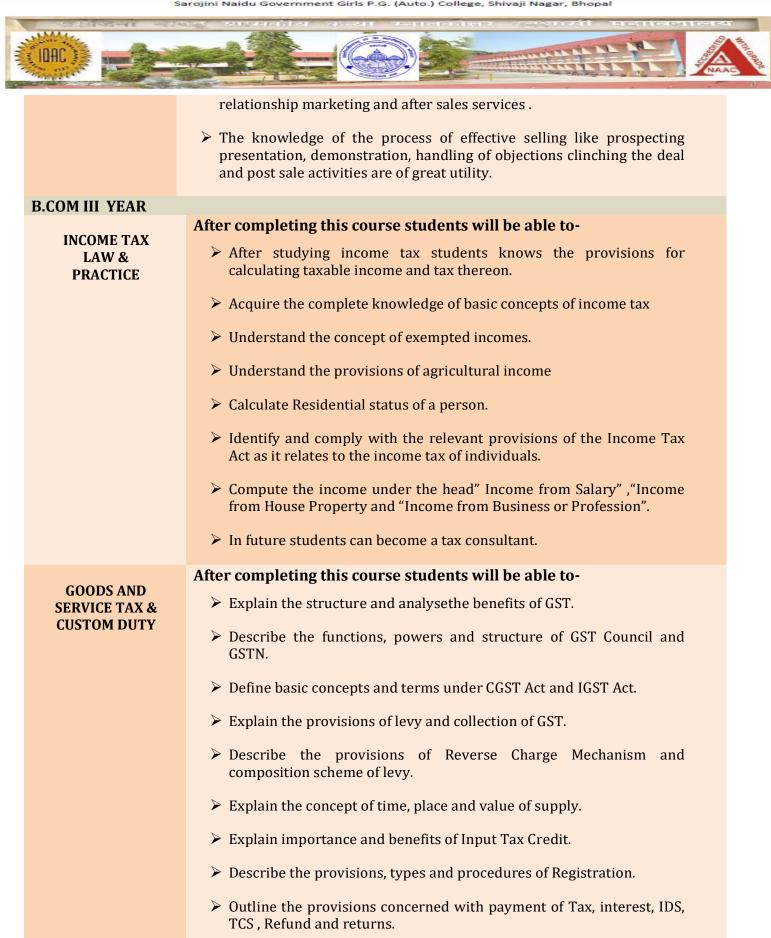
After completing this course students will be able to-Advertising II

- Describe the significance of advertising concepts- like branding ,products and services promotion competitive selling.
- They will be able to demonstrate the leadership and management attributes by starting an advertising agency.
- Also they can apply the knowledge of advertising in preparing effective advertisements for varied products and services.
- Recognize the futuristic and creative approach of the subject it is indeed a vocational and job oriented program also career prospects are very high and rewarding .In sectors like film, television ,radio, print media and electronic media advertising.
- Online and social media advertising are indispensable for present day business and corporate needs.
- Understand the structure and workings of advertising agencies.

After completing this course students will be able to-

PERSONAL SELLING AND SALESMANSHI P

- Describe the importance of direct selling and door to door selling with the practical approach.
- Students will be able to emerge as a trained sales professional and qualified sales manager.
- The student can apply the knowledge of personal selling concepts while preparing sales operation report, tour diary cash memo, order book, periodical reports etc.
- Identify the problems of selling operations and suggesting appropriate solutions.
- > Personal selling and salesmanship highlights the importance of





	After completing this course students will be able to-
MANAGEMENT ACCOUNTING	Explain the application of management accounting and the various tools used.
	Make inter-firm and inter-period comparison, of financial statements.
	Analyze the financial statement using various ratios.
	Prepare Fund Flow Statement and Cash Flow Statement.
	Prepare different budgets for the business.
AUDITING	After completing this course students will be able to-
AUDITING	The course is intended to acquaint the student with auditing standards and the general procedures required in conducting an audit.
	The successful student, upon completion of the course will have a basic understanding of generally accepted auditing standards, audit reporting and the theory and methodology of auditing.
	He/she will develop an appreciation for the importance of the ethical standards of certified public accountants, the need for keeping abreast of current accounting issues and regulations and the degree of professionalism required to the successful accountant.
	The students will be able to demonstrate an understanding of the nature and scope of auditing and related services.
	The students will be able to demonstrate awareness, knowledge and appreciation in application of auditing principles and practices in global business operations.
	Through the auditing course, the student will be able to exhibit knowledge of different functions of business and appreciation of integrated functional business areas and make use of adaptive and innovative skills in solving business problems.
PUBLIC FINANCE	After completing this course students will be able to-
I UDEIC FINANCE	Understand the meaning and relevance of Public finance.
	Have conceptual clarity of public expenditure and revenue theories.
	Apply the principle of optimal taxation in analysing various governments tax policies.
	Know the application of public economics in analysing various energy policies.



	Comprehend various types of public goods and its real world application.
	Apply and integrate Equity and Efficiency Economics principles to analyse energy consumption.
	After completing this course the students will be able to
FINANCIAL MANAGEMENT	Demonstrate an understanding of the overall role and importance of the finance function.
	Demonstrate basic finance management knowledge.
	Communicate effectively using standard business terminology.
	Explain the concept of fundamental financial concepts, especially time value of money.
	Apply capital budgeting projects using traditional methods.
	Analyze the main ways of raising capital and their respective advantages and disadvantages in different circumstances.
	Integrate the concept and apply the financial concepts to calculate ratios and do the capital budgeting.
	At the end of this course students will be able to-
MANAGEMENT OF SALES FORCE	 At the end of this course students will be able to- ➤ To know the distinction between the skills required for Selling and Sales Management.
	To know the distinction between the skills required for Selling and
	 To know the distinction between the skills required for Selling and Sales Management. To Evaluate Sales and Sales Management strategies in relation to
	 To know the distinction between the skills required for Selling and Sales Management. To Evaluate Sales and Sales Management strategies in relation to current legal and ethical standards of practice. To Understand key principles in managing a sales team in today's
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- Through E-business and E-Commerce students are closely related to digital India which is need of time.
- To develop skills in main areas of digital marketing as Search Engine Marketing; Content Marketing; Social Media marketing; Email marketing and Affiliate marketing.
- To apply and understand the most common online payment systems and their functioning.
- > To understand mobile marketing measurement and analysis.



Faculty of Computer Application

B.Sc. / B.Com Computer Application Programme

Programme Outcomes

- > The basic objective of the programme is to develop scholars potentially rich & employable in the field of computer application and information technology.
- > They can purse higher studies in the area of Computer Application.
- Scholars can be self employed in Indian & global software market.
- They can acquire more practical knowledge to meet the requirements of the Industrial standards.



B.Sc. Computer Application Program Specific Outcomes

B.Sc. Computer Application is a three year full time undergraduate degree program dealing with the study related to the various aspects of computer functioning. During this course study, the students can get indepth knowledge on Windows, Programming Languages, Operating System, Web Designing and more.

COURSE OUTCOMES

YEAR-I

Major I : Programming in C Language	 On the completion of this course student will be able - To explore basics of C programming languages. To approach the programming tasks using techniques learned and write pseudo-code. To choose the right data representation formats based on the requirements of the problem To use the comparisons and limitations of the various programming constructs and choose the right one for the task in hand. To identify tasks in which the numerical techniques learned are applicable and apply them to write programs, and hence use computers effectively to solve the task.
Major-II/Minor/ Elective: Data Processing Software	 On the completion of this course student will be able - To understand the basic concept of various applications of software. To gain knowledge of MS Word, Excel, Access and Power Point. To apply acquired knowledge in office automation tasks. To study various methods of formatting of documentation and use of spreadsheets To develop and enhance presentation skills using power point.



Vocational- I	After the successful completion of the course, the student will be able to -
Digital Marketing	Understand digital marketing, importance thereof, meaning of web side and levels of web site, difference between blog; portal & amp; website.
Marketing	Understand the working of SEO (search engine optimization) on page optimization, off page optimization, and will learn to prepare reports.
	Learn about SMO (social media optimization) like Facebook, twitter, Linked In, Tumblr, Pinterest and other social media services optimization.
	Understand paid tools like Google ad words, display advertising techniques.
	Learn and apply hands on experience on tools useful to SEO for analysis on website traffic, keyword analysis and learn email marketing and ad designing.
Vectional	After studying this course the student will be able -
Vocational	Code a handful of useful HTML & CSS examples.
Web Designing	Build semantic, HTML & CSS web page.
	Write basic scripts
	Use Names, Objects and Methods.
	Add Interactivity to a Web Page.
	Create Dynamic Web Pages Using Jawa Script in HTML forms.



B. Sc / B.Com Computer Application (Program Specific Outcomes)

B.Sc./B.Com. Computer Application is a three year full time undergraduate degree program dealing with the study related to the various aspects of computer functioning. During this course study, the students can get in-depth knowledge on Windows, Programming Languages, Operating System, Web Designing and more.

COURSE OUTCOMES

YEAR-II

Paper I :	The objective of the course is to understand the basics principles of internet and World Wide Web. They will be able to do E-commerce.
Internet and Ecommerce	Students will come to know the Concept of internet, Its history, Internet Services, Connectivity.
	They will learn the concept of internet addressing, Web servers etc. they will also learn methodologies and tools for access websites, portals, downloading and uploading data.
	Develop skills in concept of Email and various terminologies associated with it.
	Become familiar with E-Commerce, E-Commerce models, E-Marketing versus Traditional Marketing, E-Security, E-Payment System.
Paper II: Relational Database Management System	The objective of the course is to understand the concept of database management Systems. The course gives the knowledge about structure and use of various database management systems with major focus on relational database design.
	After studying this course, students will be able to appreciate the applications of database systems.
	Students will be able to develop database applications with all the constraints which help in storing and retrieving data easily.
	Student will be able to effectively work with DBMS like MS-ACCESS, MySQL, Oracle and DB2 via SQL Interface.
YEAR-III	



Web Designing and W studying > Studying > Studying > Studying > The with with with weights > The with with weights	pjective of the course is to understand the basics principles of internet orld Wide Web. They will be able to design an effective web page by ng markup languages adents will come to know the concept of internet, its history and olution process. Mey will learn the concept of internet addressing, Web servers etc. they ll also learn methodologies and tools for access websites, portals, wnloading and uploading data.
 De wi Be an 	th it. come familiar with Markup languages, will learn the language of the web d have hands on HTML and CSS in details. Like techniques of web design, rm Design, Table Design, controls on forms.
Digital Marketing Digital the main of the main o	ojective of this course is to introduce students with basic concepts of Marketing , its functions and services. The students will understand urketing process. Addents will learn Digital marketing and its process, visibility its types and ample, Visitor Engagement, Bringing targeted traffic, inbound, outbound, nversion process, retention and its types, performance evaluation. Addents will learn the concept of internet and website, Web servers & its pes, web hosting, domain name, extension etc. they will also learn to an , conceptualizing and build a website using CMS in class , wnloading and uploading data. Addents will learn the concept of Google analytics, set up analytics account d add analytics code in website, understanding goals and conversions, unce rate, difference between bounce rate, exit rate and reduce rate, ponitoring traffic sources. Addents will learn the marketing of social networking websites like trual , Face book, Twitter, LinkedIn, Google Plus, Video and Pinterset arketing. Addents will understand SEO and its importance, Google Adwords erview and its algorithm, creating search campaigns and ads, tracking rformance / conversion, optimizing search campaigns and creating splay campaign.



B.Sc. Computer Science

COURSE OUTCOMES

YEAR-I	
Major I : Computer System Architecture	 On the completion of this course, student will be able to - Understand the basic structure, operation and characteristics of digital computer. Be able to design simple combinational digital circuits based on given parameters. Familiarity with working of arithmetic and logic unit as well as the concept of pipelining. Know about hierarchical memory system including cache memories and virtual memory. Understand concept and advantages of parallelism, threading, multiprocessors and multi core processors. Know the contributions of Indians in the field of computer architecture and related technologies.
Major II/Minor/Elective : Programming Methodologies & Data Structures	 On the completion of this course, learners will be able to - Develop simple algorithms and flow charts to solve a problem with programming using top down design principles. Writing efficient and well-structured computer algorithms/programs. Learn to formulate iterative solutions and array processing algorithms for problems. Use recursive techniques, pointers and searching methods in programming. Will be familiar with fundamental data structures, their implementation; become accustomed to the description of algorithms in both functional and procedural styles. Have knowledge of complexity of basic operations like insert, delete, search on these data structures. Prossess ability to choose a data structure to suitably model any data used in computer applications.



- Design programs using various data structures including hash tables. Binary and general search trees, heaps, graphs etc.
- > Assess efficiency tradeoffs among different data structure implementations.
- Implement and know the applications of algorithms for searching and sorting etc.
- Know the contributions of Indians in the field of programming and data structures.



BCA

COURSE OUTCOMES

YEAR-I	
Major I : Computer Fundamentals, Organization and Architecture	 On completion of this course, learners will be able to - Familiarity with parts of the computer and peripheral devices used with the computer. Realization of the basic logic and universal gates. Verify the behavior of logic gates using truth tables. Implement Binary-to-Gray, Gray-to-Binary code conversions. Design half and full adder circuit using basic gates. Design and construct flip flops and verify the excitation tables.
<section-header></section-header>	 On completion of this course, learners will be able to - Develop simple algorithms and flow charts to solve a problem with programming using top down design principles. Writing efficient and well-structured computer algorithms/ programs. Learn to formulate iterative solutions and array processing algorithms for problems. Use recursive techniques, pointers and searching methods in programming. Will be familiar with fundamental data structures, their implementation; become accustomed to the description of algorithms in both functional and procedural styles. Have knowledge of complexity of basic operations like insert, delete search on these data structures. Possess ability to choose a data structure to suitable model any data used in Computer Applications. Design programs using various data structures including hash tables. Binary and general search trees, heaps, graphs etc.



- Assess efficiency tradeoffs among different data structure implementations.
- Implement and know the applications of algorithms for searching and sorting etc.
- Know the contributions of Indians in the field of programming and data structures.



Faculty of Home Science

B.SC. (HOME SCIENCE) HUMAN DEVELOPMENT

PROGRAM OUTCOME

- ✓ Deliver quality tertiary education through learning while doing.
- ✓ Reflect universal and domain-specific values in Home Science.
- ✓ Involve, communicate and engage key stakeholders.
- ✓ Preach and practice change as a continuum.
- ✓ Develop the ability to address the complexities and interface among of self, societal and national priorities.
- ✓ Generate multi-skilled leaders with a holistic perspective that cuts across disciplines. Instill both generic and subject-specific skills to succeed in the employment market.
- \checkmark Foster a genre of responsible students with a passion for lifelong learning and entrepreneurship.
- ✓ Develop sensitivity, resourcefulness and competence to render service to families, communities, and the nation at large.
- ✓ Promote research, innovation and design (product) development favouring all the disciplines in Home Science.
- ✓ Enhance digital literacy and apply them to engage in real time problem solving and ideation related to all fields of Home Science.
- Appreciate and benefit from the symbiotic relationship among the five core disciplines of Home Science – Resource Management, Food Science and Nutrition, Textiles and Clothing, Human Development and Family Studies and Extension and Communication



B.SC. (HOME SCIENCE) HUMAN DEVELOPMENT

PROGRAM SPECIFIC OUTCOMES:

- ✓ Describe how individuals develop and change from womb to tomb
- ✓ Relate the principles of human development with self, family and society
- ✓ Apply methods of teaching and training towards administration of early learning centres
- ✓ Appraise and identify life situations in need of referral services
- ✓ Manage life crisis at every stage of life span

COURSE OUTCOMES:

YEAR I

PAPER	> Identify the different stages of human life span and their developmental tasks
Life Span Development-I	Understand the impact of specific cultural practices- Family and Community in child's life
	Understand child's behavior and their developmental domains occurring in infancy and childhood.
PAPER Introduction To	Compile the concept related to Extension Education .
Extension And Communication Elective	Discuss on different types of media , Methods and various audio, audio-visual teaching aids its uses in the implementation of programme .
	Critically analyze theories and concepts of gender and development.
	Analyze woman rights in terms of gender equality and gender equity.
	Critically analyze existing laws and the legal system through a gender lens.
YEAR II	
PAPER EARLY CHILDHOOD AND CHILDHOOD EDUCATION	Explain the importance of early childhood years and significance of intervention programs for early childhood development.
	Analyze the historical developments – global and Indian including the current programs and policies in ECCE.
	Identify various indigenous (Indian) models of Early Childhood Education and apply it to understand the current early childhood research, theoretical trends



	and issues.
	Analyze curriculum models and pedagogical approaches in early childhood education.
	Create developmentally appropriate programs for children in two to six years of life and late childhood
PAPER - RURAL DEVELOPMENT	 Discuss the knowledge, skill and attitude to work with the Rural communities and Get sensitized on the issues of Rural society Critically analyze much development and much leadership
	Critically analyze rural development and rural leadership
	Explain the governmental policies on women and role of women as partner in development.
	Compare community development with community organization
	Discuss significant phases in community development and Envisage the role of community-based organizations in community development
	Compile the knowledge on sustainability and community development concepts
PAPER-VI ELECTIVE PAPER – JOB ORIENTED COURSE –	Apply the skills to use principles of pedagogy and curricular framework for optimal development through ECCE programs
PRE-SCHOOL EDUCATION	Apply the methods to address socio-cultural diversity through local and global methods and practices
	Prepare and develop strategies for effective capacity building, implementation and assessment of Pre-School care and Pre-School education programs
	Demonstrate the necessary skills to work effectively with families and form collaborative relationships with them
YEAR III	

-	:	Sarojini Naidu Government Girls P.G. (Auto.) College, Shivaji Nagar, Bhopal
	PAPER III - ADOLESCENCE AND ADULTHOOD	 Explain the need and importance of studying adolescence and adulthood as a distinctive stage of the life-span. Discuss factors that affect physical, cognitive and socio-emotional development during adolescence and adulthood Analyze the characteristics, needs and developmental tasks of adolescence and adulthood. Identify the biological and environmental factors affecting development during adolescence and adulthood. Analyze key issues that influences adolescence and adulthood development. Evaluate policy recommendations for adolescents and adults across contexts. Evaluate developmental programs of intervention for varied groups of adolescents, adults.
	PAPER- V - EXTENSION AND COMMUNICATION	 Compile the Knowledge about family and social system Critically analyze women empowerment and related issues Analyze woman rights in terms of gender equality and gender equity and Gender discrimination Analyze personal growth and personality development and conflict , stress and their coping strategies Critically analyze role of Home Science Education in Empowering a Person
	Paper VI Elective Paper - Job Oriented Course - Guidance and Counseling	 Explain the purpose, scope, theories, and practices of Guidance and Counselling for child development. Compile the development needs from the lifespan perspective; identify at risk children and assess various concerns that families bring into the Guidance and Counselling process. Analyze the processes involved on Guidance and Counselling at different stages in life Apply and Utilize the basic Guidance and Counselling skills of observation, attending, active listening, empathy, appropriate questioning, paraphrasing, reflection of feeling and thought, summarization, confrontation and constructive use of silence. The student will be able to

- the counselling process.
- Apply the skills in using select approaches and techniques of counselling

B.Sc. (Home Science) Family Resource Management Program Specific Outcomes:

• The student will be able to develop knowledge / skill of Event Management.



- The student will be able to prepare and assess Time plan, Family Budget.
- Acquire knowledge of colour schemes, principles of design and elements of Art and their application in Interior Decoration.
- Develop skill for House planning, kitchen planning, landscaping.
- Develop the skill for preparing Alpana, Rangoli.

COURSE OUTCOMES

YEAR I	
FAMILY RESOURCE MANAGEMENT	 After competing this course, the student will acquire the knowledge of : The concept of Family Resource Management The process of Management in the scientific manner for the use of
	 resources Imbibing nuances of human values and standards in successful management and decision making Effective management of time, energy, money and works simplification
YEAR II	
Housing and Interior Decoration	 After competing this course, the student will be able to : Identify the objectives of decoration and principles of Design and their application in Interior decoration. Discuss the principles of various elements of Art and its application in interior decoration. Create the skills of Indian traditional contemporary arts viz. Alpana, Rangoli etc. Discuss various family housing needs and different aspects of House Planning. Prepare plan and design for kitchen. Develop the skill of furniture arrangement. Explain and apply various colour schemes and theories in Interior decoration.
YEAR III	



No. of Lot of Lo		
	Housing and Interior	After competing this course, the student will be able to :
	Decoration	 Identify the objectives of decoration and principles of Design and their application in Interior decoration.
		 Discuss the principles of various elements of Art and its application in interior decoration.
		3. Create the skills of Indian traditional contemporary arts viz. Alpana, Rangoli etc.
		4. Discuss various family housing needs and different aspects of House Planning.
		5. Prepare plan and design for kitchen.
		6. Develop the skill of furniture arrangement.
		7. Explain and apply various colour schemes and theories in Interior decoration.



B.Sc. (Home Science) Food & Nutrition Program Specific Outcomes:

- > The students will be enabled to pursue higher education and research.
- > The students will understand the role and importance of food and nutrition for the welfare of the community and acquire the skills in planning diet.
- Development of intra-disciplinary skills This opens wide range of opportunities for students in job sector. Studying wide range of subjects like Dietetics, Community Nutrition, Family Meal Management, Quantity Food Production & Service, Food Safety and Quality Control, Bakery Science, Women a, child and elderly Nutrition –both theory and practical, help students in developing skills related to various fields of nutrition.
- Scientific and Critical Thinking Development of knowledge, skills and holistic understanding of the discipline among students. This goal is achieved through the on job trainings conducted by the Department in Hospitals and Community and the writing of a report on it.
- Health management and community upliftment- The course equips students with ability to manage a healthy society and country. This goes a long way in progress of entire nation and thus world. Students can work at both national and international level after completion of higher studies in this course.
- Self dependency- The course gives an opportunity to willing students to establish an enterprise of their own in health & food sectors.
- > Deliver quality tertiary education through learning while doing.
- Reflect universal and domain-specific values in Home Science.
- Involve, communicate and engage key stakeholders.
- Develop the ability to address the complexities and interface among of self, societal and national priorities.
- Generate multi-skilled leaders with a holistic perspective that cuts across disciplines.
- Develop sensitivity, resourcefulness and competence to render service to families, communities, and the nation at large.
- Promote research, innovation and design (product) development favouring all the disciplines in Home Science.
- Enhance digital literacy and apply them to engage in real time problem solving and ideation related to all fields of Home Science.
- Appreciate and benefit from the symbiotic relationship among the five core disciplines of Home Science – Resource Management, Food Science and Nutrition, Textiles and Clothing, Human



Development and Family Studies and Extension and Communication

> Instill both generic and subject-specific skills to succeed in the employment market

COURSE	OUTCOMES
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YEAR- I	
PAPER I- BASIC NUTRITION	 A successful completion of this course will enable students to: Summarize and critically discuss and understand both fundamental and applied aspects of Food Science and nutrition. Able to explain functions of specific nutrients in maintaining health. Apply basic nutrition knowledge in making foods choices and obtaining an adequate diet. Gain knowledge about energy requirements and the Recommended Dietary Allowances. Understand the functions and role of macronutrients, their requirements and the effect of deficiency and excess. Analyze the role of various minerals and vitamins important in maintaining health. Appreciate the importance of water and electrolytes in the human body. Learns the impact of various functional foods on our health Gains competence in connecting the role of various nutrients in maintaining health and learn to enhance traditional recipes. Apply basic nutrition knowledge in making foods choices and obtaining an adequate diet. Understand the functions and role of macronutrients, their requirements in maintaining health and learn to enhance traditional recipes. Apply basic nutrition knowledge in making foods choices and obtaining an adequate diet. Understand the functions and role of macronutrients, their requirements and the effect of deficiency and excess.
PAPER II- PHYSIOLOGY	 The students will be able to: Gain the basic knowledge of human anatomy and physiology. Define the main structures composing human body. Explains structure and functions of cells, tissues and organs, systems of the human body. Relates structure and functions of tissue. Provides excellent preparation for careers in the health professions and/or biomedical research. Understand and distinguish the functions of organs in the body. Comprehend the anatomy of the various organs. Illustrate the processes of the respective system. Get sensitized about reproductive system and functions. Elaborate the regulation of body fluids and blood parameters.
YEAR II	



PAPER I-	
Nutritional	After studying this course the student will be able to:
Biochemistry	
	 Demonstrate an understanding of fundamental biochemical principles, such as the structure/function of biomolecules, metabolic pathways, and the regulation of biological/biochemical processes. To Communicate the concepts and results of their laboratory experiments through effective writing and/or oral communication using the discipline standards for reporting and citation To analyze critically and evaluate constructively the concept of science and effectively bring out the knowledge derived from that To gain insight into the most significant molecular and cell-based methods used today to expand our understanding of biology. Be able to integrate knowledge learned in discipline specific courses. to understand and gain theory & practical knowledge on different food groups and their nutritive value, Biological cycles involved in metabolism. understand and gain theory & practical knowledge on the Physiology and Bio-chemistry in cell like role enzymes hormones and water balance. Life regulation based on Micro and Macro elements & Ion balance. To study the importance of dietary component and their physiological functions.
	> To understand consequence of nutritional deficiency or excess in the
	clinical lab diagnosis of metabolic diseases
PAPER II	
2	The students will be able to:
PACKAGING	
	Gain knowledge about various packaging materials and importance of
	packaging.
	Ensure the safety of the product and preserveit in good condition for the anticipated shelflife.
	Understand the importance of food labeling.
	Gain knowledge on food processingtechniques.
	Gain knowledge on food processingtechniques.
	To be more self-reliant.
	Equip the students to gain basic knowledge relating to the principles of baking
	Introduce them to the techniques of cake and pastry making
	Understand to describe properties and functions of the basic ingredients used in baked goods.
	 Students will learn the Weigh and measure ingredients used in baking.
	 Gain practical knowledge to prepare high ratio, chiffon cakes and genoise.
	washes, glazes, icings, frostings and fillings.
	> Apply and examine the knowledge of properties for selection of
	packaging materials for foods food products
	 packaging materials for foods food products Evaluate new and emerging technology and related underpinning science
	Evaluate new and emerging technology and related underpinning science
	 Evaluate new and emerging technology and related underpinning science in food science in packaging



and characteristics of packaging materials and storage and distribution of requirements

YEAR III

PAPER I

NORMAL AND

THERAPEUTIC

NUTRITION

To enable students:

- > To obtain knowledge on role of diet in disease conditions.
- > To gain experience in planning, preparing and serving therapeutic diet.
 - To learn and apply the latest in research-based nutrient needs of pregnant and lactating females.
 - The student gains knowledge about the changing nutritional needs of an infant and about complementary feeding.
 - The students will be able to relate nutrient needs to developmental stages and plan diets which will adequately meet nutritional needs during childhood.
 - The student will learn the impact of growth and development in arriving at the nutritional needs of adolescents.
 - The student will be able to connect the role of changing metabolism, risk of chronic diseases and impact of functional foods in effectively planning diets for adults.
 - The student gains competence on meeting nutrition needs and establishing dietary patterns to promote optimum health and reducing the impact of chronic diseases in the elderly.

