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GOVT DEGREE COLLEGE SHAHPURA DIST. DINDORI (M.P.)
IQAC Coordinator

प्राचार्य
शासकीय स्नातक महाविद्यालय
शहपुरा जिला डिण्डौरी (म.प्र.)

GOVERNMENT DEGREE COLLEGE SHAHPURA, DINDORI (M.P.) 481990

Email : gdcshahpura@gmail.com

Website : www.gdcshahpura.in

UGC Course Outcomes

Class		Paper		Course Outcome
B.Sc. I Year	Mathematics	I-Algebra and Trigonometry	CO 1	To learn divisibility of integers and congruencerleletion. To learn basic matrix algebra and method to find solutions to system of linear equations. Also to learn eigenvalues and eigerivectors of matrix.
			CO 2	Expand sinθ, cosθ and tanθ by using Demoivre's theorem. Expand Cosθ, sinθ and tanθ in terms of θ Define hyperbolic functions Define inverse hyperbokic functions.
		II-Calculus and differential equations	CO 1	To learn basic properties of real numbers and its subsets which is backbone of real analysis CO2. To study functions in detail which is a fundamental structure in all sciences, and to be able to check continuity of a function.
			CO 2	To Apply notion of derivative in mean value theorme and also in higher order derivatives which arise in all applied sciences and able to solve first order and first degree differential equations.
		III-Vector Analysis and Geormetry	CO 1	Unerstand the applications of vector algebra (particularly vector products) to geometry and mechanics - concureent proces in a plance, theory of couples system of parallel forces. Learn operations with vector-valued fuchtions.
			CO 2	To learn analytical geometry of 2 and 3dimensions which include study of conics, planes, lines, sphere, cone and cylinder valuate integrals by using Green's Theorem auss's theorem, Stokes theorem and gauss's theorem.
	Physics	I-Thermodynamics and Satistical Physics	CO 1	Understand the nature of calorimetry by specific heat of solids and law of thermodynamics and entropy Analyses of zeroth law of thermodynamics and entropy. Understanding the low temperature physics.
			CO 2	Analyses thermal conducitivity and black body radiation Understanding the statistical methods.
		II-Mathematical Physics, Mechanics and General Properties of Matter	CO1	Study of bending behaviour beams and analyse the expression for young's modulus. Understand the surface tension and viscosity of fluid.
			CO 2	Understand the dynamics and gravitation, study the behaviour of rigid body dynamics.

B.Sc. I Year	**Chemistry**	**I-Physical Chemistry**	CO 1	Learn mathematical concepts required for understanding physical chemistry. Learn computer, its hardware, software and operating systems.
			CO 2	Understand concepts behind solid, liquid and gaseous states of matter Understand collaids, macromolecules and concepts behind catalysis and its applications.
		II - Inorganic Chemistry	CO 1	Understand atomic structure, modern perodic table and periodic properties of elements. Understand the concept of chemical bonding.
			CO 2	Learn chemistry of S and P block elements and extraction and solution of Li, Be and F2. Preparation, properties and structures of common compounds such as diborane, borazine, hydrazme, interhalogens and polyhalides and fluorides of xenon and chemistry of oxyacides.
		III-Organic Chemistry	CO 1	Know structure and bonding of compounds of carbon and factors that control their reactivity such as inductive effict, resonance, hyperconjugation etc. Gain basic knowledge of stereochemistry of organic molecules.
			CO 2	Learn Chemistry of alkenes, alkynes, alkadienes, cycloalkanes, alkyl halides, grignard's reagent, alcohols,ethers, carbonyl compounds, carboxylic acids and amines. Understand syntheses and application of active methylene compounds.
	Botany	**I- Diversity of Microbes and cryptogams**	CO 1	To gain knowledge about microbial diversity. To have the ability to utilize the concept of mushroom cultivation.
			CO 2	To understand the phylogeny of plants. To know about various plant diseases and their control measures. To understand life cycles of different algal species.
		II- Diversity of Higher Plants	CO 1	Learn about the general characters and classificartion K.R. Sporne, stelar evolution in pteridophytes, heterospory and origin of seed habit.
			CO 2	Know about the structure, life history and Economic importance of Gymnosperms. Studies the methods of fossilization and fossil plants.
	Zoology	**I- Animal Diversity Non-Chordata**	CO 1	Learn about the importance of symatics, taxonomy and phylogeny to get a concrete idea of evolution of non-chordates and chordates. Understnads the various morphological, anatomical structure and function of animals of different phyla.

B.Sc. I Year	Zoology		CO 2	Identify invertebrate animals of different phyla and their histology through study of museum specimens and slides, learn their different systems through dissections, and enhance collaborative learning and communication skills through practical sessions, team work, group dissussions, assingments and projects.
		II- Cell biology, reproductive and developmental biology	CO 1	Develop deeper understanding of what life is and how it functions at cellular level. Understand the nature and basic concepts of cell biology, Reproductive and Developmental biology.
			CO 2	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.
	Foundation Course	**I- Hindi Language and Moral Values**	CO 1	Understanding Hindi Language, Poems and know about 'Ek Bharat Shreshtha Bharat'
			CO 2	Able to know behavioural ethics and moral values.
		II- English Language	CO 1	Understand Basic language skill, vacabulary, word formation and noun, verb, adverrb and tenses.
			CO 2	Able to write a paragraph in English and comprehension.
		III- Entrepreneurship Developmet	CO 1	Able to understand about Goal determininationl, Problem, Challenges and solution.
			CO 2	Understand role of regulatory institutionl, Financial management for projects and how to overcome from the problems in Entrepreneurship.
B. Sc. II Year	**Mathematics**	**I- Abstract Algebra**	CO 1	Understand the basic concepts of groups and the theory of rings. The Field of Quotients, Polynomial Rings.
			CO 2	Understand the Homomorphism and Isomorphism of groups and Homomorphism and Isomorphism of Rings, Fundamental Theorem of Ring Homomorphism.
		II- Adanced Calculus	CO 1	Understand about sequence, bounded and monotonic sequence able to apply taylor's and Euler's Theorem for solving problem.
			CO 2	To be able to evaluate Maxima and minima of function of two variables. Able to evaluate double and triple integrats.
	Mathematics	**III- Differential Equations**	CO 1	To be able to solve first order and first degree differential equations.
			CO 2	To apply motion of derivative in mean value theorem and also in higher order derivatives which arise in all applied sciences.

