Program Outcomes (POS)/ Program Specific Outcome (PSO)/ Course Outcomes (CO)

MAHILA MAHAVIDYALAYA, GODDA

Faculty of Arts

The Bachelor of Arts requires three years of full time study consisting of six semesters. The college offers 11honours courses in arts subjects: English, Hindi, Sanskrit, Urdu, History, Philosophy, Political Science, Sociology, Psychology, Economics, Home Science. Apart from the specific honours and program subjects, the skill enhancement courses (SEC), ability enhancement compulsory course(AECC), generic elective course (GE), discipline specific elective(DSE), modern Indian languages (MIL) are included in the curriculum of the university. Arts degrees are focused on increasing a student's knowledge and critical thinking in accordance to the syllabus and curriculum prescribed by the university. These courses aim to prepare students with a sound knowledge and skills to connect across geographical, disciplinary, social and cultural boundaries, understand the importance of ethical behaviour and lifelong learning habits.

Department of History

Program Outcome

Produce written work that incorporates consideration of the relevant historiography along with the theory that informs it. Construct original historical arguments based on primary source material research. Demonstrate a superior quality of writing both in terms of mechanics and in developing an argument effectively. Develop an ability to convey verbally their thesis research and relevant historiography and theory.

Program Specific Outcome

Understand background of our religion, customs institutions, administration and so on. Understand the present existing social, political, religious and economic conditions of the people. Analyze relationship between the past and the present is lively presented in the history. Develop practical skills helpful in the study and understanding of historical events. They: (a) Draw historical maps, charts, diagrams etc. (b) Prepare historical models, tools etc. Develop interests in the study of history and activities relating to history. They: (a) Collect ancient arts, old coins and other historical materials; (b) Participate in historical drama and historical occasions; (c) Visit places of historical interests, archaeological sites, museums and archives; (d) Read historical documents, maps, charts etc. (e) Play active roles in activities of the history helps to impart moral education. History installs the feeling of patriotism in the hearts of the pupils.

Semester	Syllabus Paper wise	Outcome
Semester I	Core I Ancient Indian History (Early times to	In this paper the students from
	Mauryan age)	general course will learn about
		the socio cultural pattern of
		India. They read the sources of
		history, primitive civilization
		like Harappa, Vedic Age,
		protestant movements such as
		Jainism, Budhhism, the royal
		history of Maurya, Kusanas and

		Satbahans.
	Core II History of Modern Europe (1789 to 1870)	This paper focused on the great French Revolution in 1789. Students come to know about the emergence of Napoleon Bonaparte in Europe and his expansion, consolidation, downfall
Semester II	Core III Ancient Indian History (Post Mauryan to 650 AD)	In this paper the students from general course will learn about the socio cultural pattern of India. They read the sources of history, primitive civilization like Harappa, Vedic Age, and protestant movements such as Jainism, Budhhism, and the royal history of Maurya, Kusanas and Satbahans.
	Core IV History of Modern Europe(1871 to 1945)	Vienna Congress, Metternich, Bismarck and his diplomacy, system of alliances, 1917 Russian Revolution, Fascism, Nazism and the origin of World War II all these important issues are incorporated in this paper.
Semester III	Core V Early Medieval Indian History (650 AD to 1206 AD	Reign of great Indian rulers like Kanishka and Harshvardana along with other local kings and the causes of the establishment.
	Core VI British Constitutional History(1485 to 1714)	Achievement of Judor period like Henry-VII & Henry VIII and God given power of the king and the feature of the transformation of England into 17th Century can be learnt.
	Core VII History of Jharkhand (1757 AD to 2000 AD)	Interfere of British East India Company and the torture and exploitation of the tribal and hilly people by them along with Indian brokers and their effect can be learnt here in this paper.
Semester IV	Core IX Indian Constitutional Development (1773 to 1947)	To understanding the mid – eighteenth century this paper is considered as mandatory.

		Students will gather knowledge about expansion and consolidation of British Empire, economic changes, and land revenue settlements, commercialization of agriculture, de-industrialization, spread of western education, Indian Renaissance, several peasants and tribal movements.
<i>a</i>	Core X Ancient Indian Polity	Various kinds of political experiments of various dynesties like Mauryan, Kushan, Gupta, Satdrahava and Chola can be learnt and effects of them on the public is also can be understood.
Semester V	Core XI Medieval Indian History (1526 to 1707 AD)	Students will learn about the Mughals and their relation with Rajput, Sikhs, Decan. Marathas and central Asia. They get an idea about Bengal under Mughal reign. Mughal administration with emphasize on Mansabdari, jaygirdari, zamindari sytem are included in this paper. The great Mughal Badsah Akbar's and Aurangjev's religious policies are incorporated here.
	Core XII History of China And Japan (1839 to 1949 AD)	The process of development of China & Japan and their progress to come out to be the world power can be understood in this chapter
Sem VI	Core XIII Economic History of Modern India (1757 to 1947	To understanding the mid – eighteenth century this paper is considered as mandatory. Students will gather knowledge about expansion and consolidation of British Empire, economic changes, and land
	Core XIV Indian National Movement (1857 to 1947)	Students will gather knowledge about nationalism, genesis of congress, moderates,

	extremists, Gandhi and his
	movements, Subhas Basu and
	his INA, Princely states,
	integration of the Indian States,
	making of constitution and
	foreign policy.

Department Of Political Science

Program Outcome Political Science and Society: understanding the inter relationship between policy decisions and its effects on society. This is achieved through a comprehensive teaching of the practice of public administration in India. **Critical thinking:** the ability to analyze and predict socio political phenomena based on the study of existing socio economic determinants and past experiences. This goal is achieved by training students in the different methods and tools of investigation such as empirical research methods, survey research and data analysis of subject responses.

Effective citizenship: the course curriculum inculcates among students a basic understanding of the rights and duties of citizenship and thereby to act as responsible citizens through the observation of important days such as Independence Day, Republic Day and also spreading awareness in society through street plays based on specific socio political issues such as domestic violence, disillusioned youth of the materialistic world etc.

Program Specific Outcome

It provides understanding the nature and developments in national and international politics Analyzing the Indian constitutional provisions, major legislations and reforms. Critical evaluation of social, economic and political variables for a proper understanding of the plurality of Indian society Developing knowledge of administrative studies with special reference to Indian administrative structures and practices. It examines India's foreign relations with her neighbors and great powers. It makes use of case study method for analyzing the working of important international and regional organizations like UN, EU, ASEAN etc.

Semester	Syllabus Paper wise	Outcome
Semester I	AN INTRODUCTION TO POLITICAL THEORY	This course aims to introduce certain key concepts in traditional political theory with an intention to engage the students with the applications of these ideas.
-	THEMES IN CONTEMOPRARY POLITICAL	

	THEORY-I	This course aims to acquaint students with the Indian and Western traditions of political theorisations through some select themes in order to appreciate the value and distinctveness of comparative political theory/thought.
Semester II	CONTEMPORARY POLITICAL THEORY	This course aims to introduce certain contemporary concepts of political theory with an intention to engage the students with the application of these ideas and also with the skills to debate these ideas.
	THEMES IN CONTEMOPRARYINDIANPOLITICAL THEORY-I	This course aims to acquaint students with the Indian and Western traditions of political theorisations through some select themes in order to appreciate the value and distinctiveness of comparative political theory/thought.
Semester III	INDIAN GOVERNMENT AND POLITICS	This paper aims to acquain constructs of the Indian con structural and functional co of the Indian constitution a polity.
	COMPARATIVE POLITICAL ANALYSIS (US,UK, China & Switzerland)	This paper aims to comparatively analyse the political functioning of different states and democracies in order to comprehend the holistic notion of Government and Governance.
	POLITICAL SOCIOLOGY	This course aims to acquaint the students with

		the divergent socio- political institutions and their functional interface with the political structures.
Semester IV	DEMOCRACY AND GOVERNANCE IN INDIA	This paper tries to explain the institutional aspects of democracy and how certain institutions
	FOREIGN POLICY OF MAJOR POWERS	function within a constitutional and democratic framework. This paper intends to comprehend the major issues of the foreign policies of major powers of the world in the post cold war era. This paper intends to
	INDIA's FOREIGN POLICY	comprehend the fundamentals of the foreign policy of India and their functional usages.
Semester V	INTERNATIONAL POLITICS	This course is designed to give students a sense of important theoretical
	INDIA's FOREIGN POLICY	approaches to understand international relations and its possible future trajectory. This course is designed to give students a sense of understanding of the theoretical formulation public policy and
Semester VI	INTERNATIONAL LAW	The purpose of the course is to acquaint the students with the key notions of international arrangements/ formulations that bind the world to an organic entity.

MODERN POLITICAL IDEOLOGIES	
	The purpose of the course
	is to acquaint the students
	with the principal
	ideological formulations
	that govern that divergent
	set of governance
	worldwide.

Department of Sociology

Programme Outcome Sociology seeks to understand all aspects of human social behavior, including the behaviour of individuals as well as the social dynamics of small groups, large organizations, communities, institutions, and entire societies. Sociologists are typically motivated both by the desire to better understand the principles of social life and by the conviction that understanding these principles may aid in the formulation of enlightened and effective social policy.

Programme Specific Outcome

Critical Thinking: The programme seeks to develop in students the sociological knowledge and skills that will enable them to think critically and imaginatively about society and social issues.

Better understanding of real life situation: The ability to apply sociological concepts and theories to the real world and ultimately their everyday lives.