PAPER II--ADVANCED BAKERY AND PACKAGING

- Equip the students to gain basic knowledge relating to the principles of baking
 - Introduce them to the techniques of cake and pastry making
 - Understand to describe properties and functions of the basic ingredients used in baked goods.
 - Students will learn the Weigh and measure ingredients used in baking.
 - Gain practical knowledge to prepare high ratio, chiffon cakes and genoise. washes, glazes, icings, frostings and fillings.
 - Apply and examine the knowledge of properties for selection of packaging materials for foods food products
 - Evaluate new and emerging technology and related underpinning science in food science in packaging
 - Demonstrate advanced knowledge and skills in selecting packaging materials and technologies based on the characteristics of food product and characteristics of packaging materials and storage and distribution of requirements.



B.Sc. (Home Science) Textile and Clothing Program Specific Outcomes:

COURSE OUTCOMES

YEAR-I

Paper - Introduction to Textile and Clothing	 After completing the course the student will be able to : Develop basic concepts related to processing and production of fibers, yarns and textiles. Classify yarns and spinning methods. Evaluate the properties and performance of fibers, textiles and textile products. Explain the methods of application of finishes on different textile substractes, develop understanding of the chemistry and mechanism of action of application of various finishes. Explain various tools and equipments used in garment construction. Measure and record measure accurately. Explain various factors influencing selection of fabrics. Describe principles of clothing construction, drafting, paper pattern. Discuss principles of Tailoring develop skill for various sewing techniques basic and decorative stitches.
Paper I Fundamental Of Design	 After completing the course the student will be able to : Define design, concept and types of design. Distinguish between Motif and Pattern. Describe inspiration of design. Develop understanding of elements of design (Lines, Shapes, Spaces, forms, Colour & Texture). Develop understanding of principles of design (Rhythm, Harmony, Emphasis, Balance and proportion) Analyze the effective use of elements and design, and fashion in the design.
Paper II Fundamental Of Clothing Construction	 After completing the course the student will be able to : Identify various sewing tools and equipments. Demonstrate various sewing machines used for sewing. Develop skills required for garments components. Create different types of seams and seams finishes. Crate different basic and decorative stitches. Develop skills of creating different sleeves, collars, pockets and yokes, explain the styling features of different collars, sleeves, pockets & necklines. Acquire the skills of finishing the necklines. Develop skills of taking body measurements.



YEAR-II	
Paper I – Fashion Illustrations	 After completing the course the student will be able to : Develop skills to use different mediums – pencils & pens, brushes and papers, inks and colours (water, poster, oil and acrylic colours). Explain basic anatomical relationships relevant to descriptive drawing of the human form. Develop skills in figure drawings. Draw fashion figures by understanding body proportions. Idnetify rythms of the body and natural forms and how they exist in the whole and part of the figure. Transfer the complete idea of their design onto the fashion figure. Describe different materials, their properties and use of them in making accessories. Identify different types of bags & purses. Describe various modern and traditional jewellery. Explain different skin adornment techniques. Evaluate the present trends in the market and interpret it and create own concepts. Define and describe fashion, concepts and characteristics. Explain fashion cycles and fashion theories. Identify role of fashion designer. Explain fashion forecasting.
Paper II – Clothing Construction	 After completing the course the student will be able to : Define paper pattern, commercial paper pattern, pattern marking terms, pattern envelops and guide sheet. Describe various methods of pattern designing. Develop and create style in the pattern through flat pattern technique pivot, slash and spread method. Alter various patterns and create new styles. Outline the different pattern adaptation techniques used to fit the different figure shapes and garment sizes. Will be able to create a clothing line. Develop skill in various types of regional embroideries and use them effectively and designing the garments. Develop a skill to create contemporary styles of embroideries for fashion garments. Create different surface ornamentation techniques eg. Various types of printing, tie and dye.



PAPER	After completing the course the student will be able to :
TEXTILE AND CLOTHING	 Develop understanding of methods of fabric construction. Differentiate the different weaving mechanism and about various weaving machines. Identify various weaving techniques. Classify dyes and outline various dyeing methods. Explain various printing techniques. Describe preparatory process of dyeing and printing. Explain different traditional textiles of India. Analyze the importance of clothing. Evaluate desirable features of infant's, children's clothing and social and psychological aspect of clothing. Assess the factors to be considered while selecting and making children's clothes. Plan family clothing budget. Prepare child's bodice block.
YEAR-III	
PAPER APPAREL DESIGNING	 After completing the course the student will be able to : Apply the knowledge of elements of design and principles of designs to create new design on paper, textile and garments. Identify the importance of clothing care and storage. Evaluate and compare readymade and tailormade garments. Explain the principles of figure drawing, silhouette and its types. Demonstrate various figure types. Analyze garment fit, fitting sessions, fitting problems and their remedies. Develop understanding of applicaton of garment details in apparel construction. Develop understanding of drafting and layout for women's wear.
Paper I –	After completing the course the student will be able to :
Fashion Illustrations	 Describe the economic importance of fashion industry. Demonstrate the careers in the fashion industry, careers with each field of fashion. Describe the roles and importance of various fashion personnel within the fashion industry. Create and develop mood board and illustrations to make project. Identify various presentation technique eg. Swatch board, client board, wood board, accessory board. Distinguish the different styles in illustrations and mood boards. Develop cost sheet. Develop own illustrations style eg. Formal wear, casual wear & festive



	 wear etc. Develop own illustrations style for old person, disabled person etc. Explain computer aided software (photoshop & coral draw) Identify various tools of computer aided software. Create their own presentation, and demonstrate their own brand through thematic window display. Can create female croquie, party wear, formal wear, casual wear & sport wear by using corel draw and photoshop. Create port folio
Paper II – Apparel Designing	 After completing the course the student will be able to : Develop skills of drafting and stiching of women's wear (shirt, blouse, churidar, salwar plazzo, kurta, skirt, nightwear) Develop skill of drafting of skirt, shirt, Trousers & Koti. Identify woven dyes, printed and painted textiles of India. Explain different motives colours and weaving techniques used in Indian textiles along with its significance. Describe various techniques, stitches, motifs and colour combination used in Indian traditional embroidery. Different textiles from different parts of the country.



Faculty of Science B.Sc.(Bachelor of Science)

Program Outcomes

BachelorofScience(BSc)offerstheoreticalaswellaspracticalknowledgeaboutdifferentsubjectareas. ThesesubjectareasincludePhysics,Chemistry,Mathematics and Biology and other fields depending on the specialisation astudentopts.

This programme course is most beneficial for students who have a strong interest and background in Science and Mathematics. The course is also beneficial for students who wish to pursue multi and inter-disciplinary science careers in future. Following are the various programme outcomes:

- This course forms the basis of science and comprises of the subjects like physics, chemistry, biology, zoology, mathematics and computer application.
- It helps to develop scientific temper and thus can prove to be livre beneficial for the society as the scientific developments can make a nation or society to grow at a rapid pace.
- After the completion of this course students have the option to go for higher studies i.e., M. Sc and then do some research for the welfare of mankind.
- After higher studies students can join as scientist and can even look for professional joboriented courses.
- > This course also offers opportunities for serving in Indian Amy, Indian Navy, Indian Air Force as officers.
- Students after this course have the option to join Indian Civil Services as IAS, IIS etc.
- Science graduates can go to serve in industries or may opt for establishing their own industrial unit.
- After the completion of the B.Sc. degree there are various other options available for the science students. Often, in some reputed universities or colleges in India and abroad the students are recruited directly by big MNC's after their completion of the course.
- Apart from the research jobs, students can also work or get jobs in Marketing, Business & Other technical fields. Science graduates also recruited in the bank sector to work as customer service executives. Students can also find employment in government sectors.



B.Sc. (Botany)

Program Specific Outcomes

Students completing this course will be able to-

- Critically evaluate the relevant information about the plants and their classification;
- B.Sc. Botany graduates develop the core competency in the subject and their theoritical and practical applicability is ensured;
- Sotany graduates are equipped with the knowledge related to competitive exams;
- Students will be able to demonstrate the experimental techniques and methods of their area of specialization in Botany;
- Apart from subject specific skills, the outcomes would lead to gain knowledge and skills for further higher studies.

COURSE OUTCOMES

YEAR-I

PAPER I:	By the end of this course the student should have:
Applied Botany	Understood the significance and role of botany.
	Learnt the basic aspects of applied botany.
	Gained knowledge about employment opportunities in field of botany
	Gained knowledge about start-up opportunities in the field of botany
	Learnt about opportunities of social services
	Gain knowledge about best health practices
Practical I:	On completion of this course, learners will be able to:
Applied Botany	
Practical	By the end of this course the student should have knowledge of practical skill related with ethnobotany, tissue culture, application of bioinformatics software
	and tools of recombinant DNA technology.
Paper II:	
Basic Botany	> This course will help the student to understand the diversity of plants and
Dasic Dotally	evolutionary process in plant kingdoms.
	It gives accounts of plant adaptation from aquatic condition to colonize terrestrial habitat.
	The changes in morphological, anatomical and reproductive structures that propel plant evolution can be investigated.



	> The economic importance and significance of plants in nature will be understood.
	They will be acquainted with locally prevalent microbial diseases of plants and humans.
Practical II:	Students will learn to carry out practical work in the laboratory.
Basic Botany Practical	 Interpreting plant morphology and anatomy of various groups of lower and higher plants.
	Students will be able to identify the major groups of microorganisms.
YEAR-II	
PAPER I :	The objective of this course is to provide fundamental knowledge of plant taxonomy, reproduction and embryology of Angiosperms.
TAXONOMY AND EMBRYOLOGY OF ANGIOSPERMS	 Study of taxonomy helps the students to understand the flora of any area and make them able to identify the plant species;
	The above knowledge makes students competent to work in department of forestry, Biodiversity conservation board, Pollution control board, Environmental protection Agencies;
	Students will be more capable in the field of Horticulture floriculture Nursery management and plant cultivation;
	By the study of embryology of Angiosperms student will be able to understand plant and plant interaction, Pollination phenomena explains plant animal relationship which significant for maintenance of Ecological balances, modern techniques of Ecological balance, modern techniques of embryology helps in conservation of plant species;
	Students will be able to learn the seed and fruit formation phenomenon which helps in commercial use of seeds and fruits.
PAPER II:	The objective of this course is to develop understanding about our environmental structure function conservation and its utilization;
PLANT ECOLOGY BIODIVERSITY PHYTOGEOGRAPHY	Students will be able to understand the structure of various ecosystem on the earth;
	Knowledge about ecological factors will be helpful to understand the pollution status and its control;
	The above knowledge makes students competent in the field of Pollution Control department. Environmental Protection Agencies;
	Students will be able to understand the biodiversity, plant animal relationship and



their role in ecological balance;

- They will be able to understand the pattern of vegetation in India and its significance for human society;
- They will be able to utilize the knowledge in the field of Eco Commercial development of our country.

YEAR-III

YEAR-III	
PAPER I:	On completion of this course the students will be able to:
PLANT PHYSIOLOGY AND BIOCHEMISTRY	Understand water relation of plants with respect to various physiological processes;
	 Explain role of plant nutrition;
	Recognize the functional importance of biomolecules in plants, their structure and classification;
	Interpret the biological nitrogen fixation, nitrogen and lipid metabolism;
	 Explain the significance of photosynthesis and respiration;
	Understand the utility of enzymes and hormones in plant life.
PAPER II:	On completion of this course the students will be able to:
CELL BIOLOGY, GENETICS AND BIOTECHNOLOGY	 Identify the concept that explains the structure and function of cellwall, membrane and different cell organells;
	Understand the chromosomal organization and its details and about the cell division process;
	Comprehend the effect of chromosomal abnormalities in numerical as well as structural changes leading to genetic disorders;
	Have conceptual understanding Mandelism and law of inheritance, gentic basis of alleles;
	 Explain the concept of gene and transfer of genetic information; Understand the concept of plant breeding and its significance;
	Understand the core concepts and fundamentals of plant biotechnology and genetic engineering;
	Develop their competency on plant tissue culture;
	Refect upon various tools and techniques of recombinant DNA technology & DNA finger printing;
	Develop skills in data interpretation through Biostatistical methods.



B.Sc (Biotechnology) Programme specific outcomes

Programme specific outcomes (PSOs) - The successful completion of a Bachelor's degree in Biotechnology would enable students to-

- Think critically, analyze and solve problems within the scope of UG Biotechnology. The skill and the proficiency thus acquired to solve industry related problems would help students to lead a successful career in industry and research institutes;
- Understand the need and impact of biotechnological solutions on environment and societal context, keeping in view the need for sustainable solutions;
- **PLO 3** Be equipped with practical skills and the ability to apply their theoretical concepts to design, perform experiments, analyze and interpret data and thus develop proficiency in laboratory management;
- **PLO 4** Incline towards research through the compulsory internship in industry/research/academic institutes which promote and inculcate professional ethics and code of practice among students, enabling them to work in a team with a multidisciplinary approach.

Course Outcomes

Course Objective :- The Main Objective of the course will be to build the basic foundation for studying Biotechnology. The Demand For Trained workforce in Biotechnology is ever growing in Fundamental Research and Industry Sector. Academic and Research Sectors also Require Interdisciplinary trained manpower to foster the Biotechnology Revolution. The restructured syllabus combines basic principles of Chemical and Biological sciences in light of advancements in technology. The curriculum aims to impart basic knowledge with emphasis on its applications to make the students ready for industries and research work in concerned field.

Year I

Paper I :	At the end of the paper a student should be able to:
Cell Biology and Biochemistry	Understand basics of cell biology
	 Appreciate the importance of bonding and spatial arrangements of molecules for proper functioning and stability
	Understand both the physical as well as chemical properties or biomolecules
	The student could pursue a career in biochemical testing. The decrease of increase in the amount of some of the biomolecules can have clinical significance.
	Students can also go in for medical Laboratory Technique Courses. Opening opportunities in hospital and pathological laboratories.



Paper II :	CourseLearning Outcome :- At the end of the Course student will
i uper ii i	
Mignobiology and	familiar with -
Microbiology and	
Immounology	Microbial diversity and nutrition.
	Immune system, its properties and types
	Immunoglobulin structure, types and functions and can apply the
	concept of hypersensitivity and vaccination for different diseases.
	Perform various immunological techniques
Practical: I	At the end of the paper a student should be able to:
r lacucal: l	At the end of the paper a student should be able to:
Labwork for Cell Biology and	Understand basic techniques of cell biology
Biochemistry	
	Know the physical as well as chemical properties of biomolecules
	Pursue a career in biochemical testin. The decrease of increase in
	the amount of some of the biomolecules can have clinical
	signicance.
	Take medical Laboratory Technique Courses, opening
	opportunities in hospitals and pathological laboratories.
Paper II:	At the end of the Course student will familiar with -
Microbiology and Immunology	
Microbiology and minimunology	Microbial diversity and nutrition.
	Immune system, its properties and types
	Immunoglobulin structure, types and functions and can apply the
	concept of hypersensitivity and vaccination for different diseases.
	Perform various immunological techniques.
Year II	
Paper I : Biophysics and	Studente learn basic principles of thermodynamics and
Biochemistry	Students learn basic principles of thermodynamics and biophysical methods;
-	biophysical methods;
	> They acquire a fairly broad knowledge of biochemistry as
	applicable to biotechnology;
	They gain basic knowledge of various biomolecules including
	DNA, RNA, Proteins and enzymes.
Paper II :	
Bioinstrumentation ,	Students understand principles and applications of basic
_ ,	instruments including computer;
	74



Biostatistics and	They also acquire theoretical and applied knowledge of principles
Bioinformatics	and applications of statistics ;
	They do get familiarity with various biological databases and learn to Access them and their applications.
Year III	
Paper I : Molecular Biology & Genetic engineering	The students learn to explain genome organization of prokaryotes and eukaryotes;
	They understand the mechanisms by which genetic materials maintain them and perform genetical functions;
	They acquire knowledge of principles of general and molecular genetics;
	They understand the steps involved in recombinant DNA technology;
Paper II : Applied Biotechnology	The students learn to explain genome organization of prokaryotes and eukaryotes;
	They understand the mechanisms by which genetic materials maintain them and perform genetical functions;
	They acquire knowledge of principles of general and molecular genetics;
	They understand the steps involved in recombinant DNA technology;



B.Sc. (Chemistry)- Program Specific Outcomes

- Students will be able to demonstrate and apply the fundamental knowledge of basic principles in various fields of chemistry.
- They can create awareness and sense of responsibilities towards environment and apply knowledge to solve the issues related to environmental pollution.
- Students will be able to build up small-scale industries for developing endogenous product.
- Students will be able to apply various aspects of chemistry of natural products' isolations, like: pharmaceuticals, dyes, textiles, polymers, petroleum products, forensic etc. and also develop interdisciplinary approaches.
- They will be able to develop their critical reasoning, judgement & communication skills.
- Students will be able to augment the recent developments in field of green and eco-friendly reactions, pharmaceuticals, bioinorganic chemistry and relevant fields of research and development.
- They will be able to enhance scientific temper among students so as to develop a research culture and implementation of policies to tackle burning issues at global and local levels.

COURSE OUTCOMES

YEAR – I

PAPER (I) : PHYSICAL CHEMISTRY	The objective of this course is to provide exposure tostudents on mathematical concepts, state of compounds,chemical kinetics, radioactivity, nuclear chemistry
	andchemical equilibrium.
	Students will be able to evaluate differentiation, integration, logarithmic relation curves, sketching maxima and minima.
	Students will be able to compare critical constants and van der constants and critical phenomenon.
	Students will be able to discuss the classification, structure of pneumatic and cholesteric phases.
	Students will be able to demonstrate the laws of symmetry, ionic solid structure, limitations of radius rule & lattice defects.
	Students will be able to analyse chemical kinetics and its scope.
	 Students will be able to explain zero order reaction, first order reaction, effect of temperature on rate of reaction, Arrhenius equation & collision theory.



- > They will be able to discuss natural and artificial radioactivity-detection and measurement.
- Student will be able to identify isotopes, isobar and application of radiochemistry.
- They will be able to explain law of mass action, equilibrium constant, Hardy-Schulze rule, gold numbers and application of colloids.
- Student will be able to discuss coagulation, emulsion gels and sols.

PAPER (II) : INORGANIC CHEMISTRY

The objective of this course is to provide information about atomic structure, periodic properties, chemical bonding, chemistry of noble gases, s-block and p-block elements, dual nature of matter, De-Broglie matter waves, Heisenberg uncertainty principle, atomicorbitals, Schrodinger wave equation, quantum numbers, Aufbau and Pauli exclusion principles and Hund's multiplicity rule.

- Student will be able to discuss ionization energy, electron affinity, application in predicting and explaining the chemical behaviour.
- They will be able to explain covalent bond valence theory VSEPR theory bond strength, bond energy and various types of hydrogen.
- Student will be able to outline the solid ionic structure limitation of radius ratio rule, Fajan's rule, metallic bond, free electron, valence bond and bond theories.
- > They will be able to discuss chemical properties of noble gases.
- Student will be able to explain diagonal relationship, features of hydrides and introduction of alkyls and aryls.
- > They will be able to analyse allied of group 13-16 and 13-17 elements.
- Student will be able to explain hydrides of Boron, di-Boron, and higher Borons, Fluoro-carbon, Silicates, Interhalogens.



PAPER (III) : ORGANIC CHEMISTRY	 The objective of this course is to provide exposure to students on structure and bonding, mechanism of organic reaction, alkanes, cycloalkanes, alkenes, dienes, alkynes, alkyl halides and stereochemistry of organic compounds. Student will be able to discuss hybridization, bond angles, delocalised chemical bond, inclusion compounds, clatherates, charge transfercomplexes, hyperconjugation, electrometric, mesomeric and steric effect. Students will be able to demonstrate reactive intermediates, carbocations, free radicals, carbenes & carbanions. They will be able to evaluate the types of organic reaction, homolytic and heterolytic bond fission. Student will be able to explain nomenclature, formation, isomerism, Kolbe reaction, Bayer strain theory Saytzeff rule, electrophilic and free radical additions, Mankownikoff's rule, epoxidation & ozonolysis. They will be able to demonstrate the nomenclature and classification of dienes, structure of allenes and butadiene. Student will be able to analyse mechanism of nucleophilic substitution of alkyl halides, methods of preparation, properties of chloroform and carbon tetrachloride. They will be able to identify optical isomerism, molecular chirality, a enantiomers & stereogenic centre. Students will be able to outline the E and Z system of nomenclature, geometrical isomerism of oximes and alicyclic compounds.
	 compounds, inversion, retention and racemization.
YEAR – II	
PAPER (I) : PHYSICAL CHEMISTRY	 The objective of this course is to provide exposure to students on thermodynamics, thermo-chemistry, phase equilibrium, electrochemistry, buffers, surface chemistry & catalysis. Students will be able to explain basic concepts of thermodynamics, Carnot cycle, entropy, Gibb's function(G) and Helmholtz function(H). They will be able to evaluate the law of heat summation and enthalpy of neutralization.



	Students will be able to discuss the phase components, degree of freedom, one component system, Gibbs Phase rule.
	They will be able to apply ideal liquid mixtures, Raoult law, Henry law and ethanol water system.
	They will be able to explain immiscible liquids steam distillation, Nernst distribution law, thermodynamic derivation and its application.
	Students will be able to demonstrate electrical transport, conduction in metals and electrolyte solutions, effect of dilution on conductivity, Arrhenius theory of electrolyte dissociation & OHO theory.
	> They will be able to discuss standard hydrogen electrode & reference electrodes.
	Students will be able to explain PH and pk and glass electrode by potentiometric methods.
	They will be able to analyse the mechanism of buffer action, Henderson Hazel quation and hydrolysis of salts.
	Students will be able to discuss absorption, adsorption and their types, Langmuir adsorption and determination of surface area.
	> They will be able to predict the catalysed reaction & application of catalyst.
Paper (II): Inorganic Chemistry	The objective of this course is to provide information about chemistry of elements of first, second and third transition series, coordination compounds, chemistry of Lanthanide and actinide elements and acid and base.
	Student will be able to discuss characteristic properties of D block elements.
	> They will be able to explain properties of carbides, oxides and sulphides.
	Students will be able to identify oxidation state, magnetic behavior a spectral properties.
	They will be able to evaluate Werner coordination theory, effective atomic number concept, chelates & valence bond theory of transition metal complexes.
	Students will be able to analyse redox cycle, redox stability in water, Frost Latimer and Pourbaix diagram.
	They will be able to explain features, separation and chemistry of lanthanides and actinides.



Paper	(III): Organic
Ch	nemistry

- Students will be able to discuss Arrhenius, Bronsted Lowry Lux-Flood, solvent system and Lewis concepts of acids and bases.
- The objective of this course is to provide exposure to students on electromagnetic spectrum, alcohols, phenols, aldehydes, ketones, carbocyclic acid ether and organic compounds of nitrogen.
- Students will be able to discuss Beer Lambert law, molar absorptivity & analysis of UV spectra.
- They will be able to analyse concept of chromophore and auxochrome & bathochromic, hyperchromic and hypochromic shifts.
- Students will be able to explain IR absorption, position of IR bands, fingerprint region and interpretation of IR spectra of simple organic compounds.
- They will be able to explain monohydric alcohols, nomenclature, methods of formation, reduction of aldehydes, ketones, carboxylic acids and esters.
- Students will be able to prepare phenols, mechanism of Fries' rearrangement, Claisen rearrangement, Gattermann synthesis and Reimer-Teimer reaction.
- > They will be able to explain structure of carbonyl group.
- Students will be able to explain predict Witting and Mannich reaction.
- They will be able to explain oxidation of aldehydes, Beyer- Villiger oxidation of ketones.
- Students will be able to discuss nomenclature, structure and bonding of carboxylic acids, mechanism of decarboxylation, methods of formation and effect of heat and dehydrating agents.
- They will be able to analyse reactivity structure and nomenclature of amines & stereochemistry of amines.
- Students will be able to discuss Primary, secondary and tertiary amines.
- > They will be able to explain amine salt as phase transfer catalyst.
- Students will be able to demonstrate Gabriel- Phthalimide reaction, Hoffmanbromamide reactions & synthetic transformation of aryl diazonium salts.

YEAR – III



PAPER (I): INORGANIC CHEMISTRY	The objective of this course is to provide exposure to students on HSAB theories, metal ligand bonding in transition metal complexes, magnetic properties, organometallic chemistry, bioinorganic chemistry, silicon and phosphazenes.
	Students will be able to discuss Pearson's HSAB concept, symbiosis basis of hardness and softness.
	> They will be able to analyse metal ligand bonding in transition metal complex.
	Students will able to explain magnetic properties of transition metal complex.
	> They will be able to demonstrate Kinetic aspects of metal complex.
	Students will be able to discuss organometallic compounds of Li, Al, Hg, Sn.
	➤ They will be able to explain role of essential and trace elements in biological processes and biological role of alkali and alkaline earth metal ions with special reference to Ca2+ and nitrogen fixation.
	Students will be able to analyse silicones and phosphazenes as example of inorganic polymers and nature of bonding in triphosphazenes.
PAPER (II): ORGANIC CHEMISTRY	The objective of this course is to provide information about spectroscopy, organo sulphur, heterocyclic compounds, carbohydrates, amino acids, peptides, proteins and nucleic acids, fats, oils and detergents, synthetic polymers and synthetic dyes
	Students will be able to discuss NMR spectroscopy, shielding and deshielding effect, chemical shift and interpretation of PMR spectra of simple organic molecules.
	They will be able to explain formation and chemical reactions of organozinc and organolithium compounds.
	Students will be able to analyse the molecular orbital picture and aromatic characteristics of pyrrole, furon, thiophene and pyridine.
	They will be able to explain five and six membered heterocycles& Bischler- Napieralski synthesis.
	Students will be able to discuss classification and nomenclature of carbohydrates glucose & fructose.
	They will be able to explain erythro, threo diastereomers and structure of ribose and deoxyribose.