B.Sc. II Year	**Physics**	**I- Waves and Optics**	CO 1	Understand the natural behaviour of aberration in lens. Study the theory and experiment of interference using air wedge, newton's rings and michelson interferometer.
			CO 2	Study the theory and experimental past of diffraction by fresneis and fraunhoffer methods. Study the theories for production of polarization of light.
		II- Electricity, Magnetism and Electromagnetic Theory	CO 1	Study the electric field using coloumbs inverse square law in electrostatics of current. Analyse the chemcemical and heating effect of current.
			CO 2	Analyse the relations between b,h and m. Understand the faradays law of electromagnetic induction by Rayleigh's method analyse, be value of maxwell equation - boundary conditions.
	Chemistry	**I- Physical Chemistry**	CO 1	Understand concepts of thermodynamics (first and second law) and thermochemistry. Understand Chemical and Phase Equil Brium.
			CO 2	Understand underlying concepts of electrochemistry. Electrochemical cells, buffers and corrosion.
		II - Inorganic Chemistry	CO 1	Understand concepts of electrode potential, EMF diagrams and their utility. Understand chemistry Transition Elements and their Coordiantion Compounds.
			CO 2	Study Non aqueous solvents such as liquid ammonia and liqued sulphur dioxide.
		III- Organic chemistry	CO 1	Study chemistry of carbohydrates with special reference to structure and configuration of glucose and fuctose understand structure and aromaticity of benzene and mechanism of electrophilic substitution reactions.
			CO 2	Study different classes of aromatic compounds such as aromatic halogen, nito,amino, diazonium salts, aromatic sulphonic acide, phenols, aldehydes and ketones, aromatic acide polycuclear hydrocarbons, heterocyclic compounds.
B.Sc. II Year	**Botany**	**I- Structure Development and Reproduction of Flowerin Plants**	CO 1	Learn about Mendelian principles and knowledge about gene mapping methods & Extra chromosomal inheritance.
			CO 2	Familiarize about Evolution & Emergence of evalutionary thoughts and Gain knowledge on plant breeding techniques.
		II - Plant Ecology, Biodiversity and Phytography	CO 1	To have knowledge of the nature and fuction of genes, processes of inheritance. To describe linkage, crossing over and mutations.
			CO 2	To understand ecological relationships between orgainsms and their environment. To identify diversity of life forms in an ecosystem. To understand the role that biodiversity plays in consevation science.

B.Sc. II Year	**Zoology**	**I - vertebrates and avolution**	CO 1	Imparts conceptual knowledge of origin of vertebrates, their adaptations and associations in relation to their environment able to classify chordates. Understand relationship between invertebes and vertebrate.
			CO 2	Imparts knowledge regarding the various theories of origin of life, evolutionary process such as variation, speciation, natural selection, evolution of primates and man understand various kinds of animal adaptations.
		II - Animal Physiologyd Bio - Chemistry	CO 1	Comparative animal anatomy is a comprehensive subject that gives in depth knowledge of various antomical processes in the animal kingdom understand anatomical evalution of animals.
			CO 2	Physiological and biochemical understaning through scientific enquiry into the nature of mechanical, physical, and biochemical fuctions of humens, their organs, and the cells of which they are composed interactions and interdependence of physiological and biochemical processes.
	Foundation Course	**I- Hindi Language and Moral Values**	CO 1	Develop Hindi reading & Linguistic comprehension of students. Develop interest in literalure story and poetry. Inculcate moral and human values within themselves.
			CO 2	Use their moral and social sense in life. Make special use of language for their expression.
		II - English Language	CO 1	Develop English reading & lingurstic comprehension of students.
			CO 2	Besiding correspondence skill (Formal and informal letters and application) Translation of sentences.
		III - Environmental Studies	CO 1	Understand Ecology, ecosystem and Ecological Pytamids and types able to know about the types of pollution and their prevention.
			CO 2	Able to know Natural resources, problems and conservation also understand Disaster management and environmental laws.
Class		**Paper**	**Course Outcome**	
B.Sc. III Year	**Mathematics**	**I - Linear Algebra and Numerical Analysis**	CO 1	Difine Vector space, Quotient space Direct sum, linear span and linear independence, basis and inner product. Discuss the linear transformations, rank, nuility find the characteristic equation, eigen values and eigen vectors of a matrix.
			CO 2	Define Basic Concepts of operators Δ, $\sum$, solve problems using newton forward formula and newton backward formula. Find maxima and minima for differencial difference equation find the solution of ordinary differential equation of first by Euler, Taylor and Range Kutta methods.

B.Sc. III Year	**Mathematics**	**II- Real and Complex Analysis**	CO 1	Compute sums, products, quotients, conjugate, modulus, and argument of complex numbers. Calculate exponentials and integral powes of complex numbers. Determine whether a given function is analytic.
			CO 2	Define Bilinear transformation, cross ratio, fixed point. Find residues and evaluate complex integrals, real integrats using the residue theorem.
		III- Discrete Mathematics	CO 1	Use mathematical logic to solve problems. Use sets for solving applied problems, and use the properties of set operations algebraically. Define graphs, digraphs and trees, and identify their main properties.
			CO 2	Evaluate Combinations and permutations on sets. Work with relations and investigate their properties.
	Physics	**I - Quantum Mechanics and Spectroscopy**	CO 1	Understand the basic significance of mechanics of a system of particles. Understand the old quantum theory. Perform the theories of quantum mechanics into scrodinger wave equation.
			CO 2	Analyse the ideas of basics of nucleus and their energy perform the procedures for nuclear fission and fusion and analyse the relationship between various types of couplings. Understand the properties of x-ray verfification.
		II - Solid state physics and devices	CO 1	Understand the basic concepts of force between atoms and bonding, between modules. Analyse the relationship bewteen conductors and insulators and super conductivity.
			CO 2	Understand the properties of matter and classifications polararation. Understand the properties of se conducotrs Analyse the relationship between semiconducotor devices and understand the applications of semiconductor devies.
	Chemistry	**I - Physical Chemistry**	CO 1	Understand elementary Quantum mechanics Understand nuclear forces , radioactivity and its applications.
			CO 2	Study Statastical/Molecular thermodynamics Understand Rotational Vibrational and Electronic Spectroscopy. Understand photochemistry. Surface chemistry, chemisrty of dilute solutions and colligative properties.
		II - Inorganic Chemistry	CO 1	Study chemistry of Lanthanides and Actinides and understand crystal field theory for coordination compounds and their electronic spectra.