Communication skills and Social interaction power: Students of Sociology stream have to work beyond the class room boundary at the time of field study activities. As a result good communication skill develops while interacting with local people.

Ethical and Social Responsibility: Students have to learn about institutions, folkways, mores, culture, social control, social inequality population composition, population

policy, society and culture of India. All these help to instil among the students of Sociology a sense of ethical and social responsibility.

Professional and Career Opportunities: Students will have the opportunity to join professional careers in Sociology and allied fields. Sociology provides an intellectual background for students considering careers in business, social services, public policy, government service, nongovernmental organizations, foundations, or academia. This programme lays foundation for further study in Sociology, Social work, Rural Development, Social Welfare and in other allied subjects.

Course Outcome:

Semester	syllabus	Outcome
Semester I	C-1-Introduction to sociology	Student will be able to explain
		social facts and society related
		concepts. Student will be able
		to define and explain

	C-2- Society In India	sociological concepts. Student will be able to define and exemplify social fact. Student will be able to express empirical observations with sociological concepts. Know about societal hierarchy, cast groups family and religions.
Semester II	C-3- Social Research Methods	Explain key research concepts and issues Read, comprehend, and explain research articles in their academic discipline. Illustrate what is social about
	C-4-Indian Society Issues and Problems	certain social constructions become dominant Distinguish how labelling something can create expectations about behaviour and actions Give examples of inequalities that result from particular social constructions.
Semester III	C-5-Fandamentals of Social Thought	Identify and apply sociological concepts and theories to understand social phenomena. Employ the sociological imagination and use evidence- based social theories to analyze social problems in context, and to generate and evaluate solutions.
	C-6-Gender and Society	Define and utilize key concepts, terminology, and theoretical frameworks central to the interdisciplinary field of Gender Studies Demonstrate an openness to learning about people, cultures, and societies different from themselves and their own worlds. Apply central concepts and theories from Gender Studies to their own life experiences and the world around them.

Semester IV	C-7-Sociology of Mass Media and Poplar Culture C-8-Crime and society	Analyze and discuss important theoretical perspectives associated with media studies and critical theory. Discuss the significance of cultural production through the mass media. Understand and identify consumerism and capitalistic ideology in the mass media. After studying this course, you
		should be able to: give a definition of crime (in terms of society). State the steps and factors that lead from a crime to conviction.
	C-9-Sociology of Tribal Society	The course aims to draw attention mainly to the problems, policies and programmes taken for the up liftmen of the tribal society. Introduce them with the geographical distribution, economy, polity, social organization of tribal life of India. Know the problems faced by the tribes and policies and programmes taken by the Govt. for the up liftmen of tribes.
	C-10-Indian Rural Social Structure	
		The student can have a grip on the grass roots of Indian society. This will enable the student to understand the society in a better manner, to note the heterogeneities in culture, institutions and their functions, changes, the contrasts found between the rural urban societies and the problems faced by the people.
Semester V	C-11-Urban Social Stricture	By going through this paper, the students can get an insight into the basic features of an urban area, the way cities grow, the major problem that

		encounter urban population and
	C-12-Demographic Dimensions Health	encounter urban population and the various urban development programmes designed by the Government of India, their implementations, achievements and limitations. Studying the course students will gather knowledge on Key concepts of Social Demography, Demographic factors of social change; Theories of population, Factors affecting mortality and fertility. Population policy in India. Students are expected to know the concept of health from different perspectives. They can also learn about the contemporary trend of Sociology of Health in India. By knowing various health policies and programs in India student can expand the
SEMESTER VI	C-13-Industrial Sociology	Students are expected to know the Definition of industry, meaning, pre-industrial,
		industrial society and its system. Work in modern society. Meaning and trends of Industrial disputes in India. Labour welfare.
	C14-Working Class and Industrial Development	Working class leads to industrial development and economic growth.

Department of Philosophy

Program Outcome

Study of Philosophy as a subject is committed to strengthening its commitment to student's success and broadening the dimension of thought process of the students. The under graduation course of Philosophy is designed to enable the students to demonstrate an ability to think independently about a problem related to society and self and clearly articulate and support their own views. Students completing B.A. in philosophy will be able to explain how a particular thinker can attempt to address a philosophical problem and the significance of thinker's approach. Student will be capable of critical analysis of Philosophical argument concerning a particular topic or problem. Student completing under graduation with Philosophy are expected to achieve learning outcome grouped into following areas.

Program Specific Outcome After completing graduation in Philosophy a student can develop reasoning power to understand something systematically or methodically.

□ A student can improve his/her critical thinking skill.

 \Box A student can develop his/her communication skill charity relevance in written and oral presentations.

□ Ability to act morally or ethically

□ Awareness of one's own thinking and use of language.

□ A student can know that Philosophy is a good way to know certain things about logic, epistemology, metaphysics, ethics, and more other various issues as social political environmental and professional ethics and also about laws of nature. Casual relations and things that exist in the world.

Course Outcomes

Semester	Syllabus	Outcome
Semester I	Paper I Indian Philosophy	Indian philosophy and western philosophy this particular paper upgrades the dimension of thought process of the students on the issue like what is proper knowledge and how one can get this (mainly Epistemology studies) on the other hand metaphysics explains about the existence of God, Soul(mind) and world.
	Paper II Western Philosophy	
Semester II	Paper III Indian Philosophy	Indian philosophy and western philosophy, this particular paper upgrades the dimension of thought process of the students on the issues like what is proper knowledge and how one can get this (mainly Epistemological studies) on the
	Paper IV Western Philosophy	other hand metaphysics explain about the existence of God, Soul(Mind) and the World. The Outcome of the course is to understand the basic of Indian ethics which includes Hindu,

		Jain and Buddhist Ethics.
Semester III	Paper V Ethics(Indian)	Ethics: Value and evaluation knowledge of ethical theory. Knowledge of ways in which ethical theory it is applied to specific discipline and issues like business environment,
	Paper VI Logic (Indian & Western)	science medicine , technology , feminism and gender issues and issues related to what ought to do what ought not to do. This paper enhances the concept right wrong good and bad, understanding moral principles and their application in everyday life. Logic: Studies of logic improve
	Paper VII Symbolic Logic	the analytical skill and knowledge of the formal techniques of evaluating arguments and deductive system. This paper enhances the ability to critical thinking skills. Symbolic Logic: Explain and apply basic notions of symbolic logic define proposition and argument, explain propositional connectives, explain and exemplify truth value status of proposition, analyze natural language arguments by means of symbolic propositional logic: Express natural language sentences in symbolic language by means of an argument.
		symbolization key construct combined truth table of propositions. Identify equivalent propositions, identify status of a proposition, and identify status of an argument.
Semester IV	Paper VIII Ethics(Western)	Ethics: Comprehend philosophical writings dealing with morality. Paraphrase illustrates and explains ideas

		contained in philosophical writings dealing with morality. Critique and challenge philosophical ideas dealing with morality.
	Paper IX Social Philosophy	Social and Political Philosophy: This paper enhances the
	Paper X Political Philosophy	knowledge of socio political movements about the nation, of freedom, duty and rights the types of punishment. Basically this paper educates the students about how to apply the ethics norms in the society and its effects on the society.
Semester V	Paper XI Philosophy of Religion I	It explains about the nature of God, Proofs for the existence of God, about the problems of evil. What is the highest aim of human life? This paper
	Paper XII Philosophy of Religion II	for social harmony. It develops a sense of the value and a reflective attitude and sensitivity to the subtleties and complexities of Philosophical
	DSE 1 Applied Ethics Or Feminism	judgement and a life log commitment to learning.
	DSE 2 Yoga Philosophy Or Philosophy of science and spiritually	
Semester VI	Paper XIII Epistemology (Indian)	The course tries to formulate, clarify and answer the most
	Paper XIV Epistemology (Western)	general questions about knowledge for example, what is
	DSE 3 Metaphysics Or Contemporary Indian Philosophy	knowledge? After completing the course the students should be able to evaluate the central
	DSE 4 Metaphysics (Western) Or Contemporary Western Philosophy	theories and problems within epistemology and see the relevance of these in other contexts. Understand and to be able to discuss major philosophical problems in the

	western tradition. Asses
	arguments and philosophical
	Perspective using critical
	reasoning Express complex
	thoughts logically and
	coherently Utilize basic tools of
	philosophic enquiry and
	argument.

Department of Economics

Program Outcome

Economics Subject enables the learners to build up a professional carrier as economics, financial advisors, economics planners and policy makers. It prepares then to cope up with the stress and strain involved in the process of economics development. Department supports the education and training of students, teachers and research in economics.

Program Specific Outcomes

Through organizing guest lectures, workshops, seminars, industrial visit and extension activities it enables students to learn economics, particularly its applications and foster the development of their own skills in economics reasoning and understanding.