	Students will be able to design the structure of acid base behaviour of amino acids, peptides, proteins.
	> They will be able to evaluate isoelectric point and electrophoresis.
	Students will be able to demonstrate natural fats, edible and industrial oil of vegetable origin.
	They will be able to discuss saponification value, Iodine value & hydrogenation of unsaturated oils.
	Students will be able to explain addition or chain growth polymerization, Ziegler- Natta polymerization and vinyl polymers.
	They will be able to discuss colour and constitution of dyes , chemistry and synthesis of methyl orange, congo red, malachite green, alizarin and indigo.
PAPER III: Physical Chemistry	The objective of this course is to provide exposure to students on elementary quantum mechanics, rotational spectrum, vibrational spectrum, electronic spectrum, photochemistry, physical properties and molecular structure.
	Students will be able to discuss black body radiation, Planck's radiation law, photoelectric effect, heat capacity of solids & Bohr's model of hydrogen atom.
	They will be able to evaluate De-Broglie hypothesis, sinusoidal wave equation, Hamiltonian operator & Schrodinger wave equation.
	Students will be able to discuss postulates of quantum mechanics & particle in a one-dimensional box.
	They will be able to evaluate the energy levels from wave function and calculate coefficient of AO used in hybrid orbitals.
	Students will be able to compare M.O and V.B models.
	Students will be able to explain physical picture of bonding and antibonding wave function.
	> They will be able to evaluate energy level of rigid rotation.
	Students will be able to discuss Maxwell Boltzmann distribution, spectral intensity and isotope effect.
	They will be able to explain energy levels of simple harmonic oscillator, determination of force constants effect of a harmonic motion.
	Students will be able to analyse Franck Condon principle & Raman spectra of diatomic molecules.



- They will be able to outline the Jablonski diagram and photosensitized reactionenergy transfer process.
- Students will be able to discuss Grotthus-Draper law, Stark- Einstein law, fluorescence, phosphorescence & non- radioactive process.
- They will be able to explain optical activity, dipole moment, magnetic properties paramagnetism, diamagnetism and ferromagnetism.
- Students will be able to analyse the concept of polarizability and pure rotational Raman spectra of diatomic molecules.



B.Sc. (Mathematics)- Program Specific Outcome

- Students will be able to identify, analyze and solve the problems.
- Students can get the jobs in school education, Banking sector, Insurance sector, Data operator, Railways staff selection, RRB, Defence services, Post office services.
- They can persue Higher Education (M.Sc. Mathematics)
- Students will be able to interpret Data and they understand the wider use of mathematics to solve the pendamic situation like COVID-19

COURSE OUTCOMES

YEAR-I

Paper : I	The Course will enable the Students to-
Algebra, Vector Analysis and Geometry	Recognize Consistent and Inconsistent systems of linear equations by the row echelon form of the Augmented Matrix using the rank of matrix
	To find the Eigen values and corresponding Eigen vectors for a square matrix
	Using the knowledge of vector calculus in geometry.
	Enhance the knowledge of three dimensional geometrical figures (eg. Cone and cylinder).
Paper : II	The course will enable the students to-
Calculus and Differential Equations	Sketch curves in a plane using its Mathematical properties in the different coordinate systems of reference.
	Using the derivatives in Optimization social sciences, Physics and Life sciences etc.
	Formulate the differential Equation for various Mathematical models.
Paper : elective I Matrices, Geometry and Vector Algebra	Student will be able to use the Matrices, Determinants, Geometry and Vector approach in different areas of business and science like Budgeting, Sales projection, cost estimation, alalysing the result of an Experiment etc.
Paper elective 2	At the end of this course, the Students will be able to;
	Using the Principles of logic to distinguish between sound and unsound reasoning in discourse of every body.



	Construct truth tables for logical expressions, test statements for logical equivalence and represent Mathematical statements in the language of predicate language.
	Using the appropriate set theoretic concepts thinking process, tools and techniques in the solution to various conceptual or real-world problems.
YEAR-II	
Paper : I Abstract Algebra	The objective of this course is to help all the students to develop a positive attitude.
Mathematics	Group theory and applications of Group, Subgroups, Cyclic groups and its properties.
	Have a deeper understanding of Lagrange's theorem Fermal's theorem. Normal subgroups and Quotient groups.
	Have a solid knowledge of Homomorpism, Isomorphism of groups, Fundamental theorem of homomorphism, Caley's theorem.
	Students will be enable to developing important skills in problem solving techniques of Rings, Subrings, Ideal, Integral domain and Field.
	Students will be enable to stimulate interest in learning of Group Automorphism, Cauchy's theorem and Conjugacy relation.
Paper : II	In this course students will be enable to :
Advanced Calculus Mathematics	Analyzing and describing the behviour of sequences, limit. Cauchy's theorem, Tests of Convergence.
	Students have a deeper understanding of Continuity, Mean value theorems and Darboux's value theorem.
	Students have a solid knowledge of partial differentiation, Euler's Taylor's theorem for function of two variables and Jacobians.
	Students will be enable to developing important skill in problem solving method of Envelops, Evolutes, Maxima and Minima, Beta and Gamma Function.
	Students will be enable to stimulate interest in learning of Double and triple integrals, volume and surface, change of order of integration.



Paper : II Differential Equations Mathematics In this course students will be enable to :

- Analyzing and describing the behavior of series solution, power series method, Bessel's, Legendre's equations and functions and their properties, Recurrence relations.
- Students have a deeper understanding of Laplace Transformation and its properties, shifting theorems, differentiation and integration of transforms.
- Students have a solid knowledge of inverse Laplace transform, convolution theorem, applications, initial value problem.
- Students will be enable to developing important skills in problem solving of second order partial differential equation, Higher order partial differential equations, homogeneous and non homogenous equations, heat equation, laplace equation and equation of vibrating string.
- Students will be enable to stimulate interest in learning of partial differential equation of Ist order, Lagrange's solution, general method, charpit's general method.

YEAR-III

Paper : I Linear Algebra and Numerical Analysis The objective of this course is to provide understanding of vector space, Quotient space, Rank-Nullity Theorem and wide aspects of Numerical Analysis in which solution of equations, Interpolation and direct methods for solving systems of linear equations have been included.

- Students will be able to define and give examples of vector spaces, subspaces, Linear span, Linear dependence and independence, Basis, Dimensions etc.
- They will have the knowledge of linear transformation, inner product spaces, Quotient spaces, Cauchy-Schwartz inequality orthogonal and orthonormal sets.
- Students will learn to find Eigen values and Eigen vectors of a matrix which is used in the study of chemical reactions and geometry.
- They will be able to solve problems by using Regula-Falsi, Secant, Newton's methods and also will be able to find Interpolation and Numerical Quadrature.
- Students would be able to solve system of linear equations by Elimination method, and ordinary differential equations by Euler's method, Runge-Kutta method, Milin-Simpson method.



Paper : II Real and Complex Analysis	The objective of this paper / course is to provide deep knowledge and understanding of Real and complex analysis.
Anarysis	Students will be able to define Riemann-Integral, Its properties, Improper Integrals, Its convergence, Fourier series, Frullani's Integra.
	They will be able to prove mean-value theorem, Schwartz's and Young's theorem. Cantor's intersection theorem, Baire's category theorem.
	Students will be able to define metric spaces, neighbourhoods, limit point, interior point, open and closed sets, uniform continuity, compactness, sequential compactness, connectedness etc.
	Students will have the knowledge of complex numbers, Analytic functions, Harmonic functions, Fixed points, cross ratio and conformal mappings.
Paper : III Discrete Mathematics (optional)	The objective of this paper is to understand the topics of Discrete mathematics in which Boolean functions, lattice and types of it are included students will be able to make graphs and circuits.
	Students will be able to define and identify various types of relations like binary relation, Inverse relation, composite and equivalence relation.
	They would be able to differentiate among various types of sets like partially and totally ordered sets and lattices like dual and bounded lattice etc.
	The students will be able to draw various graphs and circuits and would be able to find shortest paths.
	Students would be able to state various properties of tree, rooted tree, binary tree, they will be able to find Rank and Nullity of Graph.
	They would be able to write the algorithm, Kruskal's algorithm and prime algorithm



B.Sc. (Physics) Program Specific Outcome

COURSE OUTCOMES

(Paper 1) Thermodynamics and Statistical Physics	The Students would gain practical knowledge about heat and radiation by performing various experiments.
>	The students' will acquire knowledge about the different forms of distribution of subatomic particles in the system using statistical mechanics .
>	The student will be able to use various thermodyanacal instruments in daily life.
(Paper 2) Mechanics and General Properties of Matter	The course would empower the students to develop the idea about the behavior of physical systems (bodies).
	It will provide the basic concepts related to the motion of all the objectives around us in daily life.
>	The students would be able to build foundation to various applied field in science and technology (specially in the field of mechanical engineering).
	The students will acquire the knowledge of basic mathematical methods to solve the various problems in physics.
	The students will be able to understand the relativistic effect and the relation between energy and mass.
	A good understanding of various non-conventional energy sources.
Energy Sources	Knowledge about non-conventional energy harvesting Technology.
>	The knowledge about the availability of non-conventional energy resources in India.
>	A good understanding of the solar energy and the appliances based on solar energy.
>	A non-conventional energy harvesting technical skill that will be helpful for employment.



Practical Mechanics and General Properties of Matter	 The Students would acquire basic practical knowledge related to mechanics through the experiments.
	Students will be familiar with various measurement devices by which they can measure various physical quantities with accuracy.
	The student will develop the concept related to the mechanics and properties of matter.
YEAR-II	
Paper I : OPTICS	On successful completion of this course students will gain knowledge on various theories of light.
	Acquire skills to identify and apply formulas of optics and wave physics.
	Understand phenomenon of Optics like- Interference in working of Interference, Diffraction, Polarisation and their application.
	> Application of interference in Working of Interferometer.
	Application of diffraction will give concept of Resolving Power of optical instruments.
	learn basic mechanism of Laser action and understand how real world. LASER operates and their types and properties.
	> Gain knowledge in Holography optical fiber and application in communication.
	Geometrical option provides basic tool in understanding optical system in image information, lens combination and aberration in optical instruments.
Paper II-: Electro statistics, Magnetostatics and Electrodynamics	This course develops concepts of electric field and scalar potential, magnetic field and vector potential. It provides Knowledge based on fundamental concepts of charge, field and their interaction with matter. Course leaming' outcome is to
	Define various electric feild in elect statistics, magneto statics, and electrodynamics.
	Explain propagation of electromagnetic wave and apply Maxwells equation to solution of problems related to wave propagation which forms base to modern PLASMA physics.
	To learn the Principle, construction and operation of important and basic electronic device CRO to measure frequency and voltage.
YEAR-III	
	89



Paper I : Quantum Mechanics and Spectroscopy	 Understand the central concept of Quantum Mechanics with the historical development, operators and Schrodinger Equation helping to decipher the inadequacies of Classical Mechanics, Spectroscopy is an integral part of the curriculum that benefits students in elucidation of structure of certain complex molecules. Understanding the properties of Nuclei, Nuclear Forces and different nuclear models would help students to interpret basic problems in Nuclear Physics.
Paper II: Solid State Physics & Electronic Devices	 A brief idea about crystalline and amorphous substances and knowledge of lattice vibrations is a part of the curriculum. The understanding of insulators, conductors and semi-conductors also helps the student to comprehend the elementary band theory. Nano materials have significant commercial impact today and their study in this paper would enrich the student in the area of nano technology.



B.Sc. (Zoology) Program Specific Outcome

COURSE OUTCOMES

YEAR-I

Paper I Animal Diversity :	Completion of the course students should be able to -
Non-Chordata	Learn about the importance of systemic, taxonomy and phylogeny to get a concrete idea of evolution of non-chordate phyla.
	Understand the various morphological, anatomical structures and functions of animals of different phyla.
	Get the knowledge about economic, ecological and medicinal significance of various animal in human welfare.
	Understand the important parasites and their control measures.
	After Completion of the course students should be able to -
Cell Biology Reproductive Biology and	Develop deeper understanding of what life is and how it functions at cellular level.
Developmental Biology	Understand the nature and basic concepts of Cell biology, Reproductive and Developmental biology.
	Understand structure and functions of cell membrane and cellular organelles.
	Understand the importance of latest reproductive trends, reproductive techniques to be applied for human welfare.
	Understand the general patterns and sequentical development stages during embryogenesis; and understand how the developmental processes lead to establishment of body plan of multi-cellular organisms.
	Understand about the evolutionary development of various animals.
SEMESTER-II	
Paper I – Vertebrate and Evolution	Imparts conceptual knowledge of Vertebrates, their adaptation and association in relation to their environment.
	 Classify phylumprotochardates to mammalia. Complex vertebrate interactions.
	Basic concepts of developmental biology.
	Gains Knowledge about comparative account of various Organsystem in all vertibrates.



and the second se	
Paper II – Animal Physiology and bio chemistry	Seeks to understand the interactions and interdependent of physiological and bio chemical processes.
	Students are taught the detailed concepts of digestion, respiration, excretion, the functioning of nerves and muscles.
	Students will gain skill to execute the roles of a biology teacher or medical lab technicians with training as they have basic fundamentals.
	Students learn the concepts of endocrine systems and homeostasis mechanism of enzymes.
YEAR-III	
Paper I Genetics	Gains Knowledge about heredity and genetic material.
	Mendalism and non non-Mendalian inheritance.
	Concept behind genetic disorder, gene mutation-various causes associated with in bornerrors of metabolism.
DeneryH	Gains Knowledge about DNA finger printing, gene cloning, gene therapy
Paper II Ecology and applied Zoology	Seeks knowledge in the areas of response to laws of limiting factors, laws of tolerance and tragedy of commons.
	Gains knowledge about population Characteristics and dynamics-conceptual approach.
	Types of ecosystems examples – fresh water, marine, terrestrial.
	Growth curves and pyramids, sigmoid, J curve & hyperbola, logistic equations & concepts relating to growth.
	Imparts knowledge to the students regarding environment & conservation biology.
	Understands concepts of fisheries, fishing tools & site selection. aqua culture & applied entomology.
	Role of insects in spread of diseases. Imparts knowledge of beneficial & non- beneficial insects.
	Gives knowledge about silk, silk worm, diseases, mulberry cultivation & various process involved in silk production also gain knowledge of lac culture, common pests.
	 Students, after completing course can help farmers for good cultivation methods. 92



Ability Enhancement Course

COURSE OUTCOMES-

Year I	
Foundation Course-1 PAPER I हिन्दी भाषा और संस्कृति	 उत्कृष्ट साहित्यिक पाठों के अध्ययन से रूचि का विकास होगा। सांस्कृतिक चेतना और राष्ट्रीय भावना का विकास होगा। भाषा ज्ञान का विकास होगा। सामान्य शब्दावली और विशेष शब्दावली के अध्ययन द्वारा भाषा एवं संस्कृति बोध का विकास होगा। विशिष्ट शब्दावली (बीज शब्द/की वर्ड) से परिचित करवाते हुए बोध के स्तर को विकसित करना। प्रतियोगी परीक्षाओं हेतु विद्यार्थियों को तैयार करना।
Foundation Course-1 PAPER II ENGLISH LANGUAGE AND INDIAN CULTURE	 Prepare for various competitive exam by developing their english language competence. Promote their comprehension skills by being exposed to a variety of texts and their vocabulary. Build the enhancement vocabulary. Develop their communication skills by strengthening grammar and usages. Inculcate values which makes them aware of national heritage and environmental issues, making them responsible citizens.
Foundation Course-2 PAPER I ENVIRONMENTAL EDUCATION	 To understand various aspects of life forms, ecological processes, and the impacts on them by the human during Anthropocene era. To build capabilities to identify relevant environmental issues, analyze the various underlying causes, evaluate the practices and policies, and develop framework to make inform decisions. To develop empathy of all life forms awareness and responsibility towards environmental protection and nature preservation. To develop the critical thinking for shaping strategies such as scientific, social, economic, administrative and legal. Environmental protection, conservation of biodiversity, environmental equity and sustainable development. To prepare for the competitive exams.



Foundation Course-2 Paper IV Yoga and Meditation	After studying this course, students will be able to take care of their own Physical Mental emotional, social and spiritual health.
ELECTIVE NCC	The students will develop a sense of responsibility and there by display sense of patriotism secular values discipline improve bearing and develop the faculty of immediate and implicit obedience of good things. This paper will enable the student to build and develop leadership through communication the significance relationship between personality traits and leadership will be achieved and executed.

Vocational Course

B.A. Year I COURSE OUTCOMES-

TOURISM,	After studying this Course, the Student will be able to
TRANSPORT AND TRAVEL SERVICES	\succ Understand the core concept of tourism, travel and transport service .
	Practically perform passport and visa formalities.
	Manage airport ground handlings.
	Independently escort the tourists group and guide these groups and individual tours also.
	> Understand and practically know the procedure and functioning of travel agency.



SAROJINI NAIDU GOVT. GIRLS POSTGRADUATE (AUTONOMOUS) COLLEGE, BHOPAL (M.P.) Programme Outcomes (PO) Programme Specific Outcome (PSO) Course Outcome (CO)

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Faculty of Arts

M.A. (Master of Arts)

Program Outcomes

- 1. The faculty of Arts offers P.G. in Drawing & Painting, Economics, English, Geography, Hindi, History, Library Science, Music, Political Science, Public Administration, Psychology, Sociology, Social work.
- 2. Students become competent teachers, psychologists, professional artists, and compete for UPSC/ State PSC exams for which they are trained & groomed by subjects like Public administration, Political Science, History, Sociology.
- 3. Study of language opens new avenues in Media, Mass communication and even to become Interpreters, Translators etc.
- 4. Students have channel to attempt for various competitive exams like NET/ SLET/ BANK/SSB, etc.
- 5. All the above-mentioned P.G. Subjects have wide range of avenues for research in diverse fields.
- 6. Provide intellectual skills necessary to develop incite for career opportunities.
- 7. Students will also develop knowledge of theoretical concepts and practical approaches.
- 8. Students will gain confidence to become entrepreneur in the areas of their interest.
- **9.** Students will get in-depth knowledge in their respective subjects, so they will explore the vast avenues available to them.

M. A. DRAWING AND PAINTING Program Specific Outcomes

- M.A.(Drawing and Painting) courses of traditional lazer where students would gain additional skills for creating art and are trained to use in a contemporary way according to the need.
- The students would learn about Indian and western schools of art.
- They learn different types of painting, crafts, printmaking and many more ideas to find the area that favours the expressive style.
- They get knowledge of varied art forms, painters and their paintings from diverse historical and contemporary contexts.

This course is designed

- > To produce professional artists ,teachers for educational institutes (schools and colleges)
- > To train the students for entrepreneurship and vocational guidance.
- > To train them get self employment, thus preparing them for financial freedom.

COURSE OUTCOMES

SEMESTER I

PAPER I : HISTORY	Students will gain knowledge of
OF INDIAN PAINTING	 The beginning and growth of art with prehistoric man's life, cultural growth and advancement to the extent of Indus valley civilization. The knowledge and description of all cave paintings from start to the highest level as of Ajanta. Ajanta is worldwide famous for its subject matter, characteristics, methods - techniques and for its beautiful designs. Indian art was live even when there was great political chaos only the mode of presentation and exhibition was changed. Necessity created miniature art. The styles developed then had their own characteristics and differences. So all styles were unique in themselves like- Pal, Jain (Apabhramsa), Mughal, Rajasthani, Pahari etc. The changes which enveloped Indian art and slowly changed it all over with influence of Britishers but without disturbing the soul of India is remarkable. The art styles of modern period artists and their contributions
	are of great importance.
PRACTICAL I : TRADITIONAL PICTORIAL COMPOSITION	Students study and learn different theories relating composition and practice their implementations. They would learn the use of different medium such as oil acrylic and mixed media. LEARNING OUTCOMES :-
	 Knowledge of various traditional and creative methods, innovative uses of different techniques for creating their own pictorial compositions in the given subjects.

	The whole process of different level practices (with different poses of figures, background and foreground, arrangements & colour combinations can help the student to become perfect in painting.
PRACTICAL II :DRAWING OF HUMAN FIGURE	 Students come to know the anatomy of human figure and learn to draw according to anatomical study. Students learn to draw different poses of human figures (male and female both) of all ages, which help them in creating their own compositions and prepare them for their next level paper i.e ' life study.' They learn to draw and paint the effect of light and shade on the human body thus learn to paint with realistic approach. LEARNING OUTCOMES :- By becoming a freelance portrait artist or composition artist can be self dependent financially.
PRACTICAL III : FOLK ART	 Knowing the life art and culture of folklore of India. Knowing about variety of folk art and learning their ways of making and use it in modern times with necessary innovations according to the needs. Complete knowledge of different folk art forms from different parts of India such as Mandana, Godna, Chitrawan, Alpana etc. LEARNING OUTCOMES :- By becoming a freelance portrait artist or composition artist can be self dependent financially.
SEMESTER II	
PAPER I : HISTORY OF EUROPEAN PAINTINGS	The students would be able to identify the artworks and understand the growth of European painting. Students would be able to know analytical and critical study of styles and trends from prehistoric to Gothic art
PRACTICAL I : PORTRAIT PAINTING	Students would gain knowledge of details of face, their features, expressions and feelings. They learn to draw and paint Portraiture of male and female (of all ages) using various mediums from crayons, dry pastels to acrylic and mix media.
PRACTICAL II : LANDSCAPE	 Students learn to observe the nature and scenery. They learn to select what to paint from the whole visible scenario. They learn to paint landscape in different mediums and styles. This field work sharpens their realistic approach and at the same time it helps strengthen their imagination so as to use the scenery for the background of a composition.

PRACTICAL III : PRINT MAKING (wood cut, linocut or available print medium) SEMESTER III	 The students would be able to get basic knowledge of printmaking. They would learn different techniques and methods used in wood cut/lino cut printmaking. By thorough practice, they master the equipments and inks used in the process.
PAPER I : CRITICISM AND PHILOSOPHY OF ARTS	 The students would know art & beauty and their relationship through philosophy. They come to know and understand all thoughts explained by the Indian and western thinkers. Through this they learn the application of art and the intricacies of it.
PAPER I OR DISSERTATION	Students come to know all the process of research work step by step from choosing the topic till the end where the student gives a presentation in front of the experts.
PRACTICAL I : COPY FROM OLD MASTERS	 Students would be able to know the works of Indian and western great masters, their style, techniques, details and main features. They would learn copying through grid making and freehand. All this learning helps them in mastering different techniques of copying to get commission work from the market
PRACTICAL II : FULL FIGURE FROM LIFE	To make the student draw and paint the human figures of all ages (male- female) with realistic approach. This helps mastering human figures with all possible poses to add them in their compositions.
PRACTICAL III : TRIBAL ART	 Students would acquire all the knowledge about various tribes of India, their life, festivals, beliefs, cultural details, their various art forms and related stories. They learn the technical details of making tribal art This knowledge helps them understand and preserve the vanishing art of our tribes through various practices such as projects, research and practical work.
SEMESTER IV	
PAPER I :MODERN PAINTING OF EUROPE	 Students would come to know the rise of isms in art, the history of modern painting and painters, the art movements in Europe. They would know the impact of this movement on the world art as a whole and specifically on Indian art scenario. Practically they inherit the methods of different modern styles and use them in their creation uniquely. This helps them in many ways in earning through art and surviving in art market prevailing in the society thus making them financially free.

PRACTICAL I : CREATIVE PORTRAIT OR PROFESSIONAL ART	 Students would learn the ways to use previously learned all techniques of realistic portraiture to convert them in to creative portraiture. This enhances their imagination power immensely. Through professional art study, the students learn the necessary skills and creative imagery to use in media, hoardings, advertising etc. This creative visualisation and developed skill will provide financial strength to the students.
PRACTICAL II :	It sharpens the imagination and the use of the knowledge gathered and skills learnt
CREATIVE	till now creatively in their own way which help to create their identity in the art
COMPOSITION	world and art market through painting.
PRACTICAL III :	This is a new westly used process in art and art market for different
	> This is a very vastly used process in art and art market for different
MURAL PAINTING	purposes.
OR SILK SCREEN	\succ Learning the process and mastering in this field the student would
PRINTING	undoubtedly be economically free.

M.A. (Economics) Program Specific Outcomes-

- To provide a well resourced learning environment for student.
- Students of economics can pursue higher studies (M.Phil., Ph.D) to attain research positions.
- The study of economics provides students a systematic framework for analyzing researching, writing and teaching about a wide array financial and regional economic issues.
- Economics enables learners to build up a professional careers as economists, financial advisors, economic planners and policy makers. It prepares them to cope up with stress and strain involved in the process of economic development.
- Students will be understand the wide potential of the subject economics and its implementation in day to day life as well as sustainable development.

SEMESTER-I

Paper I Advance Economics Analysis-I	 The objective of this course is to impart knowledge of economics as a subject and its importance in business demand and supply functions, forecasting demand, production, costs will make them aware of various operations carried in business. Students will be able to understand the demand and supply analysis in business applications. Students will be able to understand the concepts of cost, nature of production and its relationship with business operations.
Paper II Macro Economics	 The objective of this course is to understand the functioning of economy at the macro level and study how the economy is regulated through monetary and fiscal policies. Students will be able to understand the methods of calculating national income and concepts related to it. Students will be able to associate the current economic phenomenon with existing theory and put their views on contemporary economic issues. Students will be able to understand factors determining national income such as consumption, saving and investment. Students will be able to analyse the income determination through classical and Keynesian economics.
Paper III Public Economics	 The objective of this course is to study the role of govt. and the different ways in which govt. policies affect the economy. it develops an analytical framework that facilitates the evolution of public policy. Student will be able to analyse the implications of countries stock of public debt Students will be able to explain the principles of optimal taxation.
Paper IV Quantitative Technique	The objective of this course is to demonstrate sound knowledge of fundamental of statistics and statistical techniques of the students.