			CO 2	Study structure and bonding of metal Carbonyls Metal Nitrosyls get knowledge of Environmental chemistry including environmental poliutants, green house effect and global warming . Acid rains, Ozone layer.
	Chemistry	**III - Organic Chemistry**	CO 1	Understand elimination reactions, selected molecular rearrangements and important name reaction. Study chemistry of common polymers and Dyes.
			CO 2	Study Polynuclear hydrocarbons such as Anthracene and Phenanthene. Study chemistry of quinoline, isoquinoline and modole gain knowledge about amino acids, peptides and proteins.
	Botany	**I - Plant Physiology, Biochemistry and Biotechnology**	CO 1	Know about the requirement of mineral nutrition for plant growth. Understand the process of Photosynthesis, Respiration and Nitrogen metabolism.
B.Sc. III Year	**Botany**		CO 2	Learn about sensory Photobiology know about the plant Growth hormones. Auxins, Gibberellins Cytokinins. Ethylene. Understand the biosynthesis of terpenes, phenois and nitrogenous compunds.
		II- Ecology and Utilization of Plants	CO 1	Learn the Approaches to the study of Ecology. Understand the Population & Community Ecology Concept of metapopulation.
			CO 2	To explore the uses of plants as medicine by traditional indigenous approaches. Understand different systems of medicine and their uses and explain how current medicinal practices are often bases on ideigenous plant knowledge intoduced to different perspectives on on treating ailments.
	Zoology	**I - Genetics Ecology and Applied Biology**	CO 1	Students learn concept of heredity. Its materials. Mendelian laws and variations Students understands about cocept of gene expression, transcription and translation, concept of genes and genetic code . Concept of linkage, chromosomal aberration, mutation and sex determination.
			CO 2	Concept behind genetic disorder, human karyotype, HGP, chromosomal syndrome and multiple alleles Concept of genetic engineering, PCR, DNA fingerprinting, and gene therapy.
		II - Environmental and Conservation Biology	CO 1	Imparts knowledge to the student regarding environment and conservation biology. Understand concept of ecology, factors, food chain, biogeochemicla cycle and polulation ecolygy types of ecosysgtem - freshwater, marine and terrestrial and habitat ecology.

		II - Environmental and Conservation Biology	CO 2	Biodiversity and Conservation increase awareness and understanding of how human life depends on preserving animal species and natural ecosystems. Conserving biodiversity in the face of pressures such as land cleaning pest plants and animals and climate charge is a challenge facing land managers and policy makers globaliy.
	Foundation course	**I - Hindi Language and Moral Values**	CO 1	Know about print, Electronic, social media, know hindi proverbs and idioms. Know about the Madhya Pradesh Folk Arts.
			CO 2	Able to write orders, letter, memoand reminder letters in hindi know about Major reigion in word and their important features.
		II - English Language	CO 1	Understand direct and indirect, active passive voice and Drafting CV.
			CO 2	Building narration skills (narration of events and situation).
		III - Basics of Computer and information Technology	CO 1	Understand types of computing devices and their characteristics, Storage Devices and operating systems.
			CO 2	Able to work upon MS Power poing and MS Excel, Able to create Email account, cyber securtiy, viruses and anti viruses.
Class	**Paper**			**Course Outcome**
B.A. I Year	**Sociology**	**I- Basic Concept of Sociology**	CO 1	Acquire the basic knowledge of the terms such as single entry system. Statement of affiars departmental accounts. Inter departmental transfer brach accounting stock and deblors system depreciation hire purchase and installment purchase down payment.
			CO 2	Evaluate the cost of departmental purchase consolidated final accounts and default and repossession of goods under hire purchase system.
		II - Indian Society	CO 1	Apply different quanlilative models in solving business problems graphical solution by simplex method gain the knowledge about set theory. Matrix differentation and integration.
			CO 2	Analyse simple and compund interst indefinite and etimte integrals of simple functions evaluate the solution linear programming proble by using graphical and simplex methods.
	Hindi Literature	**I- Pracheen evam Madhykaleen Kavya**	CO 1	Understanding the role played by the poets of Bhakti cult in literature and society.
			CO 2	Describing the Krishna leela poetry of soordas by relating with his philosophy of his life.
	English Literature	**I - Poetry**	CO 1	To intoduce the students to the basic elements of poetry - to enrich the students through various perspectives readings in poetry.
			CO 2	To enable students to integrate macroeconomic analysis into business decisions.
		II - Prose	CO 1	To develop critical thinking in students.

B.A. I Year		**II - Prose**	CO 2	To enable them to write and appreciate different types of prose.
	Economics	**I - Micro Economics**	CO 1	The students understand the basic nature scope and meaning of micro economics.
			CO 2	Students acquire the knowledge how to allocate searce resources to get maximum satisfaction.
		II - Indian Economy	CO 1	Students understand nature of Indian Economy.
			CO 2	They understand various issues of population,k poverty, employment - unemployment and availability and uses of natural resources for sustanable development.
	History	**I - History of Indian & from Earliest Time to 122 A.D**	CO 1	Students know about stone age culture, vedic culture and religious movement in Early India.
			CO 2	Students know about socio Economic life religious life about History of India.
		II - Western world	CO 1	By Studying this paper students will know the immediate reasons for the two major world wars and the destructions cause this one can understand the necessity and measures to be taken to avoid the third world war. The vital role of he UNO in the world peace .The thought of strengthen of Uno will be brought to the minds of every student.
			CO 2	The students will analyse how russia's traditional monarchywas replaced with the world's first communist state.
	Political Science	**I - Basic Principles of Political Science**	CO 1	Student knows about organs of state government legeslative election and policy.
			CO 2	To know about libral capacity, right and democracy.
		II - Indian Government of Polities	CO 1	Students know about understand right, directive principales of state policy in the constitutional design of India.
			CO 2	Students know about Key political concept will faciliate students in real political world.
	Geography	**I - Physical Geography (Lithosphere)**	CO 1	I understand the effect of rotation of resolution the with know the internal structure of the earth know the importance of Big Bang theory.
			CO 2	Study the transation of rocks understand the work of.
B.A. I Year	**Geography**	**II - Introduction to Geography and Human Geography**	CO 1	Students will acqure as understnading of and apprecation for the relationship bewtwwn geography and culture.
			CO 2	Students will have a general understanding of global human population partenis . Factors the distribution and mobility of human populations including settlement and economic activities and networks. And human impacts on the physical environment.

