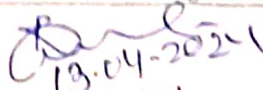


**GOVT. WOMEN'S (DEGREE) COLLEGE, SAMBALPUR**  
**DEPARTMENT OF ANTHROPOLOGY COURSE OUTCOME FOR THREE DEGREE**  
**ANTHROPOLOGY(HONS) STUDENTS**

Semester	Course	Course Title	Course outcome
1 <sup>st</sup>	Core-1 (Theory)	Introduction to Biological Anthropology	<ul style="list-style-type: none"> <li>To give a basic understanding about human evolution</li> <li>To know the basic concept of primate</li> <li>Understand the concept of structure of animal cell &amp; function.</li> </ul>
	Core-2 (Theory)	Introduction to Socio cultural Anthropology	<ul style="list-style-type: none"> <li>To give a basic understanding about society &amp; Culture</li> <li>Understand the basic concept of fieldwork &amp; survey method</li> <li>It explain about social system &amp; social - structure</li> </ul>
	GE-1 (Theory)	Introduction to Biological Anthropology	<ul style="list-style-type: none"> <li>Understanding the basic concept of Primate</li> <li>To study the basic concept, meaning &amp; scope of biological Anthropology</li> <li>To explain the basic theory of evolution.</li> </ul>
2 <sup>nd</sup>	Core-3 (Theory)	Archaeological Anthropology	<ul style="list-style-type: none"> <li>Understanding the basic concept of dating method</li> <li>To give a basic understanding about geological time-scale</li> <li>To know the basic concept of tool types &amp; tool technique of prehistoric man</li> </ul>
	Core-4 (Theory)	Fundamental of human origin & Evolution	<ul style="list-style-type: none"> <li>Understanding the basic concept of human evolution.</li> <li>It gives the basic concept of origin of human</li> </ul>
	GE-2 (Theory)	Introduction to Socio cultural Anthropology	<ul style="list-style-type: none"> <li>To know the basic concept, meaning &amp; scope of socio-cultural Anthropology.</li> <li>Gain knowledge about the fieldwork &amp; survey.</li> <li>To understand about society &amp; culture</li> <li>Basic understanding on social system</li> </ul>

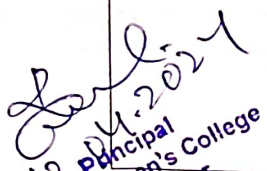
Semester	Course	Course Title	Course outcome
3 <sup>rd</sup>	Core-5 (Theory)	Tribal & peasant in India	<ul style="list-style-type: none"> <li>Understanding the basic concept of tribe and their problem.</li> <li>To give a basic understanding about constitutional safeguards on tribe</li> <li>To know about National tribal policy</li> </ul>
	Core-6 (Theory)	Human Ecology	<ul style="list-style-type: none"> <li>Basic concept on ecology and Ecosystem</li> <li>To know Human ecological method</li> <li>To know about human adoption</li> </ul>
	Core-7 (Theory)	Biological Diversity human population	<ul style="list-style-type: none"> <li>Understanding the concept of race</li> <li>To know about Biological Variability</li> <li>Understanding Demographic Anthropology</li> </ul>
	GE-3 (Theory)	Archaeological Anthropology	<ul style="list-style-type: none"> <li>Basic concept of tool types and tool technique of prehistoric man</li> <li>Earth formation</li> <li>Geological time - scale</li> <li>To know about dating methods</li> </ul>

  
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Semester	Course	Course Title	Course outcome
4 <sup>TH</sup>	Core-8 (Theory)	Theories of culture & Society	<ul style="list-style-type: none"> <li>To understand different anthropological theories &amp; thoughts</li> <li>To know British School anthropological theories</li> <li>To give a basic concept of fieldwork tradition</li> </ul>
	Core-9 (Theory)	Human growth & development	<ul style="list-style-type: none"> <li>Basic concept of human growth and development</li> <li>To know the factors responsible for human growth &amp; development.</li> </ul>
	Core-10 (Theory)	Research method	<ul style="list-style-type: none"> <li>Important of fieldwork in research</li> <li>Types of research in anthropology</li> <li>Types of research method</li> <li>To create research oriented thought process &amp; basic training</li> <li>The objective is to train students in basic of research</li> </ul>
	GE-4 (Theory )	Anthropology of India	<ul style="list-style-type: none"> <li>To understand social structure and social system</li> <li>To know about tribal problem</li> <li>To know about Indian tradition</li> </ul>

Semester	Course	Course Title	Course outcome
5 <sup>TH</sup>	Core-11 (Theory)	Prehistoric Archaeology of India	<ul style="list-style-type: none"> <li>To understand the basic concept of history &amp; prehistory of India</li> </ul>
	Core-12 (Theory)	Anthropology in Practice	<ul style="list-style-type: none"> <li>To know how anthropology used in day to day life</li> <li>Role of anthropology in making of public policy &amp; community development</li> </ul>
	DSE-1 (Theory)	Anthropology of Religion, politics & Economy	<ul style="list-style-type: none"> <li>Understanding different theories on religion</li> <li>To know economic &amp; political institution</li> </ul>
	DSE-2 (Theory)	Tribal culture of India	<ul style="list-style-type: none"> <li>To know tribal distribution in India</li> <li>Understanding the basic concept of tribal forest policies</li> <li>To understand tribal problem</li> </ul>

Semester	Course	Course Title	Course outcome
6 <sup>th</sup>	Core-13 (Theory)	Forensic Anthropology	<ul style="list-style-type: none"> <li>To know forensic anthropology help in Medico-legal investigation</li> <li>Forensic Anthropology help in law enforcement agencies</li> </ul>
	Core-14	Fieldwork & Dissertation	<ul style="list-style-type: none"> <li>Impartial study among the tribal, rural &amp; urban community of Odisha is to be conducted for a minimum period of 21 days</li> </ul>
	DSE-3 (Theory)	Anthropology of India	<ul style="list-style-type: none"> <li>To know about Religion, shaman &amp; magic</li> <li>To understand about Economic &amp; political institution</li> </ul>
	DSE-4	Museum & Museology	<ul style="list-style-type: none"> <li>To know the role of Anthropology in museum education</li> </ul>

  
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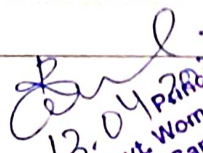
GOVT. WOMEN'S (DEGREE) COLLEGE, SAMBALPUR

DEPARTMENT OF BOTANY COURSE OUTCOME FOR THREE DEGREE BOTANY(HONS) STUDENTS


SL. NO.	COURSE	COURSE TITLE	COURSE OUTCOME
1.	C-1 (Theory)	Microbiology and Phycology	1. Apply the knowledge to understand the microbial physiology and to identify the microorganisms 2.To Know the systematic, morphology and structure, of Algae.
2.	C-2 (Theory)	Biomolecules and Cell Biology	1. explain the basis of biological macromolecules constitution and traits, the basis of biological catalysis, control mechanisms of important biological processes.
3.	GE -1A (Theory)	Biodiversity (Microbes, Algae, Fungi & Archegoniate)	1.Demonstrate ability to critically and systematically integrate knowledge and perspectives and to analyze, assess and deal with complex biological problems, issues and situations in particular within the field of Biodiversity and Systematics.
4.	C-3 (Theory)	Mycology and Phytopathology	1. Principle of plant pathology. 2. Fundamentals of Mycology and the followed taxonomy. 3. The plant pathogenic fungi as an invasive micro-organism for economically important agricultural crops and how to control these pathogens.
5.	C-4 (Theory)	Archegoniate	1. Know and understand general feature of the three groups of archegoniate. 2. Know and understand the principles Bryophyta classification. 3. Analysis and understand the life cycle and alternation of generation. 4. Analyze and understand the importance of od archegoniate
6.	GE -2A (Theory)	Plant Physiology & Metabolism	1.The principal focus of the existent course is on the molecular aspects of the physiological and metabolic processes in plants. 2. Students will be oriented into developing a molecular understanding of the principles of photosynthesis and photo-morphogenesis, molecular basis of nutrient uptake.
7.	C-5 (Theory)	Anatomy of Angiosperms	1.To understand about the Angiospermic plant parts and their internal structure.
8.	C-6 (Theory)	Economic Botany	1. To understand about the utilization of different plant parts for human beings in their daily life. 2. to understand the utilization of different fiber yielding plants for human beings.
9.	GE -1B (Theory)	Plant Ecology & Taxonomy	1.Learn the Approaches to the study of Ecology (Autecology, Synecology and Genecology) 2.Understand the population & Community Ecology - concept of metapopulation 3. The student completing the course is able to identify various life forms of plants, design and execute experiments related to basic studies on evolution, ecology, developmental biology, physiology, biochemistry, plant interactions

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10.	C-8 (Theory)	Molecular Biology	<p>1. Know about the genomic organization of living organisms, study of genes, genome, chromosome etc.</p> <p>2. Gain knowledge about the mechanism and essential component required for prokaryotic DNA replication.</p>
11.	C-9 (Theory)	Plant Ecology & Phytogeography	<p>1. to know about the inter relationship between living world and environment.</p> <p>2. to know about the effect of different abiotic factor in living system.</p> <p>3. to understand about the fundamental aspect of ecosystem.</p>
12.	C-10 (Theory)	Plant Systematics	<p>1. To know the general taxonomic rule on plant classification.</p> <p>2. to understand about the process of plant description and identification.</p>
13.	GE-2B (Theory)	Plant Anatomy, Embryology & Biotechnology	<p>1. This study programme focuses on the internal structure and function of plant cells, tissue, and organs.</p> <p>2. To know the structure and development of monocot and dicot embryos.</p> <p>3. Provides a detailed view of the visualizing concepts and technique for genetic engineering and biotechnology.</p> <p>4. Deals mainly with science, methodology and applications of plant tissue culture methods</p>
14.	C-11 (Theory)	Reproductive Biology of Angiosperms	<p>1. To enable the different mode of plant reproduction, pollen and pistil interaction.</p> <p>2. To know about the polyembryony and apomixis.</p> <p>3. To know the pollination and fertilization process.</p>
15.	C-12 (Theory)	Plant Physiology	<p>1. To know about the Plant-water relations.</p> <p>2. to know about the plant life process.</p>
16.	DSE - 1 (Theory)	Analytical Techniques in Plants Sciences	<p>1. Fundamental knowledge of major instruments.</p> <p>2. Concepts of using different techniques and instruments in research work.</p> <p>3. Concept of statistical methods.</p> <p>4. Ability to determine the instruments or techniques required to be used for conducting scientific experiments.</p>
17.	DSE - 2 (Theory)	Natural Resource Management	<p>1. define natural resources, distinguish between different types of natural resources, create a personal inventory of consumption of natural resources.</p> <p>2. Integrate principles of biological, chemical, physical, and social sciences and apply them to resource and environmental issues using a systems approach.</p> <p>3. Understand ecological principles underpinning management of resources, populations, communities, and ecosystems.</p>
18.	C-13 (Theory)	Plant Metabolism	<p>1. Introduction about the different catabolic and anabolic process.</p> <p>2. Understand about the ATP synthesis mechanism and metabolic processes of plants.</p>
19.	C-14 (Theory)	Plant Biotechnology	<p>1. Understand about the plant tissue culture.</p> <p>2. To know about the Biotechnological process for the development of genetically modified plant for high yield.</p>

  
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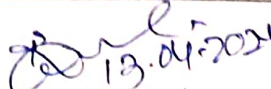
			3. Different method of gene transfer in the plant cell.
20.	DSE - 3 (Theory)	Horticulture Practices & Post Harvest Technology	<p>1. The study of scope and importance of horticulture, division of horticulture, classification of horticultural plants, brief note on some families of horticultural importance.</p> <p>2. The three main objectives of applying postharvest technology to harvested fruits and vegetables are: to maintain quality (appearance, texture, flavor and nutritive value) to protect food safety, and, to reduce losses between harvest and consumption.</p>
21.	DSE - 4 Project work	Project Work	<p>1. Each student complete a dissertation on a topic mutually agreed between him/her and a faculty member, who asks as a mentor.</p> <p>2. The objective is to train students in basics of research, literature recession, analysis and expression of their understanding of the topic in their own words.</p> <p>3. To create research oriented thought process and basic training</p>

  
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## Course Objectives and Course Outcomes

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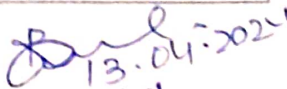
Course Code	Course Name	Course Objective	Course Outcomes
C-I	Inorganic Chemistry-I Inorganic Chemistry-I Lab	<ol style="list-style-type: none"> <li>To enable students with the detail knowledge of structure of atom, properties of elements and types of chemical bonds in various compounds</li> <li>To provide the practical knowledge about different kinds of titrations</li> </ol>	The students will learn..... <ol style="list-style-type: none"> <li>atomic structure</li> <li>types of elements and their properties</li> <li>practical experience of titration</li> </ol>
C-II	Physical Chemistry-I Physical Chemistry-I Lab	<ol style="list-style-type: none"> <li>To apply gas laws in various real life situations and explain the behavior of real and ideal gas.</li> <li>To differentiate between gaseous state and vapour.</li> <li>To explain the kinetic theory of gases.</li> <li>To explain the properties of liquids. and condition required for liquefaction of gases.</li> </ol>	The students will gain knowledge regarding..... <ol style="list-style-type: none"> <li>different gas laws and their practical applications.</li> <li>Effect of pressure, temperature on the behavior of gases</li> <li>the liquefaction parameters of different gases</li> </ol>
C-III	Organic Chemistry-I Organic Chemistry-I Lab	<ol style="list-style-type: none"> <li>To introduce the basic concept of organic chemistry</li> <li>To aware about the different phenomena such as Isomerism, effects and types of organic reactions</li> <li>To discuss the various methods of preparation and properties of simple organic molecules: alkane, alkene, alkyne and aromatic hydrocarbon</li> </ol>	The students will acquire knowledge about..... <ol style="list-style-type: none"> <li>fundamental concepts in Organic Chemistry</li> <li>Preparations, properties and applications of alkane, alkene, alkyne and aromatic hydrocarbon.</li> </ol>
C-IV	Physical Chemistry-II Physical Chemistry-II Lab	<ol style="list-style-type: none"> <li>To discuss the application of mathematical tools to calculate thermodynamic properties</li> <li>To explain the relationship between microscopic properties of molecules with macroscopic thermodynamic observables the derivation of rate equations from mechanistic data</li> <li>To know the various properties of solution as well as colligative properties.</li> </ol>	The students will learn..... <ol style="list-style-type: none"> <li>thermodynamic properties of matter</li> <li>relation among various parameters</li> <li>thorough knowledge regarding properties of solutions</li> </ol>
C-V	Inorganic Chemistry-II Inorganic Chemistry-II Lab	<ol style="list-style-type: none"> <li>To know the processes and Principles involved in extraction of different metals.</li> <li>To get knowledge about acid and base including various theory and their applications</li> <li>To discuss about various inorganic polymers, properties and applications</li> </ol>	The students will gain knowledge regarding..... <ol style="list-style-type: none"> <li>Metallurgy by which the metals are extracted from different ores.</li> <li>various theories of acid and base as well as importance of the acid and base in real life</li> <li>different kinds of inorganic polymers and their applications</li> </ol>

  
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C-VI	Organic Chemistry-II Organic Chemistry-II Lab	<ol style="list-style-type: none"> <li>1. To study the synthesis, Properties and applications of haloalkane, haloarene, alcohol, ether and phenol.</li> <li>2. To know the synthesis, chemical Properties of carbonyl compounds, carboxylic acid and their derivatives</li> </ol>	<p>in real world</p> <p>The students will acquire knowledge about.....</p> <ol style="list-style-type: none"> <li>1. Synthesis, Properties and Applications of haloalkane, haloarene, alcohol, ether and phenol</li> <li>2. Preparations, properties and applications of carbonyl compounds, carboxylic acid and their derivatives.</li> </ol>
C-VII	Physical Chemistry-III Physical Chemistry-III Lab	<ol style="list-style-type: none"> <li>1. To acquire knowledge regarding phase equilibrium and its importance.</li> <li>2. To gain the strategic knowledge regarding distribution of solute in binary mixture of two immiscible liquids</li> </ol>	<p>The students will learn.....</p> <ol style="list-style-type: none"> <li>1. phase equilibrium and its importance</li> <li>2. distribution of solute in binary mixture of two immiscible liquids.</li> </ol>
C-VIII	Inorganic Chemistry-III Inorganic Chemistry-III Lab	<ol style="list-style-type: none"> <li>1. To know about the coordinate compounds and their applications</li> <li>2. To acquire knowledge regarding CFT and its significance</li> </ol>	<p>The students will gain knowledge regarding.....</p> <ol style="list-style-type: none"> <li>1. coordinate compounds and their practical applications</li> <li>2. CFT and its significance</li> </ol>
C-IX	Organic Chemistry-III Organic Chemistry-III Lab	<ol style="list-style-type: none"> <li>1. To increase the knowledge of students about the preparation and properties of nitrogen containing organic compounds</li> <li>2. To introduce the students with natural products such as alkaloids and terpenes</li> </ol>	<p>The students will acquire knowledge about.....</p> <ol style="list-style-type: none"> <li>1. preparation and properties of nitrogen containing organic compounds</li> <li>2. Properties and applications of natural products such as alkaloids and terpenes.</li> </ol>
C-X	Physical Chemistry-IV Physical Chemistry-IV Lab	<ol style="list-style-type: none"> <li>1. To gain knowledge regarding conductance, motilities of ions and applications of conductance measurements</li> <li>2. To enhance the knowledge of students regarding various EMF measurements and titrations.</li> </ol>	<p>The students will learn.....</p> <ol style="list-style-type: none"> <li>1. conductance, motilities of ions and applications of conductance measurements</li> <li>2. various EMF measurements and titrations.</li> </ol>
C-XI	Organic Chemistry-IV Organic Chemistry-IV Lab	<ol style="list-style-type: none"> <li>1. To discuss theory and application of modern spectroscopic techniques including UV-Vis, IR and NMR spectroscopy etc.</li> <li>2. To enhance the knowledge about the occurrence and biological importance of carbohydrate.</li> </ol>	<p>The students will gain knowledge regarding.....</p> <ol style="list-style-type: none"> <li>1. The use of UV-Vis, IR and NMR spectroscopy for organic structure elucidation</li> <li>2. The fundamentals of electronic structure and bonding in conjugated and aromatic systems</li> </ol>
C-XII	Physical Chemistry-V Physical Chemistry-V Lab	<ol style="list-style-type: none"> <li>1. To know the Eigen function, Eigen value, operator and postulates of Quantum mechanics.</li> </ol>	<p>The students will acquire knowledge about.....</p> <ol style="list-style-type: none"> <li>1. Eigen function, Eigen value,</li> </ol>