 Students will be able to understand various quantitative & statistical methods. Students will be able to calculate and interpret statistical values by using statistical tool (correlation & regression) for research purpose. Students will be able to demonstrate an ability to apply various statistical tools to solve business problems.
 Objective of this course is to impart the knowledge of various market structures and different pricing techniques. It will help the students to understand day to day business decision taken by different firms in social and ethical manner keeping in mind the consumer behaviour. The students will be able to apply marginal analysis to the firm under different market conditions. The students will be able to analyse the causes and consequences of different market conditions. The students will be able to integrate the concept of price and output decision of firms under various market structure
 The objective of this course is to study the role played by bank in modern monetary economies and financial markets. Students will have the knowledge and skills to understand several key models and concepts of monetary economics and banking theory/system. Students will be able to understand the monetary transmission mechanism whereby decisions made by the monetary authorities concerning money supplies or interest rates can have real effects on the economy.
The objective of this course is to provide knowledge of some basic
 Students will understand the basic concepts of descriptive and inferential statistics It will help students to understand the term population, sample and describe the steps involved in the process of sampling. Students will be able to select and define appropriate research problems and parameters. Students will be able to write research report and thesis
 The objective of this course to provide a critical overview of theoretical empirical and policy issues relating to international economics. Students will be able to get acquainted with economics concepts and models of International trade. Students will become aware about international trade blocks and their importance. Students will be have the knowledge of foreign payments balance

	Students will gain the knowledge of the relationship between international economics and economic development.
SEMESTER-III	
Paper I History of Economics Thoughts	 The objective of exposing students to the history of economic thought is to develop their ability to critically assess the strengths and weaknesses of economic ideas, both in the past and in the present. ➤ The study of Economic Thoughts will helps the students to understand the origin of economics ➤ Study will help students to provide a broad basis for comparison of different ideas. ➤ It will enable students to have a well-balanced and reasonable judgement.
Paper II India's Foreign Trade & International Institution	 The objective of this course is to clarify the conceptual background of foreign trade and explain the significance and benefits of global business operations. Student will be able to integrate international business concepts with functioning of global trade. Students will be able to apply suitable Trade method to manage foreign trade in India. Students will be able to have the knowledge about exchange rate which is determined and trade takes places on the basis of exchange rate. Students will be able to aware of the changes in the composition as well as direction of foreign trade after international trade and know the causes and effects of deficits in the balance of payments measures adopted to correct the deficit and identify the need for having trade reforms.
Paper III Labour Economics	 The course aims to provide the students with a solid introduction to labour economics, specially with respect to the employment relationship and investment in human capital. The course makes students aware of different theories on labour and employment from the point of view of economic research It provides a detailed analysis on the latest development of labour market in developing countries with reference to India Students will be able to describe key features of labour market, analyse models of the labour market.
Paper – IV Industrial Economics	 Objective of this course is to give wide outlook of the economic analysis of industry and attempts to provide satisfactory explanations of the ways in which economic forces operate within the industrial sector. ➢ Students will be able to trace beginning and development of industrial economics. ➢ Gives knowledge to the student about firms, industries and market.

	Imparts awareness in learners about the analysis of different market structure and their implications on economic welfare.
SEMESTER-IV	market su ucture and then implications on economic wenare.
Paper I Economics of Growth & Development	 Objective of this course is to introduce students to the theories, challenges and policies of development economics and to develop their ability to apply the theories to explain real world cases. Students will be able to apply an analytical framework to understand the important structural characteristics of development. Students will be able to discuss the important models and theories in economic development and their policy implications.
Paper II Indian Economic Policy & Issues	 The objective of this course is to equip the students with the theoretical, empirical and policy issues relating to the society, policy and economy of India. It will result in comprehensive understanding of Indian Economy Student will be able to develop ideas of the basic characteristics of Indian economy, its potential on natural resources. Students will be able to understand the importance causes and impact of population growth and its distribution translate and relate them with economic development. Students will be able to identify and analyze current issues. Students will be able to understand the International trade and to examine the impact of the trade policies on the dynamic gains
Paper III Agricultural Economics	 Objective of the study is to provide details views of the process of agricultural development in the country since independence Students will be able to understand the issues and challenges faced by agricultural sector in India Student will be able to acquire knowledge and analytical skill in addressing the issue of agricultural marketing. Student will learn about the rich natural endowments to achieve sustainable agricultural development Students will be able to learn causes of regional variations in productivity and production, social and economic inequality size of land holdings and lack of quality inputs etc and suggest appropriate measures for the whole economy
Paper – IV Demography	 Objective of the study is to make the students aware of the importance of population in economic development and the various theories related to growth of population in a country :- Students will be able to understand the quantitative and qualitative aspects and characteristics of the population through various demographic techniques. The students will be able to produce population projections and interpret the information gathered by the different demographic methods. Students will be able to recognize and analyse typical demographic patterns arising from the data.

M.A. (ENGLISH LITERATURE) Program Specific Outcomes-

The course is planned -

- > To equip students with linguistic skills and nuances of literature
- > To empower them with critical thinking
- To understand analyse and evaluate cultures, trends and wisdom of people of different societies in different ages.
- > To promote career readiness in students
- > Media, journalism and publishing are some job options for PG in English.
- Students can make their career in Teaching and Academic sector.
- Advertising, Marketing and PRs can also be a fruitful career option for the scholars of PG in English.
- Students can also opt for becoming Translators, Interpreters, Digital Copywriters and Content writers.

COURSE OUTCOMES

M.A. PREVIOUS

Paper I - Poetry	 Poetry enables the students to develop and understanding of rhyme, rhythm, metre prosody through various themes. It enriches their language skills. Translation in literature helps them to get acquainted with world literature, literature through the ages Skill of self expression is enhanced.
Paper II - Drama	 Helps students understand main ideas and details in different kinds of dramatic scripts. Improve listening skills and prepare students further to face competitive challenges. It improves the comprehensions skills of students. It also provides impetus open classroom discussion.
Paper III - Fiction	 Fiction creates a sense of curiosity in budding scholars It widens their horizons of learning and understanding of human relationship. It helps students to inculcate the art of moralizing and idealizing the heroes.
Paper IV - Prose	 Students learn to read with correct pronunciation, stress, intonation and articulation. It enriches their active and passive vocabulary. It helps to develop their imagination. It also prepares the students for world citizenship. Students are acquainted with practical wisdom.
M.A. FINAL	
Paper I - Critical Theory	 It is an approach to the study of literature. It develops an analytical approach on how to study and appreciate literature It also develops an analytical approach towards socio-political structure of society.
Paper II - English	Linguistics enhances speech skills and pronunciation of students

Language	 It is an approach to scientific study of language. It enhances language skills in the scholars. It helps students with language skills in the context of global scenario.
Paper III - Indian Writing in English	 It helps students acquaint with post colonial and partition literature. It helps to trace the development of Indian Literature in English. To apprise students of Indian Ethos
Paper IV - American Literature	 It helps to acquaint learners with global literature. It enables students to comprehend literary, societal, cultural, biographical and historical background of writings that constitute American Literature.

M.A. (Geography) Program Specific Outcomes-

- Understand the position of geography among the earth sciences and its importance and interrelationship.
- Have in-depth knowledge in Physical Geography particularly formation of land form and its association, processes, world distribution of flora and fauna and their factors , Marine resources etc.
- Acquire knowledge on elements & factors of climate and its influence on humankind in a global prospective.
- Assess man-nature relationship and resource management
- Acquire knowledge of physical environment and its role in managing biodiversity along with human impact on different environments. Environmental Impact Assessment.
- Handle population data including estimation of population growth, population policies.
- Handle statistical data and their interpretation
- Prepare maps of different themes
- Earn knowledge on recent space technology including interpretation of satellite imagery aerial Photographs, GIS and GPS.
- Acquire expertise in survey work by using Plane Table, Prismatic Compass Dumpty level and Theodolite and subsequently able to prepare map on local level for the planning.

COURSE OUTCOMES

SEMESTER-I

Paper I Geomorphology	 Learning Outcomes: After the completion of course, the students will have ability to: Understand the functioning of Earth systems in real time and analyze how the natural and anthropogenic operating factors affects the development of landforms Distinguish between the mechanisms that control these processes Assess the roles of structure, stage and time in shaping the landforms, interpret geomorphologic maps and apply the knowledge in geographical research.
Paper II Economic	Learning Outcome: After the completion of course, the students will have
Geography	ability to:
acography	 Distinguish different types of economic activities and their utilities.
	 Appreciate the factors responsible for the location and distribution of
	activities.
	Examine the significance and relevance of theories in relation to the location of different economic activities.
Paper III Geography of	Learning outcomes: After the completion of course, the students will have
India Physical and	ability to:
Resources	Understand the physical profile of the country
	> Study the resource endowment and its spatial distribution and
	utilization for sustainable development
	Synthesize and develop the idea of regional dimensions.
Paper IV History of	Learning Outcome: After the completion of course, the students will have
Geography thought	ability to:

	 Distinguish the paradigms in geography discipline through time Understand the geographical thinking in different regions of world Appreciate the past and future trends of world geography in general and Indian geography in particular
Paper V Field Techniques, Surveying and Research Methods (Practical)	 Learning Outcome: After the completion of course, the students will have ability to: Conduct proper field work for the collection of primary data to bring out grassroots realities. Make use of proper tools and surveying methods for measurement in context of collection and processing of data. Prepare a report based on field data.
SEMESTER-II	
Paper I Climatology	 Learning Outcomes: After the completion of course, the students will have ability to: Understand the elements of weather and climate and its impacts at different scales. Comprehend the climatic aspects and its bearing on planet earth. Have sound knowledge of world climate regions.
Paper II Resource Management	 Learning Outcome: After the completion of course, the students will have ability to: Understand the dynamic interactive relationship between man and environment. Have sound understanding on distribution, utilization and proper management of natural resources at global level. Make assessment and review of planning and policies related to environment and natural resources
Paper III Geography of India	 Learning Outcome: After the completion of course, the students will have ability to: Understand the Indian agriculture and related issues and regionalization of agriculture. Appreciate the factors responsible for location and distribution of industries in India. Synthesize and develop the idea of regional dimension.
Paper IV Geography of Environment	 Learning Outcome: After the completion of course, the students will have ability to: Understand the dynamic interactive relationship between man and environment. Have sound understanding on distribution, utilization and proper management of natural resources at global level. Make assessment and review of planning and policies related to environment and natural resources
SEMESTER-III	
Paper I Oceanography	 Learning Outcomes: After the completion of course, the students will have ability to: ➤ Understand the elements of ocean and topography of ocean bottoms.

	 Understand the oceanic process.
	Study the resources stored in the oceans.
Paper II Urban	Learning Outcome: After the completion of course, the students will have
Geography	ability to:
	Understand the fundamentals and patterns of urbanization process
	Learn the functional classification of cities and Central Place Theory
	Know contemporary problems of Delhi, Mumbai, Kolkata and Chennai
Paper III Geography of	Learning Outcome: After the completion of course, the students will have
Tourism	ability to:
	> Equip with a basic understanding of nature and scope, trends and
	patterns of various types of tourisms.
	> Have sound knowledge on geographical, environmental and socio-
	cultural aspects of tourism in India.
	> Apply the principles of Geo-tourism and analyse the prospects and
	problems associated with pilgrimage tourism.
Paper – IV Agricultural	Learning Outcome: After the completion of course, the students will have
Geography	ability to:
	 Conceptualize the agriculture and its determinants. Get the overview of Indian and World agriculture regions and systems.
	 Have sound knowledge of agriculture revolutions and food security
SEMESTER-IV	Trave sound knowledge of agriculture revolutions and lood security
SEMIES I EK-IV	
Paper I	Learning Outcomes: After the completion of course, the students will have
Research methodology	ability to:
in Geography	\succ Understand the basics of data collection and, processing for the
	meaningful outcomes
	> Understand the selection of proper sampling techniques for the
	collection of data
	comprehend the representation and interpretation of the result.
Paper II	Learning Outcomes: After the completion of course, the students will have
Remote sensing in GIS	ability to:
	Appreciate the strength and application of remote sensing
	Map the resources, their location and availability Another big log could dee for containable development.
	Apply this knowledge for sustainable development Have comprehensive understanding of CIS for construction of many and
	Have comprehensive understanding of GIS for construction of maps and their use in developmental planning
Paper III Geography of	their use in developmental planning. Learning Outcome: After the completion of course, the students will have
Population	ability to:
ropulation	 Learn the role of demography and population studies as a distinct fields
	of human geography
	 Have sound knowledge of key concept, different components of
	population along with its drivers
	 Examine population dynamics and characteristic with contemporary
	issues
Paper – IV Regional	Learning Outcomes: After the completion of course, the students will have
planning and	ability to:
development	> Identify notable lagging regions and solutions for their overall

	 development Have comprehensive understanding regarding the different regions and application of different models and theories for integrated regional development. Select appropriate indicators for the measurement of socio-economic regional development.
Paper – V Bio	Learning Outcome: After the completion of course, the students will have
Geography	ability to:
	Familiarize with forests and there major communities.
	> Understand the relationship between zoogeography region and their
	environment.
	Assess of different aspects of floral and faunal provinces.
Paper – VI Geography of	Learning Outcome: After the completion of course, the students will have
health	ability to:
	Understand the key concepts related to health and its driving forces
	> Identify the linkages between the health, environment, exposure and
	risk.
	Explain the relationships among health and disease pattern in environmental context with reference to climate change.
Paper – VII Geography of manufacturing	Learning Outcome: After the completion of course, the students will have ability to:
or manufacturing	> Understand the theories and models of industrial location and their
	application.
	Analyze and understand the special pattern and distribution of manufacturing industries.
	> Explain the relationship between manufacturing industries and
	industrial hazard and environmental degradation.
Paper – VIII Political	Learning Outcome: After the completion of course, the students will have
Geography	ability to:
	> Have comprehensive understand of GIS for the construction of maps
	and their use the development planning.
	Have knowledge of using GPS & DGPS for the accurate location
	> Apply the GIS science platform for the monitoring and forecasting
	analysis

M.A. Hindi Program Specific Outcomes

The college provides a Post Graduate course in Hindi Literature. The various aspects of literature like poetry, drama, prose and fiction familiarizes us with different facets of society, and encourages us to strive towards a better world. Studying Hindi literature not only introduces us to ancient Indian culture, it also broadens our perspectives and opens up various job opportunities in the field of translation. It helps us to connect spiritually with our roots.

COURSE OUTCOMES			
M.A. Previous Hindi	M.A. Previous Hindi		
Paper I Praachin evam Madhyakaleen Kavya tatha uska Itihaas	 To familiarize students with basics of ancient and medieval poetry. To provide better understanding on evolution of poetry. 		
Paper II Adhunik Hindi Gadya aur uska Itihaas	 To acquaint students with history of prose in India. To throw light on development of prose in India. To disseminate knowledge of modern Hindi prose among students. 		
Paper III Bhartiya evam Paashchatya Kavyashastra	 To develop analytical skills on comparative studies. To accustom the students with literature around the world. To help students understand the commonalities of world literature. 		
Paper IV Prayojanmoolak Hindi	 To introduce students to various job opportunities in Hindi sector. To acquaint students with self-employment opportunities. To familiarize students with applications of language in contemporary times. 		
M.A. Final Hindi			
Paper I Adhunik Hindi Kavya aur uska Itihaas physiology & endocrinology	 To trace history and evolution of contemporary Hindi poetry. To throw light on contemporary Hindi poetry. To elucidate on the socio-political relevance of poetry. 		
Paper II Bhasha Vigyan evam Hindi Bhasha	 To explain the technical aspects of language. To trace the development of Hindi language. To make students familiar with the technicalities of Hindi language. 		
Paper III Hindi Sahitya ka Itihaas	 To trace the roots of Hindi literature. To explain development and growth of Hindi literature. To derive contemporary implications of Hindi literature. 		
Paper IV Surdas	 To introduce students to Bhakti movement. To acquaint students with writing styles of Surdas. To throw light on the contemporary appeal of the poet. 		

M.A.I (History) Program Specific Outcomes

Being a subject of social science, history has its own value in society and human life. It helps the students to develop their ethical and social value. They could gather knowledge about the heritage and tradition of their own country and the others. There is huge potentiality in future of a history student. Various options are opened to history students to choose their career. First of all, history is a subject from primary education level to higher study, so they can engage themselves in teaching profession in primary, secondary and post-secondary schools. History is also helpful for those who are preparing for WBCS and SSC. A history student may choose his or her career in journalism or any other editorial board. They may get job in museum, archives and libraries. Beside those, in the field of research and archaeology they may proceed.

COURSE OUTCOMES

SEMESTER-I

Paper I Historiography, Historical Concepts, Methods and Tools	 Students will be able to identify and describe the continues and stakes off conversations among historians within define historiographical fields. Students will learn to apply historical methods to evaluate critically the record of the past end how historians and others have interpreted it. Students will acquire basic historical research skills including appropriate and effective use of libraries archives and databases. Students will learn to organise and express their thoughts clearly and coherently both in writing and orally. Student should demonstrate their mastery of the knowledge and skills involved in historical practice by conceptualizing and executing a significant piece of original research.
Paper II Twentieth Century World	 Students will understand the relation between modernity and nationalism and its implications. Students will understand the process of colonialism in different parts of the world. students will understand the problems of contemporary world in the light of its background history. Students will understand the necessity of Universal Brotherhood.
Paper III – History of India (1757- 1857 A.D.)	 Students will develop a holistic critical understanding of the social, economic, political, military and cultural conditions prevalent in India (1757-1857). The course will enable the students to understand the evolution of British policy in India with reference to the key concepts of modern Indian colonial history like Colonialism, Indology, Paramountcy, Orientalism and Utilitarianism. While examining the Indian responses to the establishment of British power in India the students will learn more about the central concerns of social reform initiatives, popular protest, military organization and education.
Paper IV History of India (1858-1975 A.D.)	 Students understood the Socio-economic, cultural and Political background of Modern India. Students have understood process of rise of Modern India.

	 Students have understood the process of healthy Nationalism and Secularism by studying work of social reformer and freedom fighters. Students became familiar with makers of Modern India.
Paper V – Freedom Movement in Madhya Pradesh (1857-1947 A.D.)	 The Early history of Madhya Pradesh. They would also be able to know the different dynasties ruled in Madhya Pradesh. They would learn about the national movements in Madhya Pradesh. They would have a comprehensive knowledge of the administration changes in Madhya Pradesh through nineteenth century. It will help to understand the history of Madhya Pradesh which became important in the course of history.
Paper VI – World History (18th & 19th Centuries)	 The Students will learn about the theory and practice of ultra-nationalism as a phenomenon produced by modern European history. The Students will learn about the connections between Feudalism, Capitalism, Socialism, Racism, Colonialism and Ultra-Nationalism. They will also learn about generic Fascism and country specific ultra-nationalism in relation to cultural comparisons across the countries chosen. One important outcome of the course will be a greater understanding of the cause and effect relationship between ultra-nationalism after the first World-War. Finally, the students will be able to understand the ideological and historical connections between the currents of World History in the period 1919-1945 and the contemporary post World War.
Paper VII – History of Architecture of India	 Students will be able to understand architectures in their religious regional and stylistic context. Students will be able to understand the importance of sources for the study of ancient Indian historical architecture. Students will learn the fundamental knowledge of free and protohistoric culture. They will understand the various aspects of Harappan culture. They will understand the cultural achievements of Sungas and Sathavahanas. They will also understand the cultural development during the 3rd century BC to 12th century A.D.
Paper VIII– Historical Application in Tourism	 Specify the commonly understood definitions of tourism and tourist. Define hospitality. Gain knowledge about the origins of the tourism industry. Provide an overview of the economic, social, and environmental impacts of tourism worldwide. Understand the history of tourism development in India. Analyse the value of tourism in India.

M.A. (Music Vocal) Program Specific Outcomes

Vocal music is one of the most popular subjects of all times in which students can plan and apply their knowledge to create job opportunity for themselves.

The field of vocal music has vast applications in society from music therapy to create self employment to demonstrate technical skills.

COURSE OUTCOMES

SEMESTER-I

- The objective of this course is to impart very basic knowledge of Ragas so that students can assess and analyze their skills in this performing art.
- > Then a deep study is made to apply the skills learned to demonstrate this art.
- > A systematic study is then imported to prepare compositions and create new songs.

SEMESTER- II

- The objectives of this course is to acquaint students about our ancient times. They can utilize this knowledge to explain the rich traditions of Indian classical music.
- By utilizing the skill & knowledge earned the students will be benefited to identify career prospects in future.
- By comparing different music styles students can analyze and compile the similarities of Indian and western music hence broadning their knowledge.

SEMESTER-III

- > The objective of this course is to prepare students about minute details of Raags & Taals so that they can plan and design new compositions.
- > The vast applications of Vocal music in folk, classical, popular light classical etc. opens vast opportunities for students to plan their career and utilize their knowledge for self employment.
- By knowing about ancient history of Indian classical music the cultural heritage will be conserved by compiling the literature.

SEMESTER-IV

- The aim of this course is to enable students to demonstrate their learning's, utilize it to generate & create self-employment.
- Since this is a performing art so students are trained to learn skills, analyze themselves, apply it to perform and assess the final outcome is performances.
- Music brings an overall change in personality of a student. The courses are so designed that students evaluate their capabilities, utilize the knowledge earned to demonstrate it and assess themselves identify their shortcomings, plan for future and hence become a complete arson as a whole.

M.A. (Political Science) Program Specific Outcomes

- Students will gain an in depth holistic knowledge of the subject.
- They will be able to understand the political affairs at regional, national and international levels.
- Students will be groomed for undertaking advance research and register for a Ph.D. degree.
- A base would be prepared for those who want to take competitive exams.
- There are ample opportunities in the field of academics at school and higher education levels.
- Students can get job opportunities in the field of journalism, administrative services , NGOs and voluntary organisations, international organisations, embassies and consulates.
- After gaining knowledge of constitution and regional ,state and national politics , students can participate better in active politics consequently holding different political posts at various levels of the nation .

COURSE OUTCOMES

SEM	EST	'ER-	Ι	

Paper I- Modern Indian Political Thought:	 The objective of this paper is to give in-depth knowledge to the students about thought and views of Indian political thinkers. They will learn to appreciate the richness of Indian political thought and the social, political, moral values imparted through it. The students will also learn about the contribution of these thinkers in bringing about social reforms and ethics. A spirit of nationalism is inculcated in the students and they are proud of their rich heritage and culture. The diversity and variety in Indian thought is brought before them. They learn about the concept of Vishwa bandhutva, Indian pattern of socialism and democracy.
Paper II- Comparative Politics:	 Comparative Politics is based on modern approaches of Political science which deal with comparative study of political institutions and activities. Outcome: By studying Comparative Politics students can be benefited as follows They get an understanding of how various political activities influence decision making and other political processes of different political systems of the world Since it is based on scientific study , it promotes the students to do scientific research on political behaviour of individuals and institutions which can ultimately lead to theory building in the subject
Paper III- International Politics and Contemporary Political Issues:	 It is the objective of this course to impart knowledge about theoretical and basic concepts of International Politics and its nuances. The purpose is that the students should know about concepts of imperialism, colonialism, and their new forms, and how they changed the fate of greater part of mankind. The students should learn about arms race, disarmament and regional cooperation. They should also learn about the issues and challenges like terrorism and environment. This course sparks the interest of students in international issues and the politics that states indulge in.

	 They learn about the why and how of international politics. They come to know the issues that threaten mankind and impact international politics and the efforts made to address them.
Paper IV- Major Ideas and Issues in Public Administration	 Objective: The objective of this course is to acquaint the students with various approaches and concepts of administration. They should know about the different perspectives adopted regarding administration. The purpose is also to teach students about bureaucracy in its characteristic forms, the challenges faced by it and its transformation to meet those challenges. > The subject matter of this course is very helpful for students who want to take civil services exams. > They acquire theoretical and practical knowledge of administration. > Students become acquainted with the theories of management and administration.
SEMESTER- II	
Paper I- Western Political Thought:	 Objective: The purpose of this course is to make the student learn about western political thought from ancient to modern thinkers. They should know about the emergence and roots of the subject and its subsequent development. The student should learn about the political thought during the medieval, renaissance and post renaissance period. They should be well versed with the views of social contractarians, utilitarians and idealists. They should understand the Marxian philosophy and its various forms. The students should be acquainted with the political philosophy of modern thinkers. The student gets a holistic perspective of political thought that developed in the west from Plato and Aristotle to Rawls and Jean-Paul Sartre. They are able to appreciate and analyse various theories like that of Justice of Plato to Social Justice of Rawls.
Paper II- Politics of South Asian Countries (Pakistan, Bangladesh, Sri Lanka, Nepal):	 Objective: The objective of this course is to provide exposure to the students on India's prominent South Asian neighbouring countries and to know about the salient features of these countries. ➢ The student will be able to have a better understanding of the political systems and the politics of these South Asian countries. ➢ They will be able to understand Indian foreign policy and diplomacy in South Asia.
Paper III- International Organisation:	 Objective: To introduce the students with the international organisations, particularly The United Nations, that gives provides a platform to all states and ensures international peace, security and development The students come to know about the League of Nations and causes of its failure. They learn about the organisation and working about the United

	 Nations and its agencies. They come to know that how disputes are settled through peaceful and forceful means. The students learn about the role of the UN as Peacekeeper and promoting disarmament.
Paper IV- Research Methodology:	 Objective: Research Methodology is an important course that promotes spirit of research in the subject. The objective is to provide a theoretical base for students who want to pursue research in the subject. > Their interest in research is generated. > The student gets well versed in the methods, approaches and tools to be adopted in social science research. > Their horizon of job opportunities is widened as they can get jobs in the field of academics and Non-governmental organizations.
SEMESTER- III	
Paper I- Indian Government and Politics	 Objective: To provide an in depth knowledge to the students about the forming of the Indian constitution and the structure of the Government. The objective is also to learn about the working of the Indian polity and the challenges confronted by it. The students come to know about the supreme law of the land. Students become worthy and law- abiding citizens of the country. They become aware of their fundamental rights and duties. It promotes national harmony and strengthens the social fabric. Awareness about the maladies confronting the nation
Paper II- State Politics in India:	 Objective: To impart knowledge about the second tier of Indian federal system, i.e. the state, its structure and working. The objective is to teach students about the institutions at the state level and the agencies working there in. They should also know about the problems confronting the states. Outcome: Students are able to understand structure and working of the state governments and appreciate the differences in various states. They come to know about the role of different staff agencies in the state. They also come to know the powers and position of the states, as determined by the constitution. Students would be motivated to enter politics and serve the people of their state. They will be inspired to undertake micro-level research in their state
Paper III- International Law:	 Objective: To introduce the students with the body of principles and rules regulating inter-state relations in times of war and peace. They should know about the rights and duties of states in the international community in order to establish global peace and respect for human rights. Outcome: Students learn the about norms and principles that govern international behaviour of states.