B.A. II Year	**Sociology**	**I - Social Processes and Change**	CO 1	Acquire the basic knowledge of the terms such as single entry system. Statement of affiars departmental accounts. Inter departmental transfer brach accounting stock and deblors system depreciation hire purchase and installment purchase down payment.
			CO 2	Evaluate the cost of departmental purchase consolidated final accounts and default and repossession of goods under hire purchase system.
		II - Rural, Urban ansd Tribal Society	CO 1	Apply different quanlilative models in solving business problems graphical solution by simplex method gain the knowledge about set theory. Matrix differentation and integration.
			CO 2	Analyse simple and compund interst indefinite and etimte integrals of simple functions evaluate the solution linear programming proble by using graphical and simplex methods.
	Hindi Literature	**I - Arvacheen Hindi Kavya**	CO 1	Understanding the features of Adikal , Bhakti kal , Ritikal and adhunik kal. In context of socio - Cultureal and Politicla condition of the period.
			CO 2	Describing the philisophy of life as well as poems of Chyawadi Weiters Prasad, Nirala, Mahadevi.
		II - Hindi Bhasha Evam Sahitya ka Itihas our Kavyang Vivechan	CO 1	Understanding the features of Adikal , Bhakti kal , Ritikal and adhunik kal. In context of socio - Cultureal and Politicla condition of the period.
			CO 2	Understanding the history of development of Hindi drama, short stories and novels.
	English Literature	**I - Drama**	CO 1	On completion of the couse, the students should be familiar with the plays of master dramastists and will have developed the ability to appreciate and evaluate various types of plays.
B.A. II Year		**II - Fiction**	CO 1	To develop critical thinking and imagination through long and short fiction and to familiarze students with cultural diversity through different representative simples of fiction.
	Economics	**I - Macro Economics**	CO 1	Students understand the Year meaning, nature, and scope of macro-economice. They understand the difference between micro-economice and macro-economics.
			CO 2	Students acquire the knowledge about the nature of trade cycle and how to control it through mandatary and fiscal measures.
		II - Public finance and International Economics	CO 1	Students acquire the knowledge Year Economics about bond principles and theories of international trade which tend to govern the free flow trade in goods and services they also under stand health of econcomy with the help of balance of payment.

B.A. II Year	History	I - History of India (1200 to 1739 A.D)	CO 1	Students know about political history. Religious policy. Economic and social life about Delhi.
			CO 2	Students know about Mughal Administration, economic Development religious and Social idea.
		II - Main current of World history from 1871 to 1945 A.D.	CO 1	Students know about Indian Movement (1885-1947) National Congress Nationalism in India revolutionary movement.
			CO 2	National movements under Mahatma Gandhi.
	Political Science	I- Representative Political thinkers	CO 1	Students understand think Rajaram Mohan Roy. Political Lokmanya Tilak, Dayanand Saraswati, Gandi,Nehru, thinker M.N Roy, J.P narayan.
			CO 2	Students understand to western political thinker plan.
		II - Constitution of Major countries	CO 1	Aristotle, Machiavelli, Hobbes, Lock, Raussean theirs political thought about politicla view.
			CO 2	to know about election commission, election reforms and challengers before Indian democracy.
	Geography		CO 1	Understand latitudes, longitudes and international dead line. Acquire knowledge about origin of various land forms.
B.A. II Year	Geography	I - Physical Geography (atmosphere and Hydrosphere)	CO 2	To Understand formation of rocks their types and uses aquaire knowledge of external forces.
		II - Economic Geography	CO 1	Economic graduates base gone on to employment in a range of professional roles in both business and public sectors, such as international banking and and finance, Budget National goverments in many parts of athe world international organizations and development agencies, non-government organizationas, academia and current economic development.
			CO 2	At the end of this course students are expected to have a holistic understnading of fundamental concepts of geography and thereby he able to analyze the interrelationsjhips among them.
B.A. III Year	Sociology	I - Sociological Thinkers	CO 1	The ability to understand the key Sociological concepts on urbanization.
			CO 2	Awareness of the historical trajectory of urbanization and its forms in different contexts.
		II - Methods of Social Research	CO 1	Ability to understand the fundamentals of methodology and philosophical persuasions (approaches) of social science research.
			CO 2	Develop skill to select a research problem and roblematise it stating the rationale of the study.
	Hindi Literature	I - Prayojanmook Hindi	CO 1	Understanding the meaning, concept and importance of Functional Hindi.
			CO 2	Understanding various forms of Functional Hindi according to its area of application.