Course Outcomes

Semester	Syllabus	Outcome
Semester I	Microeconomics-I	Students will be able to apply
		supply and demand analysis to
		examine the impact of
		government regulation and it
		also enable then to explain
		determinants of demand,
		responses of market and the
		benefits of exchange.
	Money and Banking	
		It attempts to impact an
		understanding of monetary
		economics. It describes
		carefully the basics of monetary
		economics like money. Value
		of money, theories of money,
		banking and international
		financial institutions.
Semester II	Macroeconomics-I	It provides knowledge
		regarding the formulation of
		broad economic policies that

	Indian Economy	 maximize the level of national income, providing economics growth to achieve sustainability, full employment, price, stability, external balance, increasing productivity in the long run. It makes learners to understand the economic functioning and conditions of our country in the context of past, present and future.
Semester III	Statistical Method in Economics	Statistical methods for economics will help the students understand the issues regarding data collection, Data analysing.
	Macroeconomics II	It provides knowledge regarding the formulation of broad economic policies that maximize the level of national income, providing economics growth to achieve sustainability, full employment, price, stability, external balance, increasing productivity in the long run.
Semester IV	International trade and public finance	Enable the students the patterns and nature of international trade and their contribution to economic development. It also enables learners to know the role of public authorities in raising revenue and its pending.
	Economics of development	It makes the students to understand the aspect of development process in low income counties. Its focus is on improving the potential for the mass of population through health and education.
Semester V	Economics thought	Gives idea to the students about the systematic development of economic theories beginning from pre modern and modern

		era.
		Students will develop a critical
	Agricultural Economics	understanding on the
		development of agricultural
		sector in India and on
		issues like food security and
		climate change
Semester VI	Environmental Economics	As environmental problems are the burning issues of present day, the study of environmental economics helps them to know the method of controlling environment pollution and thereby to achieve sustainable development.
	DEMOGAPHY	The study of demography is very importance to an economy. Population studies help us to know about growth rate of an economy with the growth rate of population.

Department of Psychology

Program Outcome The vision of good psychology is to empower communities with knowledge of mind body relationship to eliminate unnecessary illnesses and improve quality of life The department of psychology focuses on student's growth so that they can understand basic concepts of psychology and also use this concept for their betterment.

Program Specific Outcomes Develop on interdisciplinary understanding on the workings of human mind and behaviour and use this understanding to advance psychological theory research and applications. Consume and provide input for psychologicalliterature by demonstrating proficiency in research deign, methods and statistical analysis, computing skills and ethical standards; and develop a habit of expressing these with advanced oral and written skills; share in naonal and internationalplatform.

Course Outcomes:

Semester	Syllabus	Outcome
Semester-I	Foundation of psychology	This course provides an introduction to
		foundational concepts and topics within
		contemporary psychology.

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	Statistical method for psychological research	To create critical understanding at quantitative techniques. To understanding the nature of the data distribution. Having a dual focus, theoretical and methodological, the course will enable the candidates to become more sensitized to the social and political layering of our complex and nuanced subjectivities.
Semester II	Bio Psychology	To provide knowledge and understanding of brain, mind and behaviour relationship with the telpot current developments in the field of bio psychology scientific theories, clinical and real life example.
	Educational Psychology	To enable the students teachers to understand the concept and principles of growth and development.
Semester III	Research Psychology	To inform students about the basics of scientific research in applied psychology. To make them learn the statistical rigors in designing research and processing data.
	Health Psychology	To understand causes of pathological behaviour and its psycho diagnostic and classification of mental disorders.
	Applied Social Psychology	To help students understand social problems and gain knowledge about intervention strategies. To learn how social psychology is used in applied setting to understand and ameliorate social problems
Semester IV	Emergence and growth Psychology	Explain how Psychology changed from a philosophical to a scientific discipline. List some of the most important questions than concern psychologist
	Statics	Students will be able to organize, manage and present data. Analyze statistical data graphically using frequency distributions and cumulative frequency distributions.
	Social Psychology	To familiarize students with some of the major theoretical perspectives in social psychology. To appreciate interpersonal

		and aroun loval novahala sigal negation
		the cultural context.
Semester V	Organization Psychology	To enable students to examine relevant concepts of organizational behaviour and help them evolve a framework of OB. To help then think critically about OB concepts and its applications for Indian realities.
	Abnormal Psychology	Explain major psychological concepts and theoretical perspectives about the field of abnormal psychology and major psychological problems and disorders. Discuss the empirically based integrated view of the research in the area of
	Educational Psychology	abnormal benaviour.
		To develop on understanding of educational psychology western and Indian context. To enable the student teachers to understand the concepts Principles of growth and development
	Emotional Intelligence	Be able to relate more effectively to their colleagues and to others. Knew how to communicate in emotionally intelligent way. Understand how to demonstrate empathy in a wide range of situations.
Semester VI	Clinical Psychology	This course will imparts knowledge on individuals relation to society, the processes involved there in and manner of research dare students will expand knowledge about social psychology and human behaviour.
	Counselling Psychology	To introduce the basic concepts of applied psychophysiology and bio feedback. So that the students can apply these technique in health care. To identify different parameters of psychological assessment.

Department of English

Program Outcome

- □ Tounderstand and learn English Language and Literature at its core for the knowledge.
- \Box To equip students with English knowledge as to seek jobs in public services.
- \Box To make students aware about social, moral and ethical values through learning humanities.

 \Box To enhance and develop students' ability to grasp, understand and utilize the knowledge of arts and humanity into research.

□ To equip students of humanities for the opportunities in higher education.

□ To propagate and inculcate culture and worldsocial heritage amongst students.

Program Specific Outcome

Language and Literature courses in the Department of English offer students the opportunity to study influential writings from the British, American and Global Anglophone traditions. Courses provide imaginative and critical insights into all areas of human experience – war and peace, nature and culture, love and sexuality, selfhood and social identity, justice and atrocity, the sacred and the profane, the burdens of the history and dreams of the future. They help students to build skills of analytical and interpretive argument. The help to become careful and critical readers, practice curetting in a variety of genres as a process of intellectual enquiry and creative expressions and ultimately to become more effective thinkers and communicators as well as equipped for a variety of careers in our information-intensive society. The important goals are following

Equip students with knowledge of English as a World Language.

□ Equip Students with analytical skills in linguistics, communications and literary criticism.

 $\hfill\square$ Train students for careers and advanced studies in a wide range of English, Public Relations or Communications fields.

- □ To develop faculty of skill in students.
- □ Increasing indepth knowledge of the core areas of the subject.
- Developing sense of experience amongst students.

To nurture the nation of Value Education in the course.

 \Box To transfer skills/attitude.

Course Outcomes:

Semester	Syllabus Paperwise	Outcome
Semester I	Paper I History of English Language	To develop an understanding of English Language and English Literature
	Paper II History of English Literature	
Semester II	Paper III Early Modern Literature	The students would gain an understanding of Early Modern Literature, Restoration and Angustan
	Paper IV Restoration an Angustan Literature	Literature
Semester III	Paper V Early Romantics	The students would gain an
	Paper VI Romantic Poetry	romantic poetry and Victorian poetry

	Paper VII Victorian Poetry	
Semester IV	Paper VIII 19th Century Novel	Century Novel Through the prescribed Novels and Poetry the students would get a glimpse
	Paper IX 20th Century Poetry	of the social problems prevalent in the 19_{th} and 20_{th} Century England
	Paper X 20th Century Novel	
Semester V	Paper XI 20th Century Drama	Students are introduced to the deeper understanding of Literary criticism and
	Paper XII History of Literary Criticism	English Drama. They are also introduced Linguistics and communication skills to
	DSE I The study of English Drama	interact then thoughts.
	DSE II The study of English Drama	
Semester VI	Paper XIII American Literature	Students are introduced to the deeper understanding of American Literature,
	Paper XIV Indian English Literature	Indian English Literature and some dramas. They are also introduced Linguistics and Communication skill
	DSE III The Study of English Drama	
	DSE IV The Study of English Drama	

Department of Urdu

Program Outcome The B.A. graduates pursue B.Ed. course and opt teaching career in the schools. Also they can do P.G. students in their respective subjects studied in Urdu Graduate level. After their post graduation they may do M.Phil. Or PhD and take teaching as their career in higher education institutions. Other career option: Journalism, Tourism, Judiciary (Law), Linguistics etc. They are eligible to appear for any competitive exams, conducted by UPSC, Indian Railway etc for entering into government services. They also pursue higher studies doing MBA, PGDC, Certificate Course of any discipline; students interested in Urdu language subject can do the job in the following areas:

- □ Research
- □ Editing
- □ Journalism
- □ Media
- □ School Teachers etc

Program Specific Outcome The students of First year and second year BA Urdu will be able to gain the knowledge of Idioms of language an art of essay writing including the life and works of prose and poetry writing. They also know about the different genres of Urdu language and literature. The language grammar and very importantly Mabadiyat-e-Arooz and Usool-E-Taqtee. The history and evolution of letter writing in Urdu know about the unique style of very famous Urdu poet. Mirza Asadullah figure Sr, Sayed Ahmad Khan, the founder of AMU Aligarh. There are famous literary genres i.e. Urdu Ghazal along with its history and development. The Urdu travelogue its beginning and gradual development and about the famous writer Mujtaba Hussain. The history and Gradual development of Urdu nazm selected Nazms of Akhtarul Iman and Khalilur Rahman Azmi.