  
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		2. To learn about the characteristics of electromagnetic radiations and various photochemical reactions.	operator and postulates of Quantum mechanics. 2. Characteristics of electromagnetic radiations and various photochemical reactions.
DSE-I	DSE-I DSE-I Lab	1. To acquire knowledge regarding various polymers, their synthesis, properties and applications 2. To know about the mechanism and kinetics of polymerization.	The students will learn..... 1. what are various polymers, their synthesis, properties and applications 2. the mechanism and kinetics of different types of polymerization.
DSE-II	DSE-II DSE-II Lab	1. To Introduce the students regarding the need of green chemistry and its various principles. 2. To enhance the knowledge regarding the application of green synthesis.	The students will gain knowledge regarding..... 1. A functional understanding of the field of green chemistry 2. An understanding of several real world examples where organizations used green chemistry to improve the sustainability performance of their products
C-XIII	Inorganic Chemistry- IV Inorganic Chemistry-IV Lab	1. To know about the metal carbonyls and Ferrocene, their preparations and properties. 2. To study various industrial process and their mechanisms.	The students will acquire knowledge about..... 1. metal carbonyls and Ferrocene, their preparations and properties. 2. various industrial process and their mechanisms.
C-XIV	Organic Chemistry-V Organic Chemistry-V Lab	1. To acquire knowledge regarding biomolecules such as amino acids, peptides and proteins 2. To study the importance and application of pharmaceutical compounds.	The students will learn..... 1. various biomolecules such as amino acids, peptides and proteins 2. the importance and application of pharmaceutical compounds.
DSE- III	DSE-III DSE-III Lab	1. To gain knowledge regarding Industrial gases and chemicals 2. To know about Ecosystem and environmental pollutions.	The students will gain knowledge regarding..... 1. Various Industrial gases and chemicals 2. Ecosystem and Environmental pollutions.
DSE-IV	DSE-IV DSE-IV Lab Or Dissertation	1. To know the different manufacturing processes of glass, ceramics and cements 2. To know about the various	The students will acquire knowledge about..... 1. Different manufacturing processes of glass, ceramics and

  
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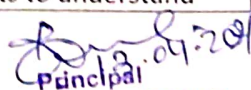


		fertilizers, their manufacture and uses.	cements 2. Various types of fertilizers, their manufacture and uses.
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**Course objectives and Course Outcomes**  
**Department of Economics**

Course Code	Course Name	Course Objective	Course Outcomes
C-I	Introductory Microeconomics	1. To explain the nature and scope of economics 2. To analyze the application of economics to real life situations	Students will learn the different aspects of economic activities like consumption, production, distribution and learn to apply them in their practical life
C-II	Mathematical Methods for Economics I	1. The objective is to make students aware of application of mathematics to economics. 2. It aims in making the subjects' objective scientific and precise.	This will help the students to think objectively and scientifically and to apply mathematics to real world economic problems
C-III	Introductory Macroeconomics	1. It introduces the basic concept of macroeconomics 2. It discusses the determination of measurement of aggregate macroeconomic variables.	This will make the students aware of the broad aggregates like income, consumption, saving, investment, export, import and its operation in the real world situations
C-IV	Mathematical Methods for Economic II	1. The objective is to enable the study of economic theory at the undergraduate level with basic mathematical tools. 2. It tries to create mathematical models based on the knowledge of economics theory	This will help students to learn economic concepts through mathematical tools and give them knowledge on model building
C-V	Microeconomics I	1. This provides sound training in microeconomics theory to formally analyze the behavior of individual agents. 2. It particularly discusses the behaviors, producers and the nature of the market.	This will help students to know the behavior of agents based on the principle of rationality and utility maximization.
C-VI	Macroeconomic I	1. It introduces the students to formal modeling of macroeconomic in terms of analytic tools. 2. It discusses various theories of output and employment determination both in the short and long run.	Students will learn the different theories of macroeconomic behavior and understand its interdependence.
C-VII	Statistical Methods for Economics	1. It helps the students with basic concepts and terminology of statistics of students. 2. It discusses data collection, classification, tabulation, representation, analysis and interpretation of data.	With the help of statistical tools, students will learn to make empirical analysis of economic phenomenon
C-VIII	Microeconomics II	1. This is an advanced form of Microeconomics I 2. It covers market general equilibrium and welfare, markets with imperfect competition and imperfect information.	This will help students know about various microeconomic variables under a general equilibrium framework with focus on equity and efficiency
C-IX	Macroeconomics II	1. This is a sequel to Macroeconomics I 2. It introduces long run dynamic concepts like growth and technical progress.	Students will learn the importance of growth, development, reduction of poverty, inequality in the real world situation.
C-X	Research	1. It introduces the students the basic	It helps the students to understand

  
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	Methodology	concepts used in research and to develop scientific social research. 2. It includes discussion on sampling technique, research design and analysis.	the basic research methodology to carry out research work in economics
C-XI	Indian Economy I	1. It reviews major trends in economic indicators since post Independence India. 2. It also discusses population, national income, poverty and planning in India.	Students will know the development of the Indian economy since the plan periods to present NITI Aayog and the challenges faced therein.
C-XII	Development Economics I	1. This course discusses alternative concepts of development. 2. It emphasizes various indicators to development, poverty, inequality, growth and role of institution on development.	This will make the students aware of the basic concepts of growth, poverty, inequality and setting the right kind of institutions to make the process more inclusive.
DSE-I	1. Public Economics	1. It studies the government fiscal policy in terms of efficiency and equity. 2. It discusses the mechanism of taxes, expenditure, borrowing of the government.	This will help students the basics of government finance and the right kind of policies to be adopted within given constraints.
DSE-II	2. Money and Banking	1. It introduces to the theory and functioning of the monetary and financial sectors of the economy. 2. It highlights the organization, structure and the role of the financial markets and institution.	It will benefit the students to know the details of the money and the basics of financial markets to pursue their interest on the money matters.
C-XIII	Indian Economy II	1. It examines sector specific policies and its impact on economic indicators. 2. It highlights major policy debates and evaluates on the basis of empirical evidence.	By reading this, students will understand the different policy options and importance of ideology in pursuing policies.
C-XIV	Development Economics II	1. It begins with demographic concepts and economics dualism on development. 2. It touches the broader issues of environment and international trade on development.	Students will learn the broader issues of the relationship between development and environment besides learning the basic problem of underdevelopment
DSE-III	1. Environmental Economics	1. It introduces the students the basic concepts of environment and its impact on development. 2. It discusses the valuation of environmental damage and the concept of sustainable development.	Here the students will understand the nature of environment, its benefits and measurement techniques, and the concept of sustainable development and its application.
DSE-IV	2. International Economics	1. It introduces the students the theories of international trade and develops insight in to trade policy and balance of payment. 2. It also develops insight into international financial system and trade policy of India.	This will focus on the problems and challenges of an open economy and the integration of the domestic economy with the world market after globalization.

  
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## GE-I EDUCATIONAL PHILOSOPHY

### Learning Outcomes:

On successful completion of this paper, the students shall be able to


- state and analyse the concept of education and construct meaning of education
- explain philosophy as the foundation of education in relation to its branches and educational implications
- analyse individual and social aims of education
- describe, compare and contrast the essence and educational implications of Western and Indian schools of philosophy
- compare and contrast educational thoughts of Indian and Western thinkers

## GE-II EDUCATIONAL PSYCHOLOGY

### Learning Outcomes:

On successful completion of this paper, the students shall be able to

- explain the concept of educational psychology and its relevance in the field of education
- comprehend different methods of educational psychology
- understand developmental characteristics and areas of child and adolescents
- explain the theory of cognitive development and its educational implications
- understand different forms and characteristics of individual differences and its educational implications
- comprehend the concept and theories of intelligence and its educational implications
- understand the concept and stages of creativity, and the strategies to foster creativity
- understand and explain the concept and theories of learning along with its educational implications
- comprehend the concept and theories of personality
- describe and understand the concept of mental health and adjustment mechanism

  
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## GE-III CONTEMPORARY TRENDS AND ISSUES IN INDIAN EDUCATION

### Learning Outcomes:

On successful completion of this paper, the students shall be able to

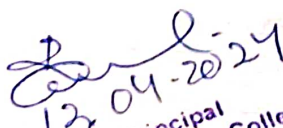
- understand the importance of pre-school and elementary education
- comprehend the concept and components of universalization of elementary education and school management committee
- analyze various problems and issues for ensuring quality education in 21<sup>st</sup> century
- state the importance of secondary education and analyze various problems and issues for ensuring quality in secondary education
- enumerate the importance of higher education and analyze various problems and issues for ensuring quality in higher education
- justify the importance of teacher education and analyze various problems and issues for ensuring quality in teacher education
- analyze different emerging concerns in Indian education

## GE-IV EDUCATIONAL ASSESSMENT AND EVALUATION

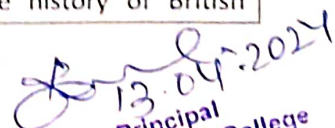
### Learning Outcomes:

On successful completion of this paper, the students shall be able to

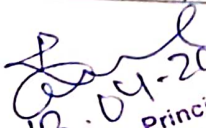
- understand and compare the concept of test, measurement, assessment and evaluation
- understand the taxonomy of instructional objectives
- develop and use different types of tools and techniques for continuous and comprehensive assessment of learning in the school situation
- analyze the trends and issues in learning and learner assessment
- illustrate the principles of test construction in education
- comprehend and describe the characteristics of a good test in relation to validity, reliability, usability and objectivity

  
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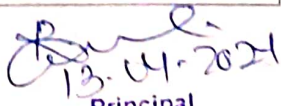
Course Code	Course Name	Course Objective	Course Outcome
Core – I	British Poetry and Drama: 14 <sup>th</sup> to 17 <sup>th</sup> Centuries	This paper seeks to introduce the students to British poetry and drama from the 14 <sup>th</sup> to the 17 <sup>th</sup> century.	On completion of the course, the student will be able to sample and explore certain seminal texts from the early modern period, covering the genesis of modern English poetry and the Renaissance that set British poetry and drama on their glorious course to greatness.
Core – II	British Poetry and Drama: 17 <sup>th</sup> and 18 <sup>th</sup> Century	This paper seeks to acquaint students with the Jacobean and the 18 <sup>th</sup> century British poetry and drama.	On completion of the course, the students will be able to understand the period of acid satire and comedy of humours, and the period of supreme satiric poetry and comedy of manners.
Core – III	British Prose: 18 <sup>th</sup> Century	This paper seeks to acquaint the students with a remarkable, newly evolved form of literature: the essay.	On completion of the course, the students will be able to understand how the literary discourse shifted its emphasis from reason to emotion.
Core – IV	Indian Writing in English	This paper seeks to acquaint the students with one of the fastest growing Indian literature in last one hundred years.	On completion of the course, the students will be able to understand the rich and vibrant body of writing spanning all genres through a selection of representative poems, novels and plays.
Core – V	British Romantic Literature	This paper seeks to acquaint the students with the Romantic period and some of its representative writers.	On completion of the course, the students will be able to sample some seminal works of the Romantic age which gave expression to the key ideas of the period such as return to nature, subjectivity, desire for personal freedom and the defiance of classicism-imposed restrictions of poetic form.
Core – VI	British Literature: 19 <sup>th</sup> Century	This paper seeks to introduce the students with the exploits of the 19 <sup>th</sup> century British literature in prose, especially fiction and	On completion of the course, the students will be able to understand one of the major phases in the history of British

  
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		cultural criticism.	literature and the contribution of the legendary authors to the arena of literature through some of the seminal texts written by them, in various genres.
Core – VII	British Literature: Early 20 <sup>th</sup> Century	This paper seeks to acquaint the students with the literature of Britain in the early 20 <sup>th</sup> century.	On completion of the course, the students will be able to understand the modernist canon in poetry, novel and literary criticism that would help them have a broader and deeper perspective in this context.
Core – VIII	American Literature	This paper seeks to introduce the students with one of the major branches of English literature i.e. American Literature.	On completion of the course, the students will be able to understand the contribution of the American authors in developing the quality and horizon of different genres in English literature through seminal texts.
Core – IX	European Classical Literature	This paper seeks to introduce the students to European Classical Literature.	On completion of the course, the students will be able to understand the founding texts of the European canon and the age that is considered to have begun in the 8 <sup>th</sup> century BC in ancient Greece and continued until the decline of the Roman empire in the 5 <sup>th</sup> century AD.
Core – X	Women's Writing	This paper seeks to acquaint the students with the works of women writers from different cultures and nations in various genres.	On completion of the course, the students will be able to be critically aware of the issues relating to the workings of patriarchy, issues of gender, and relations of desire and power.
Core – XI	Modern European Drama	This paper aims to introduce the students to the best of experimental and innovative dramatic literature of modern Europe.	On completion of the course, the students will be able to understand some of the greatest authors of the age and their seminal works that shaped the trend and tendency of the then literary sphere.

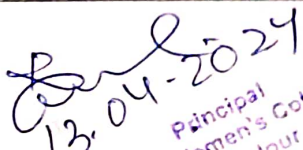
  
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Core – XII	Indian Classical Literature	This paper seeks to create awareness among the students of the rich and diverse literary and aesthetic culture of ancient India.	On completion of the course, the students will be able to understand that like other field of knowledge India was prosperous too in terms of literary eminence and its contribution to the sphere is way ahead than any other nation and culture in this regard.
Core – XIII	Postcolonial Literatures	This paper seeks to introduce the students to postcolonial literature – a body of literature that responds to European colonialism and empire in Asia, Africa, Middle East, the Pacific and elsewhere.	On completion of the course, the students will be able to think through the layered response – compliance, resistance, mimicry, and subversion – that is involved in the production of post-independent literature.
Core – XIV	Popular Literature	This paper seeks to introduce the students to genres such as children’s literature, detective fiction and campus fiction, which have a mass appeal.	On completion of the course, the students will be able to understand better the popular and folk roots of literature and how ordinary writings too can have extra-ordinary impact on the common readers and the deeper reach of literature among the masses.
DSE – I	Literary Theory	This paper seeks to expose the students to the basic premises and issues of major theoretical approaches to literary texts.	On completion of the course, the students will be able to understand the theoretical bases of literature; its importance and substance, and its usage in both examination purpose and competitive purpose as well.
DSE – II	World Literature	This paper seeks to introduce the students to the study of world literature through a representative selection of texts from around the world.	On completion of the course, the students will be able to read and grasp beyond the classic European canon by including defining literary texts from other major regions/countries – except the United States of America – written in languages other than English, but made available to the readers in English translation.

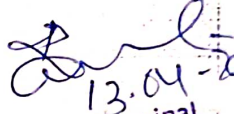
  
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DSE – III	Partition Literature	This paper seeks to expose the students to some significant writings on Indian partition.	On completion of the course, the students will be able to understand how the partition brought about endless as well as untold miseries to those who lost lives, relatives, and homes. The issues of trauma, loss, communalism etc. are explored by the texts which would provide the students with a sense of undoing with the past.
DSE – IV	Writing for Mass Media	This paper seeks to acquaint the students with a major field in the contemporary world and a promising career option.	On completion of the course, the students will be able to have basic understanding about the basic requirements in the field of journalism which is the fourth pillar of democracy and a blooming field with lots of career objective and advantage.
GE – I	Academic Writing and Composition	This paper seeks to train the students in the basic writing skills required for writing competently in the academic context.	On completion of the course, the students will be able to have a basic command over the required writing abilities that are essential for them during examination and for professional commitments.
GE – II	Gender and Human Rights	This paper seeks to familiarize the students with issues of inequality, and oppression of caste, race and gender.	On completion of the course, the students will be able to have a basic understanding of the gender issues, human rights and the concept of identity that is essential in a democratic nation and set up.
GE – III	Nation, Culture, India	This paper seeks to introduce students across disciplines to basic ideas about Indian cultural ethos mediated through literature.	On completion of the course, the students will be able to understand the intricacies and inherent details of nationality, cultural ethos and the diversity and symphony existing within the Indian nation and culture.
GE – IV	Language and Linguistics	This paper aims to offer the students some fundamental	On completion of the course, the students will be aware of the

  
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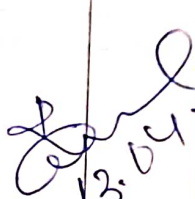
		knowledge in Linguistics and English Language Teaching.	various aspects of language and they will also be acquainted with the variety of English that people come in contact with in contemporary times with a special emphasis on Asia and in particular, India.
SEC - I	Communicative English	This paper aims to offer the students some fundamental knowledge in Communicative English that is essential for everyday communication and academic/professional purpose.	On completion of the course, the students will be able to have a better communication skill in English which is essential for them to fulfill everyday, academic and professional commitments.

  
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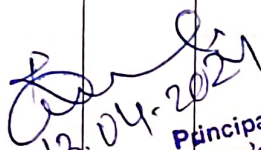
GOVT. WOMEN'S COLLEGE, SAMBALPUR  
DEPARTMENT OF GEOGRAPHY

COURSE OUTCOME OF THE PAPERS FOR THREE YEAR DEGREE CHOICE  
BASED CREDIT SYSTEM FOR GEOGRAPHY (HONS.) STUDENTS

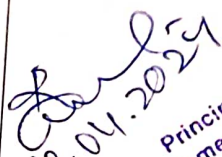
SL.NO	CORS E	COURSE TITLE	COURSE OUTCOME
01	C-I	Geomorphology	<ul style="list-style-type: none"> <li>➤ CO1. Develop an idea about geomorphology and different types of fundamental concepts.</li> <li>➤ CO2. Explain different types of geomorphic processes like weathering and mass wasting and cycle of erosion.</li> <li>➤ CO3. Understand the processes of erosion, deposition and resulting landforms.</li> <li>➤ CO4. Acquire knowledge about slope forms and processes.</li> </ul> <p><u>Practical</u></p> <ul style="list-style-type: none"> <li>➤ CO1. Gain knowledge about topographical maps and apply this knowledge in ground surface.</li> <li>➤ CO2. Identification of different types of rock and minerals.</li> </ul>
02	C-II	Cartography	<ul style="list-style-type: none"> <li>➤ CO 1 Student will develop the skill of spatial data acquisition, management, analysis and mapping</li> <li>➤ CO 2 Student will Create digital maps defining the purpose, content and function of geospatial data</li> </ul> <p><u>Practical</u></p> <ol style="list-style-type: none"> <li>1. Construction and use of Graphical, RF &amp; Statement Scale, Diagonal Scale</li> <li>2. Grid Reference System, Latitude, Longitude, International Date Line, Date and Time based on GMT &amp; IST)</li> <li>3. Construction of Map Projections: Simple Cylindrical, Simple conical Projection with one and two standard parallels, Polyconic , Gnomonic and Mercator's</li> <li>4. Cartograms of one, two and three dimensions- Simple and Complex bars, circle and sphere diagram, block diagrams.</li> <li>5. Drawing of Choropleth and isopleths maps, relief and slope maps</li> </ol>
03	C-III	Human Geography	<ul style="list-style-type: none"> <li>➤ CO1. -The students will be aware of the scope and contents of human geography.</li> <li>➤ CO2. Man's adaptation in various environments.</li> <li>➤ CO3. This particular module aims to develop an idea about the world population distribution and the factors that lead to uneven distribution of the population. It also focuses on the problem that is likely to arise due to an increase in the world population.</li> <li>➤ CO4. - Different types of settlement and characteristics and their definitions.</li> <li>➤ CO5. Scope and content of social geography; race</li> </ul>