	Hindi Literature	**II - Hindi Natak, Nibandh,thatha Sphut Gady Vidhayen Evam Bundelli Bhasha**	CO 1	Understanding the drama Dhruvswamini written by Prasad in context of struggle for independence of women in patriarechat society.
			CO 2	Understanding the vision of premchand about middle class and his concern for strenghening the freedom movement in India through Gaban novel.
B.A. III Year	**English Literature**	**I - Poetry**	CO 1	To introduce the students to the basic elements of poetry - to enrich the students through various perspectives readings in poetry.
		II - Fiction	CO 1	To devlop critical thinking and anagination through long and short fiction and to students with cultural diserste through different requrement simples of fiction.
	Economics	**I - Development & Environment Economics**	CO 1	Students are able to understand economics how to optimize ithzation of rare resourse for sustanble development they understand such factors legal in economics development and growth.
			CO 2	Develop the knowledge about role and responsibilities of envirnment in economicactivities.
		II - Statistics	CO 1	They understand how to calculate and uses of mean mediam mode range mean and standard deviation for the analysis of set of data they identify the direction and strength of correlation between two factors of variables.
	History	**I - History of Indian & from (1740 to 1857 A.D.)**	CO 1	Analyze causation of french revolution and impact.
			CO 2	Profiency in interpreting events of nationalism in Germany and Italy and deploy skills of critial analysis of world war and its consequences.
		II - History of Indian & From 1858 to 1950 A.D.	CO 1	After completion of the course Student come to know the chronology of india's independence struggle and dedications and scarifies of the India national statement during indian Independence struggle.
			CO 2	The Social evils and the efforts made by the social reforners to eradiacte then since ancient and medieval times.
	Political Science	**I - Indian Foreign Policy**	CO 1	Students learn the significance of international institutions.
			CO 2	Students learn the various countries of foreign policies.
		II - Public administration	CO 1	Student learn the significance of public administration.
	Geography	**I - Geography of India**	CO 2	Students learn the new treads of new public Administration.
			CO 1	Identifyping and explaining the Indian Geographical Environment, from global to local scales.

	Geography		CO 2	Evaluationg the impacts of human activities on natural environments special reference to India.
		II - Environment and Resource	CO 1	Develop a perspective on the different problems and approaches to enviroment planning and development in India.
			CO 2	Getting information about climate change, Global warning, Acid rain, Green house effect, Ozone Layer depletion.

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Email : gdcshahpura@gmail.com

Website : www.gdcshahpura.in

PG Course Outcomes

Class	Paper Name		Course Outcome
M.A History I Semester	I - Historiographs concept. Mkethods & tools	CO 1	Student will be available to interpreter the changing and wider meaning of history.
		CO 2	Get To know that thoughtful authentic and systematic study of history is not enriching the social theory of for understanding the past has knowledge but for acquiring a new philosophical Outlook.
	II - Twentieth Century world	CO 1	Analyse National and international happenings.
		CO 2	They will be able to analyse the relations the past with the present situations.
	III - Modern India : History of India	CO 1	Know how to define various economic range under British in India.
		CO 2	Analyse the impact of use making events introduction of railways and modern industry in India.
	IV - State In India	CO 1	Evolution of historical ideas arguments and points of few presentation of a summary of a topic in an organised and complaining fashion for oraliy orwritten.
		CO 2	Students will require basic histical research skill including effective use of areas achieve and database.
M.A History II Semester	I - Historiographs concept. Mkethods & tools - II	CO 1	Understand the excellent works of many scholars philosophical theorists and critics.
		CO 2	Students will be available to understand the meanings nature scope and propose of history.
	II - Twentieth Century world - II	CO 1	The student will understand the important topics of world history students will understand imperialism nationalism world war.
		CO 2	They will also know about important resolution and their outcomes on the polity society economy and culture.
	III - Modern India : History of India - II	CO 1	Describe the first developed banking system physical system and traffic policy under British India.
		CO 2	Learn the development of modern industry industrial labour and government policy.
	IV - State In India - II	CO 1	Student now about political history religious policy economic and social life about Delhi sultante.
		CO 2	Student know about Mughal administration economic development religious and social life.

M.A History III Semester	**I - Modern History of India 1858-1975**	CO 1	Acquire the basic knowledge of the times such as singles entry system statement of affairs department tell account enter department transfer branch accounting stock and debtors system depretation higher purchase and installment purchase down payment.
		CO 2	Evaluate the cost of departmental.
	II - Ecohistory of India From 1757-1947	CO 1	Purchase competition final accounts and default and repossession of period under higher purchase system. Apply different quantitative models in solving houses problems graphical solutions age simplex method can the knowledge about set history Matrix display and integration.
M.A History III Semester		CO 2	Analyse simple and compound interest indefinite and definite integrals of simple function evolute the solutions of liner programming problems by using graphical and simple method.
	III- Freedom Movement in M.P. From 1857-1947	CO 1	The student will understand the importance of the political process in the present India they will learn how the political ideas developed during the present period.
		CO 2	Know the difference between Northern political system and Southern political system.
	IV - History of Marathas	CO 1	Evolute the sky economic and political condition of Maharashtra in the yearly 17th century.
		CO 2	Explain the contribution of immigrants (Marathas) on religion.
M.A History IV Semester	**I - Modern India : History of India from 1858 to 1975 A.D.**	CO 1	Student now about political history religion policy economic and social life about Delhi Sultante.
		CO 2	Student know about Mughal administration economic development religions and social life.
	II - Economic History of India A.D. 1757-1947	CO 1	Kno how to define economic background of mid 18th century under British period.
		CO 2	Student will understand and be available to explain the basic concept associated with various land revenue settlements e.g. zamindari ryotwari and mahalwari.
	III - Freedom movement of M.P. 1857-1947	CO 1	Know students to freedom movement in MP 1857-1987 now about to MP freedom fighter.
	IV - History of Marathas 1627-1818	CO 1	Reflect in written and oral from own various aspect of Maharashtra tradition Heritage and contemporary identify.
		CO 2	Explain the reason behind Chhatrapati Shivaji yearly conflict with the religious lord and the outsiders.
Class	**Paper Name**		**Course Outcome**
M.A. Hindi I Semester	**I - Hindi Sahitya ak itihaas yevan uski sanskritik pristhi bhoomi**	CO 1	Understanding the importance and basis of the names given to each period of Hindi literature.
		CO 2	Understanding the features of aadikal bhaktikal ritikal and aadhunik kal in contest of socio. culture and political condition of that period.
	II - Pracheen Yevam madhyakaaleen kavya	CO 1	Describing the philosophy of life as well as poems of chhayawadi writers Prasad Nirala Mahadevi.
		CO 2	Learn about prachin aur madhyakalin Kavya with special study off vidyapati Tulsidas Malik Mohammed jayasi and Bihari's selected poetry with his trends and consciousness along with the literary spects.
	III - Bhartiya and pasehatiya kavyashastra	CO 1	Understanding the teacher of aadikal bhaktikal ritikal and Aadmi kal in contest of psycho culture and political conditions of the period.
		CO 2	Describing the philosophy of life as well as poem of sayawadi writers Prasad Nirala Mahadevi.