	 They learn about the pacific and forceful means of resolving disputes between states. Students become well versed in international law of peace and war. They get an understanding of humanitarian law and the law of the sea. With further specialization they can be employed in governmental and non-governmental international organizations
Paper IV- Indian Foreign Policy:	 Objective: To provide an insight into the Indian foreign policy from its inception to the present. The student should be able understand the areas of cooperation and hiccups in India's relations with the super powers. Emphasis is placed on understanding its relations with South-Asian neighbours over the period of time by extending a hand of cooperation for mutual good on the basis of equality and respect. Students should also know about the challenges confronting the Indian foreign policy. Student starts understanding the Indian foreign policy and the implications of diplomatic moves made by the states.
	 They come to know about the areas of cooperation and also the background of many disputes that continue to fester India's relation. Students are keen to know more about the politics and cultures of other countries. Some students are motivated to become career diplomats.
SEMESTER- IV	
Paper I- Federalism In India and Local Self Government	 Objective: It is the objective of this course to impart knowledge about various levels of Indian federal structure and strengthening of representative democracy at grass root level. They should be able to appreciate the typical nature of federalism in India and its operational parts. Outcome: > Student learns about the centre-state relations and the recommendations regarding that. > They learn about constitutional amendments that resulted in the introduction of local self- government and rural and urban levels. > It will encourage leadership among women in the local bodies and they will be motivated to give their services for the transformation of their areas.
Paper II- Government and Politics of Madhya Pradesh	 Objective: To impart knowledge about the formation and politics of Madhya Pradesh. The student should know about the various organs of government at the state level. They should be familiar with the administrative structure of Madhya Pradesh. They should be able to understand the emerging trends in state politics. ▶ The student starts understanding the politics and emerging trends of Madhya Pradesh. ▶ They understand the power of representative democracy in the state and how it can bring about welfare for the people.

	 On learning about the role of the Chief Secretary and the District Collector, the students would be inspired to join the civil services. They develop a special bonding with their state.
Paper III- Advance Political Theory	 Objective: To initiate the students into the political thought of thinkers of the twentieth century. This course helps students understand modern dynamics of political theory that is base on empirical analysis and modern approaches of the subject. Outcome: > Students will be able to apply these modern dimensions for studying the complex social environment in national and international spheres. > It provides an opportunity to do research work in new trends of political theory and modern political thinkers.
Paper IV- Diplomacy and Human Rights	 Objective: The objective of this course is to provide the students an insight about Diplomacy, which is the main instrument of international relations. Human Rights has emerged as an important branch which is relevant to all mankind therefore students should have knowledge of the international instruments of human rights. Students learn how States use various types of diplomacy to pursue their national interest. They come to know about the functions and duties of diplomats and their role in implementing foreign policy of a state. They understand the human rights ensured by the Universal Declaration of Human Rights and the variety of civil, political, social and economic rights protected by the Covenants. They could be motivated to start or work for non-governmental organisations in the field of human rights.

M.A. Psychology	
COURSE OUTCOMES	
Paper I Cognitive Psychology	 Understanding distinguishing features of information processing and knowledge development. Learning different methods to understand human mental processes, ranging from carefully controlled experimental conditions of the lab to the subjective method such as self report. Acquiring basic knowledge of core concepts in human cognition i.e., attention, memory, reasoning and decision making. Demonstrating appropriate skills essential in designing and conducting experiments in cognitive psychology. Applying the knowledge of cognitive processes to one's own personal life and to real life issues, like, improving memory, eyewitness testimony, multi-tasking etc.
Paper II Social Psychology	 Understanding the key issues and theoretical concepts such as attitude, attribution, interpersonal attraction and socialization. Developing knowledge about social issues related to prejudice, stereotypes and discrimination especially with respect to Indian context. Developing insight for reducing racial prejudice, discrimination and promoting behavior contingent to national integration. Understanding formation and structure of group. Developing understanding of the group processes, such as, social facilitation, social loafing, polarization. Acquisition of knowledge of leadership, its styles, theories and characteristics of a successful leader.
Paper III Guidance & Counseling	 Having a comprehensive understanding of the profession of counseling, particularly in the Indian context. Acquiring basic counseling skills of problem identification, and relationship building (e.g. empathy, listening, paraphrasing, unconditional positive regard). Demonstrating skills of helping clients to reduce negativity/maladaptive self-talk, and also learn skill of terminating the counseling relationship. Developing qualities of an effective counselor, such as, self-awareness, reflexivity, self-monitoring and objectivity. Helping clients having mild concerns in life; for instance, acting as peer counselors in the college/community.
Paper IV Developmental Psychology	 Demonstrating an ability to understand and distinguish major theoretical perspectives and methodological approaches in human development. Developing an ability to identify the milestones in diverse domains of human development across life stages. Understanding the contributions of genetic, environmental and

	 socio-cultural factors towards shaping human development. Acquiring an ability to decipher key developmental challenges and issues faced in adolescence, adulthood and old age. Understanding various types of personality tests including projective tests.
Paper V Clinical Psychology	 Developing a foundational knowledge of Clinical Psychology, its historical development and professional ethics. Evaluate observational, clinical, and epidemiologic research approaches in clinical research. Understanding symptoms of major mental disorder and develop insight into history taking /case study. Developing competencies for assessing the psychological functioning of individuals through techniques such as psychological assessment, observation and interview. Developing sensitivity towards individual and cultural diversity and understanding its implication in clinical work, especially within the Indian context.
Paper VI Psychopathology	 Developing familiarity with the current diagnostic systems: DSM V and International classification of Diseases (Mental Disorder section). Acquiring knowledge and skills for distinguishing normal and abnormal behavior and learn the criteria of determining abnormality. Acquiring knowledge about Anxiety Disorders, Trauma & PTSD (stress-related disorder). Understanding the major types of psychoses, personality disorders, and disorders related to alcoholism & substance abuse. Gaining an insight into various therapeutic approaches such as psychotherapy, behavior therapy, Yoga & meditation etc.
Paper VII Research method and statistics	 Understand the basics of data collection and processing for meaningful outcomes. Identify inferential statistics based on the nature of the hypothesis and variables. Apply descriptive and inferential statistics in psychological research. Demonstrate skills of data entry, editing and analysis using statistical software. Comprehend the representation and interpretation of results.
Paper VIII Measurement & Statistics	 Demonstrate knowledge in basic principles of psychological measurement and assessment. Demonstrate the steps and skills required to construct psychometric tests. Comprehend the various methods to establish reliability, validity and establish norms. Gaining knowledge about tests constructed for special population. Understand formation of questionnaire: types of questions and its applicability.

Paper IX Psychology of Personality	 Discuss the various systems and operating trends for theories: Structuralism, Functionalism, Behaviorism and Psychoanalysis. Critically evaluate different theories in the background of empirical evidence. Discuss the genetic, psychological and socio-cultural factors which shape personality. Understand the application of personality assessment in clinical practice.
Paper X Health Psychology	 Demonstrate understanding of biological, behavioral, cognitive and social determinants of health. Understand risk factors for health-compromising behaviors and applying strategies for health promotion across the lifespan. Demonstrate advanced knowledge of individual, group and community-based approaches to the prevention and management of major identifiable health conditions (both acute and chronic). Demonstrate the capacity to critically evaluate research in health psychology and use this knowledge to explain mind-body interactions. Imparting knowledge of the principles of health-care to consumers and professionals.

M.A. (PUBLIC ADMINISTRATION) Program Specific Outcomes

- The program provides a comprehensive knowledge of Public Administration as an independent subject.
- The knowledge acquired by the students about theories propounded by administrative thinkers help and prepare them into becoming able administrators.
- These administrative theories also help a student who aspires to work in the private sector in managerial capacities.
- It sensitizes the students to the conditions of the deprived and weaker sections of the society and what can be done to improve their lot.
- The program provides an exposure to the students about the administrative institutions of other developed and developing countries.

COURSE OUTCOMES

SEMESTER- I

Paper I- Administrative Thought and Principles:	 Objective: It is the objective of this course to introduce the student with the views of ancient administrative thinkers and the beginning of Public Administration as an independent discipline. Knowledge is imparted about the views of other thinkers and theorists who enunciated administrative and management theories. > The course forms a firm base for the student regarding administrative thought and management theories. > They are able to comprehend how the organisations commonly work on the basis of these thoughts. > A big chunk of the syllabi for civil services exams gets covered.
Paper II- Comparative Public Administration:	 Objective: To introduce a comparatively recent branch of Public Administration which studies the administrative features of various developed and developing states on the basis of different approaches and models. The student learns about the approaches to study comparative public administration. They are able to understand and make a comparative study of the administrative systems of U.K., U.S.A. and France They come to know the importance of accountability and control over administration.
Paper III- Public Personnel Administration:	 Objective: No administration is possible without professional and well-trained personnel. This course brings forth the evolution of bureaucracy, the various methods of recruiting the civil services and the benefits that are accorded to them. ➢ As most students of Public Administration aspire to enter into the administrative services, this course is of direct relevance to them. ➢ They learn about the importance of ethics and integrity in administration.

	They come to know about the role of civil services in contemporary administration.
Paper IV- Urban and Rural Administration:	 Objective: To impart general knowledge about the rural and urban administrative system in India. Students should learn about the organisation, working and challenges of the local bodies. They are introduced to the features of local self-government in other developed countries. > Students come to know about the rise and importance of local self-government. > They come to understand the 73rd and 74th constitutional amendments. > They start understanding the basics of urban and rural administrative bodies, their way of functioning, urbanization, problems and solutions.
SEMESTER- II	
Paper I-Theory of Public Administration:	 Objective: It is the objective of this course to introduce the students to the theories enunciated by administrative thinkers, deduced on the basis of their observation and experiences. After taking this course the student who enters government service has a fairly good idea about administrative organisation and its functions. The various theories brought forth by administrative thinkers guide and train a student into becoming an able administrator even before entering the field of administration. The theories propounded by administrative thinkers are relevant and useful in present times.
PaperII-Development-Administration:-	 Objective: The objective of this course is to introduce the students to this new approach of administration, which is development oriented. They are introduced to the development related administrative machinery in the field. The students are able to understand the difference between Development and Traditional Administration. They come to appreciate the importance of public participation in government programmes for development. The students learn about the role of women in development.
Paper III - Financial Administration:	 Objective: To provide knowledge about the importance of Budget and various types of budget. The course gives an introduction to financial administration in its entirety. The students will be able to understand the basics of budgetary process system in India. They will also be able to know the financial committees and budget making process and its execution in Britain. Students learn about the audit and accounting process in India.
Paper IV- Social	Objective: To introduce the students with the welfare nature of the state and

Administration:	 how it reaches out to the weak and needy people of the society. Purpose is to impart knowledge about the welfare mechanisms and legislative initiatives taken by the state. and role of voluntary welfare organizations in this regard. The student is sensitized to the needs of the weaker sections of the society. They are introduced to the social administration mechanism at the central and state levels. They come to know about the welfare legislations and policies of the government. They are motivated to work with welfare agencies, both governmental and non-governmental.
SEMESTER- III	
Paper I- Planning and Administration:	 Objective: The intent of this course is to make the student aware of the concept of planning and its various facets. They are made to understand the importance of planning in administration and its role in the development of India at various levels. Students get to know what and how of planning. They understand the planned system of development followed in India and the role of planning commission in it. They get familiar with the planning agencies and their working at state and district levels.
Paper II- Public Enterprises:	 Objective: The objective of this course is to provide an overall idea of Public Sector Undertakings in India. Students are to be introduced to the different types of PSUs and their management. They should come to know the challenges faced by public enterprises. Outcome: Students will be able to appreciate the role of public enterprises in India's development. It will enable them to understand the origin of PSUs in India, types of PSUs, their financial system and legislative and executive control over them. The students would be inspired to explore job opportunities in public enterprises.
Paper III- Research Methodology:	 Objective: Research Methodology is an important course that promotes spirit of research in the subject. The objective is to provide a theoretical base for students who want to pursue research in the subject. Their interest in research is generated. The student gets well versed in the methods, approaches and tools to be adopted in social science research. Their horizon of job opportunities is widened as they can get jobs in the field of academics and Non-governmental organizations.
Paper IV- Public	Objective: The concept of public policy forms an important area of study in

Policy and Bureaucracy:	 today's public administration. Government's long range plans are reflected through public policies. Bureaucracy has an important role to play in the formulation and execution of policies. The objective is to impart holistic knowledge to the student about public policy. The student learns about the very upcoming area of public administration that closely touch the lives of all individuals. They learn about distributive justice and resource allocation through public policy This would sensitize those students who plan to enter administrative services and play a role in policy formulation, execution and assessment. They come to understand the changing role of bureaucracy as per the demand of times.
SEMESTER- IV	
Paper I- Public Administration in India:	 Objective: The intent of this course is to impart knowledge regarding origin and evolution of Public Administration in India. They should understand the functioning of various administrative agencies in Indian federal structure. Knowledge acquired through this course will be immensely beneficial for students preparing for competitive exams conducted by UPSC and state PSCs. Students can transmit this knowledge as responsible citizens to other people of the nation who face difficulty in understanding the bureaucratic intricacies of the system.
Paper II- Economic System and Administration:	 Objective: The intent of this course is to make the students understand about different economic systems with their institutions and administrative system. Then they are introduced to the economies of various developing and developed nations. Outcome: The student is able to comprehend the characteristics of the economic systems under capitalism, socialism and mixed economy. They come to understand the relationship between economic system and its relationship with the administrative system. The course broadens the vision of the students and they are able to understand the economic systems of specific developed and developing nations.
Paper III- Administrative Law:	 Objective: The course regarding administrative law highlights the importance of rule of law and separation of powers. It explains the administrative functions of various agencies and the mechanism of redressal of grievances. Outcome: ➤ The study of administrative law helps students when they enter administrative services and are expected to work on delegated legislation or judicial agencies within administration. ➤ The students become aware of the methods and means available to persons whose rights have been infringed by officials.

	They would establish themselves as able administrators and help in realizing the idea of good governance.
Paper IV- Innovation in Modern Public Administration:	 Objective: The objective of this course is to introduce the students to the emerging concepts and tools of administration. They are taught about their rights for their empowerment. The students are introduced with Police administration. Outcome: Students learn about civil society and people's participation in administration. They become capable of using their right to information, if needed, as they learn about Right to Information Act. Students come to know about the concept and application of good governance, e-governance, video conferencing, use of internet in public welfare etc.

M.A.I (Sociology) Program Specific Outcomes

To foster an interdisciplinary vision for the department of Sociological imagination and human interaction that respects diversity of culture individual identity and intellectual pluralism. COURSE OUTCOMES

SEMESTER- I/II

Paper I Classical Sociological TraditionObjectives I. To acquaint students with the historical background of development of sociological thought.2. To provide in depth knowledge about the pioneer sociologists and how they developed various concepts & theories about society.Outcomes> Comprehension of any discipline is incomplete without the knowledge of its founders, their life sketch and their thought process. This paper serves to provide above information.Paper II Research MethodologyObjectives I. To acquaint students with scientific approach of study of society. 2. To provide students with scientific approach of study of society. 2. To provide students with the knowledge and practice of various tools & technology of data collection and analysis. 3. To create understanding about both quantitative and qualitative social research.Outcomes> Teaches students about the art of objective data collection. > Students are introduced with the application of statistical techniques for scientific treatment of sociological information. > Develops research aptitude among the students which is always useful in persuing higher studies in sociology.Paper III Rural Society in IndiaObjectives 1. To develop greater understanding of the rural society and its problems. 2. To define and explain rural society in India.Paper III Rural Society in India> Students can join Rural development organizations/ institutions as social worker and community mobilizers. > Students develop in depth knowledge about rural society which helps them while working in various Government departments and NGOs dealing with rural development.
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Paper IV Urban Objectives
Society in India This paper attempts to acquaint students with concepts of urban
sociology. It also aims to explore the issues concerning urban society in India.
Outcomes
Provides Understanding about trends of urbanization in India and impact
of urbanization on Indian society.
Students develop awareness about urban problems, Policies and
plannings.
SEMESTER- III
24

Paper I Sociology	Objectives
of Kinship,	1. Kinship, Marriage and Family are the foundation of any society. This
Marriage and	paper introduces students with these basic concepts.
Family	2. To provide students with basic information about the family systems,
·	kinship and marriage patterns found in India and some tribal
	communities.
	Outcome
	The above knowledge is helpful in counselling work.
	> It also helps students in managing personal relations within family & kin
	groups.
Paper II Indian	Objective
Society and	1. To provide knowledge of pluralism and diversity in Indian society.
Culture	2. To ellucidate certain monographs by pioneer sociologists.
	Outcome
	> Knowledge about Indian social tradition is crucial in understanding the
	outcome of change. This paper is very significant from this point of view
Paper III	Objectives
Sociology Essays	1. To introduce students with the current and contemporary issues of
	human society.
	2. To develop writing skills among the students.
	Outcome
	Students developed critical thinking skills.
	> They learn to think and write about any social issue in a systematic
	manner.
	> They learn to approach any social issue in an objective way.
Semester Paper IV	Objectives
Criminology	1. To introduce students with the science and art of study of crimes and
	punishment. 2. To acquaint students with types & theories of crime and punishment,
	prison administration and reformation and rehabilitation of criminals.
	Outcome
	Study of this paper helps to know about crimes against various sections of
	the society such as children, women and the lower castes and classes. It
	also helps them in understanding the scenario which are helpful in
	prevention of crimes.
	> Study of Human rights, reformatory institutes and personal management
	are part of this paper, which is job oriented
SEMESTER- IV	
Paper I Theoretical	Objective
Respective in	1. To acquaint students with classical and modern sociological theories.
Sociology	2. To teach them about applications of theories in understanding social
0	events, interactions and patterns.
	Outcome
	> Theories are always helpful in comprehension of various social
	phenomena.
	Research is not complete without theoretical orientation. Students can not
	persue research of society without the knowledge of sociological theories.

	Correlation between theory and fact can not be established without the
	above knowledge. Hence this paper serves as backbone for persuing
	research in sociology
Paper II Sociology	Objectives
of change and	1. To provide knowledge about social, economic and human development.
Development	2. To impart knowledge about factors & theories of social change.
	Outcome
	Gives insight into the strategies of planned change.
	> Highlights importance of sustainable development and the role of society
	in attaining sustainable development.
Paper III	Objectives
Political	1. The main focus of the discipline is on the study of political processes
Sociology	of human society.
500101085	2. To gauge relationship between state and society and their mutual
	interaction.
	Outcome
	 It introduces students with the political process of human society.
	 It gives them knowledge about the institution of democracy.
Paper IV	Objectives
Industrial	1. To provide knowledge about social relationship in Industries.
Sociology	2. To give detailed information about social problems faced by people who
Juliugy	are working in industries, such as the problems of labour, management
	and owners of industry.
	Outcome
	> This is a job oriented programme. Students get jobs in industries,
	Government labour department and social welfare administration
	department.
	Many students are benefitted by knowledge of this paper while taking up
	research activities among labour class.
	Some students also go for further studies in labour law after seeking post
	graduation in industrial sociology

M.A. (Social Work) Program Specific Outcomes:

- Social work is a professional service based on scientific knowledge and skill in human relations, which assists individuals alone, or in groups to obtain social and personal satisfaction and independence.
- The main objective of this course is to developed skill among students to make them social work professionals.

COURSE OUTCOMES SEMESTER- I/II Paper I **Objective:-Introduction to** • As a discipline social work focuses on theoretical and philosophical Social Work positions such as social justice, equality and empowerment. Profession • The objective of this course to provide thoughtful discussion to encourage students to investigate. **Outcome:-**> Above knowledge and philosophies will resides deeper in the consciousness of the students/ future social work professionals. > Above investigation encourage students to define what a philosophy of social work means to them for their profession. **Objective:-Paper II Man** society Dynamics • Its mission is to enable all people to develop their full potential, enrich of human their lives and prevent dysfunction. **Behaviour** Its objective to develop skill and knowledge among students in the field of clinical social work. **Outcome:-**> Professional social worker/ students will focused on problem solving and positive change. > Prepared students/ social worker can help clinically & by counseling to individuals families and communities. **Paper III Methods Objective:-**And Fields of • This particular paper's main mission to develop a Varity of skills Social Work technique and activities consisting with its holistic focus on persons, group community and their environment. • Study & knowledge of Main fields of social work. **Outcome:-**> This particular content will help students to work successfully in the field of social work as a successful social work professionals.

Paper IV Social	Objective:-
Work Research	• The main objective of this paper draws on theories of Human
and Statistics	Development, behavior and social system to analyze complex situations
	and to facilitate individual organizational and social and cultural change
	in a positive direction/manner.
	Outcome:-
	> The major outcome of research knowledge and statistics to help students

	 to glaring reality of social problems. The positivistic argument asserts knowledge has to be observable and testable (quantitative) free from bias and ultimately replicable if it is to any merit. "Best practices" are taken from Research Findings.
SEMESTER- III	
Paper I Computer Application in Social Work	 Objective:- Computer Application knowledge will helpful in this third world to gather knowledge under one roof by saving time and efforts among students/ social work professionals. Outcome:- Skilled social worker/ professionals can do better job in the field of social work by data collection & saving their time with authentic & scientific information which will helpful for their career ahead.
Paper II Community Organization and Social Development	 Objective:- Social & community Development by trained social work professionals having good knowledge of community organization method & social work practices with moral values & skills. Outcome:- They will be able to serve in better way by adopting these methods &
	practical use of community organization method.
Paper III Urban community Development	 Objective:- Main focus of this curriculum to add knowledge of urban community & issues related with urban development eg. Problems of slums, drug addiction, alcoholism environmental pollution, violence, crime etc. Objective of this course to develop skill among student to deal with urban issues. Outcome:- Social work professional can solve pathologies of society sympathetically by knowledge of urban community. It will be useful for their career by making principle for urban community development.
Paper IV Rural community and democratic decentralization	 Objective:- Main aims of this paper to add knowledge of rural community & society issues/ problems of rural community. Successful implementation of project & programs of Government & non Government agencies. Outcome:- Students will be able spread awareness about the Government policies & programme. It will be going to be major tool for the student while working in the field of rural community social work.

M.Lib (Master) Program Specific Outcomes:

This programme would offer the students a thorough understanding and training about the librarianship in traditional libraries as well as in highly modern libraries. The main highlight of the programme would be to create efficient, progressive and meticulous library professionals who will meet the expectations of the employer in this fast changing environment of information and technology. Information communication, Information retrieval and repacking, Applications of information technology, Information analysis, research methods and statistical techniques. Career opportunities are in various public (village, town, state central library etc.) libraries, academic (schools, colleges and universities) libraries, also in special and research libraries. Even, corporate houses also establish libraries to keep their employees up to date with latest happenings. Museum and galleries also appoint library professionals to manage manuscripts and other stuffs.

M.Lib.& I.Sc. (Master of	Library &	Information Science)	
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COURSE OUTCOMES	
Paper I Universe of Knowledge and Research Methodology	 The objective of this course will make student understand the universe of Knowledge and Basics of Research. Students completing this course will be able to explore universe of subjects, modes of thinking and research methods and techniques. Students will be able to analyse the methods of Research techniques and research process. Students can design a good research report after completing the course.
Paper II: Management of Academic Library System	 The objective of the course is aware students about the role of Academic Library and Human resource management. Students during the course will understand needs of financial management and procedure of development of Academic library. Students completing this course will come across the procedure of Library House Keeping operations and requirement of resource sharing.
Paper III: Information Processing and Retrieval System	 The objective of the course is to aware students about Information storage and retrieval system. ➢ Students during the course will understand needs of Information Storage and Retrieval (ISR) systems. ➢ Students completing this course will be able to access Information Retrieval System and know how to manage information system.
Paper IV: Knowledge Organization and Processing (Classification & Cataloguing Practical)	 The objective of the course is to enable classification of documents/micro documents using UDC. ➢ Students during the course will understand fundamental of Cataloging. ➢ Students completing this course will be able to design catalogs of special material by AACR-2.

Paper V: Information, Communication and Society	 The objective of the course is to aware students to establish link between Information, Communication and Society. Students during the course will understand needs of Information Science and Knowledge Management. Students completing this course students will understand the relation between Information, Library and society.
Paper VI: Information Sources, Systems and Content Creation	 The major course objective is to aware students about Information medium and encoding standards. Students will be able to evaluate the process of content creation and storage. Students will be able to differentiate between various storage devices like CD, DVD, and web based documents. Students wills be able to differentiate between various file formats and requirements of encoding standards and their methods.
Paper VII: Information Technology: Application (Theory)	 The course objective is to give basic knowledge of computer structure and Information Technology to the students. ➢ Students will understand the basic structure of computer, Network Technologies, Automated Systems and INTERNET. ➢ Students will be able to understand the process of establishing Digital libraries and Institutional Repositories.
Paper VIII: Information Technology: Application (Practical)	 The course objective is to give hands-on training to students on computer, establishment and social networking. ➤ Students will observe the basic requirements of computer, establishing network technologies, automated systems and use of INTERNET. ➤ Students will be demonstrated by process of establishing Digital libraries and Institutional repositories.
Paper IX: Tour Report	 The main objective of a study tour is to get familiar with the practical systems, organizations, notions, customs, culture, places and people. Students will be able to realize the fact that life is a challenge and that all have to strive hard to win the battlefield. They will accrue field knowledge and challenges. Tour to a library helped intentional learning at both conscious and unconscious levels of observation. However, the outcome reveals a powerful impact on participants both academic and personal fronts which they never had.

Faculty of Commerce

M.Com. (Master of Commerce)

Program Outcomes

The faculty of Commerce offers PG classes with marketing management.

- Commerce is a vibrant, Dynamic & futuristic subject with Sea of options and plethora of opportunities.
- Commerce students can work as Banker, chartered Accountant, Company Secretary, marketing & sales manager, Advertising professional, expert in Actuarial science, Insurance & as an auditor etc.
- They have practical knowledge of generating self & corporate employment identify problems & intricacies of business.
- Students create possibilities for entrepreneurship, Innovations & development and be a part of various programmes of Govt. Of India like startup India, Skill India and Make in India are strongly aligned with business & commerce.
- Through e-business & e-commerce students are closely related to digital India which is need of time.

COURSE OUTCOMES

SEMESTER -I

Paper I Management concepts	 After completing this course students will be able to- Define properly management principles like planning/ organizing/ budgeting/ coordination/ control etc. Emerge as a team player. Identify the challenges in business. Develop the capabilities to sustain pressure & to handle or deal with people under stressful situations. Create better job opportunities aids in career progression & development. Knowledge of sound communication skills. Evaluate the probable solutions. Fosters employability qualities to become an asset for the organization also trained professional to face competition in public & private sector.
Paper II Business environment	 After completing this course students will be able to- Explain various internal & external, national and international environmental factors affecting business. Assess business opportunities globally. Formulating business strategies to meet global competition. Discuss & explain the concepts of Liberalization, Globalization & Privatization. Identify uncertainties/ risks/ problems & crisis in business. Apply the knowledge of factor affecting business political/social/culture/to promote business. Comparison of various laws (legal environment).