Semester	Syllabus paper wise	Outcome
Semester I	Core I Basic Urdu Grammar and composition	To write the Urdu language in right way and to develop the composite dialogue.
	Core II Urdu Literature	To develop the literature in Urdu to be an author.
Semester II	Core III Classical Poetry	To enhance the poetic art in human beings and to understand the gestures of
	Core IV Classical Prose	others. To link old views upto modern cultures.
Semester III	Core V Asnaf-e-Adab Urdu	To convey the thoughts and pain partwise into others through remarkable shairy.
	Core VI Urdu Shairy	In short time actual facts are represented
	Core VII Urdu Prose	in deep meaning.
Semester IV	Core VIII Introduction of some important Urdu books	Short introduction of important Urdu books so as to review in modern society.
	Core IX Modern Urdu Poetry	To know the mixing of Novel story and
	Core X Modern Urdu Fiction	short story
Semester V	Core XI Lesaniyat	Definition, Origination and development
	Core XII Arooz-o-Balaghat	To develop technical art of poetry
Semester VI	Core XIII Persian Language and Literature	To study the Persian language of IRAN to important books, author of Persian, know the life style.
	Core XIV History of Islam	To study account of Islam to tie all people in one formula and to live peacefully.

Department of Hindi

(Program Outcome)

Importace of Hindi

- (क) हिंदी भारत की राष्ट्रभाषा है I (ख) यह सरल एवं सुबोध है (ग) हिंदी अधिकतम मनुष्यो के द्वारा बोली एवं समझी जाती है I
- (ख) कार्यक्रम विशिष्ट परिणाम (Program Specific Outcome) "हिंदी विषय का महत्त्व " (क) हिंदी एक रोचक विषय है I (ख) इसकी कहावत कहानिया आनंद प्रदान करने वाली होती है I (ग) हिंदी साहित्य का इतिहास दिलचस्प एविं ज्ञानवर्धक है I (घ) विषय ऐसी होनी चाहिए जिसमे रोचकता के साथ साथ ब्यावहारिकता एविं नैतिकता का समावेश होता है.

यह सारी विशेशताएँ हिंदी विषय में प्रचुर मात्रा में उपलब्ध है I

पाठयक्रम परिणाम (Cou	arse Outcome)
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Semester	Syllabus paper wise	Outcome
Semester I	कोर I आदिकाल नामकरण	हिंदी साहित्य के आदिकाल के अंतर्गत
	वीरगाथाकाल हसद्धसामन्तकाल	विभिन्न नामकरण को लेकर विद्यार्थियों में
	अपभ्रिंशकाल	एक जिज्ञाशु प्रवृति का जन्म होता है.
	कोर II भक्तिकाल, सगुनभक्ति,	भक्तिकाल मै विभिन्न धाराओं में बहीभक्ति
	हनगुधणभक्ति, रामभक्ति,	के द्वारा नैतिक एविं बोद्धिक विकास का
	कृष्णभक्ति, ज्ञानभागीशाखा,	प्रादुर्भाव होता है. संगुन एवंनिर्गुण भक्ति के
	प्रेमभागीशाखा	द्वारा जहा धर्म की स्थापना होती है
		वही कर्म की प्रधानता भी दिखाई देती है.
Semester II	कोर III रीतिकाल श्रृंगारिकता	इस तरह के रचनाओं के माध्यम से विद्यार्थी
	में परिपूर्णकाल	में जहा भगवान के प्रति लगाव होता है।वही
	कोर IV आधुनिककाल,	संसार के प्रति भी
	भारतेन्दुयुग ,द्वेदीयुग	अद्भुत प्रेम का संचार होता है।
		इस युग को साहित्य का समृधिकाल एवं
		निर्माणकाल कहा जाता है।इस युग की रचना
		व्याकरण सम्मत है।
Semester III	कोर V आधुहनककाल और	छायावाद के माध्यम से विद्यार्थी प्रकृति के
	साहहत्यछाँयावाद प्रगहतवाद	साथ तथ्य स्थापित करने में सक्षम होते है।
	कोर VI प्रयोगवाद नयी कहवता	पयोगवाट नयी कविना बोदिक विकास मे
		होता है।

	कोर VII हिंदी उपन्यास	भगवतीचरण वर्मा एवं प्रेमचंद जैसे
		उपन्यासकार से साक्षात्कार विद्यार्थियों के
		मनोबल को बढ़ाता है।
Semester IV	कोर VIII हिंदी कहानी ईदगाह,	भावनाप्रधान कहानी पढ़ने से नैतिक विकास
	उसने कहा था, ताई, मधुआ,	होता है।
	हल्दीघाटी।	
	कोर IX हिंदी नाटक लेहरो के	ऐतहाहसक नाटक के माध्यम से हम छात्रोिं
	राजहंस, अम्बपाली	में बौक्तद्धक विकास को बढ़ाते है।
	कोर X हिंदी एकाकी नए	एकाकी कम खचध और समय की बचत
	मेहमान, सुखी डाली, सीमा रेखा	हसखाता है।
	एकाकी सप्तक	
Semester V	कोर XI हिंदी आलोचना	आलोचना अच्ची भी होती है और बुरी भी।इससे
		नैहतक और बौक्तद्धक हवकास सिंभव है।
	कोर XII काब्यसास्त्ररस दोहा	इससे व्याकरण की जानकारी बढ़ती है हजससे
	अन्प्रास उपमा अलंकार ।	लेखन क्षमता में बृक्तद्ध होती है।
	कोर XIII उपन्मास , परती कथा	544 4415 4 601 54160 61 44160 64
	, आपका बिंटी, ए लड़की	का प्ररणा हमलता ह।
	कोर XIV नाटक.आसाढ का एक	
	हदन, कोणार्क, रक्षाबंधन	
Semester VI	कोर XV जनसंचार	जनसंचार, पत्रकाररता के माध्यम से एक
	कोर XVI पत्रकाररता	दूसरे से जुड़ा होता है।
	कोर XVII सूरदास	सूरदास की भक्तिमय रचनावात्सल्यरस से
	कोर XVIII राष्ट्रभाषा हिंदी	े आतप्रात , रचना पढ़कर दया आर करुणा का
		संचार हाता ह
		हिंदी हमारी राष्ट्रभाषा है। यह देवनागरी लिपि
		में लिखी गयी है । यह एक ब्य्ज्ञानिक भाषा है
		तथा सरल एवं सुबोध है।भाषा के प्रति लगाव
		और झुकाव होता है।

Department of Sanskrit

Program Outcome

इस पाठ्यक्रम के पूरा होने पर छात्रो के पास अवसर और कौशल होगे। छात्र न केवल प्राचीन साहित्य और उनके वगीकरण बल्कि आधुनिक संस्कृत साहित्य भी जान सकेंगे। छात्रो को प्राचीन भारतीय शैक्षनिक प्रणाली और राजनितिक, उनकी प्रकृति के बारे में सीखना होगा। छात्रो को भारतीय एपोग्रफी, पेलोग्राफी के एतिहासिक महत्व के बारे में पता होगा। वे इस भाषा की दुनिया भर में महत्व, प्रचार को जान सकेंगे। छात्र भारतीय दर्शन, दर्शनशास्त्र, अर्थशास्त्र और उनके विचारो के बारे में जान लेंगे।

Program Specific Outcome

संस्कृत भाषा समूह की एक बहुत समृद्ध भाषा है। प्राचीन भारतीय के बारे में जानने के लिए संस्कृत एक माध्यम है इतिहास, संस्कृत , धर्म, सामाजिक जीवन अपने पाठ के माध्यम से जान सकते है। प्राचीन भारतीय इतिहास, दर्शन और साहित्य की एक मजबूत अवधारणा विकसित करें। छात्र देवनागरी लिपियों को लिखने में सक्षम होगे जो उन्हें पुरातन ज्ञान प्रदान करते हैं. वेद जैसे संस्कृत के साहित्य की बहु-अनुशासनात्मक प्रासिंगकता की उचित समझ,फिलोसोफी, व्याकरण, काव्य, स्मृतिशोध आदि। स्नातक बनने के बाद छात्र UPSC, WBCS आहद के क्षेत्र में आवेदन कर सकते हैं और पोस्टग्रेजुएशन के बाद भी वे स्कूलो, कॉलेजो और अन्य शैक्षणिक संस्थानों में शिक्षण पदो के खिलाफ आवेदन कर सकते हैं। **Course Outcome**

Semester	Syllabus paper wise	Outcome
Semester I	Core I	इसमें हिंदी से संस्कृत एविं संस्कृत से
		हिंदी में अनुवाद करने के लिए छोटे छोटे
		वाक्य के माध्यम से ज्ञान दिया जाता है.
		इस पत्र में प्रत्याहार का ज्ञान एवं उसके
	Core II	हनमाधण का हबहधवत अध्ययन
		कराया जाता है साथ सिंज्ञा एविं सिंहध
		सूत्रो द्वारा बके बुक्तद्ध को हवकहसत
		हकया जाता है
Semester -II	Core III तकधसिंग्रह	तकधसिंग्रह द्वारा ब का बौक्तद्धक
		हवकास हकया जाता है .
		इसमें सभी दशधनो का सामान्म
	Core IV दशधन	पररचय कराते हुए बो का ज्ञान हदया
		जाता है . इस पत्र में वेदात, योग, साख्य,

