

## DEPARTMENT OF PHYSICS

### Programme outcome :

1. Students will demonstrate an understanding core knowledge in Physics, including the major premises of classical mechanics and modern physics.
2. Students will design and conduct an experiment demonstrating their understanding of the scientific method and processes.
3. Students will utilize a wide range of printed and electronic resources and information technologies to support their research on physical systems and present those results in the context of the current understanding of physical phenomena.
4. Students will demonstrate an understanding of the impact of physics and science on society.

### **B. Programme specific outcome:**

- To articulate how once own developing skills in science & technology can be increasingly used in constructive, communicative service or engagement that recognizes the potential impact on local and global issues, including environmental impact and sustainability.
- They enthusiastically engage in learning what is known about our world and develop a passion for participating in pushing the bounce of our knowledge even further.

### **C. Course Outcome :**

- Core subjects like Mechanics, Optics, Electricity & Magnetism, Thermal Physics Analog & Digital Electronics, Modern Physics, Solid state, Quantum mechanics, Statistical mechanics & Electromagnetic theory: help student participate effectively in multi disciplinary and/or inter disciplinary teams.
- Mathematical methods in physics & science lab programming help the students to solve complex and diverse problems by recognizing universal physical laws relevant to the problems and applying mathematical and computational techniques.
- Using experimental computational and/or theoretical methods evaluating the limitations of their solution, can easily solve the diverse problems.
- Students should be able to critically assess the current state of knowledge and expertise develop, implement and retire a plan to acquire new knowledge for specific scientific goals and in pursuit of intellectual interests.
- Communicate effectively via oral, visual and written formats to diverse STEM audience.
- Use appropriate tools and requisite media, literacy to acquire, assess and analyze data and information from diverse source.

## DEPARTMENT OF CHEMISTRY

**Programme outcome :** This programme helps in learning the scientific skills and temper for higher research in the fields of pure chemistry and allied fields like material science, nano science and technology, environmental science etc. This course also prepares the students for jobs as analysts, chemists and technical assistants in various industries like pharmaceutical, chemical, paints, fertilizer and polymer, to name a few. As a whole this programme of B.Sc. (Chemistry honours) holds a lot of promises and prospects for the students, both in academic pursuits as well as employability.

Programme specific outcome: after the end of the course, students usually get oriented towards higher studies and careers in higher researches. As has been observed over the years, a B.Sc. in Chemistry is a very yielding and fruitful for career build-up.

<b>Course</b>	<b>Outcome</b>
Physical chemistry	: Teaching and learning of physical chemistry constitutes an important part of this course where students tend to acquire knowledge on critical aspects of the physical phenomena and laws governing them.
Organic chemistry	: This enables the students to understand the huge branch consisting of millions of compounds, their synthesis, properties and applications along with the mechanism of reactions. Organic chemistry helps them to prepare for placement in various industries also.
Inorganic chemistry	: Elements and their compounds, their structures through various types of bonding, their behaviour and applications constitute this vast branch which provides very basic and fundamental knowledge for further studies of higher and complex chemistry.
Polymer chemistry	: This is purely an applied branch which caters to the need of students for research as well as for seeking jobs. It has wide scope as the polymers constitute the mainstay of materials for human use and students are trained on structures, properties and applications of the giant molecules.
Industrial Chemistry	: By reading this course, students acquire knowledge on different aspect of industries involving chemical processes including techniques and analysis. This study is of high use for the students to do internship and jobs in different industries.
Green chemistry	: This branch is a very new and promising one, which teaches the students about innovative ideas, and practices by which chemistry can be made clean, non-hazardous and energy

conserving, thus adding much quality to do away with environmental ills. This course enables the students experiment and explore new possibilities in devising chemical reactions in green way.

**Department of Botany****B.Sc. (Honours) in Botany****Programme outcome**

On successful completion of the course, Students will have gained knowledge and understanding about plant diversity, form and function; Practical skills in the laboratory and field experiments; Hands-on experience in the practice of experimental plant science; Presentation skills (oral & writing) in the plant sciences. They will be able to appear in competitive examinations for gaining admission to premier postgraduate programmes in Botany and also be able to compete in State and National recruitment examinations like Indian Civil Services and Indian Forest service etc. The programme provides a strong foundation for the students to discover their aptitude for careers in teaching, research and for success in Programme-specific job recruitment examinations.