	IV - Hindi Upanyas yevam kahani sahitya	CO 1	Understanding the literature of aadikal bhaktikal ritikal and aadhunik kal in contest of psycho culture and political condition of the period.
M.A. Hindi II Semester	**I - Hindi Sahitya ak itihaas yevan uski sanskritik pristhi bhoomi**	CO 1	Understanding the history of development of Hindi drama short stories and novels.
		CO 2	Evaluate the cost of departmental purchase consolidate final accounts and default and repossession of goods under hire purchase system.
	II - Pracheen Yevam madhyakaaleen kavya	CO 1	Get knowledge of Hindi language with it's historical geographical perspectives as well as the forms of Hindi language and study of Hindi language in computing also.
M.A. Hindi II Semester		CO 2	Get knowledge of lok sahitya (folk literature) with the study of kinds of folk literature as well as Hindi folk literature and the forms of folk literature, folk culture.
	III - Bhartiya and pasehatiya kavyashastra	CO 1	Understanding the literature of aadikal bhaktikal ritikal and aadhunik kal in contest of psycho culture and political condition of the period.
		CO 2	Describing the philosophy of life as well as poem of sayawadi writers Prasad Nirala Mahadevi.
	IV - Hindi Upanyas yevam kahani sahitya	CO 1	Understanding the literature of aadikal bhaktikal ritikal and aadhunik kal in contest of psycho culture and political condition of the period.
M.A. Hindi III Semester	**I - Adhunik Hindi Kavya Aur uska Itihas**	CO 1	Understanding the history of development of Hindi drama short stories and novels.
	II - Bhasha Vigyan Avam Hindi Bhasha	CO 1	Have knowledge of ideological background of Hindi literature with some important philosophy and literary trends.
	III - Natak Nibandh avam anya gadya vidhayen	CO 1	Understanding the drama Dhruv Swami writers by Prasad in contest of struggle for independence of women and trishal society.
		CO 2	Understanding the vision of Premchand about middle class and his concern for strengtheing the freedom movement in India through Gagan novel.
	IV - Sahitya varg Tulsidas	CO 1	Know about to Tulsidas increase vision regarding Tulsidas.
		CO 2	Students Learn to potry of Tulsidas.
M.A. Hindi IV Semester	**I - Adhunik Hindi Kavya Aur uska Itihas**	CO 1	To appreciate Hindi Literature of adhunik kaal.
		CO 2	To mistake moral value in under 2 strengthen the society know the importance of bhakti or ritikavya.
	II - Bhasha Vigyan Avam Hindi Bhasha	CO 1	Apply different quantitative model in solve happiness problems graphical solution by simplex method gain the knowledge about set theory matrix difference and many Jason.
		CO 2	Analyze simple and compound interest indefinate and definate integrals of simple functions evaluate the soltion of fmear programming problem byusing graphical and simplex methods.
	III - Natak Nibandh avam anya gadya vidhayen	CO 1	Understanding the drama Dhruv Swami writers by Prasad in contest of struggle for independence of women and trishal society.
		CO 2	Increase vision regarding Tulsidas.
	IV - Sahitya varg Tulsidas	CO 1	Students Learn to potry of Tulsidas.
M.A. Economics I	**I - Micro Economics**	CO 1	The Students understand the basic nature scope and meaning of micro economics.
		CO 2	Students aquire the knowledge how to allocate searce resources to get maximum satisfaction.
	II- Macro Economics	CO 1	Students understand the meaning, nature and scope of macro economics.
		CO 2	Students aquire the knowledge about the nature of trade cycle and how to control montatory and fiscal policy.

	III - Economics growth and development	CO 1	students are able to understand economics development they understand such factors legal in economic development and growth.
		CO 2	The knowledge about role responsbility of envirolment.
	IV - Quantitative mathod	CO 1	They understand how to calculate and uses of mean, median and mode range, mean and standrad deviation.
		CO 2	The analisis of set data they identify the direcation and strengh of corerelation between two factors variable.
	I - Micro Economics	CO 1	To provide knowledge about the consumer behavior regarding market and production.
		CO 2	The students to acquint them actuale economic units.
M.A. Economics II Semester	**II- Macro Economics**	CO 1	To impart the knowledge regarding macro economic factors.
		CO 2	The Theories of employmet and monetary theories.
	III - Economics growth and	CO 1	To provide the knowledge of different theories of growth.
		CO 2	To relate to defferent condications of different countries.
	IV - Quantitative mathod	CO 1	This paper provides the statistical and mathematical approach to economic principle.
		CO 2	This paper develops the caliber of the students to understand the mathematical properties.
M.A. Economics III Semester	**I - International Economics**	CO 1	To provide the knowledge about international trade.
		CO 2	Students understand the economic effects of tariffs and quotas.
	II - Indian economic policy	CO 1	Introdection of Indian economy and defferent policies.
		CO 2	To impart of knowledge regards their obejectives and strategy of planning.
	III - Industrial economics	CO 1	To provide the knowledge regarding pattern of industrial product and industrialization.
		CO 2	Students gain knowledge about industrial policy in India.
	IV - Public finance	CO 1	Students aquire the knowledge about trade cycle.
		CO 2	Students indentity of povirty, unmployment and many problems.
M.A. Economics IV	**I - International Economics**	CO 1	To provide knowledge about static and dynamic effects of customes union and free trade.
		CO 2	To give knowledge about trade problems and trade policies in India.
	II - Indian economic policy	CO 1	Students knowledge about analysis of price behaviour life financial sector and intrest rate policy.
		CO 2	Students understand various issues of Globalisation, W.T.O. and its impact of different sectors.
	III - Industrial economics	CO 1	To introduce about the Industrial economics concentration and remedial measures.
		CO 2	Students knowledge about large scale and small scale industries.
	IV - Public finance	CO 1	To develop the conceptual frame work about government policies like fiscal and monetary policy, budgetary deficits.
		CO 2	Students provide the knowledge of Indian taxes system.