		मीमासा द्वारा ब के बुक्तद्ध का हवकास
		हकया जाता है
Semester III	Core V संस्कृत साहित्य का	इस पत्र में रामायण , महाभारत ,
	इतिहास	महाकाव्य, एवं गद्यकाव्य के द्वारा
		बचों का सांस्कृतिक एवं
		आध्याक्तत्मक ज्ञान दिया जाता है
		.इसमें वैदिक और लोकिक संस्कृत का
		ज्ञान बचो को दिया जाता है जिससे
		व्याकरण का ज्ञान होता है .
	Core VI अभिज्ञानशकुन्तलम	इसमें सामाजिक मूल्यो का उन्नयन
	किरातजुनियम	होता है . साथ ही समाज को इसे देखने से
		ज्ञान हवकहसत होती है . इस महाकाव्य
		के अध्ययन से नैतिक न मूल्योका वी
		कास होता है . सामाजिक राजनैतिक
		तथ्यो के द्वारा बुद्धि का वीकास होता है
	Core VII यैयावियास्मृहत	इसमें आधार सम्बन्धी विशेष रूप से
	उत्कीणध लेखपज्यकम	दिया जाता है . इसके द्वारा बच्चो का
		बोद्धिक वीकास किया जाता है .
semester IV	Core VIII शिवराजविजय	इसमें बच्चो को नाटकीय वातावरण का
		परिचय करते हए उन्हें ज्ञान दिया जाता
		े ह
	Core IX व्याकरण निषध	इसके माध्यम से छात्रो का बौद्धिक
		विकास होता है . साथ ही संस्कृत पढ़ने
		और निबंध लिखने का ज्ञान होता है .
		इससे बच्चो का कला का विकास होता है
	Core X संहिता	इसमें ऋग्वेद , यजुवेद, और अथवधवेद
		के सभी देवताओं का परिचयात्मक ज्ञान
		दिया गया है जिससे बच्चो को वेद का
) ज्ञान होता है .
semseter V	Core XI हरीशश्चिंद्रोपाख्यानम	इसमें स्त्ति प्रार्थना द्वारा किस प्रकार
	कठोपनिसद	छुटकारा मिलता है . यह ज्ञान बच्चो को
		- कराया जाता है . इसमें आत्मा परमात्मा

		का संपर्क ज्ञान बच्चो को कराया जाता है
	Core XII भाषा विज्ञान	इसमें सभी प्रकार के भाषाओ का ज्ञान
		ादया जाता ह
semester VI	Core XIII मेघदूतम कुमारसंभवम	मेघदूतम गीतीकाव्य के द्वारा बच्चो को
		कल्पिक ज्ञान दिया जाता है ताकि वह
		अपनी किना से भी कुछ रचना कर सके .
		इस महाकाव्य के द्वारा बच्चो को शिव
		पार्वती एवं अन्य पथ्यों का ज्ञान दिया
	Core XIV	जाता है .
	कोटिल्य का अर्थशाश्त्र	इसमें बच्चो को अर्थशाश्त्र से संबधित
		सभी प्रकार के ज्ञान दिया जाता है
		हजसमे बच्चो की सोचने की शक्ति
		बढ़ती है .

Department of Music:

This course is a pass course run by the institution to produce interest in subject besides Honours .several students are interested to participate in cultural programme conducted by the institution, MMG.

Outcome :

- The students are developed in music art and cultures.
- To establish coordination among general theory and practical.
- Specific outcomes:

To encourage in a singer and music player

To be a music director To maintain health care due to removing grief and painful life.

Department of Home science

Program outcome:

Home science is a special science of human beings to live healthy with all required elements as well as to be adapted in surroundings. There are following outcomes of Home science regarding to its consistency.

- It provides knowledge of food and nutrition
- It gives art of human development.
- It ensures child right and social action
- Physiology and promoting health
- Sustainable development

Program specific outcome:

- 1.A candidate acquires graduate degree.
- 2.It can provide postgraduate degree
- 3.It can turn in research field to develop new health source
- 4 It provides job in public and private sector
- 5 It can make one food expert as in health care department and NGOs also.

Faculty of Science

The Bachelor of Science requires three years of full time study consisting of six semesters. The college offers 5 honours courses in science subjects: Physics, Chemistry, Mathematics, Botany and Zoology. Apart from the specific honours and program subjects, the skill enhancement courses (SEC), ability enhancement compulsory course (AECC), generic courses (GE and discipline specific elective (DSE) are included in the curriculum of the affiliating university. These courses introduce a wide range of topics to students, develops reasoning through unfamiliar problems through critical and analytical thinking and to find a systematic approach in analysis solving problems through teamwork with importance to safe laboratory practice.

Department of Mathematics

Programme Outcome:

Scientific temper will be developed in Students.

Students will become employable; they will be eligible for career opportunities in Industry, or will be able to opt for entrepreneurship.

Students will possess basic subject knowledge required for higher studies, professional and applied courses like Management Studies, Law etc.

Students will be aware of and able to develop solution oriented approach towards various Social and Environmental issues

Programme Specific Outcome:

A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology.

A student should get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences.

Student is equipped with mathematical modelling ability, problem solving skills, creative talent and power of communication necessary for various kinds of employment.

Student should be able to apply their skills and knowledge that is translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.

Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study

Course Outcome

Semester	Syllabus Paper wise	Outcome
Semester I	C-1-Set Theory and Abstract	Be able to draw and interpret Venn
	Algebra	diagrams of set relations and operations
		and use Venn diagrams to solve problems.
		Recognize when set theory is applicable to
		real-life situations, solve real-life problems,
		and communicate real-life problems and
		solutions to others. Students will have a
		working knowledge of important
		mathematical concepts in abstract algebra
		such as definition of a group, order of a
		finite group and order of an element

		Students will gain experience and confidence in proving theorems.
	C-2-Trigonometry and Linear Algebra	 Convert between decimal degrees, degree-minute-seconds, and radian measure of an angle 2. Solve triangle (right, acute, obtuse), given various angles and sides. Demonstrate knowledge of several trigonometric identities and use them to verify other identities. Graph trigonometric functions. Analyze the solution set of a system of linear equations. Express some algebraic concepts (such as binary operation, group, and field). Do elementary matrix operations
Semester-II	C-3-Differential Calculus and Two Dimensional Geometry	Knowledge of Riemannian manifolds and sub manifolds. Knowledge of operators on forms and integrations, Lie derivative, Stokes theorem, Gauss-Bonnet formula and Index theorem. Tackle problems on General Relativity, control of non-linear systems, shape analysis.
	C-4-Integral Calculus and Three Dimension Geometry	Describe the definite integral and construct anti derivatives using the Fundamental Theorem of Calculus. Compute indefinite and definite integrals using by techniques of integration Compute indefinite and definite integrals using by the method of substitution. 1. To get basic knowledge about Circle, Cone, Parabola, Hyperbola, Ellipse etc. 2. To understand the concepts & advance topics related to two & three dimensional geometry.
Semester III	C-5-Real Analysis	Basic definition of metric space, norm linear space and inner product space. Series and sequence of continuous functions. Equicontinuous families, Arzela-Ascoli Theorem and Stone-Weierstrass Theorem. Function of several variables and differentiation in Rn. Inverse and Implicit function Theorem. Submanifolds of Rn and Rank Theorem

	C-6-Infinite Series C-7-Ordinary Differential Equation	After completing this section, you will inshaAllah be able to 1. Know what is meant by infinite series & its convergence 2. Learn methods for knowing convergence/ divergence of some basis series. 3. Apply divergence test to determine divergence of an infinite series 1. To learn methods to solve linear differential equation with constant coefficients. 2. To learn methods for solving non-homogenous differential equation. 3.To learn power series solution method using ordinary and singular points. 4. To solve system of first order differential
		equations
Semester IV	C-8-Vector Analysis	Analyze vector functions to find derivatives, tangent lines, integrals, arc length, and curvature, Differentiate vector fields, Determine gradient vector fields and find potential functions, Evaluate line integrals directly and by the fundamental theorem
	C-9-Partial Differential Equation	On successful completion of this course students will be able to: use knowledge of partial differential equations, modelling, the general structure of solutions, and analytic and numerical methods for solutions. Formulate physical problems as partial differential equations using conservation laws.
	C-10- Statics and Dynamics	
		At the end of this course, students should be able to: 1. Identify, isolate and idealize the system of interest for the application/process 2. Identify the nature of the connections between bodies and create an idealized representation for it. 3. Convert the task from the real world into a symbolic representation. 4. Develop equilibrium relationships for non- accelerating particles acted on by forces. 5. Develop equilibrium relationships for non- accelerating two or three dimensional rigid

		 bodies. a. Calculate the direct (resultant forces) and rotational (resultant moments) effects of external stimuli on a rigid body. 6. Identify the need for additional empirical laws such as Hooke's Law and Coulomb Friction to complete the system of equations.
Semester V	C-11-Real Analysis	Describe the fundamental properties of the real numbers that underpin the formal development of real analysis; 1. Demonstrate an understanding of the theory of sequences and series, continuity, differentiation and integration.
	C-12-Complex Analysis and Optimization	After studying this course, Students should be able to: find a rational and an irrational number between any two distinct real numbers. solve inequalities by rearranging into simpler equivalent forms and solve inequalities involving modulus signs Learn optimization techniques and numerical methods of optimization. Know the basics of different evolutionary algorithms
Semester VI	C-13-Abstract Algebra and Ring Theory C-14-Vector Space and	Students will have a working knowledge of important mathematical concepts in abstract algebra such as definition of a group, order of a finite group and order of an element Students will gain experience and confidence in proving theorems. Write precise and accurate mathematical definitions of objects in ring theory; Use mathematical definitions to identify and construct examples and to distinguish examples from non-examples; Write about ring theory in a coherent, grammatically correct and technically accurate manner
	Numerical	Explain the concepts of base and dimension of vector space . Explain the concept of dimension of a vector space . Express vector spaces in different dimensions. Explain base concept of a vector space and properties of vectors on the base. Derive numerical methods for various mathematical operations and tasks,

such as interpolation, differentiation,
integration, the solution of linear and
nonlinear equations, and the solution of
differential equations. Analyse and
evaluate the accuracy of common
numerical methods.