	• Develop as better corporate citizen by applying corporate social
Paper III Advanced	 responsibility programmes. After completing this course students will be able to- Explain problems pertaining to final accounts.
Accounting	 Compute Accounting from Incomplete records. Evaluate insurance claim. Compare various Accounts like investment A/C insolvency & voyage A/C. Analyze how dissolution of partnership from is conducted. Identify the problems associated with accounting from incomplete records & problems with Bank reconciliation. Prepare Account for non profit organization. Describe methods for the rectification of errors.
Paper IV Cost analysis and	 After completing this course students will be able to- Explain various concepts of costs and analyze various costing methods.
control	 Compare costing for sound business decision making. Discuss methods & teachings of costing.
	 Assess methods of controlling Inventory.
	 Determine operating cost and compute marginal cost Analyze breakeven point.
	Prepare functional budget.
	Conduct cost audit.To identify methods of controlling budget.
SEMESTER -II	To racially methods of controlling budget.
Paper I	After completing this course students will be able to-
Corporate legal framework	 Discuss the relevance & various provisions of the companies Act. 1956. Applying knowledge of memorandum of (Association understanding)
	(MoU) & article of association in running company.
	Management of company with legal compliance.Determining legal ways to wind up & dissolve the company or business.
	• Explain the negotiable instrument Act (1881) and knowledge of monopolies & restrictive trade practices; ways to avoid unfair trade
	practices; (MRTP Act 1962).
	 Outline the rights of consumers (consumer protection Act 1986) and process of grievance redressal & forums available.
	Compare & evaluate the regulatory environment for international
	business.Role of agencies like W.T.O.
	Settlement of disputes & removing the barriers.
Paper II Organizational	 After completing this course students will be able to- Define & explain behavioural concepts like personality & perception.
Behavior	• Prepare themselves to manage change and utilize managerial skills.
	 Discuss the need for sound organizational culture. Outline interpersonal effectiveness like persuasion/ coaching/
	counseling/ mentoring negotiation and handling stress & creative use of emotions.
	chiotions.

Paper III Advanced Statistical analysis	 Apply the knowledge for conflict resolution. Demonstrating skills like & for Self Development and Personality Development Critically evaluate ethical perspective & human values. Building cordial organizational relations. Create motivating climate (Boosting morale). Deriving Job satisfaction by Human Resource Management. After completing this course students will be able to- Explain theories of probability & probability distributions and sampling. Data collection & interpretation in order to uncover patterns & trends. Designing surveys & conducting studies. Applying knowledge of statistics for Business Decisions & Management and minimizing the risk & uncertainties with the tool of statistical analysis. Collection/ organizing/ analysis/ evaluation & presentation of data for correct latermentation in making Management latering for the statistical decisions.
Paper IV Functional Management	 correct Interpretation in making Managerial decisions. After completing this course students will be able to- Preparation of a sound Financial plan. Explain capitalization & capital structure concepts. Determining the functions of financial managers including training & manpower planning. Applying knowledge of marketing management for expansion of business & exploring newer avenues. Designing advertising & sales promotion strategies. Using methods & techniques of sales promotion to face competitor. Analyze the significance of personnel & Human Resource Management.
Paper I Managerial Economics	 After completing this course students will be able to- Explain the concept of managerial economics. It's a practical aspect of eco. Determining the role & responsibilities of managerial economist. Applying theories like profit maximization in business and the theories of consumer choice & revealed preference theory Analysis of demand and elasticity of demand. Outline business cycle various phases of business & how theories can be applied to give effective results. Knowledge regarding uncertainties & risk. Measurement of profit. Applying knowledge of economics for balanced socio economic development.
Paper II Tax planning & Tax management	 After completing this course students will be able to- To recognize tax planning opportunities. Designing tax saving strategies. Explain how to comply with the provisions of Income tax laws and its allied rules.

	 Identify the role of tax planning in setting up of a new business. Applying knowledge of taxation for smooth functioning of business and assessment of Tax. Management of Tax to avoid penalties & prosecution. Analyze various tax deductions available. Recognize the significance of tax planning during mergers & amalgamations. Applying practical judicial pronouncements with the major & latest provisions of Indian tax laws. Determine the appellate tribunals for grievances related to taxes.
Paper III Entrepreneurship Skill Development	 After completing this course students will be able to- Explain the concept of entrepreneurship apply the knowledge of theories of entrepreneurship to practical problems. Discuss the emergence of entrepreneurial class. Identify opportunities to start new venture. Design marketing & promotional strategies to promote the ventures. Evaluate various internal & external environment factors affecting business. Realizing the importance of social responsibilities (corporate social responsibility). Evaluate various schemes of Government/ initiatives/ programmes for our own benefit skill India/ start up India/ Make in India etc. Knowledge of Entrepreneurship Development programmes.
Paper IV Accounting for Managerial Decisions	 After completing this course students will be able to- Explain how accounting can be used in long & short term decisions involving the financial health & stability of the business. Identify the opportunities for Investment. Prepare students to make operational decisions intended to help to increase the company's financial efficiency. Appling knowledge of accounting to solve practical problems in business. Evaluating various alternative solutions and analyzing ways to maximize profit & minimize losses. Comparing various investment proposals with help of Fund Flow & Cash Flow. Preparing various reports. Controlling the business with the tool of Budgeting (Financial control).
SEMESTER -IV	Sond onling the busiliess with the tool of Budgeting (1 manetal control).
Paper I Advertising & sales management	 After completing this course students will be able to- Explain Advertising process. Apply the knowledge of Legal & ethical aspect of advertising and the role of regulatory agencies monitoring advertising. Utilizing Advertising techniques for business development & social change. Comprising various components of marketing mix like personal selling/ publicity/ sales promotion.

Paper II Consumer Behaviour Paper III Rural and Agricultural marketing	 Determining target audience towards whom the advertising is directed. Preparing Advertising Copy/ Layout/ message and creatively Designing Advertising Appeal. Planning Advertising media/ media choice. Running and advertising agency. Effectively manage sales force (Team/ Territory). Conduct door to door selling. After completing this course the students will be able to Explain various factors affecting consumer behavior (economical/ social/ anthropological/ psychological/ personal need). To identify consumer needs & wants and to analyze Buying motives. Explain consumer buying pattern. Prepare market segmentation & classification and design strategies to attain consumer satisfaction. Outline ways for New Product development and to evaluate the feedback from consumers. Apply consumer behavior concepts in reviewing psychological, motivational & behavioral reasons for making purchase. At the end of this course students will be able to- Discuss the Dimensions & Components of rural market. To identify the need for improved rural infrastructure. To apply marketing theory and directing marketing efforts to create & satisfy the needs & wants of rural markets. Compare & classify rural market viz. village market/ primary/ secondary/ terminal market. Identify the ways for optimum utilization of rural untapped resources. Explain the marketing channels & distribution network in rural areas. Apply agricultural marketing concepts to generate employment & Improved living standard.
	• Contribute for overall balanced economic & social development of rural areas.
Paper IV International Marketing	 At the end of this course students will be able to- Explain the concept of international marketing. Explain the concepts of direct & indirect trading/ mode of payment. Identification & selection of foreign market. Strategies for International market & export promotion. Devising pricing strategies to meet the competition (Price quotations). SWOT analysis to survive internationally. Assess various export credits available. Procedure for export & import & preparation of Documents. Comparison between bilateral & multilateral agreement. Knowledge about International trade & Monetary Organizations

Faculty of Home Science

M.Sc. (Home Science) Human Development

Program Specific Outcomes:

The Department of Home Science offers Masters program in Human Development. The program is devoted to understanding the nature of human development across the lifespan in a culturally diverse, changing and complex world. Our endeavour is to apply contextual and systemic frameworks to the study of development and relationship processes through research, teaching and application. The curriculum values and supports interdisciplinary perspectives and combines classroom learning with field opportunities. There is a special emphasis on the study of heterogeneity among children and adults in varied settings.

M.Sc. degree program translates to making a significant investment in one's professional career.

- To the enhanced career prospects that can be gained by taking a Master of Science.
- Valuable personal skills and fulfil a crucial prerequisite to PhD study.
- Candidates normally have to do independent research and present a thesis as requirement for graduation.
- An understanding of professional, ethical, legal, security and social issues and responsibilities.

COURSE OUTCOMES:

SEMESTER -I

Paper I	Course Objectives:
History and	• To learn about the history of study of human development;
Theories of	To understand the need for theory in Human Development
Human	To understand theories in context
Development	To discuss various theories of Human Development
	• To comprehend the cultural notions of children and childhood; to study
	evolving contemporary theories in the discipline; and
	• To provide a framework to locate human development and childhood in an
	interdisciplinary context.
	Students will be able to
	> Understand the historical and philosophical traditions and theories of
	development
	Comprehend the task of knowledge construction with reference to human
	development and childhood studies
	Appreciate and analyse the different theories of development
	Examine historical perspectives in the evolution theory
	Develop skills for critical appraisal and construction of theories of
	development
	Critically evaluate the cross-cultural applicability of theory
PAPER-II -	course objectives:
Methods of	• To study the domains of human development from the life span perspective.
Studying Human	To study different methods and techniques of understanding Human
Development	Development
	The students will able to
	Demonstrate an understanding of the biological, psychological, social and
	cultural influences of lifespan human development;

	To apply the various methods studied in a practical context
PAPER-III -	Course Objectives:
Early Childhood	• To engage with contemporary positioning of Early Childhood Care and
Care and	Education
Education	To provide theoretically guided curricular framework for effective
	implementation of early childhood development programs.
	The students will able to
	Explain the contemporary emergence and positioning of Early Childhood
	Care and Education along a theoretically guided curricular framework
	Plan ECCE programs keeping in mind socio-cultural diversity and
	knowledge of local and global methods and practices
	Design strategies for effective capacity building and implementation of early
	childhood development programmes
PAPER -IV	Course Objectives:
Research Methods	• To provide students understandings about the basic concepts, approaches
and Statistics	and methods in conducting research thereby enabling them to appreciate
	and critique the nuances of designing a research study as well the ethical
	dimensions of conducting researches. Students will be able to:
	 Demonstrate knowledge of the scientific method, purpose and approaches
	to research
	 Compare and contrast quantitative and qualitative research
	 Explain research design and the research cycle
	 Prepare key elements of a research proposal
	 Explain ethical principles, issues and procedures
PRACTICAL - I -	Course Objectives:
Methods of	• Demonstrate an understanding of the biological, psychological, social and
Studying Human	cultural influences of lifespan human development;
Development	• To understanding the nature of human development across the lifespan in a
	culturally diverse, changing and complex world
	To apply the various methods studied in a practical context
	Assess and evaluate developmental milestones of Human Development
PRACTICAL - II	Course Objectives:
Early Childhood	• To understand pedagogy and principles of curriculum framework along
Care and	with understanding of community orientation and socio-cultural diversity
Education	for optimal development of young children in ECCE programs.
	Students would be able to
	Develop skills to use principles of pedagogy and curricular framework for antimal development through ECCE programs
	optimal development through ECCE programs
	Develop ways to address socio-cultural diversity through local and global methods and practices
	 Devise and develop strategies for effective capacity building,
	implementation and assessment of early childhood care and education
	programs
	 Acquire necessary skills to work effectively with families and form
	collaborative relationships with them

SEMESTER-II

SEMESTER-II	
PAPER- I- Advanced Study In Human Development-I	 Course Objective: To understand an advanced study of the stages in Human Development with special focus on stages from prenatal development to adolescence To understand the principles and factors influencing Human Development in these stages
	 Demonstrate knowledge of developmental processes and principles during prenatal development to adolescence To engage with the critical areas in the study of development in stages during prenatal development to adolescence To demonstrate knowledge of domains of development during prenatal development to adolescence
PAPER-II- Infant Development & Parenting	 Course Objective: To get an overview of infancy and infant development as a first stage in the life span development To provide knowledge in parenting for care of high risk child from birth to 3year To enhance development and prevent delays To recognize typical and atypical development during ages birth- 3 years To gain understanding of the critical empirical and applied work in the field of infancy To theoretically understand the development of norms and recognize delays. Increase ability to support the family and strengthen the parent's ability to support his/her child's development. Increase ability to develop intervention strategies based on a child's individual needs.
PAPER-III- Adolescence and Youth	 Course Objectives: To enhance knowledge of the developmental processes and principles during adolescence and youth and To foster engagement with the critical areas and domains of development during this period The student will be able to:- Demonstrate knowledge of developmental processes and principles during adolescence and youth To engage with the critical areas in the study of development in adolescence and youth To demonstrate knowledge of domains of development during adolescence and youth
PAPER-IV Statistics and Computer Application	 Course Objectives: To understand the basic concepts, theories and methods in statistics; To learn basic statistical procedures for research, To understand applications of statistical techniques for analysis and interpretation.

	Differentiate between the qualitative and quantitative methods of analysis
	 of data Suitably apply data reduction strategies and illustrate data using various
	graphical methods
	 Use appropriate parametric and non parametric statistical tests
	Draw conclusions and interpretations from the analysis of data using various statistical software
PRACTICAL – I-	Course Objective:
Infant	 To provide skills in assessing, planning, implementing and documenting
Development &	early intervention for infants and toddlers at risk and with developmental
Parenting	delays and knowledge for communicating the same to parents within
	communities.
	> To assess, plan and implement early intervention for infants and toddlers at
	risk & with developmental delays.
	To impart techniques of working with families and community for effective
	 intervention. To develop competency in report writing, record maintenance and
	communication. To facilitate and integrate the children into community
	programmes and family guided intervention
PRACTICAL - II	Course Objective:
Adolescence and	• To develop skills of studying Adolescence and Youth across domains and
Youth	contexts, To undertake an approved of tools and tools jugg of studying Adolescents
	 To undertake an appraisal of tools and techniques of studying Adolescents and Youth,
	 To learn skills of engaging with Adolescents and Youth for a deeper
	understanding of Human Development
	The student will be able to
	 Undertake studies of Adolescence and Youth across domains Identify and use appropriate tools and techniques of studying Adolescence
	Identify and use appropriate tools and techniques of studying Adolescence and Youth
	 Engage and work with Adolescence and Youth across contexts
PRACTICAL - III-	Course Objectives:
Statistics and	• To understand the basic concepts, theories and methods in statistics, learn
Computer	basic statistical procedures for research and understand applications of
Application	statistical techniques for analysis and interpretation The students will be able to
	 Identify various types of data measurement tools/tests/procedures and
	understand the concept of standardisation and reliability and validity.
	Apply various data reduction and coding methods on quantitative and
	qualitative data.
	Organise the data and effectively use appropriate quantitative and qualitative statistical software for analysis of data
	 Draw conclusions and interpretations from the analysed data and write
	reports.

SEMESTER-III

PAPER- I – Advanced Study in Human Development-II	 Course Objective: To study theoretical constructs of adulthood and aging across the disciplines of life span developmental psychology, sociology, anthropology, history and other social sciences. To understand an advanced study of the stages in Human Development with special focus on stages from Youth/Young Adulthood to Middle Age To understand the principles and factors influencing Human Development in these stages To understand Physical and psychological changes in women and in men. And Behavioural changes in them . Demonstrate knowledge of developmental processes and principles during Young Adulthood to Middle Age To engage with the critical areas in the study of development in stages during Young Adulthood to Middle Age To demonstrate knowledge of domains of development during Young Adulthood to Middle Age
PAPER- II –	
PAPER- II – Persons With Special Needs – I	 Course Objectives: To develop in students the significance of children's social and ecological contexts within which developmental disabilities occur. To become aware of various impairments and the manner in which these affect the lives of individuals To provide knowledge of definitions, etiology, diagnosis, identification and assessment of childhood disabilities and to create an understanding of the approaches and practices for inclusion and empowerment of children and families The student will understand conceptual approaches to developmental disabilities. The student will acquire knowledge of definitions, etiology, diagnosis, and assessment of childhood disabilities
PAPER- III –	Course Objective:
Principles Of Guidance and Counselling	 The critical evaluation of diverse counselling concepts, theories and techniques will be promoted through debate, discourse and written assignments. To understand the need of guidance and counselling in Human Development To discuss the processes involved in counselling and therapy The student will be able to Appreciate the purpose, scope, theories, and practises of counselling for child development. Understand development needs from the lifespan perspective; identify at risk children and assess various concerns that families bring into the counselling process.

	To learn the processes involved on counselling at different stages in life
PAPER- IV –	Course Objective:
Mental Health and Psychopathology- I	 To Understand the importance of mental health at différent stages in life To develop skills for promoting mental health across the life span To identify mental health issues in the community and sensitizing its members
	To develop skills of organozing school mental health program
	Students will Understand the importance of mental health at différent stages in life
	 Students will develop skills for promoting mental health across the life span Students will learn to identify mental health issues in the community and sensitizing its members
	Students will develop skills of organozing school mental health program
PRACTICAL - I – Persons With Special Needs – I	 Course Objectives: To develop in students the significance of children's social and ecological contexts within which developmental disabilities occur. To become aware of various impairments and the manner in which these affect the lives of individuals
	 To apply the various methods studied to identify the disability in a practical context The student will develop a holistic understanding of the educational ecosystem, processes and practices with reference to disability The students are oriented to the linkages between social policy, legislations and implementation of schemes and programmes for persons with special needs Demonstrate knowledge of assessment and assistive devices used in various disabilities
PRACTICAL - II – Principles of Guidance and Counseling	 Course Objectives: To develop and practice the basic counselling skills of observation, attending, active listening, empathy, appropriate questioning, paraphrasing, reflection of feeling and thought, summarization, confrontation and constructive use of silence. The student will be able to ➤ Develop skills to identify the problems/difficulties through the counselling process. > Develop skills in using coloct approaches and techniques of counselling.
SEMESTER-IV	Develop skills in using select approaches and techniques of counselling
PAPER- I – Advanced Study in Human Development-III	To study theoretical constructs of adulthood and aging across the disciplines of life span developmental psychology, sociology, anthropology, history and other social sciences.
	 The student will be able to ➤ Demonstrate knowledge of developmental processes and principles during adulthood

	To engage with the critical areas in the study of development in adulthood
	To demonstrate knowledge of domains of development during adulthood
PAPER- II –	Course Objectives:
Persons With	• To develop in students the significance of children's social and ecological
Special Needs – II	contexts within which developmental disabilities occur.
-	• To provide knowledge of definitions, etiology, diagnosis, identification and
	assessment of childhood disabilities and to create an understanding of the
	approaches and practices for inclusion and empowerment of children and
	families
	• To identify the physical and social barriers creating difficulties for people
	with disabilities
	The student will understand conceptual approaches to developmental
	disabilities.
	The student will acquire knowledge of definitions, etiology, diagnosis, and
	assessment of childhood disabilities
PAPER- III –	course objective:
Principles of	• The critical evaluation of diverse counselling concepts, theories and
Guidance and	techniques will be promoted through debate, discourse and written
Counselling- II	assignments.
0	• To understand the need of guidance and counselling in Human
	Development
	 To discuss the processes involved in counselling and therapy
	• To discuss the processes involved in coursening and therapy
	The student will be able to
	The student will be able to
	Appreciate the purpose, scope, theories, and practises of counselling for
	child development.
	Understand development needs from the lifespan perspective; identify at
	risk children and assess various concerns that families bring into the
	counseling process.
	To learn the processes involved on counseling at different stages in life
PAPER- IV -	course objective:
Mental Health and	• To understand the importance of mental health at différent stages in life
Psychopathology	• To develop skills for promoting mental health across the life span
– II	• To identify mental health issues in the community and sensitizing its
	members
	 To develop skills of organizing school mental health program
	 Students will Understand the importance of mental health at different
	stages in life
	•
	Students will develop skills for promoting mental health across the life span Students will learn to identify mental health issues in the community and
	Students will learn to identify mental health issues in the community and
	sensitizing its members
	Students will develop skills of organizing school mental health program
PRACTICAL - I -	Course Objectives:
Persons With	To provide knowledge of definitions, etiology, diagnosis, and assessment of
Special Needs – II	childhood disabilities and to create an understanding of the approaches and
	practices for inclusion and empowerment of children and families

Course Learning Outcomes: The student will be able to: > Develop the skills of screening children and adolescents for and with disability > Gain an understanding of methods of working with children and adolescents with disability 3. Learn the skills of providing guidance and counselling to children and their families PRACTICAL - II -**Course Objectives:** • To develop and practice the basic counselling skills of observation, **Principles of Guidance and** attending, active listening, empathy, appropriate questioning, paraphrasing, **Counseling – II** reflection of feeling and thought, summarization, confrontation and constructive use of silence. The student will be able to > Develop skills to identify the problems/difficulties through the counselling process.

> Develop skills in using select approaches and techniques of counselling

M.Sc. (Home Science) Food & Nutrition Program Specific Outcomes:

- Students will be able to provide nutrition counseling and education to individuals, groups, and communities .
- Able to apply knowledge of health behavior, clinical skills, while assessing the nutritional status of individuals
- Apply food science knowledge to describe functions of ingredients in food.
- Students will be able to demonstrate a variety of communication strategies in nutrition and food education emphasizing information technology
- Able to determine nutrient needs into menus for individuals / groups , in diverse cultures and religions, and for different income levels
- Able to determine medical nutrition therapy for a variety of advanced medical conditions.
- Able to analyze foodservice operations using the foodservice systems approach
- Able to Interview individuals for diet histories ,counsel individuals and calculate and interpret nutrient composition of foods.
- Students will be able to understand the relevance, specifications and importance of quality control in food industries
- Student are eligible for jobs in Hospitals, Gym, Nursing Homes , NGO's with the knowlegde of food and nutrition.
- Students with their leadership quality can become a successful entrepreneur and become nutrition innovators
- Students will be prepared to undertake further study at doctoral level in the field of food and nutrition.
- Student are eligible for Certified Nutrition Specialist with th following given post
 - a) Clinical Dietician
 - b) Dietetic Technicians
 - c) Health Coach
 - d) Health Educators and Community Health Workers
 - e) Holistic Nutritionist
 - f) Licensed Nutritionists
 - g) Nutrition Specialties
 - h) Registered Dieticians
 - i) Registered Nurses
 - j) Rehabilitation Counsellors
 - k) Sports Nutritionist

COURSE OUTCOMES

SEMESTER- I

PAPER I--Applied
PhysiologyObjective of this course is to identify and learn about the structure of human
organs and their functions .After successful completion of this course, the
students should be able to

- Understand the physiological processes and functions as applicable to human nutrition
- > Learn the anatomical structures and physiology of human body.
- > Identify and use proper terminology for describing the anatomy of the body.
- Observe and examine the functions of various components of a body system

	under normal conditions.
PAPER II	Objective of this course is tomake student learnabout the chemistry of body
Advanced	and the metabolic role of nutrients in the body After successful completion of
Nutritional	this course, the students should be able to
Biochemistry	> Understand the biological processes and systems as applicable to human
	nutrition.
	Students will understand the principles of biochemistry and also chemistry
	of major nutrients.
	Understand the metabolism of foods.
	Recognize the various metabolic disorders.
	Comprehend the Biochemical implications of foods and diseases.
PAPER III—Public	Objective of this course is tomake students aware about the importance of
Nutrition	nutrition at community level. After successful completion of this course, the
	students should be able to
	> Understand the role of nutrition at community level to educate the
	community.
	> Develop skills to conduct simple nutrition assessments to determine risk for
	under nutrition and over nutrition.
	Generate wellness and healthy lifestyle adoption in community.
	> Assess nutritional requirement of adults, nutritional needs during
	pregnancy and lactation
PAPER IV	Objective of this course is to provide students understandings about the basic
Research Methods	concepts, approaches and methods in conducting research thereby enabling
and Statistics	them in designing a research study . After successful completion of this course,
	the students should be able to
	> Demonstrate knowledge of the scientific method, purpose and approaches
	to research.
	Compare quantitative and qualitative research.
	Prepare and explain research design .
	Prepare and present research proposals
SEMESTER II	
PAPER I	Objective of this course is to impart the knowledge about the microorganisms.
Advance in Food	And to understand the important pathogens and spoilage microorganisms in
Microbiology	foods.
85	After successful completion of this course, the students should be able to
	> Identify the role of beneficial microorganisms in foods and their use in
	fermentation processes.
	> Students able to use appropriate laboratory techniques to enumerate,
	isolate, and identify microorganisms in foods.
	 Understand the interaction between microorganisms and food.
	 Explain the significance of microorganisms in food.
	 Describe the characteristics of food borne and water borne microorganisms.
PAPER IIApplied	Objective of this course aims to create awareness about scientific instrument
Biochemistry And	soused in applied biochemistry. And to learn the principles of biochemical
Technique	research.
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	 After successful completion of this course, the students should be able to Conduct fractional separation of food-protein ,amino acid, fatty acids Use chromatographic techniques in different laboratory Prepare pH-buffer solutions for experiment Know the Centrifugal techniques and principles of sedimentation,
	Use Spectroscopic techniques
PAPER III Nutrition and Health Problems	 Objective of this course is ,gain awareness about the health related problems treated with good nutrition , After successful completion of this course, the students should be able to > Role of nutrition at various stages .of life. > Nutrition and its implications under .different diseased conditions. > Nutrition as an integral part in the .development of a community.
	Nutrition and lifestyle changes towards a better future society
PAPER IV Statistics and Computer Application	Objective of this course is to learn basic statistical procedures for research and understand applications of statistical techniques for analysis and interpretation. After successful completion of this course, the students should be able to
	Compare between the qualitative and quantitative methods of analysis of data.
	 Apply data reduction strategies and illustrate data using various graphical methods.
	 Use appropriate parametric and non parametric statistical tests. Draw conclusions and interpretations from the analysis of data using various statistical soft wares.
SEMESTER III	
PAPER IAdvance Nutrition	 Objective of this course aims to understand the detail of nutrition and the psychology of food. After successful completion of this course, the students should be able to ➢ Identify what foods are good sources for what nutrients. ➢ Students will be familiar with factors affecting for the absorption of nutrients.
	Explain the interrelationship of diet and drug
PAPER II Dietetics and Therapeutic Nutrition	 Objective of this course is to provide a deep insight of principles diet therapy and calculations of nutrients in food. After successful completion of this course, the students should be able to Gain knowledge about food pyramid, vegetarian diet, and the role of the students of the students of the students of the student of the stu
	 dietitian. Prepare menu plan according to nutritional needs during infancy to adolescents.
	 Modify normal diet for therapeutic purposes and counsel patients effectively.
	 Demonstrate counseling techniques to facilitate behavior change. Plan a diet chart under normal conditions and prescribe individualized
	diets.
	Understand diet under hospital conditions with In-depth knowledge on hospital diets.
PAPER III Food	Objective of this course is to elaborate the role of food science in food industry.
	56