  
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			<p>characteristics and distribution; factors and characteristics of underdevelopment.</p> <p><u>Practical</u></p> <ol style="list-style-type: none"> <li>1. Drawing of age sex pyramid of developed, developing and under developed countries</li> <li>2. II. Drawing of population distribution maps using symbols–Simple and multiple dots, circles and spheres, choropleth maps of population density distribution</li> <li>3. III. Drawing of Pie Diagram (Using population data of occupational structure, population composition)</li> <li>4. IV. Trend of population growth, growth of urban population and settlements</li> </ol>
04	C-IV	Climatology	<p>➤ Co1.Students will learn about the atmosphere and the climate, pressure belts, wind systems, monsoon and their importance, difference between climate and weather.</p> <p>➤ Co2.Students can learn the significance of biogeography. They will also get to know about the factors responsible for plant growth.</p> <p><u>Practical</u></p> <ol style="list-style-type: none"> <li>1.Introduction to use of simple weather observation instruments: Thermometer, Barometer, hygrometer, anemometer, wind vane, Rain Gauge, Stevenson Screen, Interpretation of weather maps</li> <li>2. Drawing of Climograph and Hythergraph, Wind rose diagram.</li> <li>3. Drawing of isopleth maps : isotherms, isobars and isohyets</li> <li>4. Spatial and temporal distribution of rainfall using choropleth techniques and trend graphs</li> <li>5. Record &amp; Viva-Voce carries 10 marks</li> </ol>
05	C-V	Oceanography	<p>Student will acquire knowledge on :-</p> <ul style="list-style-type: none"> <li>➤ Physical and chemical properties of sea water, bottom relief and distribution of oceanic resources.</li> <li>➤ Nature and scope of oceanography, history of oceanographic expedition; distribution of water; major features of ocean basins; bottom topography of Indian, Pacific and Atlantic Oceans; Ocean deposits.</li> <li>➤ Impact of Humans on the Marine Environment: law of the sea, exclusive economic zone, food and mineral resources of the sea, India's off-shore wealth. Physical and chemical properties of sea water; density, temperature and salinity; ocean currents, waves &amp; tides; sea level changes. Coastlines &amp; Shorelines, origin and characteristics of coastal features; Origin, characteristics and classification of continental shelf, continental slope, sub-marine canyons and coral reefs</li> </ul> <p><u>Practical</u></p> <p>Students are expected to :-</p>

  
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			<ol style="list-style-type: none"> <li>1. Interpret Topographical Maps.</li> <li>2. Demarcate of catchment basins and drainage networks, stream ordering and</li> <li>3. Identify and interpret drainage patterns.</li> <li>4. Able to do Enlargement and reduction of maps: Graphical and instrumental, use of pantographs</li> </ol>
06	C-VI	Statistical Methods in Geography	<p>Students are expected to learn</p> <ul style="list-style-type: none"> <li>➤ CO1. Learn the significance of statistics in geography.</li> <li>➤ CO2. Understand the importance of use of data in geography</li> <li>➤ CO3. Know about different types of sampling.</li> <li>➤ CO4. Develop an idea about theoretical distribution.</li> </ul> <p style="text-align: center;"><u>Practical</u></p> <ul style="list-style-type: none"> <li>➤ Learn to use tabulation of data, Measure of dispersion and Standard deviation.</li> <li>➤ Gain knowledge about association and correlation.</li> </ul>
07	C-VII	Geography of Odisha	<p>Students are expected to get clarity of :-</p> <ul style="list-style-type: none"> <li>➤ Physiography of Odisha, River System, Climate, Soil, Natural Vegetation, Agriculture</li> <li>➤ Distribution and Production of Various Mineral Resources</li> </ul> <p style="text-align: center;"><u>Practical</u></p> <p>Student will be able to perform :-</p> <ol style="list-style-type: none"> <li>1. Rainfall distribution of Odisha using choropleth techniques</li> <li>2. Temperature / rainfall distribution using isopleth</li> <li>3. Drawing of time series graphs to depict decadal growth of population/ urban population</li> <li>4. Cartographic representation of socio-economic data (One, two three dimensional)</li> </ol>
08	C-VIII	Evolution of Geographical Thought	<ul style="list-style-type: none"> <li>➤ CO1. Gain knowledge about development of geographical thought.</li> <li>➤ CO2. Develop an idea about evolution of geographical thinking and disciplinary trends in Germany, France, Britain, and United States of America.</li> <li>➤ CO3. Build an idea about between environmental determinism and possibilism, systematic and regional.</li> <li>➤ CO4. Know about the trends of geographical thoughts.</li> </ul> <p style="text-align: center;"><u>Practical</u></p> <p>Student will be able to understand :-</p> <ol style="list-style-type: none"> <li>1. use of survey Instruments: Prismatic Compass, Leveling, Theodolite</li> <li>2. Methods of Surveying: Radiation, Intersection, Resection Traversing ( Close and Open)</li> <li>3. Use of GPS / DGPS in observation of coordinate values of a number of points</li> <li>4. Preparation and uses of questionnaire and schedule in a</li> </ol>

  
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			socio economic survey
09	C-IX	<b>Economic Geography</b>	<ul style="list-style-type: none"> <li>➤ CO1. This module deals with the scope and content of economic geography; economic activities- primary, secondary, tertiary.</li> <li>➤ CO2. Focuses on the concept of agricultural theory VonThunen Theory of location of agricultural activity and Weber's theory of Industrial Location..</li> </ul> <p style="text-align: center;"><u>Practical</u></p> <p>Student will be able to understand :-</p> <ol style="list-style-type: none"> <li>1. Determination of agricultural efficiency (Kendal and Bhatia method) and to show on maps</li> <li>2. Drawing of Isotims, Isodapanes and industrial location based on Weber's theory</li> </ol>
10	C-X	<b>Environmental Geography</b>	<ul style="list-style-type: none"> <li>➤ CO1. Gain knowledge about concept, scope of environmental geography and components of environment.</li> <li>➤ CO2. Develop an idea about human-environment relationships.</li> <li>➤ CO3. Build an idea about ecosystem.</li> <li>➤ CO4. Know about environmental programmes and policies.</li> </ul>

  
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11	C-XI	Regional Planning and Development	<ul style="list-style-type: none"> <li>➤ CO1. Gain knowledge about definition of region, evolution and types of regional planning.</li> <li>➤ CO2. Develop an idea about choice of a region for planning.</li> <li>➤ CO3. Build an idea about theories and models for regional planning.</li> <li>➤ CO4. Know about measuring development indicators.</li> </ul> <p style="text-align: center;"><u>Practical</u></p> <p>Student will be able to do :-</p> <ol style="list-style-type: none"> <li>1. Mapping regional Disparity based on socio-economic data</li> <li>2. Mapping levels of development based on socio-economic data</li> </ol>
12	C-XII	Remote Sensing and GIS	<ul style="list-style-type: none"> <li>➤ CO1. They can know about concepts, components, development, platforms and types of remote sensing and GIS.</li> <li>➤ CO2. They understand about Aerial photography and Satellite Remote Sensing.</li> <li>➤ CO3. Know about GIS data structures.</li> <li>➤ CO4. Develop an idea about interpretation and application of remote sensing and GIS.</li> </ul> <p style="text-align: center;"><u>Practical</u></p> <p>Student will be able to do :-</p> <ol style="list-style-type: none"> <li>1. Feature identification from aerial photographs using Pocket stereoscope/Mirror stereoscope</li> <li>2. Visually interpret Feature from satellite Images.</li> <li>3. Identify water bodies from satellite imageries</li> </ol>
13	C-XIII	Geography of India	<ul style="list-style-type: none"> <li>➤ CO1. They can know about their own countries land formation, climate and natural vegetation.</li> <li>➤ CO2. They understand the population problems in India. Access the population policies and reaction the countries.</li> <li>➤ CO3. They understand globalization and Indian economy. And also understand the regional distribution of resource.</li> </ul> <p style="text-align: center;"><u>Practical</u></p> <p>Student will be able to do :-</p> <ol style="list-style-type: none"> <li>1. Population density map of India by Choropleth</li> <li>2. Graphical &amp; cartographic presentation of socio-economic data</li> <li>3. Pie chart showing occupational structure of India</li> <li>4. Population pyramid for India</li> </ol>
14	C-XIV	Disaster Management	<ul style="list-style-type: none"> <li>➤ CO1. Understand the definition, classification of hazards and disasters</li> <li>➤ CO2. Gain knowledge about approaches to hazard study.</li> <li>➤ CO3. Develop an idea about factors, consequences and management of earthquake, landslide, flood and riverbank erosion.</li> <li>➤ CO4. Acquire knowledge about human induced disaster.</li> </ul> <p style="text-align: center;"><u>Practical</u></p>

  
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			<p>Student will be able to do :-</p> <ul style="list-style-type: none"> <li>➤ A case study report on a specific hazard / disaster based on literature review and or field work</li> </ul>
15	DSE-I	Population Geography	<p>Students are expected to get concept of :-</p> <ul style="list-style-type: none"> <li>➤ CO1. Understand the nature of population. Know about composition of population, like- age, sex marital status, family, economic composition and language.</li> <li>➤ CO2. Analyze the global trend and patterns of population growth in developing countries, and migration patterns.</li> <li>➤ CO3. Evaluate the population growth theory and migration theories.</li> <li>➤ CO4. Understand the population policies in different countries.</li> </ul>
16	DSE-II	Resource Geography	<p>Students are expected to learn :-</p> <ul style="list-style-type: none"> <li>➤ CO1 Natural Resources: Concept, Types, Classification, and Functional Theory of Resources.</li> <li>➤ CO2 Resource scarcity hypothesis , Concept and approach towards sustainable development of resources</li> </ul> <p style="text-align: center;"><u>Practical</u></p> <p>Student will be able to do :-</p> <ol style="list-style-type: none"> <li>1. Simple Correlation and interpretation of correlation coefficient</li> <li>2. Test of significance of correlation coefficient</li> <li>3. Rank Correlation</li> <li>4. Simple Linear Regression, Drawing of scatter gram and regression line</li> </ol>
17	DSE-III	Urban Geography	<ul style="list-style-type: none"> <li>➤ CO1. Students can explain the town and cities in India and World perspective.</li> <li>➤ CO2. Gain knowledge about the history of urbanization in the developed and developing countries.</li> <li>➤ CO3. They can understand the functional differences between rural and urban settlements.</li> <li>➤ CO4. Students can define the problems of urban area. And try to solve them.</li> <li>➤ CO5. They will know the characteristics of urban settlement.</li> <li>➤ CO6. To be able to identify the urban environmental problem and how to solve those problem.</li> </ul>
18	DSE-IV	Field work and research methodology	<ul style="list-style-type: none"> <li>➤ CO1 Students are expected to know the research methodologies for pursuing research in their respective fields which may motivate them to pursue higher Studies. it will introduce research aptitude among young geographers</li> </ul>

  
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## GENERIC ELECTIVE(GE)

(HINDI)

### GE:1 हिंदी साहित्य का मध्यकालीन इतिहास और भक्ति भावना

#### मध्यकालीन साहित्य का परिचय

- यूनिट-1: मध्यकाल का सामान्य परिचय पा सकेंगे
- यूनिट-2: भक्तिकाल की पृष्ठभूमि जान सकेंगे
- यूनिट-3: भक्तिकालीन साहित्य की प्रवृत्तियाँ: सगुण-निर्गुण काव्य का सामान्य परिचय पा सकेंगे
- यूनिट-4: भक्तिकाल की कव्यधाराएँ: भेद-उपभेद का ज्ञान हासिल कर सकेंगे
- यूनिट-5: निर्गुण भक्तिकाव्य: ज्ञानमार्गी काव्यधारा से परिचित हो सकेंगे
- यूनिट-6: निर्गुण ज्ञानमार्गी कवि कबीर: व्यक्तित्व, कृतित्व से परिचित हो सकेंगे
- यूनिट-7: कबीर साहित्य का अध्ययन कर सकेंगे
- यूनिट-8: निर्गुण भक्तिकाव्य: प्रेममार्गी काव्यधारा से परिचित हो सकेंगे
- यूनिट-9: निर्गुण प्रेममार्गी कवि मलिक मुहम्मद जायसी: व्यक्तित्व, कृतित्व से परिचित हो सकेंगे
- यूनिट-10: जायसी साहित्य का अध्ययन का ज्ञान हासिल कर सकेंगे
- यूनिट-11: सगुण कृष्ण भक्ति काव्यधारा से परिचित हो सकेंगे
- यूनिट-12: सगुण कृष्ण भक्ति काव्यधारा के प्रमुख कवि मूरदास: व्यक्तित्व, कृतित्व जान सकेंगे
- यूनिट-13: मूर साहित्य का अध्ययन: भ्रमरगीत काव्य से परिचित हो सकेंगे

#### GE:II साहित्य और संदर्भ: विविध वाद

##### साहित्य और संदर्भ: विविध वाद

- यूनिट-1: स्वकेंद्रतावाद का ज्ञान हासिल कर सकेंगे
- यूनिट-2: क्रिमियलनावाद का ज्ञान हासिल कर सकेंगे
- यूनिट-3: अस्तित्ववाद, आधुनिकतावाद, उत्तराधुनिकतावाद से परिचित हो सकेंगे
- यूनिट-4: साक्षरवाद और विप्लववादी उपासक से परिचित हो सकेंगे
- यूनिट-5: उल्लंघनात्मकता और उत्तर-आधुनिकता का ज्ञान हासिल कर सकेंगे
- यूनिट-6: विम्व, प्रतीक, कल्पना तत्त्व से परिचित हो सकेंगे
- यूनिट-7: पेंटिंग, कहानी गुनाग, और नाटकीय खेल का ज्ञान हासिल कर सकेंगे

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यूनिट-8: मिथक से परिचित हो सकेंगे

### GE: III साहित्यिक पत्रकारिता

पत्रकारिता : उद्भव, धवकास एवं प्रमुख पत्रकार

यूनिट-1: पत्रकारिता: परिभाषा और स्वरूप से परिचित हो सकेंगे

यूनिट-2: हिंदी पत्रकारिता का उद्भव, विकास एवं नामकरणका ज्ञान हासिल कर सकेंगे

यूनिट-3: प्रमुख पत्रकार: भारतेन्दु, महावीर प्रसाद द्विवेदी, निराला और राजेंद्र यादव से परिचित हो सकेंगे

यूनिट-4: समकालीन पत्रिकाएँ: आलोचना, हंस, साहित्य अमृत एवं नया ज्ञानोदय से परिचित हो सकेंगे

यूनिट-5: भेंट वार्ता का ज्ञान हासिल कर सकेंगे

यूनिट-6: फीचर लेखन का ज्ञान हासिल कर सकेंगे

यूनिट-7: सम्पादकीय लेखन का ज्ञान हासिल कर सकेंगे

### GE: IV हिंदी सिनेमा और उसका अध्ययन

इकाई- 1 पहला पड़ाव: सिनेमा का उद्भव और विकासजान सकेंगे

इकाई- 2 मूक चलचित्र: दादा साहब फाल्के युग से परिचित हो सकेंगे

इकाई - 3 दूसरा पड़ाव: सवाक चलचित्र तथा आलमआराका ज्ञान हासिल कर सकेंगे

इकाई - 4 रिंगीन सिनेमा का युगसे परिचित हो सकेंगे

#### स्वतन्त्रता पूर्व और विस्वीं सदी में हिंदी सिनेमा

इकाई - 5 स्वतन्त्रता पूर्व हिंदी सिनेमा से परिचित हो सकेंगे

इकाई - 6 स्वतन्त्रता पूर्व हिंदी सिनेमा में नवजागरण को जान सकेंगे

इकाई - 7 स्वतन्त्रता पूर्व हिंदी सिनेमा में चित्रित राष्ट्रीय भावना से परिचित हो सकेंगे


इकाई - 8 विस्वीं सदी में हिंदी सिनेमा की चमत्कारिता से परिचित हो सकेंगे

इकाई - 9 विस्वीं सदी में हिंदी सिनेमा की उपलब्धि एवं प्रभाव को जान सकेंगे

#### हिंदी सिनेमा और साहित्य

इकाई - 10 हिंदी सिनेमा की भाषा को जान सकेंगे

इकाई - 11 साहित्य और सिनेमा का अन्तसंबंध से परिचित हो सकेंगे

  
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इकाई - 12 हिंदी साहित्य पर आधारित हिंदी फिल्मोंका ज्ञान हासिल कर सकेंगे

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**GOVT. WOMEN'S COLLEGE, SAMBALPUR**  
**DEPARTMENT OF HISTORY**

PROGRAMME SPECIFIC AND COURSE OUTCOME  
(B.A. HONOURS (HISTORY))

**CC-1 (SEMESTER-1)**

History of India From the Earliest Times to C. 300 BCE

**Outcomes:**

- To understand the nature of the sources and interpretations of the ancient Indian history
- To know about the hunter-gatherers and advent of food products with reference to Palaeolithic, Mesolithic, Neolithic and Chalcolithic cultures, distribution, subsistence pattern and technological development
- To acquire knowledge about the origin, town planning, economic activity, religious belief, cultural practices and decline of the Harappan civilization.
- To understand the socio-political, economic, religious and cultural development North and Central India and the Deccan.

**CC-2 (SEMESTER-1)**

Social Formations and Cultural Patterns of the Ancient World other than India

**Outcomes:**

- To get knowledge about the evolution of humankind with reference to their socio-political institutions.
- To be acquainted with the economic activity of the ancient world other than India.
- To know about the polity, society, religion and economy of the Bronze Age civilizations like the Egyptian and the Chinese civilizations.
- To explain the debate regarding the advent of iron and its various implications in Central and West Asia
- To acquire knowledge about the economy and urbanization of the slave society in ancient Greece and Rome.
- To know about Polis in ancient Greece.

**CC-3 (SEMESTER-2)**

History of India C 300 BCE to C 750 CE

**Outcomes:**

- To understand the economic development, urban growth and social institutions of North and Central India and the Deccan between C 300 BCE and 300 CE.
- To know about the political formations of the Mauryan Empire and the post-Mauryan polities like the Kushanas and the Satavahanas
- To be acquainted with the agrarian and commercial economy, social practices and polity of the Gupta and post-Gupta period.
- To understand the religious beliefs and practices with reference to various theistic cults and the origin of Tantricism.

- To know about the cultural development in India between C. 300 B.C.E. and C. 750 C.E. with reference to literature and art and architecture.

#### CC-4 (SEMESTER-2)

#### Social Formations and Cultural Patterns of the Medieval World other than India

##### Outcomes:

- To understand the nature of the tribal organization, economy and culture of the Bedouin Society in Arabia.
- To be acquainted with the nature of polity and society and administration of the Mongol and the Ottoman Empire.
- To explain the crisis of the Roman Empire.
- To develop knowledge about region and culture in Medieval Europe with reference to Carolingian renaissance, witchcraft and magic etc.
- To explain the origin and crisis of the feudal society in Europe.
- To enable the student to understand the nature of Judaism and Christianity under Islam.

#### CC-5 (SEMESTER-3)

#### History of India (CE 750 -1206)

##### Outcomes:

- To understand the sources of Early Medieval Indian history and concepts like Indian feudalism.
- To be acquainted with the political structure of the time with reference to the regional polities and Arab and Turkish invasion.
- To understand the agrarian structure and social changes in Early Medieval India.
- To make the students aware of the trading activities of the time with references to different forms of trade, mode of exchange, role of guilds etc.
- To understand the religious and cultural development of the period.

#### CC-6 (SEMESTER-3)

#### Rise of the Modern West- I

##### Outcomes:

- To enable the students to understand the debate on transition from feudalism to capitalism.
- To be acquainted with the history of the exploration of the new world—motives and significance.
- To understand the meaning and nature of the European renaissance—its spread and impact.
- To acquire knowledge about the reformation movement—its origin and courses.
- To develop an understanding of the economic development of the west with reference to price revolution, enclosure movement etc.
- To explain the rise of national monarchy and European state system.