Department of Chemistry

Program Outcome

- □ Understanding of major concepts of chemistry.
- □ Ability to think methodically, logically and independently.
- □ Employ scientific knowledge to design, carry out, record and analyses chemical reactions.
- □ Create Awareness of the impact of chemistry in society the environment.
- □ Usage of modern techniques, equipment's etc.

Program Specific Outcome

Ability to explain nomenclature, reactivity, & mechanism of chemical reactions.

Identity chemical formulae & solve numerical equations.

Have a firm foundation in the fundamentals & application of cement scientific theories in chemistry, including those in analytical, Inorganic, Organic & physical branches of chemistry.

branches of chemistry.

Practical and theoretical knowledge of chemistry to proceed to higher studies and various industries & departments

Semester	Syllabus paper wise	Outcome
Semester I	INORGANIC	Students learned about structure of atom. They
	CHEMISTRY-I	know about element and its importance.
	PHYSICAL CHEMISTRY	Students get information of the gaseous laws
	II	like Boyle law, Charles law, Avogadro's law,
		Ideal gas law etc. Students will study the
		difference between Ideal gas equation and
		Vander waal corrected gas equation
Semester II	ORGANIC CHEMISTRY I	Students are able to build different projection
		forms. They are able to assign conformation
		and configuration.
	PHYSICAL CHEMISTRY	
	II	By interpreting the real gases, the student will
		be able to solve the problems.
		Describes the ideal and real gases. Uses the Van
		Der Waals gas equation. Uses the real gas and
		Van Der Waals isoterms. Explain the terms pH,
		fta, pfta, ftw and use them in calculations
		\Box Calculate [H ⁺ (aq)] and pH values for strong
		and weak acids and strong bases

Course Outcome

		□ Explain the choice of suitable indicators for
		acid-base titrations, given appropriate data.
Semester III	INORGANIC	To describe the Arrhenius model for acids and
	CHEMISTRY-II	bases. To determine whether a given chemical
		substance is an Arrhenius acid or an Arrhenius
		base (or neither). To list one acid, and one
		base, whose behaviour is not consistent with
		the Arrhenius model for acids and bases
	ORGANIC CHEMISTRY-	Many organic compounds are closely related to
	II	the alkanes. As we noted previously, alkanes
		react with halogens to produce halogenated
		hydrocarbons, the simplest of which have a
		single halogen atom substituted for a hydrogen
		atom of the alkane. Classify alcohol phenol and
		ether and also name them according to IUPAC
		nomenclature. Understand the various reactions
	PHYSICAL	involved in the preparation of alcohol phenol.
	CHEMISTRY-III	
		State the thermodynamic criterion for
		equilibrium in terms of chemical potential.
		Derive and interpret the Globs Phase Rule.
		Understand the concept of rate of change
		that the rate of change and how it can be
		measured. Determine rate law of chemical
		change based on experimental data
Semester IV	ORGANIC CHEMISTRY-	On completion of this course, the students will
	III	be able to: Able to write electronic
		configuration of given atomic number. Predict
		the carbon skeleton of amines and heterocyclic
		compounds via use of Hoffmann's exhaustive
		methylation and Emde's modification methods.
		Understand the applications of these
		compounds including their medicinal
		applications \Box through their reaction chemistry.
	DINICICAL	Able to tell the name of orbitals by recognizing
	CHEMISTRY IV	shapes of orbitals.
	CHEMISTRY-IV	On completion of this course, the students will
		be able to: By the end of this course, students
		will be able to: Explain the variation of
		conductance with dilution for weak and strong
		electrolytes using Arrhenius theory and Debye
		Huckel Onsager theory. Determine
		transference number using Hittort and Moving
		Boundary methods. Learn the applications of
		conductance measurements.

	1	
Semester V		On completion of this course, the students will
	ORGANIC CHEMISTRY-	be able to: Develop a sound understanding of
	IV	the structure of Pharmaceutical Compounds
	1 4	and \square understand the importance of different
		and \Box understand the importance of different
		classes of drugs and their applications for
		treatment of various diseases. Learn the
		synthesis, properties and reactions of nucleic
		acids, amino acids and peptides
		On completion of this course, the students will
		be able to: By the end of this course, students
		will be able to: Learn about limitations of
		classical mechanics and solution in terms of
	Physical chemistry V	$guantum machanics \square$ for stamic/malacular
		quantum mechanics for atomic/molecular
		systems. Develop an understanding of
		postulates of quantum mechanics, quantum mechanical operators, quantization, probabilit
		mechanical operators, quantization, probability
		distribution, uncertainty principle. Solve
		quantum mechanically the various systems like
		a particle in a box, harmonic oscillator, rigid
		rotator and hydrogen atom.
Semester VI	INORGANIC	On completion of this course, the students will
	CHEMISTRY-IV	be able to: Gain insights into the basic
		principles of qualitative inorganic analysis
		Apply 18 electron rule to account for the
		stability of matal as the nuls and related spacing
		stability of metal carbonyls and related species.
		Understand the nature of Zeise's sait and
		compare its synergic effect with that of
		carbonyls.
	ORGANIC CHEMISTRY-IV	
		On completion of this course, the students will
		be able to: Learn about the chemistry of
		biodegradable and conducting polymers and
		assess the need of biodegradable polymers with
		emphasis on basic principles. Learn about basic
		principles of UV IR and NMR spectroscopic
		techniques to interpret the \square spectra to
		determine structure and storeochemistry of
		brown and unknown compounds. How better
		known and unknown compounds. Have better
		knowledge of the chemistry of natural and
		synthetic polymers including fabrics and
		rubbers

Department Of Physics

Program Outcome

Demonstrate a thorough conceptual understanding in the core areas of physics (classical mechanics, electrodynamics, and statistical mechanics) and the supporting mathematics, including the range of validity of key concepts (e.g. conservation laws).

Program Specific Outcome

To understand the basic laws and explore the fundamental concepts of physics To understand the concepts and significance of the various physical phenomena.

To carry out experiments to understand the laws and concepts of Physics.

To apply the theories learnt and the skills acquired to solve real time problems.

To meet the social requirement such as to save energy and to prevent the pollution.

To be an engineer, researcher and scientist to explore new device as far as efficient.

To acquire a wide range of problem solving skills, both analytical and technical and to apply them. To enhance the student's academic abilities, personal qualities and transferable skills this will give them an opportunity to develop as responsible citizens. To produce graduates who excel in the competencies and values required for leadership to serve a rapidly evolving global community. To motivate the students to pursue P.G. courses in reputed institutions. This course introduces students to the methods of experimental physics. Emphasis will be given on laboratory techniques specially the importance of accuracy of measurements. Providing a hands-on learning experience such as in measuring the basic concepts in properties of matter, heat, optics, electricity and electronics.

Semester	Syllabus paper wise	Outcome
Semester I	Paper I Mathematical	Students will demonstrate competence with the basic ideas
	Physics I	of linear algebra including concepts of linear systems,
		independence, theory of matrices, linear transformations,
		bases and dimension, eigenvalues, eigenvectors and
		Diagonalization
	Paper II Mechanics	Students will be able to articulate and describe: 1 Relative
		motion. Inertial and non inertial reference frames. 2
		Parameters defining the motion of mechanical systems and
		their degrees of freedom. 3 Study of the interaction of
		forces between solids in mechanical systems. 4 Centre of
		mass and inertia tensor of mechanical systems. 5
		Application of the vector theorems of mechanics and
		interpretation of their results. 6 Newton's laws of motion
		and conservation principles. 7 Introduction to analytical
		mechanics as a systematic tool for problem solving. 8 Use
		of mechanical simulation software.
Semester II	Paper III Electricity and	The candidate should among other things have knowledge
	Magnetics.	about: - Fundamental laws and concepts in electricity and
		magnetism, especially with regard to Maxwells laws -
		Electrical circuits and the most common components in
		such: resistors, capacitors, and inductors - The properties
		of static electric and magnetic fields and how they arise -
		The properties of simple, time-dependent electric and
		magnetic fields and what kind of physical phenomena they
		generate - Electromagnetic waves and their properties -
		Important historical experiments in the field of electricity

		and magnetism
	Paper IV Optics	The student will get an introduction to the discipline of optics and its role in the modern society. The student shall master the geometrical approximation, including Guass thin lens formula, Fermat's and Huygen's principles, and the paraxial matrix formalism for refractive and reflective surfaces. The student will be able to analyze typical optical imaging systems, with emphasis on the human eye, the camera, the telescope and the microscope
Semester III	Paper V Mathematical Physics II	Use the method of Laplace transforms to solve initial-value problems for linear differential equations with constant coefficients
	Paper VI Physics of Thermodynamics	Describe basic concepts of Thermodynamics
		Restate definition of system, surrounding, closed and open system, extensive and intensive properties. Calculate absolute and gage pressure, and absolute temperature. Calculate changes in kinetic, potential, enthalpy and internal energy. □ Judge the properties of pure substances
		Judge the state of the pure substances such as compressed liquid, saturated liquid-vapor mixture and superheated vapor using property diagrams and tables Arrange the ideal and real gas equations of state
	Paper VII Analog Systems and Applications	Illustrate working principle of different electronic circuit and their application in real life. Define semiconductor device and different operating condition and their performance parameter. Choose proper semiconductor devices depending upon application considering economic and technology up- gradation. Employ mathematical and graphical analysis considering different practical issues modelling of semiconductor device; analyze the performance parameter of the system. Recognize different signal processing circuit and the use in industrial, real life, modern control system application
Semester IV	Paper VIII Mathematical Physics III	Solve a Cauchy problem for the wave or diffusion equations using the Fourier Transform
	Paper IX Quantum Mechanism	On satisfying the requirements of this course, students will have the knowledge and skills to: Identify and understand the kinds of experimental results which are incompatible with classical physics and which required the development of a quantum theory of matter and light Interpret the wave function and apply operators to it to obtain information about a particle's physical properties such as position, momentum and energy 3. solve the Schrödinger equation