GOVERNMENT DEGREE COLLEGE SHAHPURA, DINDORI (M.P.)

UG AND PG PROGRAM SPECIFIC OUTCOMES

Class	Subject		Program specific Outcome
B.Sc.	**Botany**	PSO. 1	Understand scope and importance of botany in every field especially in dealing with social and environmental issue agriculture ethics and health care.
		PSO. 2	Apply knowledge of medical and economic botany in day to day life.
		PSO. 3	Explain biodiversity climate change and plant pathology.
		PSO. 4	Create awareness on natural resource and their importance in sustainable development.

	Chemistry	PSO. 1	Understand the importance of the elements in the periodic table including their physical and chemical nature and role in the daily life.
		PSO. 2	Identify chemical formula and solve numerical problems.
B.Sc.		PSO. 3	Acquires the ability to centre spirit and characterize compounds using laboratory and instrumentation techniques.
		PSO. 4	Develop research oriented skills.
	Mathematics	PSO. 1	Think in a critical manner.
		PSO. 2	Develop mathematical arguments in a logical manner.
		PSO. 3	Provide students learners sufficient knowledge and skills enabling them to Undertaker father studies in mathematics and its alleged areas on multiple disciplines concerned with mathematics.
		PSO. 4	Study of real and complex analysis enables the students to persue higher studies.
	Physics	PSO. 1	Student will demonstrate knowledge to classical mechanics electromagnetics and modern physical and be available to apply this knowledge to analyse variety of physical phenomena.
		PSO. 2	Understand the core concept of physical subjects.
		PSO. 3	To motivate the students to pursue PG courses in reputed institutions.
		PSO. 4	To carry out experiments to understand the law and concepts of physics.
	Zoology	PSO. 1	Understand the nature and basic concept of cell biology, genetics, taxonomy, physiology, ecology and applied zoology.
S emester		PSO. 2	Understand the applications of biological science in apiculture aquaculture agriculture and medicine. Gains knowledge about research methodologies effective communication and skills of problem solving methods.
B.A.	**Economics**	PSO. 1	An Ability to understand economic theories and functioning of basic microeconomic and microeconomic systems.
		PSO. 2	To equip students to succeed in an information rich technology base society through ICT literacy.
		PSO. 3	Understands the significance of critical thinking social interactions economic development and sustainability.
		PSO. 4	Decision making in social and economics expect of life leads to become successful entrepreneur.
	Hindi	PSO. 1	To understand the basic concept and subject of Hindi and its origin.
		PSO. 2	To understand various aspect of Hindi literature with a process to reach method and given new mod and direction.
		PSO. 3	Elaborating and understanding its philosophical methods of Hindi literature.
B.A.		PSO. 4	Evaluating the concept of Hindi from past to present and making the society more closely through literature.
	History	PSO. 1	Students will have the ability to apply historical methods to evaluate critically the past and how historians and others have interpreted it.
		PSO. 2	Students will be available to organise and express their thoughts clearly and coherently both in writing and orally.
		PSO. 3	Students will be able to demonstrate broad knowledge of historical events and periods and their significance.
		PSO. 4	Students are deployed to do survey and on the spot interaction with the personnel of the case under study.
	Greography	PSO. 1	To explore the fundamental concepts of the atmosphere, oceans and the earth surface.
		PSO. 2	To make the students aware of the historical aspects of religional development and planning.
		PSO. 3	To give the students general view and importance of man and environment relationship.

		PSO. 4	To equip the students with basic understanding of the satellite science and areal photogrammetry.
	Political Science	PSO. 1	Understand the word, country, society and have awareness of ethical problems social rights, values and responsibility to the self and to others.
		PSO. 2	Take individual and team responsibility function effect and respectively as an individual and a member or a leader of a team and have the skill to work effectively in multi disciplining teams.
		PSO. 3	Know how to access and evaluate data from various sources of information.
	Sociology	PSO. 1	Understand the various sociological concepts and basic theories.
		PSO. 2	Understand the ideas incalculated in western and Indian sociological thoughts.
		PSO. 3	Understand the social problems of Indian society with relation to its structure and culture.
	English	PSO. 1	Understand major and minor forms of literature.
		PSO. 2	Enjoy reading the short stories poems novels and dramas.
		PSO. 3	Understand the structure and function of grammatical units.
		PSO. 4	Develop language learning skills like listening speaking reading and writing.
M.A.	**Economics**	PSO. 1	Apply theories models and tools of economics to analyse socio economics issues and formulate viable solutions.
		PSO. 2	Undertake scientific enquiry and research to resolve socio economic problems.
		PSO. 3	Identify key macroeconomic indicators and measures of economic change growth and development.
		PSO. 4	Apply economic theory to real life issues in fields of economics as well as contemporary social issues along with formulation and analysis of policy.
	History	PSO. 1	Students know the national and international history.
		PSO. 2	Demonstrate thinking skills by analysing synthesizing and evaluating historical information from various sources.
		PSO. 3	Prepare students for various competitive examinations.
		PSO. 4	Make career as historian acquired professional skill in getting jobs such as tourist guide.
	Hindi Literature	PSO. 1	To understand variours aspact of Hindi Leterature with a process to reach matheods and giving new mode.
		PSO.2	Elaborating and understanding its philosophical methods of Hindi literature.
		PSO.3	Evaluating the concept of Hindi from past to present and making the society more closely through literature.
		PSO. 4	To understand the basic concept and subject of Hindi and its origin.

GOVERNMENT DEGREE COLLEGE SHAHPURA, DINDORI (M.P.) 481990

Email : gdcshahpura@gmail.com

Website : www.gdcshahpura.in

Class	Subject		Program Outcome
	Botany	PO. 1	Knowledge and understanding of plant science with the help of computer technology.
		PO. 2	Apply knowledge for conservation of endemic and endangered plan species.
		PO. 3	The role of plants in the functioning of the global ecosystem.
		PO. 4	Plan conduct and write a report on an independent term project.