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### CC-7 (SEMESTER-3)

#### History of India (c. 1206-1526)

##### Outcomes:

- To understand the nature of the sources of the Delhi Sultanate – literary (Persian and Vernacular) and epigraphic
- To know the political structure of the Delhi Sultanate and as well as provincial powers – their expansion, consolidation, theories of kingship and composition of ruling elites.
- To be acquainted with the nature of social and economic activities of the time.
- To understand the religious beliefs and cultural trend of the period with references to Sufi and Bhakti movement and literary and architectural activities.

### CC-8 (SEMESTER-4)

#### Rise of the Modern West- II

##### Outcomes:

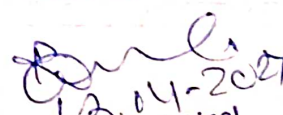
- To make the students aware of the meaning and significance of the revolution in printing and war techniques.
- To understand the socio-economic and political dimensions of the crisis in Europe in the 17<sup>th</sup> century.
- To be acquainted with the political and intellectual issues related to the English Revolution.
- To understand the nature and impact of the scientific revolution and the origin of the enlightenment.
- To acquire knowledge about the economic doctrine like mercantilism and factors leading to the industrialization.
- To learn European politics in the 17<sup>th</sup> and 18<sup>th</sup> with reference to parliamentary monarchy and patterns of absolutism in Europe.

### CC-9 (SEMESTER-4)

#### History of India (c1526-1750)

##### Outcomes:

- To understand the Mughal historiography.
- To know about the foundation, consolidation and expansion of Mughal rule in India.
- To make the students aware of the nature of the rural society and economy with reference to rural tensions, agricultural production, trade route and patterns etc.
- To be acquainted with the political and religious ideals of the time like Sulh-i-Kul, Sufism etc.

  
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CC-10 (SEMESTER-4)

Outcomes: To know historical methodology by which historians gather evidence and formulate ideas about the past.

History is a dynamic not a definite discipline.  
Important part of the historical method is its continuing internal dialectic.  
Historical understanding grows by a process in which historians subject to criticism the ways in which the present mindedness of their predecessors caused them to distort the past.

HISTORICAL THEORIES & METHODS

CC-11 (SEMESTER-5)

History of Modern Europe I (c. 1780-1880)

Outcomes:

Identify the fundamental feature of the early modern period and understand the problem  
Appreciation of different approaches to the study of this period  
Understand the evidences obtained from historical sources and used in the study of early modern Europe

CC-12 (SEMESTER-5)

History of India (c 1750s-1857)

Outcomes:

- To understand the nature of Indian society, economy and polity in the mid-18th century.
- To develop knowledge about expansion and consolidation British colonial power in India.
- To understand the nature of the colonial state and ideology including army, police, law, the education system etc.
- To make the students understand the various aspects of the rural economy and society like land revenue system, commercialization and indebtedness etc.
- To develop concepts of deindustrialization, drain of wealth, growth of modern industries etc.
- To know about the popular resistances like the Santhal uprising and the Indigo Rebellion.

CC-13 (SEMESTER-6)

History of India (c 1857-1950)

Outcomes:

- To understand the cultural changes and socio-religious reform and revivalist movements in India like the Bramho Samaj, Prarthana Samaj, Wahabi and Aligarh movements etc.
- To be acquainted with the rise of nationalism in India with reference to moderates, extremists and revolutionaries.
- To develop understanding of the different aspects of the Gandhian nationalism.

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CC-14 (SEMESTER-6)

## HISTORY OF MODERN EUROPE II (c. 1880 - 1939)

**Outcomes:**

- Identify the fundamental feature of the early modern period and understand the problem
- Appreciation of different approaches to the study of this period
- Understand the evidences obtained from historical sources and used in the study of early modern Europe

### DSE-I

## HISTORY AND CULTURE OF ODISHA-I

**Outcomes:**

- To understand the early history of ancient Odisha through evidences through the Archaeology.
- Able to grasp the ideas of ancient sites and dynastic history in a much Meaningful manner.

### DSE-II

## HISTORY AND CULTURE OF ODISHA-II

**Outcomes:**

- To know the history of modern Odisha based on the Maratha and the British period
- To understand the creation of Odisha as a separate state during the freedom movement

### DSE-III

## HISTORY AND CULTURE OF ODISHA-III

**Outcomes:**

- To understand the cultural history of Odisha from the early period
- To develop knowledge on various aspects of religion and architecture along with Education of the period.
- To know the socio-religious consciousness of Odisha through different movements

### DSE-IV

## PROJECT REPORT

**Outcomes:**

- Students are expected to know the research methodologies for pursuing research in their respective fields which may motivate them to pursue higher studies
- Students are motivated to acquire knowledge on various historical sites through their project And field works

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**PROGRAMME SPECIFIC OUTCOME**  
**DEPARTMENT OF HOME SCIENCE**

COURSE CODE	COURSE NAME	OBJECTIVE	OUTCOMES
Core course-1	HUMAN DEVELOPMENT 1: THE CHILDHOOD YEARS	1. To understand importance of Human development & principles involved in it. 2. To study the developmental pattern of children starting from prenatal period up to middle childhood years in the areas of physical ,motor, social , emotional & language development.	The student understands the development of children ages newborn through two years. The student is expected to: (A) analyze the physical, emotional, social, and cognitive development of infants and toddlers; (B) analyze various developmental theories relating to infants and toddlers; (C) discuss the influences of the family and society on the infant and toddler; (D) analyze the physical, emotional, social, and cognitive development of preschoolers; (E) analyze various developmental theories relating to preschoolers; (F) analyze the physical, emotional, social, and cognitive development of children in the early to middle childhood stage of development
Core course-2	FOOD AND NUTRITION	1.To understand basic concepts of food, nutrition and their related terms . 2. To study the functions, requirement& deficiency of macro & micronutrients in the human body. 3. To examine the difference between weights & measures of raw & cooked foods. 4.To gain knowledge on nutritional contribution of various foods and principles involved in its cooking.	The student will acquire scientific knowledge of basic sciences and principles of Nutrition and Dietetics. Students will get a broad understanding of clinical nutrition, food science, sports nutrition, public health nutrition and its influence on human health and well-being. They will develop skills pertaining to critical analysis, entrepreneurship and communication for career development in the field of nutritional sciences, and will enhance practical knowledge in the


  
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			domain of Nutrition and Dietetics for its applications in industry and research.
Generic Elective Paper I	HUMAN NUTRITION	1.To gain knowledge about different nutrients, their classification, function, sources, requirement and deficiency diseases.	The student will acquire scientific knowledge of basic sciences and principles of Nutrition and Dietetics. Students will get a broad understanding of clinical nutrition, food science, sports nutrition, public health nutrition and its influence on human health and well-being. They will develop skills pertaining to critical analysis, entrepreneurship and communication for career development in the field of nutritional sciences, and will enhance practical knowledge in the domain of Nutrition and Dietetics for its applications in industry and research.
Core course-3	EXTENSION EDUCATION	1.To enable the student to understand the meaning, principles, philosophy of Home Science Extension Education. 2. To enable the student to know about different methods used in Extension Education. 3. To enrich the Knowledge of the students about teaching learning process in Extension education.	The student gets to learn extension education which includes all the activities directed towards the development of the rural people. The capacity of extension education to work for rural people is very wide. The activity of the extension deals with many kinds of problems and mainly for rural people.

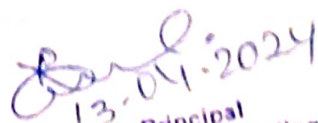
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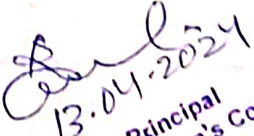
Core course-4	FAMILY RESOURCE MANAGEMENT	<p>1.To achieve goals in life through judicious resource management.</p> <p>2.To utilize available resources effectively.</p>	<p>Family Resource Management helps students to:</p> <ul style="list-style-type: none"> <li>• reach goals,</li> <li>• achieve what they want,</li> <li>• utilize resources properly,</li> <li>• make life more systematic,</li> <li>• avoid wastage of resources,</li> <li>• increase efficiency in work situations</li> </ul>
Generic Elective Paper II	HUMAN DEVELOPMENT & FAMILY STUDIES	<p>1.To know the importance of child study and about pre-natal Development.</p> <p>2. To understand the importance of Breast feeding and artificial feeding.</p> <p>3.To know the causes and consequences of infant and maternal mortality in India.</p>	<p>This course allows the students to study the cognitive, emotional, social and physical development of people throughout different stages. These changes from conception through death are shaped through family, friends, community, and society. This major deals with practical as well as theoretical knowledge and can be very compelling because of its strong relevance to every person.</p>
Core course 5	TEXTILES	<p>1.To know the manufacturing process of different types of textile fibers, their structures and uses.</p> <p>2.To know the manufacturing process of different types of fabrics.</p>	<p>Clothing is one of the basic needs of man. Textiles involve manufacturing different types of fabrics. Apart from the basic processes of manufacturing of fabric, spinning, weaving, bleaching, dyeing, printing &amp; finishing, the course has witnessed unprecedented growth in the scope for fashion designing &amp; garment manufacturing in the recent past.</p>

  
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Core course 6	DYNAMICS OF COMMUNICATION	<ol style="list-style-type: none"> <li>1.To understand the different spheres of communication</li> <li>2.To understand the concept, process, models and process of communication</li> </ol>	<p>This course covers the theories, practices and fundamental questions about human communication, including written, oral and social practices. Communication study is essential to careers in public relations, law, journalism, advertising and marketing, human resources and social work.</p>
Core course 7	PERSONAL FINANCE AND CONSUMER STUDIES	<ol style="list-style-type: none"> <li>1. To gain knowledge about the need of consumer education.</li> <li>2.To create awareness among consumers through education.</li> </ol>	<p>This course covers studies on consumer financial behavior around the key financial functions, namely, money management, insurance, loan and saving/investment. Again, students learn how to be critical consumers who can make thoughtful ethical decisions when faced with tough choices and be safe from hazardous practices.</p>
Generic Elective Paper III	TEXTILES	<ol style="list-style-type: none"> <li>1.To know the manufacturing process of different types of textile fibers, their structures and uses .</li> <li>2.To know the manufacturing process of different types of fabrics.</li> <li>3.To impart knowledge on different textile finishes.</li> </ol>	<p>Clothing is one of the basic needs of man. Textiles involve manufacturing different types of fabrics. Apart from the basic processes of manufacturing of fabric, spinning, weaving, bleaching, dyeing, printing &amp; finishing, the course has witnessed unprecedented growth in the scope for fashion designing &amp; garment manufacturing in the recent past.</p>
Core course 8	HUMAN DEVELOPMENT II DEVELOPMENT IN ADOLESCENCE AND ADULTHOOD	<ol style="list-style-type: none"> <li>1. To know the different developmental tasks during adolescence.</li> <li>2.To know the socio-emotional and cognitive developments of adulthood.</li> </ol>	<p>The student analyzes the growth and development of adolescents and adults, including those with special needs. The student is expected to: (A) analyze the physical, emotional, social, and intellectual needs of the adolescent and adult;</p>

  
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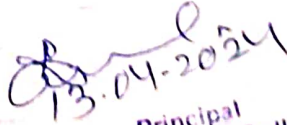
			(B) describe the growth and development in adolescent and adults.
Core course 9	NUTRITION: A LIFE CYCLE APPROACH	<ol style="list-style-type: none"> <li>1.To know the importance of nutrition in different stages of life cycle.</li> <li>2.To study nutritional needs in special condition.</li> </ol>	<p>The student will acquire scientific knowledge of basic sciences and principles of Nutrition and Dietetics. Students will get a broad understanding of clinical nutrition food science, sports nutrition and special conditions, public health nutrition and its influence on human health and well-being. The will develop skills pertaining to critical analysis, entrepreneurship and communication for career development in the field of nutritional sciences, and will enhance practical knowledge in the domain of Nutrition and Dietetics for its applications in industry and research.</p>
Core course 10	FASHION DESIGN	<ol style="list-style-type: none"> <li>1. To support and collaborate with fashion, textiles and design industry to achieve a sustainable progress.</li> <li>2. To give advance knowledge and pushing the boundaries in fashion, textile and designing.</li> </ol>	<p>Textiles involve manufacturing different types of fabrics. Apart from the basic processes of manufacturing of fabric, spinning, weaving, bleaching, dyeing, printing &amp; finishing, the course has witnessed unprecedented growth in the scope for fashion designing &amp; garment manufacturing in the recent past.</p>

  
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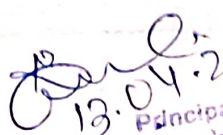
Generic Elective Paper -IV	FAMILY RESOURCE MANAGEMENT	<p>1. To achieve goals in life through judicious resource management.</p> <p>2. To utilize the available resources effectively.</p>	<p>Family Resource Management help students to:</p> <ul style="list-style-type: none"> <li>• reach goals,</li> <li>• achieve what they want,</li> <li>• utilize resources properly,</li> <li>• make life more systematic,</li> <li>• avoid wastage of resources,</li> <li>• increase efficiency in work situations</li> </ul>
Core course 11	THERAPEUTIC NUTRITION	<p>1. To study about principles of therapeutic nutrition.</p> <p>2. To know the nutritional need during different disease conditions.</p>	<p>The student get to know how different foods relate to different illnesses.</p> <p>The practice of therapeutic nutrition involves the provision of nutrients to maintain and/ or restore optimal nutrition and health.</p>
Core course 12	PHYSIOLOGY AND PROMOTIVE HEALTH	<p>1. To understand the structure and functions of various organs of the body.</p> <p>2. To focus on different mechanism of human body.</p>	<p>It is the study of functions and mechanisms of living organisms. Students come to know about how organisms, organs, cells and bio-molecules carry out their chemical and physical functions. Human physiology, a specific branch of physiology, studies how our cells, muscles and organs work together and interact.</p>
DSE I	INDIAN TEXTILES HERITAGE	<p>1. To study about different traditional textile and crafts of India .</p> <p>2. To know the care and storage techniques of different traditional textile.</p> <p>3. To study the socio- economic significance of traditional textile and its popularity in modern India.</p>	<p>Every community, region and culture has its own distinct way of dressing and clothing. India has a rich heritage of art and crafts which is reflected in its textiles and fabrics. Through this course The art of the student know about weaving and dyeing of fabrics was practiced in India from very ancient times. It was apparently such an important</p>

  
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			part of life of the ancient times. Many of its techniques gave the name to philosophical and religious thought.
DSE II	COMMUNICATION SYSTEMS AND MASS MEDIA	<ol style="list-style-type: none"> <li>1. To achieve the target of the organization by motivating and influencing the audience.</li> <li>2. To inform the public globally or locally.</li> </ol>	This course covers the theories, practices and fundamental questions about human communication, including written, oral and social practices. Communication study is essential to careers in public relations, law, journalism, advertising and marketing, human resources and social work.
Core course 13	RESEARCH METHODOLOGY	<ol style="list-style-type: none"> <li>1. To understand the meaning and process of research in social sciences.</li> <li>2. To know about the technique of collection, analysis and interpretation of data.</li> <li>3. To understand the meaning &amp; process of research in social sciences.</li> <li>4. To have fundamental knowledge about analysis of data &amp; the diagrammatic representation of data.</li> <li>5. To learn the techniques of interpretation of data &amp; report writing.</li> </ol>	Research methodology is the specific procedures or techniques used to identify, select, process, and analyze information about a topic. In a research paper, the methodology section allows the students to critically evaluate a study's overall validity and reliability.

  
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Core course 14	SOCIO ECONOMIC ENVIRONMENT	<ol style="list-style-type: none"> <li>1.To know the relationship between society, economy and environment.</li> <li>2. Create awareness among people regarding constraints in economic environment and its consequences.</li> </ol>	<p>Through this course ,students come to know about the relationship between social behavior and economics. Social economics consists of two broad perspectives that, though opposite in their approach, can be thought of as complementary. The theories of social economics often consider factors that are outside the focus of mainstream economics, including the effect of the environment and ecology on consumption and wealth.</p>
DSE III	MARRIAGE & FAMILY RELATIONSHIP	<ol style="list-style-type: none"> <li>1.To understand the concept of marriage &amp; its importance in family life.</li> <li>2. To acquire knowledge about the different pattern of marriage rituals &amp; ceremonies existing in Indian society.</li> <li>3. To understand the problems of Family &amp; Marital life prevalent in the society.</li> </ol>	<p>Through this course the students about marriage, relationship and family and impact of change in roles in every stage of life and propose strategies for maintaining well balanced relationship in marriage and family.</p>
DSE IV	PUBLIC NUTRITION	<ol style="list-style-type: none"> <li>1. To understand the importance of public health nutrition and its role.</li> <li>2.To gain knowledge on different ongoing nutrition programmes.</li> <li>3. To study different methods for assessment of nutritional status.</li> </ol>	<p>Public nutrition is a very wide field. Through this course students get to know about the programmes and policies which influence nutritional outcomes. These programmes are both nutritional and non nutritional i.e. education, economics etc. in focus.</p>

  
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# GOVT. WOMEN'S COLLEGE, SAMBALPUR

## DEPARTMENT OF MATHEMATICS

COURSE OUTCOME OF THE PAPERS FOR THREE YEAR DEGREE CHOICE BASED CREDIT SYSTEM FOR MATHEMATICS (HONS.) STUDENTS

SL.NO.	CORSE	COURSE NAME	COURSE OBJECTIVE	COURSE OUTCOME
01	C-I	CALCULUS	To enhance analytic and technical skills to handle the problem of mathematical nature as well as practical problem using differentiation and integration.	Students are expected to be able to use tools of calculus in scientific application of real world. Also they will get knowledge of scalars and vectors.
02	C-II	DISCRETE MATHEMATICS	To acquaint students with counting principle, set theory, logic, matrix and graph theory.	Students are expected to understand advanced course in modelling, computer science, physics, statistics.
03	C-III	REAL ANALYSIS	To lay foundation in real numbers and its properties in analytical way.	Students are expected to understand fundamental properties related to real analysis and similar field.
04	C-IV	DIFFERENTIAL EQUATIONS	To familiarize the students with various methods of solving ODEs and having qualitative approach to understand mathematical models.	Students are expected to solve ODEs and modelling problems. It is also prerequisite for PDEs.
05	C-V	THEORY OF REAL FUNCTIONS	To have knowledge on limit of functions, continuity, uniform continuity, Taylor's theorem and mean value theorems.	Students are expected to acquire knowledge of elementary calculus of functions of one variable. Also they will get concepts of maxima and minima.
06	C-VI	GROUP THEORY-I	To introduce students concepts of group which is foundation course for abstract algebra.	Students are expected to learn group, permutation group, normal subgroup and Lagrange's theorem. This course also helps students in various field of science and engineering.
07	C-VII	PDE AND SYSTEM OF ODEs	To introduce the concepts of Charpit's method, Jacobi method, solution of heat equation, wave equation and Laplace equation.	Students are expected to get clarity of the solution of linear and non-linear wave equation, diffusion equation, heat equation, gas dynamics and Industrial application of BVPs.
08	C-VIII	NUMERICAL METHODS AND SCIENTIFIC COMPUTING	To acquaint students with error analysis, numerical solution of different type of problems, which is applicable to real life, industrial and scientific computation.	Students are expected to handle physical problems to find approximated solution with the help of calculator or good mathematical software.
09	C-IX	TOPOLOGY OF METRIC SPACES	To impart knowledge on open sets, closed sets, connectedness and compactness.	Students are expected to learn to work with abstract topological spaces.