		to obtain wave functions for some basis physically
		to obtain wave functions for some basic, physically
		important types of potential in one dimension, and estimate
		the shape of the wave function based on the shape of the
		potential
		4. understand the role of uncertainty in quantum physics,
		and use the commutation relations of operators to
		determine whether or not two physical properties can be
		Simultaneously measured.
	Paper X Digital Systems	Have a thorough understanding of the fundamental
	and Applications	concepts and techniques used in digital electronic. To
		understand and examine the structure of various number
		systems and its applications in digital design.
Semester V	Paper XI Atomic,	Apply the mathematical tools developed to various
	Molecular Laser and	quantum mechanics problems develop problem solving
	Nuclear physics	methods that will include mathematical as well as
	F,	numerical computations and solutions. Build connections
		between mathematical development and concentual
		understanding
	Paper XII Solid State	The student will understand the band formation in solids
	Physics	by using different models along with electron behaviour in
		solid Also gain knowledge of magnetic properties of
		materials. The student will able to understand and evaluin
		internation of lattice in solide through different. Theories
		interaction of lattice in solids through different. Theories
		and temperature effect on solids. Students Able to
		elaborate electron in potential wells, degeneracy state,
		density of states, thermal and electrical conductivity of
-		metals, and thermoelectric power
	DSF I	To make understand of electronic communication link and
	DSE II	activation.
		To provide the idea of rank and tensor concepts.
Semester VI	Paper XIII	Recognize and classify the basic Electrostatic theorems
	Electromagnetic Theory	and laws and to derive them. Discuss the behaviour of
		Electric fields in matter and Polarization concepts. Classify
		the basic Magneto static theorems and laws and infer the
		magnetic properties of matter. Summarize the concepts of
		electrodynamics & to derive and discuss the Maxwell's
		equations. Students are expected to be familiar with
		Electromagnetic wave propagation and wave polarization
	Paper XIV Statistical	
	Mechanics	On completion of the course, the student should be able to
		Cincompletion of the value of the value of the student should be able to.
		Give an account of the relevant quantities used to describe
		macroscopic systems, thermodynamic potentials and
		ensembles. Give an account of the macroscopic and
		microscopic description of temperature, entropy and free
		energy and their descriptions in terms of probabilities give
		an account of the theory of statistical mechanics and the
		approximations making a statistical description possible
		apply the theory to understand gases and crystals and in

	addition be able to construct microscopic models and from these derive thermodynamic observables.
DSE III	To provide the mechanical concepts and how to use in
DSEIV	The introduce the nuclear model and different particles
DSEIV	along with features according to classification.

Department of Botany

Programme Outcomes

Apply the knowledge of biology to make scientific queries and enhance the comprehension potential. Function as an individual, as a member or a leader to perform a task in class room situation or during field study. Responsible for learning, develop honesty in work and respect for self and others. Convey and practice social, environmental and biological ethics. Insist the significance of conserving a clean environment for perpetuation and sustainable development. Study incessantly by self to cope with growing competition for higher studies and employment.

Programme Specific Outcome

Educate students about plant science. Inculcate strong fundamentals on modern and classical aspects of Botany. Create platform for higher studies in Botany. Facilitate students to take-up successful career in Botany.

Semester	Syllabus paper wise	Outcome
Semester I	Microbiology	1.To inculcate knowledge in cell divisions,
		functions, microbial physiology and genetics
		of microbes 2. To inculcate knowledge in
		relationship between human disease and
		micro organisms, pathogenicity, laboratory
		diagnosis and treatment methods. 3.To
		inculcate knowledge in human immune
		response
		Students learn to identify various divisions of
		algae and compare their characteristics
		through microscopic observation. Student
	Algae and Fungi	gain awareness about economic importance
		of algae in various field like medicine,
		agriculture, research and industries which
		helps them to also understand the practical
		application of the algal studies. Students get
		familiarised with identification of various
		divisions of algae through microscopic
		observation. Student gain awareness about its
		role in controlling various plant diseases and
		get acquainted about economic importance of
		algae in various field and its practical

		application in fields like medicine
		agriculture, research and industries
Semester II	Bryophytes and Pteridophytes	Understand the morphological diversity of
		Bryophytes and Pteridophytes. Understand
		the economic importance of the Bryophytes
		and Pteridophytes. Know the evolution of
		Bryophytes and Pteridophytes
	Paleobotany & Gymnosperms	Know the scope of Paleobotany, types of
		fossils, its role in global economy and
		geological time scale. Know about the
		structure, life history and Economic
		importance of Gymnosperms. Understand the
		various fossil genera representing different
		fossil groups
Semester III	Morphology & Systematic of	Understand the habit of the angiosperm plant
	Angiosperms	body. Know the vegetative characteristics of
		the plant. Learn about the reproductive
		characteristics of the plant. Understand the
		plant morphology.
	HISTOLOGY &ANATOMY	Histology- The student will be able to
		identify the basic structure of cells, tissues
		and organs and describe their contribution to
		normal function. The student will be able to
		interpret light- and electron-microscopic
		histologic images and identify the tissue
		source and structures The students will learn
	Plant Pathology	About the basic concepts in anatomy
		nhysiology. To understand the plants and
		plant cells in relation to water
		Understand the process of photosynthesis in
		higher plants with particular emphasis on
		light and dark
Semseter IV	Embryology & Economic	To identify and compare structural
	Botany	differences among different taxa of vascular
		plants. To know the structure and
		development of monocot and dicot embryos.
		To compare the function and morphology of
		pollen grains. Describe and illustrate modern
		and fossil spores and pollen grains.
		Economic botany- On Completion of this
		Course students will be able To understand
		the phylogeny of plants. To know about
		various plant diseases and their control
		measures. To understand life cycles of
		different algal species. To explore economic
		Importance of algae and fungi
	Cell Biology	This course presents the types and structural

		details of the basic unit by which all the
		living things are made of (the cell). Cooler To
		nving things are made of (the cell). Goals: 10
		make the student to understood the concept
		of cell and their activities. This course
		presents the types and structural details of the
		basic unit by which all the living things are
		made of (the cell). Goals: To make the
		student to understood the concept of cell and
	Dhysiology & Matcheligm	their activities and molecular signalling.
	Filysiology & Metabolishi	This course deals with various processes of
		plants like photosynthesis (particular
		emphasis on light and dark reactions),
		respiration, translocation, and absorption and
		nitrogen metabolism. The students also get
		an insight into the various types of plant
		movements.
Semester V	Molecular Biology	The students will understand the basic
		concepts of molecular biology
		Understand the "Science of Heredity".
		Realize the role of genes in evolution of
		species. To understand linkage, segregation
		and mutation of genes during evolution.
		Understand the science of plant breeding To
	Genetics & Plant Breeding	introduce the student with branch of plant
		breeding for the survival of human being
		from starvation. To study the techniques of
		production of new superior crop verifies
Somostor VI	Biochemistry & Biotechnology	The students will understand the basic
Semester vi	Biochemistry & Bioteemology	Concepts of genetic engineering and plant
		tissue culture and its application Gain
		knowledge about the mechanism and essential
		component required for DNA replication
		Understand the fundamentals of Recombinant
		DNA Technology On completion of the
		course students are able to: 1 Understand
		the Biochemical nature of cell 2 Know the
		chemical nature of biomolecules 3
		Understand the different types of interaction
		in Piomologulas
	Ecology and environmental	Know the nature and its as relation with
	Biology	know the flattle and its co-felation with
	Diology	numan society. Realize the impact of numan
		activities on environment. Understand global
		the sustainable development
		the sustainable development and care of
	Ethnobotany	environment. Understand the connection
	· ····································	between material wealth & resources
		exploitation. Worth the relationship between
		economic growth and
		to know about medicinal plant related with

tribal areas for their uses of medicinal	
purposes.	

Department of Zoology

Program outcome: Students gain knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms and analyse complex interactions among the various animals of different phyla, their distribution and their relationship with the environment Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms. Understands the complex evolutionary processes and behaviour of animals Correlates the physiological processes of animals and relationship of organ systems Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species Gain knowledge of Agro based Small Scale industries like sericulture, fish farming. Understands about various concepts of genetics and its importance in human health. Develop sympathy and love towards the animals

Program specific outcome Understand the nature and basic concepts of taxonomy, cell biology, genetics, physiology, ecology, Molecular Biology, Toxicology, and Biotechnology and applied Zoology.

Analyse the relationships among animals, plants and microbes. Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Evolution, Cell biology, Genetics, Applied Zoology, Toxicology, Biochemistry, , Animal biotechnology, Immunology and Animal Behaviour. Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture and Sericulture. Gains knowledge effective communication and skills of problem solving methods and contributes the knowledge for Nation building.