**Programme specific outcome**

Students will be able to identify the major groups of plants and be able to classify them within a phylogenetic framework. Students will be able to compare and contrast the characteristics of plants, algae, fungi, bacteria and viruses that differentiate them from each other and from other forms of life. They will be imparted with the skills requisite for accurate interpretation of collected information and use of taxonomical information to evaluate and formulate the systematic position of plants. Students will be equipped with the fundamental knowledge to apply the principles and tools of statistics, biochemistry, cytology and genetics etc to the analysis of relevant biological situations. Students will be able to explain the ecological interconnectedness of life on earth by tracing energy and nutrient flow through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.

<b>Course</b>	<b>Outcome</b>
<b>Core-1</b>	Students will Understand the systematics, morphology, structure and reproduction and economic importance of algae and microbes.
<b>Core-2</b>	Students will comprehend the nature of biomolecules and cell biology.
<b>GE-1</b>	Students will gain knowledge of the biodiversity of Microbes, Algae, Fungi & Archegoniates.

<b>Core-3</b>	Students will gain knowledge of the form and function of fungi and understand the principles of plant pathology.
<b>Core-4</b>	Students will have comprehensive knowledge of the archegoniates.
<b>GE-2</b>	Students will understand the physiological processes of plants.
<b>Core-5</b>	Students will understand the anatomical organisation of angiosperms .
<b>Core-6</b>	Students will understand the role of plants in human welfare, know about the utility of plant resources.
<b>Core-7</b>	Students will comprehend the principles of genetics.
<b>Core-8</b>	Students will understand the scope and principles and molecular biology.
<b>Core-9</b>	Students will have understanding of the principles of Plant ecology and phytogeography.
<b>Core-10</b>	Students will acquire the basic knowledge and skills in Plant taxonomy and systematic botany.
<b>Core-11</b>	Students will understand the Reproductive biology of angiosperms.
<b>Core-12</b>	Students will understand the metabolism, growth and developmental processes in plants.
<b>DSE-I</b>	The students will acquire knowledge of the basic principles of biostatistics and their applications in botany.
<b>DSE-2</b>	Students will become aware of the basic principles practice of Plant breeding. P.T.C.
<b>Core-13</b>	Students will become conversant with the various aspects of Plant metabolism.
<b>Core-14</b>	Students will become conversant with the principles of Plant biotechnology.
<b>DSE-3</b>	Students will gain fundamental knowledge of Industrial and environmental microbiology.
<b>DSE-4</b>	In carrying out a project work of their choice, students will learn guided research, time management, analysis and presentation of data and gain the ability to arrive at logical scientific conclusions.

## DEPARTMENT OF ZOOLOGY

### Programme Outcomes

The Zoology coursework aims to nurture knowledgeable persons in concerned subjects and create qualified and employable graduates who would be able to excel in teaching and research. Inculcation of individuals with aptitude and skill for research and also encourage individuals having innovative ideas and necessary training to initiate unique start-ups. The program will help to build young leaders who offer their service to the betterment of the community and the nation.

### Programme Specific Outcomes

- To make students understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology and analyze the relationships among animals, plants and microbes
- To enable the students to perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Molecular Biology, Biochemistry, Economic Zoology, Fish Biology, Developmental Biology, Microbiology and Immunology.
- To make students appreciate the applications of zoological sciences in Apiculture, Sericulture, Aquaculture and Pisciculture.
- To help students gain knowledge about research methodologies, effective communication and skills of problem solving methods through their projects and encourage students to pursue higher education and subsequently research.
- To encourage entrepreneurship qualities in students.

<u>COURSE NAME</u>	<u>COURSE OUTCOMES</u>
Animal Diversity :Non-Chordates	Knowledge of classification about Non-chordates and along with studies on various physiological functions and interactions of various non-chordates and with type specimens.
Animal Diversity : Chordates	Knowledge of classification about Chordates along with studies on various physiological functions and vertebrate adaptations in relation to their environments.
Ecology	Acquire deep understanding of the structure and basic components of the ecosystem and their interactions and inter-relationships to sustain life on earth. Get a deep knowledge about the basic types of biodiversity, biodiversity in India (features, structure and biodiversity of important Indian ecosystems).
Cell Biology	Structural and functional aspects of basic unit of life i.e. cell and its organelles. Acquire detailed knowledge about membrane structure, membrane pumps and membrane transport. Students learn cell cycle and its regulation in detail.