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11	C-XI	MULTIVARIABLE CALCULUS	To introduce functions of several variables, partial derivatives and vector calculus.	Students are expected to calculate partial derivatives, directional derivatives, extreme values, Green's, Stokes's and Gauss Divergence theorem.
12	C-XII	LINEAR ALGEBRA	To introduce the concepts of Vector space, linear transformations, matrix ,determinants etc.	Students are expected to apply acquired knowledge in comp.science, financial mathematics, industrial mathematics, bio-mathematics etc.
13	C-XIII	COMPLEX ANALYSIS	To provide an introductory theories for functions of complex variable, analyticity and complex integration using Cauchy's theorem and residues,	Students are expected to learn how to evaluate some integrals using complex integration and power series and residue integration method.
14	C-XIV	GROUP THEORY-II	To provide students advanced concepts in group theory, automorphism of group, group action, Sylow theorem.	Students are expected to learn direct product, group actions, class equations and it also helps to lay foundation of advanced course in algebra and linear algebra
15	DSE-I	LINEAR PROGRAMMING	To familiarize students to industrial Problems like transportation problem, assignment problem, simplex method ,duality and game theory.	Students are expected to get concepts which help them to study non-linear programming problems, inventory control problem and queuing theory.
16	DSE-II	PROBABILITY AND STATISTICS	To expertise students to extensive role of statistics in everyday life and computation and its application to mathematical and engineering sciences.	Students are expected to learn probability and statistics for various random variable, multivariable distribution, correlation, regression, law of large numbers.
17	DSE-III	DIFFERENTIAL GEOMETRY	To teach differential geometry of curves and surfaces which help students to learn themselves to derive intrinsic properties of plane curves and space curves.	Students are expected to learn Serret-Frenet formulae, relation between tangent, normal, binormal . First and second fundamental forms and ideas on various curvature.
18	DSE-IV	PROJECT	To familiarize students towards research on a particular field with literature review, questionnaire, data collection, report writing etc.	Students are expected to know the research methodologies for pursuing research in their respective fields which may motivate them to pursue higher studies .


*[Handwritten Signature]*  
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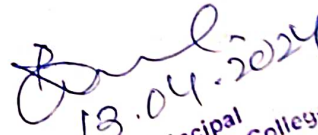
## ପାଠ୍ୟ ପରିଣାମ(course outcomes)

### ବିଷୟ - ସ୍ନାତକୋତ୍ତର ଓଡ଼ିଆ (PG , Odia)

କ୍ରମା କ୍ର	ବିଷୟବସ୍ତୁ (Name of the course/Course code)	ବିଷୟର ଆବଶ୍ୟକତା (Usefulness)	ପାଠ୍ୟ ପରିଣାମ (Outcomes)
୧	ORC-411- ଓଡ଼ିଆ ସାହିତ୍ୟର ଇତିହାସ(ପ୍ରଚୀନ,ଦାକିନୀ, ପଞ୍ଚଦଶୀ ଓ ରୀତିମୂଳ) ।	ବିଦ୍ୟାର୍ଥୀମାନେ ଅତୀତ ଓଡ଼ିଆ ସାହିତ୍ୟ ସମୀକ୍ଷା ସାଧାରଣ ଜ୍ଞାନ ପାଇ ପାରିବେ।	ଅତୀତର ମହତ୍ତ୍ୱପୂର୍ଣ୍ଣ ଆଧୁନିକ ଜ୍ଞାନକୁ ସୁଦୃଢ଼ କରୁଛି ।
୨	ORC-412- ଓଡ଼ିଆ ସାହିତ୍ୟର ଇତିହାସ(ଆଧୁନିକରୁ ପାଶ୍ଚାତ୍ୟ କାଳ ପର୍ଯ୍ୟନ୍ତ) ।	ବିଦ୍ୟାର୍ଥୀମାନେ ପ୍ରାକ ଓ ଉତ୍ତର ଇଂଲଣ୍ଡ ଶାସନକାଳୀନ ଓଡ଼ିଆ ସାହିତ୍ୟ ସମୀକ୍ଷା ସାଧାରଣ ଜ୍ଞାନ ପାଇ ପାରିବେ।	ଇଂରେଜ ଶାସନର ବିପର୍ଯ୍ୟୟ କାଳୀନ ସୃଷ୍ଟି ସାହିତ୍ୟ ପାଠ ଆମ ମନୋବଳକୁ ସୁଦୃଢ଼ କରୁଛି ।
୩	ORC-413- ପ୍ରଚୀନ ସାଧାରଣ, ପଞ୍ଚଦଶୀ ଓ ରୀତି ସାହିତ୍ୟର ପାଠ୍ୟ ଅଂଶ ଓ ଗ୍ରନ୍ଥ ।	ବିଦ୍ୟାର୍ଥୀମାନେ ଅତୀତ ଓଡ଼ିଆ ସାହିତ୍ୟ ସମୀକ୍ଷା ବିଶେଷ ଜ୍ଞାନ ପାଇ ପାରିବେ।	ଓଡ଼ିଆ ଅସ୍ମିତା ସୃଷ୍ଟିରେ ସହାୟକ ହୋଇଛି ।
୪	ORC-414 – ଆଧୁନିକ ଓଡ଼ିଆ କାବ୍ୟ କବିତା ର ପାଠ୍ୟ ଅଂଶ ଓ ଗ୍ରନ୍ଥ ।	ବିଦ୍ୟାର୍ଥୀମାନେ ପ୍ରାକ ଓ ଉତ୍ତର ଇଂଲଣ୍ଡ ଶାସନକାଳୀନ ଓଡ଼ିଆ ସାହିତ୍ୟ ସମୀକ୍ଷା ବିଶେଷ ଜ୍ଞାନ ପାଇ ପାରିବେ।	ଗାନ୍ଧୀର ବିପ୍ଳବ କାଳରେ ସାହିତ୍ୟ ସୃଷ୍ଟିରେ ଫକୀର ମୋହନ,ରାଧାନାଥ ଆଦିକ ସାହିତ୍ୟ ବିଦ୍ୟାର୍ଥୀଙ୍କୁ ନୂତନ ଦିଗଦର୍ଶନ ପ୍ରଦାନ କରୁଛି।
୫	ORC-415-ଆଧୁନିକ ଓଡ଼ିଆ ନାଟକ . ।	ଓଡ଼ିଆ ନାଟ୍ୟ ଇତିହାସର ବିହଙ୍ଗାବଲୋକନ କରାଯାଇଛି ଓ ଆଧୁନିକ ଓଡ଼ିଆ ନାଟକ ଏବଂ ଏକାଙ୍କିକାର ପାଠ୍ୟ ପୁସ୍ତକ ପଢ଼ିବାକୁ ପଡ଼ିବ।	ଓଡ଼ିଆର କଳା ଓ ସଂସ୍କୃତି ସମୟରେ ବିଦ୍ୟାର୍ଥୀ ଅବଗତ ହେବା ସହ ନିଜ ଭିତରେ ଥିବା ପ୍ରତିଭା ବିକଶିତ କରି ପାରିବେ।
୬	ORC-421- ଓଡ଼ିଆ ଉପନ୍ୟାସ .	ଉପନ୍ୟାସ ତତ୍ତ୍ୱ ଓ ଉପନ୍ୟାସ ସାହିତ୍ୟର ବିକାଶଧାରା ସମ୍ବନ୍ଧରେ ସାଧାରଣ ଓ ସମ୍ୟକ ଜ୍ଞାନ ଲାଭ କରି ହେବ ।	ଓଡ଼ିଆ ଉପନ୍ୟାସଧାରା ବିଷୟରେ ବିଦ୍ୟାର୍ଥୀମାନେ ବିଶେଷ ଜ୍ଞାନ ଲାଭ କରୁଛନ୍ତି। ନିଜେ ମଧ୍ୟ ଉପନ୍ୟାସ ରଚନା କରି ପାରୁଛନ୍ତି।
୭	ORC-422- ଓଡ଼ିଆ କ୍ଷୁଦ୍ରଗଳ୍ପ ।	କ୍ଷୁଦ୍ରଗଳ୍ପ ତତ୍ତ୍ୱ ଓ କ୍ଷୁଦ୍ରଗଳ୍ପ ସାହିତ୍ୟର ବିକାଶଧାରା ସମ୍ବନ୍ଧରେ ସାଧାରଣ ଓ ସମ୍ୟକ ଜ୍ଞାନ ଲାଭ କରି ହେବ ।	ଓଡ଼ିଆ କ୍ଷୁଦ୍ରଗଳ୍ପର ଧାରା ବିଷୟରେ ବିଦ୍ୟାର୍ଥୀମାନେ ବିଶେଷ ଜ୍ଞାନ ଲାଭ କରୁଛନ୍ତି। ନିଜେ ମଧ୍ୟ ଉପନ୍ୟାସ ରଚନା କରି ପାରୁଛନ୍ତି।
୮	ORC-423- ଆଧୁନିକ ଓଡ଼ିଆ କବିତା (ଦ୍ୱିତୀୟ ପର୍ବ) ।	ଉତ୍ତର ସ୍ୱାଧୀନ ଓଡ଼ିଆ କବିତା ସମ୍ପର୍କରେ ସମ୍ୟକ ଜ୍ଞାନ ଲାଭର ସୁଯୋଗ ରହିଛି ।	ଏହି ପତ୍ର ପାଠକାରୀ ପ୍ରାଣୀ ଓ ପାଶ୍ଚାତ୍ୟ କାବ୍ୟଧାରାର ନିକଟ ତଥା ମାତୃଭାଷା କାବ୍ୟ ଚିନ୍ତନ ସମ୍ବନ୍ଧରେ ବିଦ୍ୟାର୍ଥୀମାନେ ଜ୍ଞାନ ଲାଭ କରୁଛନ୍ତି।
୯	ORC-424- ଓଡ଼ିଆ ଗପ ସାହିତ୍ୟ(୧) ।	ପ୍ରବନ୍ଧ, ରମ୍ୟ ରଚନା ଓ ସମାଲୋଚନା ସାହିତ୍ୟ ସବିଶେଷ ପାଠ୍ୟ ରହିଛି।	ବିଦ୍ୟାର୍ଥୀ ଜ୍ଞାନ ପାଇବା ସହ ନିଜର ସୃଜନା ଶକ୍ତିକୁ ମାର୍ଜିତ କରିବାରେ ସମର୍ଥ ହେଉଛନ୍ତି।
୧୦	ORC-425- ଓଡ଼ିଆ ଗପ ସାହିତ୍ୟ(୨) ।	ଭ୍ରମଣ, ଜୀବନୀ , ଓ ଆତ୍ମଜୀବନୀ ସାହିତ୍ୟର ସବିଶେଷ ପାଠ୍ୟ ରହିଛି।	ବିଦ୍ୟାର୍ଥୀ ବିଷୟଭିତ୍ତିକ ଜ୍ଞାନ ପାଇବା ସହ ନିଜର ସୃଜନା ଶକ୍ତିକୁ ମାର୍ଜିତ କରିବାରେ ସମର୍ଥ ହେଉଛନ୍ତି।
୧୧	ORC-511- ପ୍ରାଣୀ ଓ ପାଶ୍ଚାତ୍ୟ ସାହିତ୍ୟ ତତ୍ତ୍ୱ ।	ରସ, ରୀତି, ଗୁଣ ଆଦି ଭାରତୀୟ କାବ୍ୟତତ୍ତ୍ୱ ଓ କ୍ଲାସିସିଜମ,ରୋମାଣ୍ଟିସିଜମ, ପ୍ରକୃତିବାଦ, ଅସ୍ତିତ୍ୱବାଦ, ପ୍ରତୀକବାଦ ଆଦି ପାଶ୍ଚାତ୍ୟତତ୍ତ୍ୱ ବିଷୟରେ ଜ୍ଞାନ ପ୍ରଦାନରେ ବିଶେଷ ସହାୟକ ହେବ ।	ସାହିତ୍ୟ ତତ୍ତ୍ୱ ସମ୍ବନ୍ଧୀୟ ବିଦ୍ୟା କ୍ଷାତ୍ରୀକ ଜ୍ଞାନକାଣ୍ଡକୁ ବିସ୍ତୃତ କରିବାରେ ବିଶେଷ ସହାୟକ ହୋଇଛି । ଏହା ସହିତ ଆଧୁନିକତାର ସ୍ୱରୂପ ଜାଣିବାରେ ନୂତନ ସୁଯୋଗ ପ୍ରଦାନ କରୁଛି।
୧୨	ORC-512 – ସମାଲୋଚନା ଓ ଅନୁବାଦ ସାହିତ୍ୟ ।	ଅନୁବାଦ ସାହିତ୍ୟ ବିଶ୍ୱସାହିତ୍ୟର ଗବ୍ୟାଧିକାରୀ । ଯେଉଁଭଳି ଆଧୁନିକ ସାହିତ୍ୟର ଆଲୋଚନା ପାଇଁ ସମାଲୋଚନା ତତ୍ତ୍ୱ ବିଶେଷ ସହାୟକ ଅଟେ।	ଅନୁବାଦ ତତ୍ତ୍ୱ ବିଷୟରେ ଜ୍ଞାନ ପ୍ରାପ୍ତି ବିଦ୍ୟାର୍ଥୀଙ୍କୁ ବିଷୟ ଭିନ୍ନ ଭିନ୍ନ ସାହିତ୍ୟ ସମ୍ପର୍କରେ ନୂଆ ତଥ୍ୟ ପ୍ରଦାନ କରେ। ସମାଲୋଚନା ତତ୍ତ୍ୱ ଓ ସାହିତ୍ୟ ଜ୍ଞାନ ଆଧୁନିକ ଓ ପ୍ରାଚୀନ ସାହିତ୍ୟକୁ ବିଶ୍ଳେଷଣ କରିବାରେ ସାମର୍ଥ୍ୟ ପ୍ରଦାନ କରୁଛି ।
୧୩	ORC-513- ଓଡ଼ିଆ ସମ୍ବାଦ ଓ ସାମ୍ବାଦିକତା ।	ସମ୍ବାଦପତ୍ର ଅନେକ ବିଦ୍ୟାର୍ଥୀଙ୍କୁ କର୍ମ ନିମ୍ନୁକ୍ତିରେ ସହାୟତା ପ୍ରଦାନ କରୁଛି। ଏହି ପତ୍ରଟି ସଂବାଦପତ୍ର, ଚେଲିଭିଜନ, ଇଞ୍ଚରନେଟରେ ସଂବାଦ ଲେଖନ, ସଂବାଦ ପଠନ ବିଷୟରେ ଜ୍ଞାନ ପ୍ରଦାନ କରିଥାଏ ।	ଏହି ପତ୍ରରୁ ଗାନ୍ଧିକ ଜ୍ଞାନ ପାଇ ଅନେକ କ୍ଷାତ୍ରୀ ସମ୍ବାଦପତ୍ରରେ କର୍ମନିମ୍ନୁକ୍ତି ପାଇ ଆଗ୍ରହ ପ୍ରକାଶ କରୁଛନ୍ତି।

  
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୧୪	ORC-514- ଲୋକ ସାହିତ୍ୟ ଚକ୍ର ଓ ଓଡ଼ିଶାର ଲୋକକଥା	ଲୋକ ସାହିତ୍ୟ କ୍ଷେତ୍ରରେ ଓଡ଼ିଶା ସମୃଦ୍ଧ। ତେଣୁ ଲୋକ ସାହିତ୍ୟ ବିଷୟ ଅଧ୍ୟୟନ ପାଇଁ ସମସ୍ତ ଛାତ୍ରୀ ଆଗ୍ରହ ପ୍ରକାଶ କରୁଛନ୍ତି ।	ଛାତ୍ରୀମାନେ ଏହି ବିଷୟ ପଠନ ପରେ ନିଜ ଅନୁଭବ ସଂସ୍କୃତି ଓ ସାହିତ୍ୟ ଅଧ୍ୟୟନ ପାଇଁ ବିଶେଷ ଆଗ୍ରହ ପ୍ରକାଶ କରୁଛନ୍ତି ।
୧୫	ORC-515- ଓଡ଼ିଶାର ଲୋକଗୀତ ଲୋକକଳା ଓ ଓଷା ପ୍ରଭୃତି	ଲୋକଗୀତ ଲୋକକଳା ଓ ଓଷା ପ୍ରଭୃତି ଅନୁସାରେ ସଂସ୍କୃତିର ଆୟତ୍ତ। ଏହି ସବୁ ଲୋକ ସାହିତ୍ୟର ସଂସ୍କୃତିକ ବୈଶିଷ୍ଟ୍ୟ ପରିଚିତ କରିବା ପାଇଁ ଲୋକଗୀତ ଲୋକକଳା ଓ ଓଷା ପ୍ରଭୃତିର ଅଧ୍ୟୟନ ଆବଶ୍ୟକ ।	ପୁର ପ୍ରଭାବ ଛାତ୍ରୀ ଏହି ପଠନ ପରେ ନିଜ ଲୋକସଂସ୍କୃତି ଉପରେ ଗବେଷଣା ପାଇଁ ଆଗ୍ରହ ପ୍ରକାଶ କରୁଛନ୍ତି ।
୧୬	ORC-521- ଭାଷା ଚକ୍ର ଓ ଓଡ଼ିଆ ଭାଷାର ବିକାଶଧାରା ।	ଓଡ଼ିଆ ଭାଷାର ଭାଷା ଗବେଷଣା ପାଇଁ ସାମାଜିକ । ଏଣୁ ଏହି ଭାଷାର ଉତ୍ତରାଧିକାରୀ ତଥା ଭାଷାତତ୍ତ୍ୱ ଜାଣିବା ପ୍ରତ୍ୟେକ ଓଡ଼ିଆ ବିଦ୍ୟାର୍ଥୀଙ୍କ ଏକ ଆବଶ୍ୟକତା ।	ଏହି ପଠନ ପ୍ରକାର ବିଶେଷ ଭାବରେ ଉପକୃତ ହେଉଛି । ବିଶେଷତଃ ଭାଷାତତ୍ତ୍ୱ ଜାଣି ଏକ ପୃଷ୍ଠା ବିଷୟ ଛାତ୍ରୀଙ୍କୁ ନିଜ ଭାଷାକୁ ବୁଝିବାରେ ଏହି ପ୍ରକାର ବିଶେଷ ସହାୟକ ହୋଇଛି ।
୧୭	ORC-522- ଓଡ଼ିଆ ଭାଷାର ସ୍ୱରୂପ ।	ଓଡ଼ିଆ ଭାଷାର ବ୍ୟାକରଣିକ ବୈଶିଷ୍ଟ୍ୟ ହିଁ ଏହି ଭାଷାର ସ୍ୱରୂପ । ଏହି ପ୍ରକାର ଓଡ଼ିଆ ଭାଷାର ବୈଶିଷ୍ଟ୍ୟ ପ୍ରତିପାଦିତ ହୋଇଛି ।	ଏହି ପ୍ରକାର ଓଡ଼ିଆ ଭାଷାର ବୈଶିଷ୍ଟ୍ୟ ଓ ସ୍ୱରୂପ ସମ୍ବନ୍ଧରେ ଛାତ୍ରୀଙ୍କୁ ନୂତନ ଦିଗ ଦର୍ଶନ ଦେବାରେ ସମର୍ଥ ହୋଇ ପାରିଛି ।
୧୮	ORC-523- କମ୍ପ୍ୟୁଟର ପରିଚାଳନା	ଆଧୁନିକ ଜୀବନରେ କମ୍ପ୍ୟୁଟରର ଭୂମିକା ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ। ଏହି ପ୍ରକାର ଡି.ଟି.ପି., ଇଣ୍ଟରନେଟ୍, ଏକ୍ସେଲ, ପାୱାରପଏଣ୍ଟ ଆଦି ବିଷୟ ପଢାଯାଏ ।	ଅନେକ ଛାତ୍ରୀ ଏହି ପ୍ରକାର ପ୍ରୋଗ୍ରାମ ପାଇଁ କମ୍ପ୍ୟୁଟର କ୍ଷେତ୍ରରେ କାମ ପାଇଁ ଜାଣିବା ନିର୍ବାହ କରୁଛନ୍ତି ।
୧୯	ORC-524- ଲୋକନାଟକ, ପ୍ରବାଚନ ପ୍ରଚଳନ ଓ ଲୋକ ବିଶ୍ୱାସ ।	ଲୋକସଂସ୍କୃତିର ବିଶେଷ ଅଙ୍ଗକୁ ଏଥିରେ ଅଧ୍ୟୟନ କରାଯାଏ ।	ନୂତନ ଚକ୍ରସୂଚୀ ଜାଣିବା ପରେ ନିଜ ଅନୁଭବ ପ୍ରତି ଛାତ୍ରୀମାନେ ଯଥେଷ୍ଟ ଆଗ୍ରହ ପ୍ରକାଶ କରୁଛନ୍ତି ।
୨୦	ORC-525- ପ୍ରକଳ୍ପ ପ୍ରସ୍ତୁତି	ସ୍ୱତନ୍ତ୍ର ପ୍ରକଳ୍ପ ବିଷୟରେ ପ୍ରକଳ୍ପ ପ୍ରସ୍ତୁତି ହୋଇଥାଏ ।	ସମସ୍ତ ଛାତ୍ରୀ ଉତ୍ତମୋତ୍ତମ ପ୍ରକଳ୍ପ ପ୍ରସ୍ତୁତ କରିବାରେ ସମର୍ଥ ହୋଇଛନ୍ତି । କ୍ଷେତ୍ର ପରିଦର୍ଶନ କରି ନୂତନ ତଥ୍ୟ ସଂଗ୍ରହ ପୂର୍ବକ ଗବେଷଣାଧୀନ ନିବନ୍ଧ ରଚନା କରିବାରେ ସମର୍ଥ ହୋଇଛନ୍ତି ।