Program Outcome:

Zoology is one of the most fundamental unit of basic sciences studied at undergraduate level.

The program helps to develop scientific tempers and attitudes, which in turn can prove to be beneficial for the society since the scientific developments can make a nation or society to grow at a rapid pace.

After studying this program, students will be more equipped to learn and know about different biological systems, their coordination and control as well as evolution, behavior and biological roles of the animals in the ecosystem.

Moreover, they will be able to qualitatively and quantitatively analyse evolutionary parameters using various bioinformatics and computational tools used in modern sciences.

This will provide them ample opportunities to explore different career avenues.

The program will also provide a platform for classical genetics in order to understand distribution or inheritance of different traits and diseases among populations, their ethnicity and correlate with contemporary and modern techniques like genomics, metagenomics, genome editing and molecular diagnostic tools.

After the completion of this course, students have the option to go for higher studies, i.e., M. Sc. / Integrated MS Ph.D. and then do research work for the welfare of mankind.

After higher studies, students can join as scientist or assistant professor or assistant teacher and can even look for professional job oriented courses, such as Indian Civil Services, Indian Forest Service, Indian Police Service etc. Science graduates can go to serve in industries or may opt for establishing their own industrial unit.

Practical and theoretical skills gained in this program will be helpful in designing different public health strategies for social welfare.

The program has been designed to provide in-depth knowledge of applied subjects ensuring the inculcation of employment skills so that students can make a career and become an entrepreneur in diverse fields.

After the completion of the B.Sc degree there are various other options available for the science students.

Program Specific Outcome:

Students enrolled in B.Sc. (Hons.) degree program in Zoology will study and acquire complete knowledge of disciplinary as well as allied biological sciences.

At the end of graduation, they are likely to possess expertise which will provide them competitive advantage in pursuing higher studies from India or abroad; and seek jobs in academia, research or industries.

Students will be able to define and explain major concepts in the biological sciences. They are able to correctly use biological instrumentation and proper laboratory techniques.

Students will be able to communicate biological knowledge in oral and written form. Students will be able to identify the relationship or synchronization between structure and function at all levels: molecular, cellular, and organismal.

Students should be able to identify, classify and differentiate diverse chordates and nonchordates based on their morphological, anatomical and systemic organization. They will also be able to describe economic, ecological and medical significance of various animals in human life.

This will create a curiosity and awareness among them to explore the animal diversity and take up wild life photography or wild life exploration as a career option. The procedural knowledge about identifying and classifying animals will provide students professional advantages in teaching, research and taxonomist jobs in various government organizations; including Zoological Survey of India and National Parks/Sanctuaries.

Students will be able to apply the scientific method to questions in biology by formulating testable hypotheses, gathering data that address these hypotheses, and analyzing those data to assess the degree to which their scientific work supports their hypotheses.

Students will be able to present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists.

Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.

Acquired practical skills in biotechnology, biostatistics, bioinformatics and molecular biology can be used to pursue career as a scientist in drug development industry in India or abroad.

The students will be acquiring basic experimental skills in various techniques in the fields of genetics; molecular biology; biotechnology; qualitative and quantitative microscopy; enzymology and analytical biochemistry.

These methodologies will provide an extra edge to our students, who wish to undertake higher studies.

Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth.

They will be able to use specific examples to explicate how descent with modification has shaped animal morphology, physiology, life history, and behavior. Students will be able to explain how organisms function at the level of the gene, genome, cell, tissue, organ and organsystem.

Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and behavior of different forms of life.

Students will be able to explicate the ecological interconnectedness of life on earth by tracing energy and nutrient flows through the environment.

They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.

Students undertaking skill enhancement courses like aquaculture, sericulture and apiculture will inculcate skills involved in rearing fish, bees and silk moth which would help them in starting their own ventures and generating self employment making them successful entrepreneurs.

SEMESTER	SYLLABUS(PAPER WISE)	OUTCOME
Sem 1	C1-Animal Diversity Non chordate-1	
	C2-Group A Animal Diversity (Non chordate 2)	1.To make the student observe the diversity in nonchordates and their systematic position. 2.To make them aware of the economic importance of some classes. 3.To make the student observe the diversity in nonchordates.
	C2 Group B Animal behaviour	 Explain the relationship of behaviour and Cognition. Explain Rhythmic behaviours. Explain Social behaviours. Explain feeding and Reproductive behavior. Describe behavior assessment.
Sem 2	C3-Animal Diversity (chordates)	 To make the student observe the diversity in chordates and their systematic position. □ To make them aware of the economic importance of some classes.
	C4 Group A-Comparative Anatomy of vertebrate	1. To determine phylogenetic origin and modifications of their various homologous structures like heart,kidney,brain,integument etc.
	C4 Group B-Ecology	 To create appreciation on diversity of life on earth and its ecosystem. To understand different levels of Biosphere. The learner will be able to link the intricacies of food chains, food webs and link it with human life for its betterment and for non- exploitation of the biotic and abiotic components.
Sem 3	C5- Biostatistics	For counting and measurement of research data of blood count,grouping,Hb% etc .
	C6-Evolution	 Evolution is change in the heritable characteristics of biological populations over successive generations. These characteristics are the expressions of genes that are passed on from parent to offspring during reproduction.
	C7-Biochemistry	 Attained the knowledge of macromolecule such as carbohydrates, protein and fat, their types and significance. Described the enzymes, mechanism of enzyme action and factors affecting the

		enzyme activity
		3 Understeed the types and importance of
		5. Understood the types and importance of
0 1		
Sem 4	C8-Palaentology	1. The final goal of paleontology is to use
		knowledge of past life to develop new
		concepts and principles of evolution and
		ecology and perhaps even develop new
		theories about how our world has changed
		over time.
	C9-Genetics	1. To emphasize the central role that genetics
		in the life of all organisms.
		2. Described the genetic variation through
		linkage and crossing over, gene frequency,
		chromosomal aberrations and sex
		determination
		3. Understood the theories of classical
		genetics and blood group inheritance in
		man
		1 \square Explain the concept of mutation
	C10 Molecular Diology	1 Explain DNA structure \Box 2 Decembrose the
	C10-Wolecular Biology	Control dogmo of molecular hiology
		2. Un demote a d the made and a structure of a small
		2. Understood the molecular structure of genetic
		materials and understood the mechanism of gene
		expression and regulation character formation.
		3. Illustrate the mechanism of replication,
		transcription and translation. \Box
		4. Justify the post transcriptional and post
		translational modifications.
Sem 5	C11- a)Toxicology	1. Illustrate the toxic effects of chemicals in
		the environment on human and his
		livestock.
		2. Imparted knowledge of habitat ecology,
		pollution and bioremediation of
		pollutedenvironment.
	b. Biotechnology	1. To understand principles of animal culture.
		media preparation.
		2. To explain Invitro fertilization and embryo
		transfer technology
		3 To describe meristem culture and clonal
		nronagation of plants on a commercial
		scale
		A To got insight in applications of
		4. 10 get insight in applications of
		recombinant DNA technology in
		agriculture, production of therapeutic
		proteins.
		5. To describe commercial production of

		fuels, microbial enzymes.
		6. To explain the microbial degradation of
		pesticides, Bioremediation & Biofertilizers.
	C. Zoogeography	1. It is very important for understanding and
		studying the factors in and modes of
		speciation.
		2. Geographic speciation, which is caused by
		territorial isolation of populations, is the
		main if not the only way in which new
		forms and species are created
	B Cell Biology	1 To emphasize the central role of Cell
	D. Cell Diology	hiology being the most developing areas of
		biological science
		2 To make aware of different cell organelles
		2. To make aware of unferent cert organienes,
		2 To develop oritical thinking shill and
		5. To develop critical thinking, skill and
0 (research aptitudes.
Sem 6	C13-a) Applied & Economic	1. Gain knowledge to define the concepts of the
	Zoology	applied subjects like Fisheries, Aquaculture etc.
	b)Immunology	
		2. Gain knowledge to explain the tools and
		techniques used in aquaculture and agricultural
		practices.
		3. The student will be able to describe the fish
		species commonly used in fishery business.
		4. Identify different species and casts of
		honeybees and species of silkworm. \Box
		5. Explain the tools and techniques used in
		apiculture and sericulture. \Box 7. The student
		will be able to explain the important pests
		of apiculture and sericulture.
		6. Describe the economic importance of
		honeybee and silkworm.
		7. The students will be able to identify the
		cellular and molecular basis of immune
		responsiveness.
		8. The students will be able to describe the
		roles of the immune system in both
		maintaining health and contributing to
		disease.

C14- a) Mammalian Knowledge of basic terms in physiology. 1. physiology 2. Understood about the composition of food and mechanism ofdigestion absorptionand assimilation, respiration, excretion, nerve conduction etc. The student will be able to understand the 3. physiological processes in mammals. \Box 4. Explain the anatomy of various systems. 2 fertilization process of fertilization and cleavage. Prepare the flow chart of of Biology 2. gametogenesis identify the process.and developmental Identity the developmental stages. Understood the process of organogenesis of selected organs, development of extra embryonic membrane and the nature and physiology of placenta. 3. I hereby declare that the institution, Mahila Mahavidyalaya Godda (MMG) conduct B.A. and B.Sc. Course under SKM University Dumka with honours as well as general courses as mentioned above. Sd 11:10.21 Principal Pro-In-Charge Mahila Mahavidyalya Godda