Animal Physiology : Controlling and coordinating System	Develop an understanding about neurophysiology , hormones and reproductive systems, so that they can control their stress and emotions there by diverting their energy towards positive nation building activities
Animal Physiology: Life Sustaining systems	Imparts knowledge about various metabolic and physiological mechanisms of the human body which are vital for sustenance of life.
Biochemistry : Fundamentals and Metabolic Processes	Know the structure, classification and nomenclature of macromolecules such as carbohydrates, proteins and lipids and their metabolism and biological importance. Detailed understanding of enzymes, Mechanism of enzyme action, Enzyme kinetics and Enzyme regulation.
Comparative Anatomy	Gains knowledge of functional anatomy of vertebrates from fishes to mammals with respect to evolution from simpler to complex organisms.
Molecular Biology	Learners acquire detailed information on nucleic acid structure, their topology, organization of the genome, DNA Replication, repair and recombination. Acquire detailed knowledge on transcription and RNA processing, translation-gene expression and gene regulation mechanisms.
Genetics	Acquires deep understanding of Mendelian genetics and its applications; population genetics, human genetics and microbial genetics and concepts behind genetic disorder, gene mutations.
Developmental Biology	Acquire knowledge in the embryological development of various animals like frog, chick and mammals. Acquire detailed knowledge about metamorphosis, regeneration, teratogenesis, medically assisted human reproductive technologies such as IVF and stem cell culture
Evolutionary Biology	Acquires a scientific foundation about Cosmic evolution and Origin of life. Develops a deeper understanding about the probable concepts of Molecular and Biochemical Evolution.
Animal Behavior and chronobiology	Understand Animal behavior and response of animals to different instincts Various kinds of Animal adaptation and Circadian Clock
Immunology	Provides basics knowledge about immune system and allows the student to create insight as how to improve their immune system and good health. Types of immunity, antigens-antibodies and their properties, Complement system, MHC's and immune responses, types of hypersensitivity reactions and auto immune diseases

## DEPARTMENT OF MATHEMATICS

Programme Outcome	This programme provides a foundation for pursuing research in Pure Mathematics as well as in Applied Mathematics. This also provides essential quantitative skills to those interested in related fields. With the maturing of the Indian industry, there is a large demand for people with strong analytical skills and broad based background in the mathematical sciences
Programme Specific Outcome	The students should possess the inquisitiveness, reasoning ability and the eagerness to know the fundamentals of all sciences. By virtue of the training they can become researchers, scientists in Atomic Research Centres, Software researchers, Coding Decoding analysts, Statistical Investigators and Professors etc.
<b>Course</b>	<b>Outcome</b>
Calculus	This course equips the student with necessary analytic and technical skills to handle problems of mathematical nature as well as practical problems.
Discrete Mathematics	The knowledge will help students in simple mathematical modelling. They can study advance courses in mathematical modelling, computer science, statistics, physics etc.
Real Analysis	On successful completion of this course students will be able to handle fundamental properties of real numbers that lend to the formal development of Real Analysis and understand limits and their use in sequences, series, differentiation and Integration.
Differential Equations	A student completing this course is able to solve differential equations and is able to solve model problems in nature using ordinary differential equations.
Theory of Real Functions	On the completion of the course students will have working knowledge on the concepts and theorems of elementary calculus of functions of one real variable.
Group Theory - I	A student can apply this knowledge to problems in Physics, Computer Science, Economics and Engineering.
Partial Differential Equations	After completion a student will be able to take more courses on wave equation, heat equation, gas dynamics etc. which are important in engineering and industrial applications.
Numerical Methods and Scientific Computing	Students can handle physical problems to find and approximate solution.



Ring Theory	This will help students to continue more courses in advanced Ring theory modules, Galois groups.
Multivariate Calculus	A student will be able to calculate partial derivatives, directional derivatives, extremum values and can calculate double, triple and line integrals.
Linear Algebra	It has applications in Computer Science, Finance Mathematics, Industrial Mathematics, Bio Mathematics etc.
Complex Analysis	This course is prerequisite to many other advance analysis courses.
Group Theory - II	Students learn on direct products, group actions, class equations and their applications with proof of all results.
Linear Programming	More knowledge on this topic in higher studies will help students to deal industrial model. This is also prerequisite for studying advanced courses in Non linear Programming Problems, Inventory Control Programme and Queuing Theory etc.
Probability and Statistics	The course expertises the student to the extensive role of statistics in everyday life and computation, which has made this course a core course in all branches of mathematical and engineering sciences.