  
 13.04.2024  
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# ପାଠ୍ୟ ପରିଣାମ(Course Outcomes)

## ବିଷୟ - ସ୍ନାତକ ଓଡ଼ିଆ (UG , Odia)

### ଓଡ଼ିଆ ସମ୍ମାନ-ODIA HONOURS

କ୍ରମା ନଂ	ବିଷୟବସ୍ତୁ (Name of the course/Course code)	ବିଷୟର ଆବଶ୍ୟକତା (Usefulness)	ପାଠ୍ୟ ପରିଣାମ (Outcomes)
୧	CC-1-ପ୍ରାଚୀନ ଓଡ଼ିଆ ସାହିତ୍ୟର ଇତିହାସ(ପ୍ରାଚୀନ,ସାରଳା, ପଞ୍ଚଦଶୀ )	ବିଦ୍ୟାର୍ଥୀମାନେ ଅତୀତର ଓଡ଼ିଆ ସାହିତ୍ୟ ସମ୍ବନ୍ଧୀୟ ସାଧାରଣ ଜ୍ଞାନ ପାଇ ପାରିବେ।	ଅତୀତର ମହତ୍ତ୍ୱପୂର୍ଣ୍ଣ ଆଧୁନିକ ଜ୍ଞାନକୁ ସ୍ପଷ୍ଟ କରୁଛି । ତେଣୁ ବିଦ୍ୟାର୍ଥୀମାନେ ବିଶେଷ ଉପକୃତ ହେବେ ।
୨	CC-2 - ଓଡ଼ିଆ ସାହିତ୍ୟର ଇତିହାସ(ମଧ୍ୟଯୁଗ )	ବିଦ୍ୟାର୍ଥୀମାନେ ରୀତିଯୁଗୀୟ ଓଡ଼ିଆ ସାହିତ୍ୟ ସମ୍ବନ୍ଧୀୟ ସାଧାରଣ ଜ୍ଞାନ ପାଇ ପାରିବେ।	ଅଳଙ୍କାର ଚକ୍ର ତଥା ରୀତିଯୁଗର କବି ଓ କାବ୍ୟ ଉପରେ ଜ୍ଞାନନାଭ କରି ବିଦ୍ୟାର୍ଥୀମାନେ ଉପକୃତ ହେବେ ।
୩	CC-3 - ଆଧୁନିକ ଓଡ଼ିଆ ସାହିତ୍ୟ	ଆଧୁନିକ ସାହିତ୍ୟର ପୃଷ୍ଠଭୂମି,ଇଂରାଜୀ ଶିକ୍ଷା,ନବଜାଗରଣ, ସତ୍ୟବାଦୀ, ସବୁଜ ଓ ପ୍ରଗତିବାଦୀ ସାହିତ୍ୟ।	ଭାଷାର ବିପରି କାଳରେ ସାହିତ୍ୟ ସୃଷ୍ଟିରେ ଫଳା ମୋହନ,ରାଧାନାଥ ଆଦିକ ଚୂମିକା ବିଦ୍ୟାର୍ଥୀଙ୍କୁ ଦିଗଦର୍ଶନ ପ୍ରଦାନ କରିବ।
୪	CC-4- ସ୍ୱାଧୀନତା ପରବର୍ତ୍ତୀ ଓଡ଼ିଆ ସାହିତ୍ୟ	ଉତ୍ତର ସ୍ୱାଧୀନତା କାଳର କବିତା, କଥା ସାହିତ୍ୟ,ନାଟକ, ଏକାଙ୍କିକା ଓ ଅନ୍ୟାନ୍ୟ ଗଦ୍ୟ ସାହିତ୍ୟ।	ସ୍ୱାଧୀନତା ପରବର୍ତ୍ତୀ କାଳର ସାମଗ୍ରିକ ସାହିତ୍ୟର ଇତିହାସ ବିଷୟରେ ବିଦ୍ୟାର୍ଥୀମାନେ ଅବଗତ ହୋଇ ପାରିବେ ।
୫	CC-5 - ଓଡ଼ିଆ ଭାଷା ଓ ଲିପିର ଐତିହାସିକ ବିକାଶଧାରା ।	ଓଡ଼ିଆ ଶାସ୍ତ୍ରୀୟ ଭାଷାର ମାନ୍ୟତା ପାଇ ସାରିଛି । ଏଣୁ ଏହି ଭାଷାର ଓ ଲିପିର ଉତ୍ତର,ବିକାଶ ତଥା ଭାଷାତତ୍ତ୍ୱକୁ ଜାଣିବା ପ୍ରତ୍ୟେକ ଓଡ଼ିଆ ବିଦ୍ୟାର୍ଥୀଙ୍କ ଏକ ଆବଶ୍ୟକତା ।	ଏହି ପାଠ୍ୟପତ୍ରରୁ ବିଶେଷ ଭାବରେ ଉପକୃତ ହୋଇ ପାରିବେ । ଓଡ଼ିଆ ଭାଷା ଓ ଲିପିର ଉତ୍ତର,ବିକାଶ ତଥା ଐତିହାସିକ ବିକାଶଧାରା ବିଷୟରେ ଅବଗତ ହେବେ ।
୬	CC-6- ଭାଷାର ସଂସ୍କୃତି, ସ୍ୱରୂପ ଓ ଓଡ଼ିଆ ଭାଷାର ବୈଶିଷ୍ଟ୍ୟ।	ଭାଷାତତ୍ତ୍ୱ, ଭାଷା ଉତ୍ପତ୍ତିର ମତବାଦ , ଆଞ୍ଚଳିକ ଓଡ଼ିଆ ଭାଷା ଇତ୍ୟାଦି ।	ବିଶେଷତଃ ଭାଷାତତ୍ତ୍ୱ ଉଲ୍ଲି ଏକ ସ୍ୱଳ୍ପଦର୍ଶୀ ବିଷୟ, ଛାତ୍ରୀଙ୍କୁ ନିଜ ଭାଷାକୁ ବୁଝିବାରେ ଏହି ପତ୍ରଟି ବିଶେଷ ସହାୟକ ହୋଇ ପାରିବ। ଓଡ଼ିଆ ଭାଷାର ବୈଶିଷ୍ଟ୍ୟ ଓ ସ୍ୱାତନ୍ତ୍ର୍ୟ ସମ୍ବନ୍ଧୀୟ ଜ୍ଞାନ ଛାତ୍ରୀଙ୍କୁ ନୂତନ ଦିଗ ଦର୍ଶନଦେବାରେ ସମର୍ଥ ହୋଇ ପାରିବ ।
୭	CC-7 - ଓଡ଼ିଆ ବ୍ୟବହାରିକ ବ୍ୟାକରଣ ।	ଓଡ଼ିଆ ବର୍ଣ୍ଣବିତାର,ବାକ୍ୟ,କାରକ,ବିଭକ୍ତି,ସଂକ୍ଷିପ୍ତ,ସମାସ ଇତ୍ୟାଦି ।	ବିଦ୍ୟାର୍ଥୀଙ୍କ ବ୍ୟାକରଣ ଜ୍ଞାନର ପରିସୀମା ବୃଦ୍ଧି ପାଇବ ।
୮	CC-8 -ଓଡ଼ିଆ ଲୋକସଂସ୍କୃତି ଓ ଲୋକ ସାହିତ୍ୟ ।	ଲୋକ ସାହିତ୍ୟ , ଲୋକ ସଂସ୍କୃତି, ଲୋକକଥା,ଲୋକଗୀତ,ଲୋକନାଟକ ଇତ୍ୟାଦି ।	ଛାତ୍ରୀମାନେ ଏହି ବିଷୟ ପଠନ ପରେ ନିଜ ଅଞ୍ଚଳର ସଂସ୍କୃତି ଓ ସାହିତ୍ୟ ଅଧ୍ୟୟନ ପାଇଁ ବିଶେଷ ଆଗ୍ରହ ପ୍ରକାଶ କରିବେ।
୯	CC-9 - ପ୍ରାଚୀନ ଓ ପାଶ୍ଚାତ୍ୟ ସାହିତ୍ୟ ତତ୍ତ୍ୱ ।	ଉପ,ରୀତି, ଧର୍ମ, ଦ୍ୱାନ୍ଦ୍ୱସମ୍ପର୍କ ଗୋପାୟନ ଇତ୍ୟାଦି।	ସାହିତ୍ୟ ତତ୍ତ୍ୱ ସମ୍ବନ୍ଧୀୟ ବିଦ୍ୟା ଛାତ୍ରୀଙ୍କ ଜ୍ଞାନକାଣ୍ଡକୁ ବିସ୍ତୃତ କରିବାରେ ବିଶେଷ ସହାୟକ ହୋଇଛି । ଏହା ସହିତ ଆଧୁନିକତାର ସ୍ୱରୂପ ଜାଣିବାରେ ନୂତନ ସୁଯୋଗ ପ୍ରଦାନ କରୁଛି।
୧୦	CC-10 - ଓଡ଼ିଆ କବିତା, ପ୍ରାଚୀନରୁ ଆଧୁନିକ ।	ଦିଗ୍ଧ ନାୟ କବିତାର ପାଠ୍ୟାଂଶ।	ବିଦ୍ୟାର୍ଥୀ ବିଷୟଭିତ୍ତିକ ଜ୍ଞାନ ପାଇବା ସହ ନିଜର ସର୍ବନା ଶକ୍ତିକୁ ମାଜିତ କରିବାରେ ସମର୍ଥ ହେବେ ।
୧୧	CC-11 - ଆଧୁନିକ ଓଡ଼ିଆ ନାଟକ ଓ ଏକାଙ୍କିକା।	ଓଡ଼ିଆ ନାଟ୍ୟ ଇତିହାସର ବିଭିନ୍ନ ଲୋକନ କହାଯାଇଛି ଓ ଆଧୁନିକ ଓଡ଼ିଆ ନାଟକ ଏବଂ ଏକାଙ୍କିକାର ପାଠ୍ୟ ପୁସ୍ତକ ପଢ଼ିବାକୁ ପଡ଼ିବା	ଓଡ଼ିଆର କଳା ଓ ସଂସ୍କୃତି ସମ୍ବନ୍ଧରେ ବିଦ୍ୟାର୍ଥୀ ଅବଗତ ହେବା ସହ ନିଜ ଭିତରେ ଥିବା ପ୍ରତିଭା ବିକଶିତ କରି ପାରିବେ।
୧୨	CC-12 - - ଓଡ଼ିଆ କଥା ସାହିତ୍ୟ	କଥା ସାହିତ୍ୟ ତତ୍ତ୍ୱ ଓ ଓଡ଼ିଆ କଥା ସାହିତ୍ୟର ବିକାଶଧାରା ସମ୍ବନ୍ଧରେ ପାଠ୍ୟ ପଢ଼ିବ।	ବିଦ୍ୟାର୍ଥୀଗଣ ଓଡ଼ିଆ କଥା ସାହିତ୍ୟ ସମ୍ବନ୍ଧୀୟ ଜ୍ଞାନ ଲାଭ କରି ପାରିବେ ।
୧୩	CC-13 ଓଡ଼ିଆ ଗଦ୍ୟ ସାହିତ୍ୟ ।	ପ୍ରବନ୍ଧ, ଗଦ୍ୟ ଉପନା , ସମାଲୋଚନା ସାହିତ୍ୟ , ଭ୍ରମଣ, କାବ୍ୟ , ଓ ଆତ୍ମଜୀବନୀ ସାହିତ୍ୟର ସଂକ୍ଷେପ ପାଠ୍ୟ ପଢ଼ିବ।	ବିଦ୍ୟାର୍ଥୀ ଜ୍ଞାନ ପାଇବା ସହ ନିଜର ସର୍ବନା ଶକ୍ତିକୁ ମାଜିତ କରିବାରେ ସମର୍ଥ ହୋଇ ପାରିବେ।
୧୪	CC-14 - ଓଡ଼ିଆ ଭାଷାର ବ୍ୟବହାରିକ ପ୍ରୟୋଗ	ଯୋଗାଯୋଗ, ସାମ୍ବାଦକାର, ଭାଷଣକଳା, ସମ୍ବାଦ ଉପନା , ପତ୍ର ଲିଖନ , କମ୍ପ୍ୟୁଟର ଓ ଇଣ୍ଟରନେଟର ବ୍ୟବହାର ଏବଂ ଓଡ଼ିଆ ବ୍ୟାକରଣ, ଫିଟର ଓ ସଂବାଦ ଲିଖନ ।	ଏହି ପାଠ୍ୟବସ୍ତୁ ବିଦ୍ୟାର୍ଥୀଙ୍କ ଭାଷାର ବ୍ୟବହାରିକ ଜ୍ଞାନ ବୃଦ୍ଧିରେ ସହାୟକ ହୋଇ ପାରୁଛି। ଅନେକ ଛାତ୍ରୀ ଏହି ପତ୍ରରୁ ପ୍ରେରଣା ପାଇ କମ୍ପ୍ୟୁଟର ସେକ୍ଟରରେ କାମ ପାଇ ଜୀବିକା ନିର୍ବାହ କରିବାରେ ସମର୍ଥ ହେବେ ।

13.01.2024  
Govt. Women's College  
Sambalpur

### ଶୃଙ୍ଖଳାଭିତ୍ତିକ ଇଚ୍ଛାଧୀନ ଓଡ଼ିଆ- DSE-ODIA

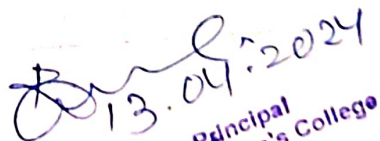
୧	DSE-COURSE-1 ଓଡ଼ିଆର ସାଂସ୍କୃତିକ ଇତିହାସ ଓ ଓଡ଼ିଆ ସାହିତ୍ୟ	ଓଡ଼ିଆର ଇତିହାସ, ସଂସ୍କୃତି ଓ ସାହିତ୍ୟ	ଏହା ଏକ ଆବଶ୍ୟକ ମୂଳକ ବିଷୟ ଅଟେ । ତେଣୁ ଏହା ଓଡ଼ିଆ ଉପରେ ସାର୍ବିକ ଜ୍ଞାନ ପ୍ରଦାନ କରିବ ।
୨	DSE-COURSE-2 - ଓଡ଼ିଆ ଚିତ୍ର ସାହିତ୍ୟ ଓ ବିଜ୍ଞାନଭିତ୍ତିକ ସାହିତ୍ୟ ।	ଚିତ୍ର ସାହିତ୍ୟ, ବିଜ୍ଞାନ ସାହିତ୍ୟ	ଏହି ପାଠ୍ୟପୁସ୍ତକ ବିଦ୍ୟାର୍ଥୀଗଣ ବିଶେଷ ଭାବରେ ଉପଯୁକ୍ତ ହୋଇପାରିବେ । ବିଶେଷତଃ ଏହି ବିଷୟମୁକ୍ତିକ ନୂତନ ହୋଇଥିବାରୁ ସର୍ବଭାରତୀୟ ସ୍ତରର ଜ୍ଞାନ ଲାଭକରିହେବ ।
୩	DSE-COURSE-3 - ଓଡ଼ିଆ ସାହିତ୍ୟ	ଓଡ଼ିଆ ଗଦ୍ୟ, ପଦ୍ୟ, ଗଳ୍ପ, ପ୍ରବନ୍ଧ, ସମାଲୋଚନା ।	ଏହି ପତ୍ରର ଓଡ଼ିଆ ବିଭିନ୍ନ ଉପରେ ଆଲୋଚନା କରିବାରେ ସମର୍ଥ ହେବ ।
୪	DSE-COURSE-4 - - ପ୍ରକଳ୍ପ ପ୍ରସ୍ତୁତି	ନିର୍ଦ୍ଦିଷ୍ଟ ବିଷୟ ଉପରେ ପ୍ରକଳ୍ପ ପ୍ରସ୍ତୁତି ହୋଇଥାଏ	ସମସ୍ତ ଛାତ୍ରୀ ଉଚ୍ଚକୋଟୀର ପ୍ରକଳ୍ପ ପ୍ରସ୍ତୁତ କରିବାରେ ସମର୍ଥ ହେବେ । କ୍ଷେତ୍ର ପରିଦର୍ଶନ କରି ନୂତନ ଗର୍ଭ୍ୟ ସଂଗ୍ରହ ପୂର୍ବକ ଗବେଷଣାଧର୍ମୀ ନିବନ୍ଧ ରଚନା କରିବାରେ ସମର୍ଥ ହୋଇପାରିବେ ।