Science PAPER IV Issues Related to Women's Health	 After successful completion of this course, the students should be able to Gain knowledge regarding processing, preservation and storage of foods. Understand the medicinal value of Indian spices and condiments. Understand the basic concepts behind food science and food preparation. Gain an in-depth understanding on cooking food scientifically. Objective of this course is to familiarize students with current issue of women's health. After successful completion of this course, the students should be able to Prevent adult women from common health problem that occur any time Analyze health concerns of women , such as breast cancer, cervical cancer, menopause, and pregnancy. Prevent women suffering from higher heart attack deaths
	Counsel female patients with depression and anxiety
SEMESTER IV	
Paper I Health and Fitness	 Objective of this course is to provide understanding of the concept of health in means of holistic fitness. After successful completion of this course, the students should be able to Emphasize the correlation between nutrition and staying fit. Improve the nutritional status for specific sports conditions.
	Know the role of exercise and physical activity
PAPER IIClinical and Therapeutic Nutrition	 Objective of this course is to familiarize with the causes, symptoms, risk factors and dietary management of different disease conditions. After successful completion of this course, the students should be able to Gain knowledge about etiology, risk factors of clinical diseases Manage diet for DM, cancer, , CVD gall bladder & pancreas, kidney and liver diseases. Understand the implication of diet under diseased conditions. Understand the correlation between diet
PAPER III	Objective of this course aims to facilitate understanding of the concepts of food
Food Science and Current Trends	science in present scenario. After successful completion of this course, the students should be able to
	Apply knowledge gained in food chemistry, processing, and preservation of safe, nutritious, and high-quality food products.
	Utilize advanced technologies to process and analyze food products and to solve food safety problems.
	 Design food products that meet the various food regulations and laws. Assess and analyze food science information in an innovative way.
PAPER IV	Objective of this course is to familiarize students with good sources of food and
Nutrition And	nutrients to improve the health of women. After successful completion of this
Health Of Women,	course, the students should be able to
Child And Elderly	Understand the importance of nutrition in various stages of life.
	Evaluate the nutritional status through the lifecycle.
	 Efficiently assess deficiencies in elderly women

M.Sc. (Home Science) Textile and Clothing Program Specific Outcomes:

- Students will be able to construct garments by using proper method which includes drafting, cutting and sewing of garments for industrial as well as home production.
- Textile student will have the basic knowledge related to processing and production techniques of fibers, yarns, fabrics and other textiles products.
- Students will be familiarized with the different concepts and processes of the Indian apparel Industry.
- Students will be trained in the skills related to value addition techniques on apparels and textiles.
- Students will be able to understand the relevance, specifications and importance of quality in apparel industries.
- > Students with their leadership quality can become a successful entrepreneur.
- > Students can utilize their creative skills in dyeing and printing units.
- Students can design and produce their own styles of apparels.
- students can work freelance or can work to teach batch of students in the area of handicrafts, embroidery, block printing, dyeing ,garment construction , knitting, crocheting etc,

COURSE OUTCOMES

SEMESTER-I	
SEMESTER-I Paper I Textile Chemistry Paper II Fabric Construction And Woven Fabric Analysis Paper III Advance Apparel Design & Advance Apparel Construction	 Students will be able to gain knowledge on the formation and modification of fibers Students will be able to evaluate Color used in Dyeing and printing Students will be able to Understand the technological aspects of fiber Students will be able to explain manufacturing process of fabric Students will gain knowledge about the woven textiles industry. Students will be able to learn about the importance of woven textiles and various associated terminologies. Students will be able to learn about the fabric classification and different fiber types with the Introduction of looms and its parts Students will be able to understand weaving technology To classify and identify various looms Students will be able to learn about the commercial aspect of the woven textiles. Students will be able to visualize the Future trends in clothing technology Students will be able to explain the methods for garment construction
Paper IV Research Methods and Statistics	 Students will be able to identify different Types of research Students will be able to write Research projects. Students will be able to explain Research methodology Students will be able to make Research designs and identify Sampling technique
SEMESTER-II	
Paper I Textile Testing and Quality	 the students will gain knowledge about the Quality and aspects of quality Students will be able to explain Different factors affecting quality Students will be able to explain Quality control and process control in

Control	detailsStudents will be able to understand Textile testing, its importance and
	factors affecting the test results
Paper II	> Students will be able to Employ and practiced methodologies for the
Historic Textiles	protection and longevity of historic costume and textiles in collections;
	> Students will be able to interpret the historic context of costume and
	textiles
Paper III	> Students will be able to apply comprehensive abilities in creating and
Fashion Designing	presenting product for entry-level positions in the fashion industry;
	 Students will be able to work well together as emerging team players and
	innovative design thinkers.
	 Students will be able to understand and implement new technologies
	relative to design development, material choices, and the manufacture and
	distribution of fashion;
	> Students will be able to adapt their inspired knowledge and abilities to
	ongoing changes in global fashion and related creative industries;
	Students will be able to bring their evolving design point-of-view and work
	aesthetics to various types of imaginative challenges; and
	Students will be able to explore sustainability in their design development.
Paper IV	> Students will be able to Understand and remember algorithms and its
Statistics and	analysis procedure.
Computer	Students will be able to understand concept of data structures
Application	> Students will be able to design and implement various data structure
••	algorithms.
SEMESTER-III	di Sorreinio.
SEMESTER-III	
Paper I	 Students will be able to describe the classification, structure, properties and
Paper I Knitting	 Students will be able to describe the classification, structure, properties and construction of various knitted products
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Social and	among primitive people; Functions and theories of clothing; Clothing in
Psychological	relation to culture.
Aspect Of Clothing	Students will be able to learn about the Psychological aspects of clothing-
	self respect, self-enhancement, self expression, gender desirability and
	individuality; Students will be able to understand the Socio-psychological
	aspects of clothing among children and significance of uniforms and national costumes.
	 Students will be able to understand Clothing symbolism, fashion, fad,
	custom, tradition, culture contact, status, youth, and education, social
	agitation of women and technology and role of legislation.
	 Students will be able to gain knowledge about the Clothes for conformity,
	mobility, aesthetic appearance; Health and sanitation related to clothing.
Paper – IV	 Students will be able to learn about fashion writing, typography, event
Fashion	design,
Communication	Students will be able to learn the creative use of digital platforms, fashion
	illustration, fashion public relations and so on.
	> Students will be able to learn Fashion Communication and can pursue
	Fashion Styling, Visual Communication, Space Design, Photography, Media
	and Digital Design, etc.
SEMESTER-IV	
Paper I	> Students will be able to explain the effect of dyes and chemicals on the
Dyeing and	properties of textile materials, in both aesthetic and functional terms
Printing	Students will be able independently carry out different types of dyeing,
	printing and processing of textile materials,
	Students will be able describe and analyze the effects that the choice of dyes, chemicals and processes have on the environment, and on the cost and
	lifespan of the product
	 Students will be able apply adequate technologies and materials in relation
	to their own design concept,
	 Students will be able document and reflect on technology in relation to the
	design process
	> Students will be able to demonstrate an understanding of sustainable
	materials and approaches.
Paper II	> Students will be able to introduce the methods of garments construction
Garment	which includes drafting, cutting and sewing of garments for industrial as
Production	well as home production.
Technology	Students will be able to explain the basic concepts related to processing and
	production techniques of fibers, yarns, fabrics and other textiles products.
	Students will be able to analyze the different concepts and processes of the Indian appared industry.
	Indian apparel Industry.
	Students will be able to generate skills related to value addition techniques on apparels and textiles.
	 Students will be able to understand the relevance, specifications and
	importance of quality in apparel industries.
	 Students will be able to develop leadership and entrepreneurship skills.
	 Students will be able to develop reddership and end eprenediship shins. Students will be able to explore their creative skills up to fullest potential
	and can sketch their ideas related to apparels.

	Students will be skilled to sew any styles of apparels.
Paper III	> Students will be able to demonstrate their understanding of the fashion
Fashion Retailing	process, i.e., the fashion life cycle, the forces that inhibit, encourage and
and	shape fashion change; and theories that address the source of new styles
Merchandizing	and their adoption within consumer markets.
	> Students will be able to use appropriate terminology in identifying and
	describing design elements and principles pertaining to apparel design and
	selling environments.
	> Students will be able to evaluate and select appropriate textile products
	given specific end uses and consumer markets.
	> Students will be able to apply social science concepts and theories in
	anticipating the fashion product and shopping needs and preferences of
	specific consumer markets.
	> Students will be able to demonstrate different functions of the
	merchandising process, including the development of buying plans,
	promotional materials and events and sales strategies for multiple retail
	channels.
	Students will be able to utilize an understanding of the textile and apparel
	sector's role in the global economy, as well as relevant trade legislation, in
	anticipating factors shaping sourcing decisions for textile and apparel
	materials and end-use products.
	Students will be able to utilize appropriate resources and technologies in
	carrying out the following:
	> apply critical and creative thinking in identifying solutions to apparel
	industry-based problems and challenges
	demonstrate proficient written, oral and visual communication skills
	Students will be able to execute professional development through securing
	and successfully carrying out the responsibilities of a cooperative education
Damon IV	or internship position at a fashion industry.
Paper – IV Mass	Students will be able to introduce basic concepts of communication and its role in society
Communication	 Students will be able to introduce students to various processes and
communication	theories of communication

Faculty of Science

M.Sc.(Master of Science)

Program Outcomes

- The Faculty of Science offers PG in the following subjects- Botany (C043), Chemistry (C044), Mathematics (C050), Physics (C054), and Zoology (C056).
- The students can become competent Botanists, Chemists, Mathematician, Physicist and job related to Wildlife, Veterinarians, conservationist etc.
- The students can identify the research problems and can formulate using research tools to analyze research related issues, reaching conclusions and can give suggestions for the welfare of society.
- The Students can pursue their career as scientist after pursuing higher studies (M.Phil., Ph.D., Post Doc.).
- Students can opt various examinations like NET, GATE, ICMR, DBT, PSC, SSB, UPSC, IBPS, B.ED., M.ED and many others for promising careers in research, administration, defense, academics, banking sector.

M.sc. (Botany)- Program Specific Outcomes

- Students will be able to conduct experiments, analyze and interpret data for investigating problems in the field of Botany.
- Student of Botany can pursue higher studies (M.Phil., Ph. D) to attain research positions.
- Students can get jobs various fields of Botany like Ecologists/Park ranger/Forester/Nursery Manager/Taxonomist/Horticulturist/Plant Explorer/Geneticist/Plant biochemist/Molecular biologist/ Pharmacologist/ Conservationist and Entrepreneur (Extraction of valuable Plants and their parts Industries/Marketing of herbs/ Environment Consultant / Training centers/ Processing of Valuable Plant Parts/ Floricultural / Florist/ Mushroom Culture /Landscaping / Marketing of plant raw materials/ Herbal Cosmetic Industry).
- Besides Industrial sector these are ample opportunities in Academics, like in School Education Department and Higher Education Department.
- Students will be able to understand the wide potential of the subject Botany, and its implementation in sustainable development.

COURSE OUTCOMES

Paper I (PG-101) : Biology & Diversity of Viruses, Bacteria and Fungi	 The objective of this course is to provide exposure to the students on general characters, classification, and reproduction of various microorganisms. ➤ Students will be able to evaluate the economic importance of viruses, Actinomycetes, Bacteria and fungi. ➤ Students will be able identify and apply the wide area of plant pathology related to these members, and role of micro organism in various fields of science.
Paper II(PG-102) : Biology & Diversity of Algae	 The objective of this course is to give students an idea on diverse group of Algal members. ➢ Students will be able to explain the systematic, morphology reproduction, structure of selected members of algae. ➢ Students will be able to explain the life cycle pattern of algal members. ➢ Students will be able to plain different useful and harmful activities and their Ecological Significance.
Paper III(PG-103) - Biology & Diversity of Bryophyta & Pteridophyta	 The objective of this course is to well verse the students about the Bryophyte & Pteridophyte morphological diversity and their biology. Students will be able to explain the general characteristics, structural variation, classification & reproduction in bryophytes and Pteridophytes. Students will be able to outline the role of Pteridophytes in the origin of seed habit. Students will be able to analyze significance of bryophytes as pioneer plants on land and their role in the origin. Students will be able to understand the evolutionary trends in plant

Paper IV (PG-104) - Biology and Diversity of Gymnosperms	 species on the earth. Can understand the ecological importance of Bryophyte & Pteridophyte. Will be able to explain the economic & medicinal value of Bryophyte & Pteridophyte. The Course objective of this is to enable students to figure prominent role of diverse gymnosperms in the socio-economic life of people and their role in understanding the evolutionary trends. Students will be able to outline the general characters, distribution and classification of Gymnosperms.
	 Students can analyze the Indian contribution to Gymnosperms. Students can identify prescribed gymnosperms of the syllabus and fossil gymnosperms.
SEMESTER-2	
Paper I(PG-201) Cell Biology and Genetics	 The objective of this course is to provide exposure to the students on plant cell, functions and vital processes of various cellular organelles, cell division and inheritance. Students will be able to explain the structural organization of plant cell, various cellular compartments and cellular organelles. Students will be able to apply the knowledge of classical genetics at organism level and cell level.
Paper II(PG-202) plant Development & Reproduction	 The objective of this course is to equip the students with the knowledge in the field of plant development and reproduction spanning from the induction of flowering to fruit development. Students can outline the scientific knowledge related to organization of the higher plant body at shoot and root level. Students can understand the reproductive phenomenon in angiospermic plant.
Paper III (PG-203): plant physiology-I	 Upon completion of this course, the students will be able to gain an insight in to the various physiological processes in plants. Students will be able to apply the principles of thermodynamics. They will be able to explain the different mechanisms related to plant water relation, absorption, transpiration and mineral nutrition. Will be able to assess the importance of plant growth regulators and elicitors. Define flowering process and stress physiology.
Paper IV (PG-204) : Plant Ecology –I	 The course covers plant ecology on advanced level. The course deals with plants and their interaction with the remaining ecosystem. ➢ Students will be able to demonstrate knowledge about ecosystem components, population and community ecology. ➢ Students can recognize the major biomes and vegetation types in diverse ecosystems. ➢ They would be able to interpret within the field and work with practical and theoretical problem solving with respect to different ecosystems.

SEMESTER-III		
Paper I (PG-301): Systematic of Angiosperms	 Students can identify the flora of any region of India Students can utilize the knowledge about plant species in various fields of life. Will be able explain the evolutionary trends in plant species. Will be equip themselves with the knowledge about biodiversity of angiospermic flora and their grooming in the field of entrepreneurship. 	
Paper II (PG-302): Molecular biology and plant breeding	 The objective of this course is to place the students at a level where they can explain structure, synthesis and packaging of the hereditary material. Students can identify use of tools and techniques of molecular biology in genetics as well as in plant breeding. They can explain modern methods of plant breeding and compare them with the traditional methods. 	
Paper III (PG-303): Plant Physiology, Biochemistry and Metabolism	 The objective of this course is focus on physiological and metabolic process of plant and students will be exposed to the importance of biological macromolecular. After completing of the course students will be able to- Discuss enzymology, practical applications and its biological significance. Explain the principles of photosynthesis, photochemistry and respiration. Describe the bio-molecular, chemistry of carbohydrates, lipids fatty acids, their structure, classification and function. Explain the fixation of nitrogen and metabolism of Sulphur. 	
Paper IV (PG-304): Plant Ecology- II (Conservation & utilization of Plant Resources)	 The objective of this course is to take students at the advance level of ecology, It deals with the conservation and utilization of plant resources and interaction between plants and the remaining ecosystem. On completion of this course students will be able to- Discuss about the plant biodiversity, its concepts and status. Explain sustainable development and utilization of plant resource Apply the principles of conservation and critically understand different methods of conservation. Critically analyze the consequences of climate change and pollutants. Gain background knowledge and understanding of principles of Interpret Remote Sensing imagery and its real world applications. 	
SEMESTER-IV	SEMESTER-IV	
Paper I (PG-401): Biotechnology and Tissue Culture	 The objective of this course is to provide knowledge about information transfer from cell to cell and macromolecule. Enable students to apply techniques of plant tissue culture. Students can use its applied aspect in the field of conservation of RET plant species and micro propagation of plants for the extraction of secondary metabolites. The students can identify scope and application of biotechnology in 	

	different fields.
Paper II (PG-402): Applied Botany and Instrumentation	 This course deals with the varied aspects of applied Botany, to groom students to be an entrepreneur. Students will be able to apply the skills in the field of herbal cosmetics and beverages, herbal dyes for use in textile industry. Will be able to apply the skills in the extraction of essential oils in Aromatherapy. Will be able to apply the techniques of Organic farming and bio fertilizers. Will be able to develop the skills to use computer and to import this knowledge on computer based applications in biological science. Students will be able to discuss the basics of computer operations, explain the knowledge about software and hardware. Students will be able to describe the principles used in microscopy, spectroscopy, electrophoresis and colorimetry. will be able to apply the knowledge of instrumentation in analytical work.
Paper III (PG-403): Environmental Science	 Objective of this course is to create awareness among the students about the environment. By the end of the course- ➤ Students will have a better appreciation for the environment and become responsible citizens. ➤ Explain the role of climate change and will be able to address the environmental issues. ➤ Will be able to analyze case studies representation of toxicology, ➤ Will be able to discuss different environment laws, environmental education and related organisations.
Paper IV (PG-404): Ethnobotany	 This course deals with the varied aspects of ethnic values and traditions related to plant world. Students will be able to explain the ethnomedicinal use of plants endemic to various regions of India. They will be able to know the various ethnic society and their phytodiversity related cultural practices. The students will be the ambassador for the conservation of traditions related to nature.

M.Sc. (Chemistry)- Program Specific Outcomes

- Demonstrate and apply the fundamental knowledge of the basic principles in various fields of chemistry .
- Create awareness and sense of responsibilities towards environment and apply knowledge to solve the issues related to environmental pollution.
- Apply knowledge to build up small-scale industry for developing endogenous product.
- Apply various aspects of chemistry of natural products isolations, like:- pharmaceuticals, dyes, textiles, polymers, petroleum products, forensic etc. and also to develop interdisciplinary approach of the subject.
- Develop their critical reasoning , judgement & communication skills.
- Augment the recent developments in field of green and eco- friendly reactions, pharmaceuticals, bioinorganic chemistry and relevant fields of research and development.
- Enhance scientific temper among students so as to develop a research culture and implementation of policies to tackle burning issues at global and local levels.

COURSE OUTCOMES

SEMESTER – I

Paper (I): Inorganic Chemistry-1	 The objective of this course is to provide exposure to students on bonding in main group compounds, metal ligand equilibrium in solution, reaction mechanism of transition metal complexes, HSAB theory and metal-ligand bonding. Students will be able to discuss the VSEPR theory, dπ-pπ bond and Bent's rule. Students will be able to determine the stepwise and overall formation constant, the chelate effect. Students will be able to explain the energy profile of reaction, reactivity of metal complex, inert and labile complexes, Redox reaction, electron transfer reaction, acid hydrolysis and base hydrolysis. Students will be able to discuss the limitations of Crystal Field theory, MOT for bonding in octahedral, tetrahedral and square planar complexes. Students will be able to identify acids and bases as hard or soft as per HSAB concept.
Paper (II): Organic Chemistry-I	 The objective of this course is to provide information about nature of bonding in organic molecules, stereochemistry, conformational analysis, reaction mechanism, aliphatic nucleophilic substitution. Students will be able to analyze delocalized chemical bonding, conjugation and hyper conjugation. Students will be able to discuss stereochemistry of the compounds containing Nitrogen, Sulphur and Phosphorus. Students will be able to explain conformational analysis of cycloalkanes. Analyze the reactivity of carbo cations, carbo anions and free radicals. Students will be able to design the potential energy diagrams, transition states and intermediates. Students will be able to evaluate the SN1, SN2 and mixed SN1 and SN2 mechanisms.

Paper (III): Physical Chemistry-I Paper (IV): Group Theory and Spectroscopy - 1	 The objective of this course is to provide information about Quantum Mechanics, MOT angular momentum classical and statistical thermodynamics. Students will be able to evaluate the Schrodinger equation and postulate of quantum mechanics. Students will be able to apply the perturbation theory for first order and degenerate. Students will be able to discuss Huckel theory of conjugated system and charge density. Students will be able to evaluate the ordinary angular momentum and generalized angular momentum. Students will be able to explain the Debye Huckel theory for activity coefficient of electrolytic solutions. Students will be able to evaluate Fermi Dirac statistics, Bose Einstein statistics and partition functions. The objective of this course is to provide exposure to students on symmetry and group theory in chemistry, microwave, IR, Raman, electronic, molecular and photoelectron spectroscopy. Students will be able to discuss the classification of molecules. Students will be able to evaluate the Zero-point energy, vibrational energies and Morse potential energy Students will be able to explain selection rule and classical and quantum theories of Raman effect. Students will be able to discuss photo- electric effect and photoelectron spectra of simple molecules
Paper (v): Mathematics for Chemists	 The objective of this course is to give information about mathematical aspects in chemistry. Students will be able to evaluate the dot, cross vectors and matrix algebra. Students will be able to demonstrate the Bohr's radius and most probable velocity from Maxwell's distribution. Students will be able to evaluate the basic rules for integration and integration by parts. Students will be able to analyze the permutation and probability
SEMESTER – II	statente fin de abre te analyze the permatation and probability
Paper (I): Inorganic Chemistry-II	 The objective of this course is to provide information about electronic spectral studies, magnetic properties, metal π-complexes and metal clusters. Students will be able to evaluate the spectroscopic ground states, Orgel and Tanabe-Sugane diagrams for transition metal complexes. Students will be able to determine the orbital contribution to magnetic moment and magnetic exchange coupling. Students will be able to explain structure and bonding in metal π-

	 complexes. Students will be able to discuss higher boranes, carboranes, metalloboranes. Students will be able to analyze the applications of ORD and CD for the determination of absolute configuration of complexes and isomerism due to non-planarity of chelate rings.
Paper (II): Organic Chemistry-II	 The objective of this course is to provide exposure to students on aromatic electrophilic substitution reactions, free radical reactions, addition reactions and pericyclic reactions. Students will be be able to explain arenium ion mechanism, diazonium coupling and ortho/para attack. Students will be able to demonstrate the types of free radicals and effect of solvent on reactivity. Students will be able to discuss the mechanism and stereo-chemical aspects of addition reactions involving electrophiles, nucleophile and free radicals Students will be able to analyze the molecular orbital symmetry, FMO and PMO approach and classification of pericyclic reactions.
Paper (III): Physical Chemistry-II	 The objective of this course is to give information about chemical dynamics, surface chemistry, macromolecules and electrochemistry. Students will be able to evaluate the methods of determining rate laws, Arrhenius equation, kinetic and thermodynamic control of reaction. Students will be able to discuss surface tension, capillary action and BET equation. Students will be able to explain polymers, kinetics of polymerization and mechanism of polymerization. Students will be able to discuss the Thermodynamics criteria for non-equilibrium states. Students will be able to evaluate the electrochemistry of solutions, Butler Volmer equation and Tafel Plot.
Paper (IV): Spectroscopy-II and Diffraction Methods	 The objective of this course is to provide information about NMR, NQR, ESR spectroscopy and X-Ray and electron diffraction. Students will be able to explain nuclear spin, shielding and de-shielding effect and chemical shift. Students will be able to discuss the quadrupole nuclei and quadrupole moment. Students will be able to evaluate zero field splitting and Kramer's degeneracy. Students will be able to evaluate Bragg condition, Miller indices and Debye Scherrer method of X-ray structural analysis of crystals index reflections. Students will be able to analyze the scattering intensity, scattering angle and elucidation of structure of magnetically ordered unit cells.
Paper (V): Computer for Chemists	 The objective of the course is to give information about computing, computer programming and use of Computer programs and internet. Students will be able to discuss the application of internet for chemistry. Students will be able to explain operation of PC data processing, running

of standard programs and packages such as MS Word, MS Excel etc.	
 Students will be able to create codes using languages FORTRAN, involvir simple formulae in chemistry. Students will be able to explain base structure and functioning computer. 	-
SEMESTER – III	
 Paper (I): Applications Of Spectroscopy - I (Inorganic Chemistry) The objective of this course is to provide information about electron vibrational, NMR, Mossbauer spectroscopy. Students will be able to explain the electronic spectra studies for d1- or systems in octahedral, tetrahedral and square planer complexes. Students will be able to identify the symmetry and shape of AB2, AB AB4, AB5 and AB6. Students will be able to discuss the introduction, definition of chemic shift and its mechanism. Students will be able to explain effect of deuteration and complex sp and spin interactions between two, three, four and five nuclei. Students will be able to analyze the basic principle of spectral paramete and spectrum density. 	19 3, al
 Paper (II): Photochemistry The objective of this course is to give exposure to students on photochemistry of alker reactions, determination of reaction mechanism, photochemistry of alker carbonyl compounds. Students will be able to explain the types of excitations and quantury yield. Students will be able to discuss the rate constants and effect of light intensity on the rate of photochemical reactions. Students will be able to demonstrate the intramolecular reaction alkene and carbonyl compounds, intermolecular cycloaddition reaction dimerisations. Students will be able to discuss Barton reaction and photo degradation polymers and photochemistry of vision. 	ne, m nt of s-
 Paper (III): Environmental Chemistry The objective of this course is to give information about atmospheric pollution, acid rain, environmental toxicology and soil. Students will be able to discuss about atmospheric layer, biogeochemic cycles of carbon, nitrogen and sulphur. Students will be able to analyze the air pollutants, effect on visibilit climate and health. Students will be able to discuss the acid rain precursors and acid ra control strategies. Students will be able to explain redox chemistry in natural waters ar BOD and COD determination. Students will be able to discuss soil composition micro and macunutrients and soil pollution by fertilizers. Students will be able to explain toxic heavy metals and their biochemic and damaging effects. 	al y, in d
Paper (IV): The objective of this course is to give information about terpenoi	ds,

Chemistry of	carotenoids, alkaloids, steroids, and plant pigments.
Natural Products	Students will be able to explain classification, nomenclature, isolation and
	general methods of structure determination of terpenoids, carotenoids,
	alkaloids and steroids.
	Students will be able to discuss the synthesis of Citrol, Phytol, Menthol,
	Nicotine, Atropine and Morphine
	> Students will be able to analyze the structure of plant pigments such as
	Quercetin, Myricetin, Quercelin, Vitexin.
	> Students will be able to discuss about occurrence, biogenesis and
	physiological effects of prostaglandis.
Paper (V):	The objective of this course is to give exposure to students on aromatic and
Heterocyclic	non-aromatic small ring and six membered heterocycles.
Chemistry	non aronade sman ring and six membered neer objetes.
uneninser y	> Students will be able to discuss nomenclature for monocyclic, fused and
	bridged heterocycles.
	 Students will be able to explain strain bond angle and Torsional strains.
	 Students will be able to discuss the reactions and synthesis of Aziridines,
	Oxiranes and Thiranes.
	 Students will be able to explain the classification and chemistry of meso-
	ionic heterocycles.
	 Students will be able to synthesize the diazines, triazines.
	 Students will be able to synthesize the diazines, thazines. Students will be able to discuss heterocyclic systems containing P, As, Sb
	and B.
SEMESTER – IV	and D.
SLUESTER IV	
Paper (I):	The objective of this course is to give information about UV, IR, NMR, Carbon-
Application of	13 and mass spectroscopy.
Spectroscopy-II	Students will be able to discuss various electronic transitions, Beer-
(Organic	Lambert law, Ultraviolet bands for carbonyl compounds.
Chemistry)	Students will be able to explain vibrational frequencies of alkanes,
	alkenes, alkynes and aromatic compounds.
	> Students will be able to analyze the nuclear magnetic resonance of
	paramagnetic substances in solution.
	Students will be able to discuss general information of C-13 spectroscopy
	and two-dimensional NMR spectroscopy- COSY, NOESY, DEPT
	techniques.
	Students will be able to explain the ion production E1, C1, FD and ESI
	factors affecting fragmentation.
Paper (II): Solid	The objective of this course is to give information about solid state reactions,
State Chemistry	crystal defects, electronic properties and liquid crystals.
	> Students will be able to discuss the general principles and kinetics of
	solid-state reactions.
	Students will be able to explain perfect and imperfect crystals, defect-
	point, line and plane defects.
	Students will be able to explain metals, insulators and semiconductors.
	Students will be able to analyze electrically conducting solids.
	Students will able to discuss the types of liquid crystals.
Paper (III):	The objective of this course is to give information about metal ions in
	71

Biochemistry	 biological systems, Bioenergetics and ATP cycle, enzymes, co- enzymes, chemistry of cell and its constituents. Students will be able to discuss the bulk and trace metals. Students will be able to explain DNA polymerization, glucose storage. Students will be able to discuss the biological nitrogen fixation and its mechanism. Students will be able to analyze the chemical and physical catalyst, properties of enzyme and mechanism of enzyme action. Students will be able to apply the large scale production and purification of enzymes. Create techniques of immobilization of enzymes. Students will be able to discuss the structure and function of proteins, enzymes, DNA and RNA in living systems
Paper (IV): Analytical Chemistry	 The objective of this course is to provide information about the role of analytical chemistry, food analysis, errors, water pollution, drug analysis and clinical chemistry. Students will be able to evaluate the errors and calibration of glassware. Students will be able to discuss, moisture, air, carbohydrates and contamination of food stuff. Students will be able to explain source of water pollution and their effects. Students will be able to analyze the pH of soil. Students will be able to discuss composition of blood, collection and preservation of samples and blood gas analysis of trace elements in the body. Students will be able to explain narcotics and dangerous drugs.
Paper (V): Medicinal Chemistry	 The objective of this course is to provide information about pharmacodynamics, antibiotics and anti-bacterials. Students will be able to discuss the relationship between chemical structure and biological activity (SAR). Students will be able to explain the introduction and elementary treatment of enzyme stimulation. Students will be able to explain the antibiotics β-lactum, Penicillins and antibacterial streptomycin. Students will be able to analyse the nonsteroidal anti-inflammatory drugs (Diclofenac sodium, Ibuprofen and Netopam). Students will be able to discuss the antibistaminic and anti- asthmatic agents like Tefenadine, Cinnarizine, Salbutanol.