### DEPARTMENT OF COMMERCE

<b>Programme outcome</b>	This program could provide well trained professionals for the industries, banking sectors, Insurance companies, financing companies. Transport Agencies, Warehousing etc to meet the well trained manpower requirements. The graduates will get hands on experience in various aspects acquiring skills for marketing manager, selling manager, over all administration abilities of the company.
<b>Programme specific outcome</b>	The students should possess the knowledge, skills and attitudes during the end of the B.com degree course. By virtue of the training they can become Manager, Accountant, Management Accountant, Cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government jobs etc.
<b>Course</b>	<b>Outcome</b>
<b>Core-1</b>	Students become conversant with accounting techniques relating to finance, fund and fund equivalents.
<b>Core-2</b>	Students derive knowledge on Mercantile and commercial law which facilitate business process.
<b>Core-3</b>	Students become proficient in company account, which help them to become CA, CMA, to regulate company's Accounts affairs.
<b>Core-4</b>	Student become legal experts like legal advisors and company secretary to handle law-affairs of the company.
<b>Core-5</b>	Student become personnel managers by acquiring knowledge on staffing like recruitment, selection, training and development.
<b>Core-6</b>	Students become tax consultant on Income Tax affairs.
<b>Core-7</b>	Students become managers as efficient business planners organisers, coordinators, leaders and motivators.
<b>Core-8</b>	Student are becoming cost accountants and management accountants in business. Also becoming business consultants.
<b>Core-9</b>	Students become experts in application of mathematical techniques in business. they apply LP, CPM, PERT, Transportation and assignment etc. in real business problems.
<b>Core-10</b>	Students become versed in digital application in business by using latest computer applications/techniques.
<b>Core-11</b>	Students become best marketer for business through knowledge of product, price, placement and promotion.

	Also this helps them in Market-Research regarding people and 4ps of marketing.
<b>Core-12</b>	Students become financial managers by virtue of their knowledge on capital structure, dividend policy, capitalisation and financial engineering.
<b>Core-13</b>	Students become auditors in business through knowledge of auditing and accounting.
<b>Core-14</b>	Students become GST-Tax consultant and facilitate the latest business process.
<b>DSE-1</b>	Students gain expertise in accounting, finance, insurance and banking for better business achievement.
<b>DSE-2</b>	Students gather knowledge of financial statement analysis and reporting and also become merchant banking advisers in the business world.
<b>DSE-3</b>	Students come out as successful tax planning and investment advisors to business houses.
<b>DSE-4</b>	Students become researchers in the business field and prepare projects for future plans of business.

# THE UNDER GRADUATE COURSE IN HISTORY

## Programme outcome-Bachelor of Arts B.A-History:

At first the Odisha Government has introduced choice based credit system (CBCS) pattern of Education uniformly for undergraduate course in all the colleges during the session from 2019-20. The semester wise pattern of examination started having 14 core papers in History and 4 DSE papers, which was divided into six semesters in 3 years undergraduate programme in respective subjects.

The introduction of uniform CBCS pattern of Education helps the students to gain more knowledge for the higher studies and actively participated in different competitive Examination.

The main focus in the History course at the UG level is on the stages the growth of Human Civilizations and the evolution of mankind social systems, cultural and scientific development etc. By reading History students should understand academic honesty a concept presented to them in all History classes. They should understand the basic skills that Historians use in research. Students should understand the basic skills that Historian use in writing and basic tools of historical analysis students should develop a secular outlook towards society and the value of diversity History inputs in students to believe in the equality of man irrespective of caste, creed, religion and colour. They should learn to believe in the ideas of religious toleration.

There is huge potentiality in future of a History student. Various options are opened to History students to choose their career, first of all, History is a subject from primary Education level to higher study so they can engage themselves in teaching profession in primary, secondary and post secondary schools and colleges. History is also helpful for those who are preparing civil services, sso etc. A History students may choose his or her career in journalism or any other editorial board. They may get job in museum archives and libraries. Besides those in the field of research and archaeology they may proceed.

Specific outcome-part-1

### **Paper-I History of India up to from ancient times to C AD 650.**

Students of History Honours can achieve knowledge regarding geological background and sources with approaches to ancient Indian history. They learn about pre to proto history of our country, emergence and growth of earlier dynasties like Maurya, Gupta the empires in post Maurya period as well as in past Gupta period.

### **History of India from 650-1550:**

History students will acquire knowledge about historiography of ancient India. The socio, political economic religious and cultural features of early medieval India are vividly depicted in this paper. The History of Delhi Sultanate is thoroughly described in this portion. Students can gather knowledge regarding Sultanate administration, socio-cultural-political situation of Delhi under Sultanate.

### **History of India C. AD 1550-1750:**

The Mughal is a topic of controversy and attraction for their purse-proud to history lovers. Students will learn from this paper how did mughal polity. economy trade, commerce, society culture became so famous in medieval period. They also learn Akbars policy of religious tolerance. They also learn the history of downfall of the Mughals the end of an era.

### **Paper-4 (History of India C.AD 1750-1950).**

To understanding Modern India this paper is essential. Students from history stream will get knowledge about the penetration, expansion and consolidation of British Rule in India. Indian awakening freedom straggle, cultural changes and socio-religious reforms movements, Revolt of 1857 are described in this paper. Students of History Honors acquire knowledge about communal politics, partition in India in between 1947-1950.