### ଅନ୍ତର୍ବିଷୟ ଇଚ୍ଛାଧୀନ ପାଠ - GENERIC ELECTIVE- ODIA

୧	GE-CC-1- ଗଣମାଧ୍ୟମ, ବେତାର କଳା, ବିଜ୍ଞାପନ କଳା।	ବିଭିନ୍ନ ଗଣମାଧ୍ୟମ, ସମ୍ବାଦ, ସ୍ତମ୍ଭ, ଫିଚର ଲେଖନ, ପତ୍ର ଲେଖନ।	ଓଡ଼ିଆ ଭାଷା ଓ ସାହିତ୍ୟର ପ୍ରୟୋଗାତ୍ମକ ବିଷୟ ହୋଇ ଥିବାରୁ ନିୟୁତ୍ତିରେ ସହାୟକ ହେବ।
୨	GE-CC-2- ସାହିତ୍ୟ ଅଧ୍ୟୟନ ।	ଓଡ଼ିଆ ଗଦ୍ୟ, ପଦ୍ୟ, ଗଳ୍ପ, ପ୍ରବନ୍ଧ, ଉପନ୍ୟାସ ରମ୍ୟରଚନା ।	ଏହି ପତ୍ରର ଓଡ଼ିଆ ବିଭିନ୍ନ ଉପରେ ଆଲୋଚନା କରିବାରେ ସମର୍ଥ ହେବ ।
୩	GE-CC-3-ପ୍ରାଚୀନ, ମଧ୍ୟଯୁଗ ଓ ଆଧୁନିକ ଓଡ଼ିଆ ସାହିତ୍ୟ ।	ସାରଳା, ବଳରାମ, କରନାଥ ଆଦି କବିଙ୍କ ସାହିତ୍ୟ ଏବଂ ଆଉ କେତେକ ପ୍ରଖ୍ୟାତ ସଂକ୍ଷିପ୍ତ ପରିଚୟ ।	ଛାତ୍ରୀମାନେ ଆମ କବିଙ୍କ ଜ୍ଞାନନୀ ଓ କୃତି ଉପରେ ଜ୍ଞାନ ଲାଭ କରି ପାରିବେ ।
୪	GE-CC-4- କମ୍ପ୍ୟୁଟର ପ୍ରୟୋଗ ବିଜ୍ଞାନ।	ଆଧୁନିକ ଜୀବନରେ କମ୍ପ୍ୟୁଟରର ଭୂମିକା ଗୁରୁତ୍ୱପୂର୍ଣ୍ଣ। ଏହି ପତ୍ରରେ ଡି ଟି ପି , ଖର୍ଚ୍ଚ , ଇଣ୍ଟରନେଟର ବ୍ୟବହାର ଆଦି ବିଷୟ ପଢାଯାଏ।	ଅନେକ ଛାତ୍ରୀ ଏହି ପତ୍ରରୁ ପ୍ରେରଣା ପାଇ କମ୍ପ୍ୟୁଟର କ୍ଷେତ୍ରରେ ଜ୍ଞାନ ପାଇ ଜୀବିକା ନିର୍ବାହ କରିବାରେ ସମର୍ଥ ହେବେ ।

### ଦକ୍ଷତାବର୍ଦ୍ଧକ ବାଧ୍ୟତାମୂଳକ ପାଠ୍ୟକ୍ରମ- ଓଡ଼ିଆ Ability Enhancement Compulsory Course-Odia

୧	Course-1 -ଯୋଗାଯୋଗ ଅନୁବିଧି	ଯୋଗାଯୋଗ ,ସାକ୍ଷାତକାର,ଭାଷଣକଳା, ସମ୍ବାଦ ରଚନା , ଓଡ଼ିଆ ବ୍ୟାକରଣ	ଏହି ପାଠ୍ୟପୁସ୍ତକ ବିଦ୍ୟାର୍ଥୀଙ୍କ ଭାଷାର ବ୍ୟବହାରିକ ଜ୍ଞାନ ବୃଦ୍ଧିରେ ସହାୟକ ହୋଇ ପାରୁଛି।
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## PROGRAMME SPECIFIC OUTCOMES

### DEPARTMENT OF PHILOSOPHY

1. After completion of B.A Philosophy honours course, the students will be able to understand and discuss major philosophical problems in the Indian as well as Western tradition. They also will be able to assess arguments and philosophical perspective using critical reasoning and can also express complex thoughts logically and coherent.
2. After completion of the above course, the Philosophy Honours students will be able to demonstrate the ability to use the specific tools of critical thinking and logic in order to answer the following questions:

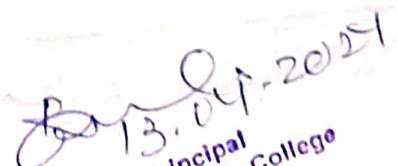
- What is the difference between truth and validity?
- How does philosophical inquiry and argument differ from scientific investigation of mathematical proofs or empirical evidence?

They can also identify premises and conclusions in both formal as well as informal proofs and demonstrate an awareness of limits of deductive from as well as linguistic ambiguities. They can argue more cogently and write more effectively and efficiently.

3. After completion of B.A Philosophy honours course, the students will be able to demonstrate understanding of major ethical theories and problems in the Western as well as Indian traditions. They also will be able to apply knowledge of ethical perspectives, theories and critical reasoning in practical life.
4. By studying classical texts and contemporary problems, B.A Philosophy honours students learn how to construct powerful arguments while pondering over some of the deepest questions in human life:
  - What makes for a meaningful life?
  - Do humans have free will?
  - What is the nature of consciousness and can it be explained?
  - Is the existence of a benevolent and all-powerful God compatible with the existence of natural and human evil?

Students in the B.A Philosophy honours course will be able to learn how to explore answers to these fundamental questions by debating and defending complex ideas and arguments and express their beliefs with clarity and precision. They will also develop sensitivity to the assumptions that underlie our factual and evaluative judgements and becomes careful and critical readers, writers, listeners and thinkers. They can also live a thoughtful and productive life.

Sri Golak Bihari Das, HOD, Deptt. Of Philosophy

  
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**CORE-I: General Philosophy:**

This course is designed to expose the students to the general philosophy. Which is explained the basic concept and problems of philosophy.

**CORE-II: Logic and Scientific Method:**

This course provides the logical principles to make proper arguments. There different scientific methods are procedures are includes in this course.

**CORE-III: Systems of Indian Philosophy-I:**

This course is concerned with the different views of traditional Indian philosophical school. It is concerned with the orthodox and heterodox school, the theory of causation, liberation, law of karma, epistemology, metaphysics, and soul theory.

**CORE-IV: Symbolic Logic:**

This course designed to provide Modern techniques which were help to proof arguments.

**CORE-V: Ethics:**

This course introduces ethical principle and concepts which will develops moral thinking. It also provides the relation of ethics with Sociology, Politics the relation of ethics with sociology, politics and Religion. It is also discuss various punishment theories to students.

**CORE-VI: History of Greek Philosophy:**

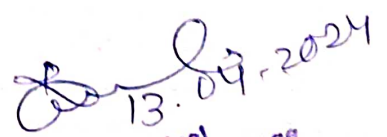
The objective of this course is to provide the origin and development of the Philosophy on the Greek sphere. The Pre-Socratic, Platonic and Aristotelian conception of epistemology, ethics, causation, theory of ideas, theory of forms and matters and etc. in Greek philosophy.

**CORE-VII: Systems of Indian Philosophy-II:**

This course introduces the Indian Philosophical theory of *Brahman*, *Atman*, *Jiva*, *Isvara*, Liberation, *Maya* & etc. this course discusses Pramanas of *Nyaya* Philosophy, the seven categories of *Vaisesika*. It also provides the concept of *Upanisadic* Philosophy.

**CORE-VIII: Contemporary Indian Philosophy:**

This course is emphasizing on the Modern Indian philosophical concepts. The advantages of this course are that which provides the concept of God, man nature of world Religion, Reality, *Maya* and etc.

  
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**CORE-IX: History of modern European Philosophy:**

This course introduces some basic concept of the Western Philosophy. This is emphasizing on the theory of substance, the source of knowledge, reconciliation between Empiricism and Rationalism, space and time and etc.

**CORE-X: Philosophy of Language:**

This objective of this course is that it helps to improve the understanding of the word meaning and sentence meaning. This course provides the concepts truth, analytic-synthetic, apriori-aposteriori difference.

**CORE-XI: Western Classic: Meditations of Rene Descartes:**

This course is completely based on Rene Descartes's six meditations. This is based on the concepts of mind and body, primary and secondary quality, existence of God, will, intellect, theory of ideas, clear and distinct perceptions and etc.

**CORE-XII: Indian Text: Isa Upanisad:**

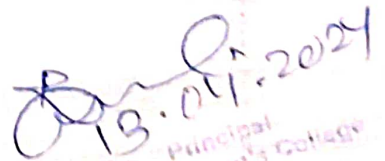
This course is based on the one of the Upanisad among the ten Upanisads. This course will help the students to know how to give a commentary on the verses Upanisad after knowing the Sankar's commentary.

**CORE-XIII: Social and Political philosophy:**

This course will enhance the knowledge of the students regarding the philosophy thought over the society and politics. This course discusses political ideals, justice, liberty and equality. It also provides the origin and development and human rights.

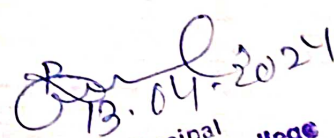
**CORE-XIV: Applied Ethics:**

The objective of this course is the application of ethical rules and principles which can apply for wellbeing of the society. This course designed for the theory of animal rights, abortion, euthanasia, ecology, doctor-patient relationship, business ethics and etc.

  
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COURSE OUTCOME - DEPARTMENT OF PI

Sl. No.	Paper Code	Course Title
1	CC-I	Mathematical Physics-I
2	CC-II	Mechanics
3	CC-III	Electricity and Magnetism
4	CC-IV	Waves & Optics
5	CC-V	Mathematical Physics-II
6	CC-VI	Thermal Physics
7	CC-VIII	Mathematical Physics-III
8	CC-VII	Analog System & Application
9	CC-IX	Elements of Modern Physics

  
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CC-X Digital System & Application

CC-XI Quantum Mechanics & Applications

CC-XII Solid State Physics

CC-XIII Electromagnetic Theory

CC-XIV Statistical Mechanics

DSE-I Classical Dynamics

DSE-II Nuclear and Particle Physics

DSE-III Nano Technology

DSE-IV PROJECT

  
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Course Outcome

To become familiar with various methods of mathematics to solve different linear differential equations and various integrals related to physics problems.

To examine the basic principle of mechanics based on Newton's laws of motion and evaluate the properties of matter.

Enable to learn the basic laws of electricity and magnetism and establish the relation between the electrostatic fields and potential as well as magnetic field. The knowledge of electricity and magnetism may be applied to explain natural physical processes and related technological advances.

Can explain Simple Harmonic Motion (SHM), Damped & Forced vibrations and resonance phenomena occurring in day to day life. Also can explain principle of superposition of waves concept of interference, diffraction & polarisation defining the nature & propagation of light.

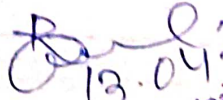
To get sufficient knowledge on Fourier Series, its application to analyse different electrical and electronic circuits. Basic idea to solve Hermite, Legendre, Bessel's differential equations and their applications in the field of Physics.

Describe basic concept of thermodynamics, analyse and assess thermodynamic applications using energy change in chemical reactions in various thermodynamic laws.

To acquire complete knowledge on complex analysis, to solve contour integrals using Cauchy's integral formula, Cauchy's residue theorem etc. To gain sufficient knowledge on various techniques on integral transforms such as Laplace transform and Fourier transforms.

The mathematical and graphical analysis of different and electronic devices will enable to choose proper devices depending on application and use in industrial and real life.

To understand the concept of atomic structure, its development, describe the series of spectra, idea about photoelectric effect, Compton effect and the knowledge on quantum theory.

  
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Design and Analyse different digital electronic circuit with various logical tools and techniques. This will enable for various operation of different devices within the realm of economic, preference & efficiency.

To understand and explain the idea of wavefunction, uncertainty relation methods to solve Schrodinger equation for simple potential.

It will enable the students to understand the physical properties of solids using classical and quantum mechanical theories.

It explains classical electrodynamics based on Maxwell's equations and help to solve problems involving calculation of fields, motion of charged particles.


Gives idea about the relation between statistical and thermodynamics. It also explain the statistical behaviour of Bosonic and Fermionic systems.

Impact knowledge and understanding of dynamics of system of particles and describe its motion using Lagrange as well as Hamiltonian formalism.

This course gives an overview of the concept of modern Nuclear & Particle Physics such as radioactivity, Nuclear fission and fusion phenomenon and different kinds of reactions among elementary particles.

To understand basic knowledge of Nano-science and Nanotechnology and acquire and understanding regarding Nano-science, its applications and related fields.

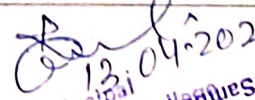
Project on a topic of interest is a constructive approach which emphasizes inquiry based active learning through collaborative group interaction, results in valuable outcomes with a meaningful search for the learners as well as for the society.

  
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## GOVT. WOMEN'S COLLEGE, SAMBALPUR

### COURSE OUTCOMES OF THE DEPARTMENT OF POLITICAL SCIENCE

SL.NO.	COURSE CODE	COURSE NAME	COURSE OUTCOME
1.	C-I	Understanding Political Theory	1.It introduces the students to the idea of political theory, it's history and approaches 2.It reconciles political theory and practices
2.	C-II	Constitutional Government and Democracy in India	1.This course acquaints students with the constitutional design of state structure and institution. 2.And their actual working overtime.
3.	GE-I	Feminism : Theory and Practice	1.It offers a gendered analysis of Indian society ,economic and politics. 2.With of view to understanding the structure of gender inequalities
4.	C-III	Political Theory : Concepts and debates	1.It helps the students familiarise with the basic normative concept of political theory. 2.And analysis and interpretation of social practices
5.	C-IV	Political process in India	1.This course maps the working of modern institutions and existence of an individual society . 2.It also familiarises students with working of Indian state.
6.	GE-II	Governance issues and challenges	1.The essence of Governance is explore through the various good governance initiative introduced in India.
7.	C-V	Introduction to comparative Govt.and politics	1.It familiarises students with basic concepts and approaches to study of comparative politics
8.	C-VI	Introduction to Public Administration	1.The course provides an introduction to the discipline of public administration with emphasis on the various classical and contemporary administrative theory.
9.	C-VII	Perspectives on Inter-National Relations	1.It equips students with basic intellectual tools for understanding International Relation.

  
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		2.It provides an overview of major political developments.
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SL.NO.	COURSE CODE	COURSE NAME	COURSE OUTCOME
10.	GE-III	Gandhi and contemporary world	1.It introduces students to continuing influence of Gandhi to the contemporary period.
11.	C-VIII	Political processes and Institution in comparative perspective	1.Students are trained in the application of comparative method to the study of politics
12.	C-IX	Public policy and administration in India	1.This paper provides interface between public policy and administration in India. 2.It translates the governing philosophy in to programmes and policies making it a part of community living.
13.	C-X	Global politics	1.The course introduces students to the meaning and nature of globalisation 2.It offers insights into contemporary global issues.
14.	GE-IV	United Nation and Global conflicts	1.It provides the detailed account of structure and political process of U.N. 2.And how it has evolved since 1945 dealing the major global conflicts.
15.	C-XI	Western Political Philosophy	1.This course goes back to Greek antiquity and familiarises students with the manner in which manner the political question were posed
16	C-XII	Indian Political Thought	1.This course provides the sense of broad streams of Indian thought and specific knowledge of individual thinkers and text.
17.	DSE-I	Introduction to Human Rights	1.The course builds an understanding of Human rights among students. 2.And specific issues in comparative perspective

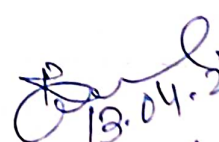
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18.	DSE-II	Development process and social movement in contemporary India	1.The course introduces students to the conditions and forms of political contestation over development paradigm
19.	C-XIII	Contemporary Political Philosophy	1.It deals with larger questions of thought and existence
20.	C-XIV	Modern Indian Political Thought	1.The course introduces a wide span of thinkers and themes that defines the modernity.

Contd.....3

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SL.NO.	COURSE CODE	COURSE NAME	COURSE OUTCOME
21.	DSE-III	India's Foreign Policy in a changing world	1.It facilitates an understanding of the changing position and development of India's role as a global player since independence
22.	DSE-IV	Women ,Power and Politics	1.This course attempts to question the complicity of social structures and relation in gender inequality 2.It focuses on feminism as an approach and outlook.

  
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GOVT. WOMEN'S (DEGREE) COLLEGE, SAMBALPUR

DEPARTMENT OF PSYCHOLOGY COURSE OUTCOME FOR THREE DEGREE PSYCHOLOGY (HONS) SYTUDENTS


<u>SL NO.</u>	<u>COURSE</u>	<u>COURSE TITLE</u>	<u>COURSE OUTCOME</u>
1.	C -1 (Theory)	Introductory Psychology	<ol style="list-style-type: none"> <li>1. Define the term psychology and demonstrate command of the basic terminology, concepts, and principles of the discipline.</li> <li>2. Gain knowledge of scientific methodology- the variety of ways in which psychological data are gathered and evaluated / interpreted.</li> <li>3. Identify and compare the major perspectives in psychology: Recognize how each approach views human thought and behavior.</li> <li>4. Understand the physiological and biochemical links of human behavior.</li> </ol>
2..	C -2 (Theory)	Basic Developmental Processes	<ol style="list-style-type: none"> <li>1. Understand the nature, types, and principle of development.</li> <li>2. Understand the processes of formation of life and development during pre- and post-natal periods.</li> <li>3. Understand about the different aspects of preparation for future life.</li> </ol>
3.	GE -1 (Theory)	Introductory Psychology	<ol style="list-style-type: none"> <li>1. Define the term psychology and demonstrate command of the basic terminology, concepts, and principles of the discipline.</li> <li>2. Gain knowledge of scientific methodology- the variety of ways in which psychological data are gathered and evaluated / interpreted.</li> <li>3. Identify and compare the major perspectives in psychology: Recognize how each approach views human thought and behavior.</li> <li>4. Understand the physiological and biochemical links of human behavior.</li> </ol>
4.	C -3 (Theory)	Basic Psychological Processes	<ol style="list-style-type: none"> <li>1. Understand the bases sensory actions and the processes of integration of sensory actions in creating and interpreting perceptual events.</li> <li>2. Gain knowledge of the important processes and principles of human learning as well as the structural functional attributes of human memory to help conserve the learning outcomes.</li> <li>3. Understand the structural and functional properties of language and the way it helps thought, communication, problem solving</li> </ol>