M.sc. (Mathematics)- Program Specific Outcome

- Students will be able to analyze the problems and interpret data for investigating problems in the field of Mathematics.
- Student of Mathematics can pursue higher studies (M.Phil., Ph. D) to attain research positions. Students can get jobs in various fields both in the private and public sector. Some of the common job positions or profiles for a math enthusiast are Assistant Professor, Research Analyst, Assistant Scientist, Training Manager etc. They can apply for jobs in Banking sector, Aerospace and Defense, Automobile, IT and Software, Railways, and the Manufacturing sector. As Mathematician, one can be involved in research and development in specialized branches such as Commutative Algebra and Algebraic Geometry, Discrete Mathematics and Coding Theory, Groups, Semi groups and Topology, Applied Mathematics and Differential Equations, Functional Integration, Operator Theory/Operator Algebras, Mathematical Biology, Mathematics Education.
- Besides Industrial sector there are ample opportunities in Academics, like in School Education Department and Higher Education Department.
- Students will be able to understand the wide potential of the subject Mathematics, and its implementation in sustainable development.

COURSE OUTCOMES

Paper I : Advanced Abstract Algebra-I	 The objective of this course is to provide Normal and subnormal series of groups and Perfect and Finite Fields. Students will be able to solve problems related to concept of groups, Nilpotent groups. Student will be able to facilitate the understanding of the structure of a problem where the problem involves a permutation group: e.g. Nature of the roots of a polynomial equation.
Paper II: Real Analysis	 The objective of this course is to provide knowledge of Riemann-Stieltjes integral and its properties ➢ Students will be able to solve problems related to convergence of series and sequence of functions. ➢ Students will be able to apply Implicit function and inverse function theorem. ➢ Students will be able to solve problems related to functions of several variables in Real Analysis.
Paper III : Topology-I	 The objective of this course is to provide knowledge of Sets and Topological Spaces. ➢ Students will be able to give proofs of Zorn's lemma and Lindelof's theorem. ➢ Students will be able define Countable and Uncountable sets and infinite sets. ➢ Students will be able to understand the concept of path connectedness and locally connected spaces.

Paper IV: Complex Analysis	 The objective of this course is to provide knowledge of Complex Integration and Residues Students will be able to proof Morera's Theorem, Cauchy_Goursat theorem, Cauchy's Residue Theorem. Students will be able to state properties of Bilinear transformations. Students will be able to give definition and examples of conformal mappings.
Paper V: Advanced Discrete Mathematics-I	 The objective of this course is to Students will be aware about Semi groups ,Lattices, Boolean Algebra, and Graph Theory. Students will be able to understand the concept of Homomorphism of Semi groups and monoids. Students will be able to state properties of Lattices as Algebraic systems. Students will be able to understand the concept of Boolean Algebra to Switching theory. Students will be able to give definition and examples of Graph and its various Types.
SEMESTER-II	
Paper I: Advances Abstract Algebra-II	 The objective of this course is to provide understanding of Modules and Algebra of Linear Transformation ➢ Students will be able to define and give examples of Modules, Sub-Modules, Cyclic modules and Primary modules. ➢ Students will be able to give proofs of Hilbert basis theorem, Noether_Laskar theorem and Wedderburn Artin theorem.
Paper II: Lebesgue Measure and Integration	 The objective of this course is to aware students about Lebesgue outer measure and integration of Non Negative Functions Students will be able to define and give examples of outer measure, Measurable sets, Convex functions and Uniform Convergence. Students will be able to proof Jensen's inequality, Holder and Minkowski inequalities. Students will be able to solve the problem related to Integration of series.
Paper III: Topology-II	 The objective of this course is to provide understanding of separation axioms, Net and Filters. Students will be able to define separation axioms, T0 ,T1 ,T2 ,T3 ,T4 spaces. Students will be able to state properties of separation axioms and T0 ,T1 ,T2 ,T3 ,T4 spaces. Students will be able to solve Homotopy of paths, Compactness and proof of theorem of Algebra.
Paper IV: Complex Analysis-II	 The objective of this course is to provide understanding of Gamma function and its Properties and Canonical Products. ➢ Students will be able to give proofs of Weierstrass Factorization

	 theorem, Mittage –Leffler's Theorem, Bloch's theorem, Picard theorem. Students will be able to state Schwantz reflection Principle, Jenson's Formula Harmonic function
Paper V: Advanced Discrete Mathematics-II	 The objective of this course is to provide knowledge about Matrix Representation and Theory of Automata. Students will be able to understand the concept of Discrete Numerical Functions. Students will be able to state properties of Lattices as Algebraic systems. Students will be able to understand the concept of Boolean Algebra to Switching theory. Students will be able to give definition and examples of Graph and its various Types.
SEMESTER-III	
Paper I :Functional Analysis -I	 The objective of this course is to provide understanding about Normed Linear Spaces, subspaces and Linear Functionals. Students will be able to understand definition and properties of Normed linear spaces, Banach Spaces, Linear Operator, Linear functionals and Hibert Spaces. Students will be able solve examples of Banach Spaces and Dual Spaces. Students will be able to give the proof of Riesz's Lemma and understand compactness.
Paper II: Integral Transform-I	 The objective of this course is make students understandable about Laplace Transform and Laplace equations in two dimensions. Students will be able to solve the problem of Laplace Transformation and Laplace Equation. Students will be able to apply differential equation, Integral equation and Heat conduction equation in one dimension.
Paper III: Advanced Graph theory -I	 The objective of this course is to provide understanding of concept of Tree and Planar Graphs Students will be able to define Properties of Tree and Cut- Sets. Students will be able to understand Euler Graph , Hamiltonian Paths and Kuratowski's two graph .
Paper IV: Operations Research	 The objective of this course is to provide understanding of model in Operation & Research Students will be able to understand Characteristics of Operation & Research Students will be able to solve Linear Programming Problem, Simplex Methods and Fundamental Property of Duality.
Paper V: Theory of Linear Operators-I	 The objective of this course is to make students understandable about Spectral Theory and its properties of Bounded Linear Operators Students will be able to understand Regular Value Resolvent Set. Students will be able understand complex Banach Space and Banach Alegbra.

	Students will be able to understand properties of compact linear operators.
SEMESTER IV	
Paper I: Functional Analysis -II	 The objective of this paper will give the students the fare idea of concept of Hilbert adjoint operator and Zorn's Lemma ➢ Student will be able to define and give examples self adjoint operator, Unitary operator, Normal operator and Positive operator. ➢ Student will able to give proof of Hahn Banach Theorem, Category Theorem and Open mapping theorem. ➢ Student will able to define strong & weak convergence of operators.
Paper II: Integral Transform-II	 The objective is to provide an understanding of various concepts of Fourier Transform ➢ Student will be able to solve problems related to Finite Fourier Transform and Boundary Value Problem. ➢ Student will be able to solve Convolution Theorem and Parseval's identity for Fourier Transform.
Paper III: Advanced Graph Theory-II	 The objective is to demonstrate & Matrix Representation of Graphs and Trees as Directed Graph. ➢ Students will develop ability to understand Cut set matrix and Chromatic Number. ➢ Students will able to solve Four color problem and fundamental Circuits in Digraphs.
Paper IV: Operation Research-II	 The objective of this paper is to give knowledge of solving various problem of operation research ➢ Students will be able to solve Transportation problem, assignment problem and PERT/CPM path problem. ➢ Students will be able to concept of Game theory and its solution by linear programming.
Paper V: Theory of Linear Operators- II	 The objective of this course is to aware students about further knowledge of Spectral properties of compact Linear operators, Positive operators and Projection operators. Students will be able to solve theorems of Fredholm type and understand the concept of Bounded Self-adjoined Linear operators. Students will be able to perform product and square root of Positive operators. Students will be able to understand properties of Projection.

M.Sc. (Physics) Program Specific Outcome

- Students will be able to conduct experiments, analyze and interpret data for investigating problems in the field of Physics.
- Student of Physics can pursue higher studies (M.Phil. Ph. D) to attain research positions. Students can get jobs in various fields of Physics both in the private and public sector. Some of the common job positions or profiles for a physics graduates are in College lecturer and Teaching Fields, Scientific Positions as Research Associates in various Research institutes. Assistant Professor. They can apply for jobs in Aerospace and Defense, Automobile, IT and Software, Railways, Nuclear and Renewable energy, Oil and Gas, Electronics and Telecommunications and the Manufacturing sector.
- Besides Industrial sector these are ample opportunities in Academics, like in School Education Department and Higher Education Department.
- Students will be able to understand the wide potential of the subject Physics, and its implementation in sustainable development.

COURSE OUTCOMES

Paper I (PG-101) :Mathematical Physics	 The objective is to provide students the ability to develop the mathematical skills necessary to approach problems in advanced physics courses. The students will be able to understand and apply the mathematical skills to solve quantitative problems in the study of physics. The students will be able students to apply integral transform to solve mathematical problems of interest in physics. The students will be able to use Fourier transforms as an aid for analyzing experimental data. The students should be able to solve differential equation of various types. Describe basics of group theory, Special functions, and Recurrence relations.
Paper II(PG-102) : Classical Mechanics	 The objective aims to develop an understanding of Lagrangian and Hamiltonian formulation which allow for simplified treatments of many complex problems in classical mechanics and provide the foundation for the modern understanding of dynamics. The students will be able to apply the Variational principles to real physical problems. The students will be able to model mechanical systems, both in inertial and rotating frames, using Lagrange's and Hamilton's equations.
Paper III(PG-103) - Quantum Mechanics	 The objective is to provide an understanding of the formalism and language of non-relativistic quantum mechanics and understand the concepts of time-independent perturbation theory and their applications to physical situations. The students will be able to formulate and solve problems in quantum mechanics using Dirac representation. The students will be able to grasp the concepts of spin and angular momentum, as well as their quantization and addition rules. The students will be familiar with various approximation methods applied to atomic, nuclear and solid-state physics.

Paper IV(PG-104) - Electronics Devices	 The objective is to develop an understanding of fundamentals of electronics in order to deepen the understanding of electronic devices that are part of the technologies that surround us The Students will be able to use techniques for electronic circuits; and formulate the concepts of Field Effect Transistors (FET); identify its major properties and main types of FET circuits. The Students will develop ability to describe the behavior of special Purpose Diode- LDR, LED, and Solar Cells. The Students will be able to recognize various storage devices like RAM , ROM, Hybrid memories. The Students will be able to understand electro-optics, magneto-optics and acousto-optics effects material and properties
SEMESTER-II	
Paper I(PG -201)- Quantum Mechanics-II	 The objective is to understand the concepts of the time-dependent perturbation theory and their applications to physical situations and the basics of scattering theory. ➢ The students will be able to grasp the concepts of Dirac equation and Klein Gordon equation. ➢ The students will be familiar with various approximation methods applied to atomic, nuclear and solid-state physics.
Paper II(PG -202)- Statistical Mechanics	 The objective is to have an appreciation for the modern aspects of equilibrium and non-equilibrium statistical physics. ➤ The students will be able to describe the features and examples of Maxwell-Boltzmann, Bose-Einstein and Fermi-Dirac statistics ➤ The students will be able to work out equations of state and thermodynamic potentials for elementary systems of particles; and use and develop mean field theory for first and second order phase transitions.
Paper III(PG -203)- Electrodynamics and Plasma Physics	 The objective is to evaluate fields and forces in Electrodynamics and Magneto dynamics using basic scientific method. To provide concepts of relativistic electrodynamics and its applications in branches of Physical Sciences. The students will be able to explain and solve advanced problems based on classical electrodynamics using Maxwell's equation. The students will be able to analyze radiation systems in which the electric dipole, magnetic dipole or electric quadruple dominate. The students will have an understanding of the covariant formulation of electrodynamics and the concept of retarded time for charges undergoing acceleration.
Paper IV(PG -204)- Atomic And Molecular Physics	 The objective is to get the better understanding of the fundamental aspects of atomic and molecular physics and to study spectroscopy of the multi-electron atoms and diatomic molecules ➤ The students will have an understanding of quantum behavior of atoms in external electric and magnetic fields. ➤ The students will understand important concepts of Atomic and molecular physics, IR, Raman and Electronic Band Spectra of Dia Atomic molecule will be

	studied.➢ Also NMR and ESR technique will be introduced.
SEMESTER-III	
Paper I(PG -301)- Condensed Matter Physics-I	 The objective is to provide extended knowledge of solid state physics by understanding of structure, thermal and elastic properties of matter. Student will have achieved the ability to differentiate between different lattice types and explain the concepts of reciprocal lattice and crystal diffraction. The students will be able to formulate basic models for electrons and lattice vibrations for describing the physics of crystalline materials; and predict electrical and thermal properties of solids and explain their origin. The students will be able to explain concept of energy bands and their effect on electrical properties.
Paper II(PG -302)- : Nuclear and Particle Physics	 The objective is to provide an understanding of static properties of nuclei, nuclear decay modes, nuclear force and nuclear models and to provide broad understanding of basic experimental nuclear-detection techniques The students will have an understanding of the structure of the nucleus, radioactive decay, nuclear reactions and the interaction of nuclear radiation with matter; and develop an insight into the building block of matter along with the fundamental interactions of nature. This course gives knowledge on fundamental principles of various particle accelerators and the motion of charged particles in electromagnetic field. The students will able to understand the classification and fundamental properties of elementary particles.
Paper III(PG -303)- : Digital Electronics	 At the end of this course, the student will be able to understand the basic of digital circuit. ➢ Students will be capable to design different type of digital logic circuit ➢ Student will learn about basics knowledge of Digital Electronics. ➢ Student will develop ability to understand, analyze and design various combinational and Sequential Circuit.
Paper IV(PG -304)- Atomic And Molecular Physics	 The objective is to provide an understanding of the fundamental aspects of atomic and molecular structure. Students will have the understanding of the interaction of atomic and molecular systems with external homogenous static electric, magnetic fields and electromagnetic radiations Student will be familiar with different type of atomic and dia atomic models and their spectra. Student will also be familiar NMR ,ESR techniques and Raman and Mossbauer Spectroscopy.
SEMESTER IV	
Paper I(PG -401)- : Condensed Matter Physics-II	 The objective of this paper will give students fare idea of concept 0f super conductivity, types of super conductors' theory, and AC and DC effects. ➢ The student will have the understanding of Weiss theory of Ferromagnetism,

	 Domain and Bloch wall energy. The student will able to understand Curie Weiss Law Ferri and Anti Ferrimagnetism. The student will able to learn about Basics physics behind Nano material, and used different techniques for synthesis and characterization of Nano material and tube. The student will able gain the knowledge of basic principles of material science in thin film technology and used various techniques to synthesis thin films of desired characteristics and various properties like electrical conductivity and hall coefficient quantum size effect in thin films.
Paper II(PG -402)- : Laser Physics	 The objective is to provide an understanding of various concepts of Laser Physics Student will be able to analyze the intensity variation of light using laser. Student will be able to explain working principles knowledge and conceptual understanding in Laser Physics. Students approach an ability to analyzes quantitatively and to design such Lasers Student comes to know basic idea about non liner optics.
Paper III(PG -403)- Computer Programming and Informatics	 The objective is to demonstrate an understanding of computer programming language concepts. Students will able to develop basic understanding of computers, the concept of algorithm and logical thinking. Students will develop ability to design Computer programs, analyze and interprets the concept of variable declarations, initialization, operations and their usage and able to use the concept of array of structures. Students will be able to build an understanding of the fundamental concepts of computer networking and familiarize with the basic taxonomy and terminology of the computer networking area. Students will be able Use knowledge of HTML and HTML editor to create websites for current professional and industry standards and use critical thinking skills to design and create websites.
Paper IV(PG -404)- Title of paper: Digital Electronics	 The objective of this elective paper comprising OP-AMP and Microprocessor specializes the student in Digital Electronics Students will be able to understand integrated components of OP-AMP design and packaging of IC 741 understand various modes of OP-AMP and its linear/ Non Linear applications. Students will be able to understand and analyze IC 741 operational amplifier and its characteristics. Students will be able to design and understand various linear and non linear application of OP-AMP using IC 741. Students will be able to elucidate and design the active filter and oscillator. Students will be able to Introduce Microprocessor 8086 - architecture and addressing modes and simple assembly language programming.
 M.Sc. (Zoology) Program Specific Outcome Students will be able to conduct experiments, analyze and interpret data for research in the fiel 	

- Students will be able to conduct experiments, analyze and interpret data for research in the fiel Zoology.The Students can pursue higher studies like M.Phil., Ph.D.

- The students can get job in varied areas like Conservationist/Govt. Jobs/ Wildlife/Museum like tha Natural history, Forester, Ranger, DFO etc./ Genetist/ Molecular Biologists/ NGO/ Entrepren (Ornithologist/ Fisheries/ Pathologist/ Herpetologist/ Sericulture/ Endocrinologist/ Serolog Environmentalist etc)
- There are ample opportunities in field of Academic.

COURSE OUTCOMES

Paper I	The objective of the course is to impart knowledge about Taxonomic status of
Biosystematics,	animal and evolutionary trends.
Taxonomy &	Students will be able to identify the systematic position of animals so that they
Evolution	can know the hierarchy of animals.
	> They will be able to evaluate the bio-diversity indices.
Paper II Structure	The objective of the course is to make the students aware of different structure,
& function of	function and developmental stage of invertebrates .
Invertebrate	> Students will be able to compile different vital systems in different phyla of
	invertebrates.
	Students will be able to discuss the evolutionary significance of invertebrate
	larval forms.
Paper III	The objective of the course is to equip the students with tool & technique
Quantitative Biology,	Biostatistics, its application in the field of Biodiversity and Wildlife.
Biodiversity and	Students will be able to analyze the statistical data of wildlife and biodiversity.
Wildlife.	 Students will be able to identify various wild medicinal plant species.
	Students will know the wildlife protection acts and its amendments, their area
Domon IV	of work, committees and legal framework, in-situ conservation strategies.
Paper IV Bimolecular and	The objective of the course is to inculcate the knowledge about chemical foundatio
structural Biology	biology.➤ Students will be able to explain the basic concept of structure & metabolism.
	 Students will be able to explain the basic concept of structure & metabolism. Students will come to know the latest development in this field like Nano
	particles and biomaterials.
	 Students will be able to explain the Nucleic Acid Synthesis.
SEMESTER-II	
Paper I General	The objective of the course is to co relate the physiological process of animals and
and comparative	relationship of organ system.
animal physiology	 Students will know about behavioral pattern due to pheromones and related
& endocrinology	chemicals as means of communication among vertebrates.
	> They will be able to compare the physiology of different system from lower to
	higher vertebrates.
	Students will able to know the thermoregulatory process in different animals
	and related behaviors.
Paper II	The objective of the course is to aware students about population and population

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Population	dynamics, meditation, Yoga and physiological response to body exercise.
Ecology and	Students will understand about population dynamics, life history pattern,
environmental	fertility rate and age structure.
Physiology	\succ Students will be able to explain predator prey relationship, mutualism
	ecological niche, conversation management of natural resources, sustainable,
	development and general idea about biohazards.
Paper III Tools	The objective of the courses is to equip the students with the use of latest tools and
and Techniques in	their techniques used in biological system.
Biology	 Students can utilize computer aided techniques for data presentation data
0,	· · · ·
	analysis and statistics.
	Students will use the methods separation techniques of biochemical materials
	and also about original separation.
	Students can prepare experiments related to immunological techniques such
	as immune diffusion and immunes electrophoresis, Histo-pathological
	techniques, molecular cytological and molecular biological techniques.
Paper IV	The objective of the course is to make the students aware of bio-membrane, cell-
Molecular cell	cell signaling, sex determination.
biology & Genetics	> Students will understand about the bio-membrane, transport across cell
	membrane, cell movements, cell surface receptors of signaling molecule.
	➢ Students will learn about cell-cell adhesion and communication and
	elementary idea of human genome project.
	 Students will get the general idea of genetic diseases, human gene therapy,
	prenatal diagnosis and counseling, gene library, transgenic and knockout
CEMECTED III	animals and their applications.
SEMESTER-III	
Paper I	At the end of this course students will be able to:-
Comparative	Describe different systems of Chordate
anatomy of Vertebrates	Compare different systems from fish to mammals.
vertebrates	 Explain adaptations in Vertebrate
	Explain evolutionary significance in early vertebrate.
Paper II	After completing this course, students will be able to:-
Limnology	Know about freshwater habitat and their ecosystem
	Will be able to discuss physico-chemical parameters of freshwater habitat
	Prepare an account of Limnological biota.
	> Analyze the pollutants in aquatic resources, can design the strategies for
	management and conservation of aquatic resources.
Paper III Eco-	Students who complete this course will be able to :-
toxicology	 Compare different ecosystems
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	Utilize basic concepts and applications of Remote Sensing Techniques in
	environmental conservation.
	> Can discuss about radio-active compounds and their impact on the

	environment.
	Can discuss about radio-active compounds and their impact on the
	environment.
	 Analyze the public health hazards occur due to environmental disaster.
Paper – IV	At the end of this course students will be able to:
Aquaculture	 Explain fishery resources of M.P. and India and its culture practices.
•	 Demonstrate fresh water fish farm engineering.
	 Can apply the knowledge of fisheries management and extension, as well as
	entrepreneurship in the field of fish marketing.
SEMESTER-IV	1 · · · · · · · · · · · · · · · · · · ·
Paper I	Students who complete this course will be able to :-
Animal Behavior	> Evaluate different methods of behavioural patterns of animals and analysis of
and	ethogram.
Neurophysiology	> Discuss neural and hormonal control of behaviour and communication,
	evolution of language in primates.
	> Can demonstrate practical aspects of biological rhythms, learning and
	reasoning.
Paper II	Students after completing this course will be able to :-
Gamete biology,	Explain comparative account of gonads in mammals, in vitro technique and sex
Development and differentiation in	determination.
Vertebrate	Discuss the hormonal regulation, endocrinology and physiology of placenta.
	Explain stem cell disorders, cell diversification.
Paper III Wild	At the end of this course, students will be able to:-
life Conversation	Analyze the habitat, evaluate and manage wildlife.
	 Use the knowledge for preservation of general genetic diversity.
	Can evaluate the population estimation of wild animals by different methods.
	 Can revise the wildlife legislation to amendments & implementations. Can appear the protected areas for wildlife development.
Danor IV	 Can assess the protected areas for wildlife development. At the end of this course, students will be able to:-
Paper – IV Environment &	 At the end of this course, students will be able to:- Apply knowledge for environmental and sustainable development
Biodiversity	 Monitor and assess the impact of biodiversity conservation
conservation	 Analyze agricultural pollution and management of solid-waste.
	 Principle agricultural politicion and management of sond-waste. Discuss about global warming and disaster management.
	 Identify the causes of biodiversity crises.