### **Paper-3 Paper-5-Rise of Modern west (Mid 15<sup>th</sup> to mid 18<sup>th</sup> Centuries).**

The students of history honors learn about same significant events of Modern west, such as Renaissance, Humanism, Reformation, Scientific Revolution, Mercantilism, American war of Independence, The Industrial Revolution. They will get knowledge from the debates which explain the transition of feudalism to Capitalism.

### **Paper-6 History of Modern Europe C.AD, 1780-1939.**

This paper focused on the great French Revolution in 1789. Students came to know about the emergence of Napoleon Bonaparte in Europe and his expansion, consolidation, downfall, Vienna Congress, Mettemich, Bismarck and his diplomacy, system of alliances, 1917 Russian Revolution, Fascism and the origin of world war 1 and 2, all these important issues are incorporated in this paper.

### **Paper-7 The Making of the Contemporary World-**

Students will gather knowledge about the impact of the second world war on the International system like cold war emergence of third world, non- alignment, and bipolar world through this paper. The system of military and economic alliances, decline of European Imperialism, decolonization has been explained in this paper.

Thus the study of History had great value and one may get good jobs in administration, Railway and banking sector etc.

2020-21



**KARANJIA AUTONOMOUS  
COLLEGE, KARANJIA**

**Course Outcome**

**Department of Odia**

## B.A(HONS) ODIA COURSE

### Semestar – I, Core-1

#### **Odia Sahitya ra Itihas (Part -1)**

##### **Programme specific outcomes of semester -1, core-1**

The objective of this paper is to help students the acquire fundamental knowledge about the history of odia literature. This paper mainly based on odia sahitya ra Itihasra bhumika , odia sahityare jugbibhajana prasanga, prak sarala juga ra sahitya, sarala juga, pancha sakha juga o sanatha sahitya ra prusthabhumi .

##### **Course outcomes of core -1**

**Co-1:** To provide knowledge about odia sahityara pramukha itihas granth (only introduction) juga bibhajana abang Namakarana

**Co-2:** To provide knowledge about odia sahitya ra prak sarala sahitya ra prusthabhumi abong bhumika, prak sarala sahityara baisisthya, charjya gitika O nath sahitya, athrai samajika, dharmbhitika abstha , sahitika o bhashatatika mullyana ityadi.

**Co-3:** To provide knowledge about sarala sahitya ra samayasima sarala sahityara prusthabhumi , Maulikata, samajika, sanskrutika o sahitika mullayana.

**Co-4:** To provide knowledge about panchasakha sahityara samayasima, panchsakha sahitya ra sratha, srusti, o baisitha.



## B.A(HONS) ODIA COURSE

### Semestar – I, Core-1

#### **Odia Sahitya ra Itihas (Part -1)**

##### **Programme specific outcomes of semester -1, core-1**

The objective of this paper is to help students the acquire fundamental knowledge about the history of odia literature. This paper mainly based on odia sahitya ra Itihasra bhumika , odia sahityare jugbibhajana prasanga, prak sarala juga ra sahitya, sarala juga, pancha sakha juga o sanatha sahitya ra prusthabhumi .

##### **Course outcomes of core -1**

**Co-1:** To provide knowledge about odia sahityara pramukha itihas granth (only introduction) juga bibhajana abang Namakarana

**Co-2:** To provide knowledge about odia sahitya ra prak sarala sahitya ra prusthabhumi abong bhumika, prak sarala sahityara baisisthya, charjya gitika O nath sahitya, athrai samajika, dharmbhitika abstha , sahitika o bhashatatika mullyana ityadi.

**Co-3:** To provide knowledge about sarala sahitya ra samayasima sarala sahityara prusthabhumi , Maulikata, samajika, sanskrutika o sahitika mullayana.

**Co-4:** To provide knowledge about panchasakha sahityara samayasima, panchsakha sahitya ra sratha, srusti, o baisitha.

## Semester -I, Core-2

### **Madhyajugia odia sahitya**

#### **Program specific outcomes of semester-1 , core-2**

To objective of this paper is to help students to acquire knowledge about madhyajugia odia sahitya , madhyajugia kabya kabita ra angika o attmika baichitra abong madhyajugia odia giti panamapara.