  
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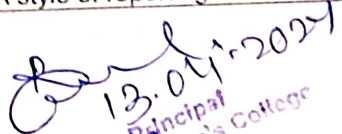
			and decision making through development of concepts, ideas, images, and so on.
5.	C -4 (Theory)	Processes Of Human Empowerment	<ol style="list-style-type: none"> <li>1. Know the structural components and functional dynamics of both intelligence and personality.</li> <li>2. Understand the significance of emotion and motivation in behavior management.</li> <li>3. Understand significant aspects of social behavior as resulting in happiness, well-being and personal growth.</li> </ol>
6.	GE -2 (Theory)	Basic Developmental Processes	<ol style="list-style-type: none"> <li>1. Understand the nature, types, and principle of development.</li> <li>2. Understand the processes of formation of life and development during pre- and post-natal periods.</li> <li>3. Understand about the different aspects of preparation for future life.</li> </ol>
7.	C -5 (Theory)	psychological statistics	<ol style="list-style-type: none"> <li>1. The nature of psychological variables and how to measure them using appropriate scale.</li> <li>2. The processes of describing and reporting statistical data.</li> <li>3. The methods of drawing inferences and conclusions for hypothesis testing by using appropriate statistical analysis.</li> </ol>
8.	C -6 (Theory)	social psychology	<ol style="list-style-type: none"> <li>1. Know the scope of studying social psychology and the methods to gather data in the social context to explain them.</li> <li>2. Understand the significance of social cognition, attitudes, stereotypes and prejudices in explaining human behavior in the social contexts.</li> <li>3. Understand the significant aspects group behavior and social influence that constitute the core of human relationships.</li> </ol>
9.	C -7 (Theory)	environmental psychology	<ol style="list-style-type: none"> <li>1. understand the interactional relationships between environment and behavior</li> <li>2. understand the problems occurring to ecology and environment at the present time</li> <li>3. understand different psychological approaches to the study of man-environment relationship.</li> </ol>
10.	GE- 3 (Theory)	Basic Psychological Processes	<ol style="list-style-type: none"> <li>1. Understand the bases sensory actions and the processes of integration of sensory actions in creating and interpreting perceptual events.</li> <li>2. Gain knowledge of the important processes and principles of human learning as well as the structural functional attributes of human memory to help conserve the learning outcomes.</li> <li>3. Understand the structural and functional properties of language and the way it helps</li> </ol>

  
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			thought, communication, problem solving and decision making through development of concepts, ideas, images, and so on.
11.	C -8 (Theory)	Psychopathology	<ol style="list-style-type: none"> <li>1. Understand the differences between normality and abnormality along with the perspectives explaining them.</li> <li>2. Know the importance and the use of assessment techniques in identifying different forms of maladaptive behavior.</li> <li>3. Learn the symptoms, causes and treatment of anxiety disorders, mood disorders and schizophrenia.</li> </ol>
12.	C -9 (Theory)	Educational Psychology	<ol style="list-style-type: none"> <li>1. Define educational psychology and give examples of the different topics educational psychologists study.</li> <li>2. Describe the developmental issues faced by school age children.</li> <li>3. Describe the challenges presented by children with ability differences.</li> <li>4. Explain the role of motivation on learning and classroom behavior.</li> <li>5. Describe classroom management techniques.</li> <li>6. Identify commonly used standardized tests, their strengths and limitations, and use in school settings.</li> </ol>
13.	C -10 (Theory)	Psychological Assessment	<ol style="list-style-type: none"> <li>1. Understand the basic facts about psychological assessment.</li> <li>2. Understand the processes of test construction and standardization.</li> <li>3. Understand about the assessment of different types of skills and abilities.</li> </ol>
14.	GE - 4 (Theory)	Processes Of Human Empowerment	<ol style="list-style-type: none"> <li>1. Know the structural components and functional dynamics of both intelligence and personality.</li> <li>2. Understand the significance of emotion and motivation in behavior management.</li> <li>3. Understand significant aspects of social behavior as resulting in happiness, well-being and personal growth.</li> </ol>
15.	C -11 (Theory)	Organizational Behavior	<ol style="list-style-type: none"> <li>1. Understand different concepts and dynamics related to organizational system, behavior, and management.</li> <li>2. Identify steps managers can take to motivate employees in the perspectives of the theories of work motivation.</li> <li>3. Understand the tricks of power and politics management in the organizations.</li> <li>4. Understand significance of human resource development, evaluation and management for the interest and benefit of the organization.</li> </ol>
16.	C -12 (Theory)	Health Psychology	<ol style="list-style-type: none"> <li>1. Know the basics of health and illness from the Bio-psychosocial perspectives.</li> <li>2. Understand the significance of behavioral and psychological correlates of health and</li> </ol>

  
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			illness. 3• Understand the significant aspects of coping and importance of health enhancing behavior.
17.	C -13 (Theory)	Counseling Psychology	1.Understand the purpose of counseling and practice of counseling ethically following different approaches. 2• Understand the basics of counseling process and use them for counseling students, families, couples, distressed, and handicaps.
18.	C -14 (Theory)	Positive Psychology	1• The goal of positive psychology and the basic behavior patterns that result in positive human growth from the point of view of leading positive psychologists.. 2• The concepts of flow and happiness and the related theories and models explaining happiness behavior and its consequences. 3• All the precursors to positive psychology from character strength and altruism to resilience.
19.	DSE – 1 (Theory)	Psychological Research And Measure	1.Understand the nature of psychological research and characteristics of scientific methods of research. 2• Know the methods of test construction and standardization 3• Know the different approaches to assessment of personality.
20.	DSE – 2 (Theory)	Psychology And Social Issues	1.Understand the nature and characteristics of different social systems and social integration in India. 2• Understand the aspects of health and wellbeing of Indian people. 3.Understand about the political behavior of Indian people.
21.	DSE – 3 (Theory)	Psychology Of Disability	1.Know about different types of disability and their prevalence in India. 2• Understand various socio-cultural models of disability 3• Gain knowledge about disability policies in India. 4. Understand about intervention and rehabilitation of disables in India.
22.	DSE – 4	Dissertation / Research Project	1.Independently prepare a research design to carry out a research project. 2• Review the related research papers to find out a research problem and relevant hypotheses 3• Understand the administration, scoring and interpretation of the appropriate instrument for measurement of desired behavior. 4• Learn the use of statistical techniques for interpretation of data. 5• Learn the APA style of reporting a

  
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			research project.
	DSE - 4/ Alternative to dissertation		1. Define criminal behavior and explain the psychosocial factors of crime and criminal behavior. 2. Discuss the social and psychological theories of crime and criminal behavior. 3. Describe how crimes are prevented and controlled by police and other agencies. 4. Describe the behavior and mental health of the victims of crimes.

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## संस्कृतविभागः

### पाठ्यक्रमस्योपयोगिताः

वेदः (Paper- Core Course(CC)-VIII, CC-IX, CC-XII, CC-XIII)

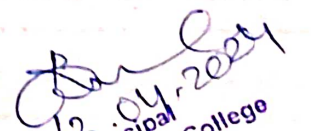
- प्राचीना संस्कृतेः परम्परायाः सुरक्षार्थं वेदस्याध्ययनम् आवश्यकम्।
- देवतानां स्वरूपज्ञानाय वेदस्याध्ययनम् आवश्यकम्।
- आत्मदर्शनार्थं वेदस्याध्ययनम् आवश्यकम्।
- यज्ञस्वरूपं तथा तस्मात् अभिष्टफललाभार्थं वेदस्याध्ययनम् आवश्यकम्।
- उपदेशप्राप्त्यर्थं वेदस्याध्ययनम् आवश्यकम् -  
सत्यं वद । धर्मं चर । स्वाध्यायान्मा प्रमदः । सत्यान्न प्रमदितव्यम् । धर्मान्न प्रमदितव्यम् ।  
। मातृदेवो भव । पितृदेवो भव । आचार्यदेवो भव । अतिथिदेवो भव । यान्यनवद्वानि  
कर्माणि । तानि सेवितव्यानि । नो इतराणि । श्रद्धया देयम् । अश्रद्धयादेयम् । श्रिया  
देयम् । ह्रिया देयम् । भिया देयम् संविदा देयम् । (तैत्तिरीयोपनिषद् - १/११)
- वेदेषु स्थितानां वैज्ञानिकं तथ्यानाम् अन्वेषणार्थं वेदस्याध्ययनम् आवश्यकम्।
- ईश्वरानुभूतिसंपादनाय वेदस्याध्ययनम् आवश्यकम्।
- ब्रह्माण्डरहस्य ज्ञानाय वेदस्याध्ययनम् आवश्यकम्।
- इहलोकस्य एवं च परलोकस्य स्वरूपज्ञानाय वेदस्याध्ययनम् आवश्यकम्।
- आयुर्वेदसम्बन्धी तत्त्वज्ञानाय वेदस्याध्ययनम् आवश्यकम्।
- भाषाविज्ञानस्य स्वरूपज्ञानाय वेदस्याध्ययनम् आवश्यकम्।

### साहित्यम्

(Paper- Core Course(CC)-I, CC-II, CC-III, CC-IV, CC-V, CC-VI,  
CC-X, CC-XI, DSE-II, GE-I, GE-II, GE-IV)

काव्यं यशसेऽर्थकृते व्यवहारविदे शिवेतरक्षतये ।

सद्यः परनिर्वृतये कान्तासमिततयोपदेशयुजे ॥

  
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- यश-आनन्द-आचार-व्यवहार-नीतिशिक्षा प्राप्यर्थ साहित्यं पठनीयम्।
- उत्तमसमाजस्य निर्माणार्थ साहित्यं पठनीयम्।
- काव्यनाटकेषु रस-रीति-अलङ्कार-छन्दः इत्यादीनां प्रयोगज्ञानार्थ साहित्यं पठनीयम्।
- नूतनं साहित्यरचनायै उत्साहवर्धनार्थ साहित्यं पठनीयम्।
- धर्मार्थकाममोक्षाख्यं पुरुषार्थचतुष्टयस्य प्राप्तिनिमित्तं साहित्यं पठनीयम्।

**व्याकरणम्(Paper- Core Course(CC)-I, CC-IV, CC-VI, CC-VII, CC-IX, CC-XII, DSE-III,GE-I )**

यद्यपि बहुनाधीषे तथापि पठ पुत्र व्याकरणम् ।

स्वजनः श्वजनः माऽभूत् सकलं शकलं सकृच्छकृत् ।।

- शुद्धोच्चारणस्य विधिज्ञानाय व्याकरणमध्ययनमावश्यकम्।
- वाक्यप्रयोगे अशुद्धिनिवारणाय व्याकरणमध्ययनमावश्यकम्।  
यतो हि- एकः शब्दः सुप्रयुक्तः सम्यग्ज्ञातः स्वर्गलोके कामधुग्भवति इति ।
- संशयरहितस्य शब्दार्थस्य यथार्थस्य स्वरूपस्य ज्ञानाय व्याकरणमध्ययनमावश्यकम्।
- सम्यकरूपेण अर्थावधारणायै व्याकरणमध्ययनमावश्यकम्।
- शब्दनिर्माणप्रक्रिया ज्ञानाय व्याकरणमध्ययनमावश्यकम्।
- कर्ता-कर्म-क्रिया-लिङ्ग-विभक्ति-वचन इत्यादीनां यथायथ प्रयोगकरणार्थ व्याकरणमध्ययनमावश्यकम्।
- वेदानां रक्षार्थं व्याकरणमध्ययनमावश्यकम्।
- वैदिकलौकिकव्याकरणस्य स्वरूपस्य ज्ञानाय व्याकरणमध्ययनमावश्यकम्।

**धर्मशास्त्रम्(Paper- DSE-I )**

- चतुराश्रमव्यवस्था ज्ञानाय धर्मशास्त्रम् अध्ययनीयम्।
- राजधर्म ज्ञानाय धर्मशास्त्रमध्ययनमावश्यकम्।
- मानवजीवने संस्काराणां महत्त्वं ज्ञानाय धर्मशास्त्रम् अध्ययनीयम्।
- पंचमहायज्ञानां स्वरूपं ज्ञानाय धर्मशास्त्रम् अध्ययनीयम्।

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दर्शनम्(Paper- DSE-IV )

- त्रिविधानां दुःखानां निवारणार्थं तथा सुविमलं चिरसुखं प्राप्यर्थं दर्शनं पठनीयम्।
- सृष्टिप्रक्रिया ज्ञानार्थं दर्शनं पठनीयम्।
- भारतीय-पाश्चात्यदर्शनानां स्वरूपज्ञानाय दर्शनं पठनीयम्।
- कैवल्यप्राप्यर्थं दर्शनं पठनीयम्।

पुराणम्(Paper- Core Course-II )

- वेदस्यार्थं निरूपणार्थं पुराणम् अध्ययनीयम्।
- इतिहासज्ञानाय पुराणम् अध्ययनीयम्।
- प्रत्येकानां युगानां समयनिर्धारणार्थं पुराणम् अध्ययनीयम्।
- अवतारवादस्य स्वरूपज्ञानाय पुराणम् अध्ययनीयम्।

रामायणम्(Paper- Core Course(CC)-II, CC-VIII )

यावत् स्थास्यन्ति गिरयः, सरितश्च महितले ।

तावत् रामायणकथा, लोकेषु प्रचरिष्यति ॥

- रामराज्यनिर्माणार्थं रामायणं पठनीयम्।
- आदर्शनैतिकशिक्षा प्राप्यर्थं रामायणं पठनीयम् यथा- रामादिवत् प्रवर्तितव्यं न रावणादिवत्।
- सच्चरित्रस्य प्रभावज्ञानार्थं रामायणं पठनीयम्।
- आदर्शराज्ञः कर्तव्यज्ञानार्थं रामायणं पठनीयम्।

महाभारतम्(Paper- Core Course-II )

धर्मं ह्यर्थं च कामे च मोक्षे च भरतर्षभ ।

  
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यदिहास्ति तदन्यत्र यन्नेहास्ति न तत् क्वचित् ।।

- प्राचीनभारतस्य इतिहासज्ञानाय महाभारतम् अध्ययनीयम् ।
- चतुर्वर्णानां स्वरूपं तथा तेषां सामाजिकी स्थितिज्ञानाय महाभारतम् अध्ययनीयम् ।
- युद्धनीतेः कौशलज्ञानाय महाभारतम् अध्ययनीयम् ।
- गुरु-शिष्यः अनयोः सम्बन्धज्ञानाय महाभारतम् अध्ययनीयम् ।
- नारीणां स्थानं तथा तासामुपरि अत्याचारस्य दुःष्परिणामज्ञानाय महाभारतम् अध्ययनीयम् ।
- अधर्मस्योपरि धर्मस्य विजयस्य प्रभावज्ञानाय महाभारतम् अध्ययनीयम् ।
- विविधानाम् आख्यानोपाख्यानानां बिषयज्ञानाय महाभारतम् अध्ययनीयम् ।

### श्रीमद्भगवत् गीता(Paper- Core Course-VIII,GE-II)


- जीवनशैली ज्ञानाय श्रीमद्भगवत् गीता अध्ययनीयम् ।
- ज्ञान-कर्म-भक्तिः इत्यनयोः स्वरूपज्ञानाय श्रीमद्भगवत् गीता अध्ययनीयम् ।
- स्वकर्तव्यज्ञानाय श्रीमद्भगवत् गीता अध्ययनीयम् ।
- समाजं सुपथगामी करणार्थं श्रीमद्भगवत् गीता अध्ययनीयम् ।

### ज्योतिषम्(Paper- Core Course-XIV, GE-III )

- ग्रहनक्षत्राणां स्थितिः तथा तेषां जीवनस्योपरि प्रभावज्ञानाय ज्योतिषम् अध्ययनीयम् ।
- तिथि-वासर-राशि आदिनां स्वरूपज्ञानाय ज्योतिषम् अध्ययनीयम् ।
- शुभाशुभफलज्ञानाय ज्योतिषम् अध्ययनीयम् ।
- खगोलसंबन्धीय तथ्यं ज्ञानाय ज्योतिषम् अध्ययनीयम् ।

### वास्तुशास्त्रम्(Paper- Core Course-XIV, GE-III )

- वास्तुपूजनस्य महत्त्वज्ञानाय वास्तुशास्त्रम् अध्ययनीयम् ।
- भवननिर्माणस्य नियमज्ञानाय वास्तुशास्त्रम् अध्ययनीयम् ।

  
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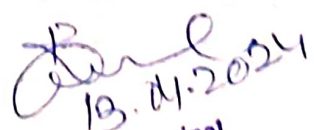
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Department of Zoology course outcome for three degree zoology honours students.

SL NO.	COURSE	COURSE TITLE	COURSE OUTCOME
1.	Core-1 (Theory)	Non-Chordates-I Protista to Pseudocoelomates	1. To know the systematic position, morphology and general characters of Non-chordates. 2. Apply knowledge to identity different non-chordates from protista to pseudocoelomates.
2.	Core-2 (Theory)	Principle of Ecology	1. To understand about the fundamental aspect of ecosystem. 2. To know the effect of different abiotic factor in living system. 3. To know the relationship between living world and environment.
3.	GE-1 (Theory)	Animal Diversity	1. To explain the ability to critically and systematically integrate knowledge and to study the situations within the field of biodiversity.
4.	Core-3 (Theory)	Non-chordates-II Coelomates	1. To understand about general characters and structure as well as the systematic position of coelomates.
5.	Core-4 (Theory)	Cell-Biology	1. To explain the basis of biological macromolecules and control mechanism of important biological process.
6.	GE-2 (Theory)	Food Nutrition and Health	1. To study basic concept of food and nutrition. 2. To demonstrate food hygiene, health and nutritional biochemistry.
7.	Core-5 (Theory)	Diversity and distribution of Chordates	1. To study the structure and development of different chordates. 2. Ability to determine systematic position of all chordates. 3. To know about the life process of chordates.
8.	Core-6 (Theory)	Physiology:- Controlling and Coordinating systems	1. The principal focus of the existent course is on the molecular aspects of the physiological and metabolic processes in animals. 2. Study will be oriented into different systems of human body.
9.	Core-7 (Theory)	Fundamental of Biochemistry	1. To understand the utilization of different macromolecules like carbohydrates, proteins and lipids. 2. It explains structure of RNA and DNA. 3. To demonstrate nomenclature, classification, cofactors, mechanism of action of different enzymes.
10.	Core-8 (Theory)	Comparative anatomy of Vertebrates	1. To know the relationship between integumentary, skeletal, circulatory and urinogenital system of all the vertebrates. 2. It gives the ancestral relationship between different Vertebrates.

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11.	Core-9 (Theory)	Physiology:- Life sustaining Systems.	1. To know about relations between animals and different systems. 2. To enable the different modes of functions of physiological systems.
12.	Core-10 (Theory)	Biochemistry of Metabolic process	1. It provides an overview of body metabolism. 2. Gives idea about different metabolic processes occurring in body at molecular level.
13.	Core-11 (Theory)	Molecular Biology	1. Gain knowledge about the mechanism and essential component required for DNA replication. 2. Know about the genomic organization of living organism.
14.	Core-12 (Theory)	Principles of Genetics	1. Understand about the mendelian principles, crossing over and chromosomal mapping. 2. To know different types of gene mutation.
15.	DSE-I (Theory)	Animal Behavior and Chrono- biology	1. It explains patterns of behavior seen in different animals. 2. Demonstrate the social and sexual behavior in animal kingdom.
16.	DSE-II (Theory)	Immunology	1. Introduction about the innate and adaptive immunity. 2. To know about the structure and function of Antigens and Immunoglobulins. 3. Fundamental knowledge on allergic reactions.
17.	Core-13 (Theory)	Developmental Biology	1. Define gametogenesis and fertilization. 2. Gives idea about early and late embryonic development. 3. Applications of biotechnology in embryonic development.
18.	Core-14 (Theory)	Evolutionary Biology	1. Gives ideas related to theories, evidences of evolution and extinction. 2. Provides concept of origin and evolution of man.
19.	DSE-III (Theory)	Fish and Fisheries	1. It explains about systematics, morphology and physiology of fishes. 2. To know different techniques for culture of fishes and aquatic animals. 3. Different method of gene transfer in fish to protect them from disease.
20.	DSE-IV (Theory)	Project Work	1. To create research oriented thought process and basis training. 2. The objective is to train students in basis of research, analysis and expression of their under topics in the form of dissertation.

  
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