B.Sc.		PO. 5	Students learn to carry out practical work in the field and in the laboratory.
	Chemistry	PO. 1	Students will learn to work the proper safety in the Laboratory.
		PO. 2	Students will able to understand basic concept in different field of chemistry.
		PO. 3	To create awareness about the impact of chemistry on society community and environment.
		PO. 4	To prepare the students for a successful career in industry and motivate them for higher education and take up research as a career.
		PO. 5	Students will be available to demonstrate the experimental techniques and methods for chemical analysis synthesis and potent data collection and their interpretation.
B.Sc.	**Mathematics**	PO. 1	When there is a need for information the student will be able to identify locate evaluate and effectively use that information for handling issues or solving problems at hand.
		PO. 2	Formulate and develop mathematical arguments in a logical manner.
		PO. 3	Students will acquire good knowledge and understanding in advance areas of mathematics and its application.
		PO. 4	Prepare students for pursuing research or careers in industry in mathematical science and allied fields.
	Physics	PO. 1	Students will be able to understand the basic concept and the fundamentals of mechanics properties of matter and electrodynamics.
		PO. 2	Understand and apply the concepts of electronics in the designing of different analog and digital circuits.
		PO. 3	Apply and verify the loss and concepts of physics through laboratory experiments.
		PO. 4	Students will apply the basic concepts/principle of physics and to understand the events of occurring around the world.
		PO. 5	Develop abilities for logical thinking.
	Zoology	PO. 1	Students get knowledge and skill in the fundamentals of animal science and understand the complex instructions among various living organisms.
		PO. 2	Apply the knowledge and understanding the Paris animals human health and disease crop improvement functions or organisms to once own life and work.
		PO. 3	Gain knowledge of agro base small scale industries like sericulture like culture apiculture fish farming organic farming and vermicompost preparation.
		PO. 4	Understands about various concepts of genetics and its importance in human health.
		PO. 5	Understand about various genetics tools and techniques and its importance in social life.
B.A.	**Economics**	PO. 1	Students learn to apply ethical principles and become committed to professional ethics and responsibilities.
		PO. 2	To provide the students with the opportunity to pursue courses that emphasize quantitative and theoretical aspect of economics.
		PO. 3	To provide students with the opportunity to focus on applied and policy issues in economics.
		PO. 4	To provide a well resource learning environment for economics.
	Hindi	PO. 1	The students got scope to general knowledge and share their ideas about the phones of exploitation.
		PO. 2	The students gained knowledge about the relation between the psycho cultural condition of a society and the shorts stories.
		PO. 3	Students gained knowledge about the various forms of prose like rekhachitra nibandh sansmaran vyangya bhashan natak upnyas.

		PO. 4	The writers like Premchand nagarjun made and effort to highlight the mentality of middle class by depicting the action and behaviour of the persons of middle class in their writings.
	History	PO. 1	Explain how and why important events happen.
		PO. 2	Understanding of the historical method of study.
		PO. 3	Critical understanding of development in historiography.
		PO. 4	Knowledge of the history of India and 20th century modern world.
	Geography	PO. 1	Students will be able to understand the scope and evolution of the diverse discipline of geography.
		PO. 2	Students will be able to explain social relevance of geographical knowledge and apply it to real word women environmental issues.
		PO. 3	Students become equipped with the ability to respond to both nature and man made disasters and acquire management skills.
		PO. 4	Development of knowledge skill and honesty understanding of the discipline among students.
B.A.	**Political Science**	PO. 1	Students are expected to develop critical thinking and arguments through the study of importance philosophical theoretical and ideological foundations in the study of political science.
		PO. 2	Students are expected to acquire leadership and management skills by studying organisation and administrative behaviour in public
		PO. 3	Students will have an understanding on the international political system as it is and as it ought to be.
		PO. 4	The study of human rights will empower students to stand for the protection and promotion of basic human rights and thus contribute to National and international peace.
		PO. 5	The study of political sociology will develop an inter disciplinary approach particularly with sociology to seek and analyse the relationship between politics and sociology.
	Sociology	PO. 1	Sociology learning provides initial knowledge about society social life and social interaction.
		PO. 2	Students will demonstrate knowledge of how to use theory to conceptualized a sociological problems.
		PO. 3	Develop a strong sense of moral and ethical standards in social behaviour and in comprehending reality.
		PO. 4	Understand how to collect analyse and interpret empirical evidence in sociological research.
	English	PO. 1	In both the artistry and utility of the English language through the study of literature and other contemporary forms of culture.
		PO. 2	Provide stunt with the critical faculties necessary in an academic environment on the job and in an increase in complex dependent word.
		PO. 3	Read interpret and write about a deserve range of text in English.
M.A.	**Economics**	PO. 1	Students will be acquire the introduction development and advancement of new subjects associated with economics and their analytical applications in many unknown behaviours of human beings.
		PO. 2	Students will have better employability through skill building in quantitative research projects and internship programme.
	Economics	PO. 3	The Students of economics can go for higher studies in the fields of economics business administration and education after attending post graduation in economics.
		PO. 4	Attained ability to exercise reseach intelligence in investigations and innovations.

	Hindi	PO. 1	Prepare the students with skills to analyse the concept and different theories of Hindi literature and language.
		PO. 2	Prepare the students for pursuing research or career in Hindi language and literature and it allied fields.
M.A.		PO. 3	Students will acquire relevant knowledge and skills appropriate to professional activities.
		PO. 4	Students will enhance linguistic skills.
	History	PO. 1	Effectively communicate in clear and convincing prose and understanding of the causes of historical change.
		PO. 2	Develop and define historical arguments demonstrating of different historical approaches understanding of different historical interpretation.
		PO. 3	Evolute the influence of new digital and multimedia format on the practice and presentation of history.
		PO. 4	Develop historical research strategies and critically evaluate evidence about the past.

GOVT DEGREE COLLEGE SHAHPURA DIST. DINDORI (M.P.)
IQAC
Coordinator

आचार्य
शासकीय स्नातक महाविद्यालय
शहपुरा जिला डिण्डौरी (म.प्र.)