#### **Course outcomes of course -2**

**Co-1:** To provide knowledge about Madhyajugia odia sahityara prustabhumi(samajika, sanskrutika, rajanitika o dharmika)

**Co-2:** To provide deep knowledge madhyajugiya kabya kabita ra angika baichitra.

**Co-3:** To provide deep knowledge about madhyajugia kabya kabitara attmika bibhaba

**Co-4:** To provide knowledge about madhyajugiya odia giti kabita ra prampara o bikashadhara.

## Semester-II, Core-3

### **Adhunika odia sahitya**

#### **Programme specific outcomes of semester-2 ,Core – 3**

The objective of this paper is to help students to acquire knowledge about adhunika odia literature.

### **Course outcomes of core 3**

**Co -1:** To provide knowledge about adhunika odia sahitya ra prusthabhumi, o nabajagarana (engraji sikhyara bistara , patrapatrika prakasana , mudra jantra pratista o bhasa andolana)

**Co -2:** To provide knowledge about adhunika odia sahityara pramukha shrastha o shrusthi.

**Co -3:** To provide knowledge about adhunika odia sahitya ra satyabadi dhara , ahi juga ra samayasima prusthabhumi , odia sahitya re satyabadi andolana , satyabadi lekhaka gousthi , baisistha o bikasadhara.

**Co -4:** To provide knowledge about adhunika odia sahitya ra sabujadhara o pragatibadidhara.

### **Semester-II , Core -4**

#### **Swadhinata parabarti odia sahitya**

#### **Programme specific outcomes of semester-2 ,Core – 4**

-to objective of this paper is to helps students to acquire knowledge about swadhinata

-parabarti kabita , katha sahitya ,nataka o ekankika ebong odia gadya sahitya.

#### **Course outcome of core – 4**

**Co -1:** To provide knowledge about swadhinata parabarti odia kabya kabita.

**Co -2:** To provide knowledge about swadhinata parabarti odia katha sahitya

**Co -3:** To provide knowledge about swadhinata parabarti odia nataka o ekankika.

**Co -4:** To provide knowledge about swadhinata parabarti odia gadya sahitya ra bikashadhara.

## **Course outcomes Core -6**

Co -1: To provide knowledge about bhasara sangya , swarupa o prakaraveda

Co -2: To provide knowledge about bhasa uttpati samparkiya bivinna sidhanta

Co -3: To provide knowledge about odia bhasara andolana rupa

Co -4: To provide knowledge about odia bhasa uppare bivinna bhasa ra prabhava (drabida, astrik , jabanika o engraji)

## **Semester-III, core -7**

### **Odia byabaharika byakarana**

#### **Programme specific outcomes of semester-3 ,Core – 7**

The objective of this paper is helps students to know about linguistics and literature in the form of the correct speaking and writing

### **Course outcomes of core 7**

Co -1: To provide knowledge about odia barna bichara, bakya ra gathana riti o prakaraveda

Co -2: To provide knowledge about karaka bibhakti , krudanta o tadhita

Co -3: To provide knowledge uppasourga, sandhi o samasha

Co -4: To provide knowledge about odia sabda sambhara

## Semester IV, core 8

### **Odia loka sanskruti loka sahitya**

#### **Programme specific outcomes of semester-4 ,Core – 8**

The core objective of this paper is to help students to acquire knowledge about our culture , tradition , folk literature relation with society etc.

#### **Course outcomes of core-8**

Co -1: To provide knowledge about loka sanskruti o loka sahitya ra sangya , swarupa o prakaraveda

Co -2: To provide knowledge about odia loka gita ra swarupa , prakaraveda o bivinna diga

Co -3: To provide knowledge about odia loka kahani ra swarupa o prakaraveda

Co -4: To provide knowledge about odia loka natakara swarupa o prakaraveda (pala, daskathia, danda nacha, chhou nacha, lilla, dadhi, dalkhai, karama)

## Semester IV, core 9

### **Sahitya tatwa (prachya o paschatya)**

#### **Programme specific outcomes of semester-4 ,Core – 9**

The core objective of this paper is to help students to acquire fundamental knowledge about the definition of prachya o paschatya tatwa kabya kabita ( rasa , dhoni, riti , bakaruti, alankara, classism, romantism, pratikbada, chitra kalpa)

This paper mainly based on “ kabya kabita definition, lakhyana, prayojana, feature and type etc.

## **Course outcome of core 9**

- Co -1: To provide knowledge about rasa o dhoni  
Co -2: To provide knowledge about riti, bakruti o alankara  
Co -3: To provide knowledge about classism, Romantism  
Co -4: To provide knowledge about pratikabada, chitrakalpabada

## **Semester IV , core -10**

### **Odia kabita o prachina ru adhunika**

#### **Programme specific outcomes of semester-4 ,Core – 10**

The core objective of this paper is to help students to acquire fundamental knowledge about the relationship between prachina nd ahunika kabya kabita . feature of ancient and modern poetry of odia literature.

## **Course outcome of core 10**

- Co -1: To provide knowledge about sarala Mahabharata  
Co -2: To provide knowledge about the bhagabata (chabisa guru prasanga )- jagannath dash  
Co -3: To provide knowledge about dinakrushna dashnka rasha kollala (prathama chhanda) o upendra bhanjanka koti bramhanda sundari (prathama chhanda)  
Co -4: To provide knowledge about adhunika kabita

## Semester V core -11

### **Odia nataka o ekankika**

#### **Programme specific outcomes of semester-5 ,Core – 11**

The core objective of this paper is to help students to acquire fundamental knowledge about the drama and one act play of odia literature . this paper mainly based on “ odia nataka o ekankika

#### **Course outcomes of core 11**

Co -1: To provide knowledge about the rakta mati – kalicharan pattnayak

Co -2: To provide knowledge about “nandikeshori” manoranjan dash and “Tataniranjana” bijaya mishra

Co -3: To provide knowledge about “ kokua” bijaya kumar sathpathy , agraduta , cuttack kimba bhukha- manguli charana biswala

Co -4: To provide knowledge about ekankika “ smruti bibrata” pranabandhu kara o “ chadmabaisi” biswajeet dash

Co -5: To provide knowledge about prakalap prastuti

## Semester – V, Core-12

### **Odia katha sahitya**

#### **Programme specific outcomes of semester-5 ,Core – 12**

The core objective of this paper is to help students to acquire knowledge about the novel and short story of odia literature. This paper is mainly based on “odia katha sahitya”.

## **Course outcome of core -12**

Co -1: To provide knowledge about odia katha sahitya ra bikasha krama.

Co -2: To provide knowledge about cha mano atho guntha – Fakirmohon senapati

Co -3: To provide knowledge about danapani – gopinath mohanty kimba Nayana Tara- dayanidhi Mishra

Co -4: To provide knowledge about galp sahitya.

Co -5: To provide knowledge about prakalp prastuti

## **Semester – VI, Core – 13**

### **Odia gadya sahitya**

### **Programme specific outcomes of semester-6 ,Core – 13**

The core objective of this paper is to help students to acquire knowledge about the Biography , auto-biography , Critism, prose etc..

### **Course outcomes of Core-13**

Co -1: To provide knowledge about attmajibani bhramana kahani o samalochana tatwa (sangya, swarup, o prakarveda)

Co -2: To provide knowledge about “mo phutadanga ra kahani” – phatura nanda

Co -3: To provide knowledge about “ pachima – Africa re odia dhinki – bhubansewar behera

Co -4: To provide knowledge about odia prabhnadha

Co -5: To provide knowledge about prakalpa prastuti



## Semester – VI, Core – 14

### **Odia bhasha ra byabaharika prayoga**

#### **Programme specific outcomes of semester-6 ,Core –1 4**

The core objective of this paper is to help students to acquire knowledge about creativity , personal development, self-independence etc.. this paper mainly based on “odia bhasa ra byabharika prayoga”

#### **Course outcome of core-14**

Co -1: To provide knowledge about bhashana kala, dallagata alochana o sakhyatakar

Co -2: To provide knowledge about sambad prastuti, feature rachana o bingyapana prastuti.

Co -3: To provide knowledge about karjyalaya re odia likhana bidhi

Co -4: To provide knowledge about odia bhasa ra computerikarana, software, abong, hardware, odia funds, key-board, word processing , banan byakarana alochana prakirya , odia re internet ra byabahars, odia sawrup website.

Co -5: To provide knowledge about prakalpa prastuti

ESTD-1954

ଓଡ଼ିଆ ଭାଷା ଓ ଉଚ୍ଚାଦାନ

## Odia(M.I.L) Semester – II

### **Jogaajoga anubidhi, riti o madhyama**

#### **Programme specific outcomes of semester-2**

The core objective of this paper is to help students to acquire knowledge about Language literature & grammar. This paper mainly based on communicative

#### **Course outcome**

**Co -1:** To provide knowledge about Jogajoga ra paribhasa , anubidhi, parisara o prakarveda

**Co -2:** To provide knowledge about sakhyatkar, bhasanakalla

**Co -3:** To provide knowledge about sambad ra paribhasa, parisara o sambada prastuti

**Co -4:** To provide knowledge about odia bhasha ra barnamalla , barnasudhi ra nirakaran

ESTD-1964

ଓଡ଼ିଆ ଭାଷା ବିଭାଗ

<b>DEPARTMENT OF PHILOSOPHY</b>	
B.A	
Programme Outcome	<i>This programme helps in understanding and analysing fundamental and general problems which are connected to life like values, existence, reason, knowledge, language and mind. This helps the graduates to encompass their common senses all the time and be aware as well.</i>
Programme Specific Outcome	<i>Philosophy clears up confusions in our concepts and ways of thinking. It also deals with the verification of the foundations and presuppositions of other academic fields. Students often pursue teaching, research, writing, journalism, administrative services after graduating in philosophy.</i>
<b>COURSE</b>	<b>OUTCOME</b>
General Philosophy	<i>This course aims at drawing the basic structure of philosophy by introducing some major concepts. On completion of this course, the student should be well acquainted with the basics of philosophy.</i>
Logic & Scientific Method	<i>To enable the student to understand and use the correct principles of argument in their day to day lives and also to judge the validity of different propositions.</i>
Symbolic Logic	<i>On successful completion of this course, the student can mathematically evaluate various arguments and judge their validity and invalidity.</i>
Systems of Indian Philosophy	<i>This course introduces the rich and diverse Indian schools of Philosophy and contrasts them with recent views.</i>
Ethics	<i>To enable the student to understand the importance of morality and virtues and apply them in their personal as well as professional lives.</i>
History of Greek Philosophy	<i>On successful completion of this course, the student becomes well versed in the origin and spread of philosophy.</i>

Philosophy of Religion	<i>Philosophy and religion are often inter mingled. This course enables the student to understand and analyse the foundations and presuppositions of different religions and study the basics of religion as a whole.</i>
Philosophy of Mind	<i>This course enables the student to understand the shared problem of philosophy and science, that is, mind and theories related to it.</i>
Study of Western Classic	<i>To enable the student to have a deeper understanding of the rich western philosophy.</i>
Isa Upanishad	<i>As the philosophical essence of the Vedas, the Upanishads provide the student with a comprehensive world view.</i>
Contemporary Indian Philosophy	<i>On successful completion of this course, the student compares and contrasts recent philosophical developments in India to that of the world.</i>

## DEPARTMENT OF ECONOMICS

BA

Program Outcome	This program will enable the students to compare the national and international issues in Economics. It will enhance the quantitative aptitude, analytical thinking, logical reasoning, knowledge of environmental issues and communication skills of the students.
Program Specific Outcome	This program will help improve the students' potentials for employability. Moreover, the students are exposed to research work and can engage themselves
	in further research in Economics. By virtue of this training, they can be engaged in banking sector including RBI, can go for higher studies such as business management, masters degrees in various courses related to economics.
<u>Course</u>	<u>Outcomes</u>
Micro Economics	On successful completion of this course, the student is able to comprehend the various micro economics theories. He/she will be able to apply microeconomic concepts to real life situations. The student can formally analyze the behavior of economic agents. Reasoning coupled with the use of mathematical tools would help the students to the conceptual clarity.
Mathematical Methods for Economics	On successful completion of this course, the student would be able to transmit the basic mathematics into the study of various theories and econometrics. He/she can apply the mathematical techniques for optimization problems. The student will also be able to understand the Input- Output Models used in Macroeconomics.
Macro Economics	This course intends to enable the students to understand various alternative theories of output and employment determination in an economy in short run as well as long run. The students will be aware of the long run dynamics issues like growth and technical progress.
Statistics	Completion of this course will enable the students to apply various statistical tools for research purpose. This gives the training about how to handle raw data.

Public Economics	<p>After completing this course, the student will be able to study the various government policies from the point of view of economic efficiency and equity. The student will have idea about the nature of government intervention and its implications on issues of allocation, distribution and stabilization. This will</p> <p>also help the students to analyse the formal government taxation and expenditure, public goods, market failure and externalities.</p>
Indian Economics	<p>This course will enable the students to examine the sector-specific policies and their impact in shaping trends in key economic indicators in India. It would help them to highlight major policy debates and to evaluate the Indian empirical evidence.</p>
Development Economics	<p>This would help the students to understand the aggregate models of growth and cross national comparisons of growth experiences helping to evaluate these models. The student would be able to link the political institutions to growth and inequality by discussing the role of the state in economic development. This will also help to understand the environment development linkages.</p>
International Economics	<p>This course will give opportunity to the students to understand various theories of international trade and to develop insights into trade policy and balance of payments. The student can have a deeper understanding of international financial system and trade policies of India.</p>
Research Methodology	<p>This course is to develop a research orientation among the students and to acquaint them with fundamentals of research methods. It aims at introducing the students to the basic concepts used in research both scientific and social research methods such as sampling techniques, research designs and techniques of analysis.</p>
Money and Financial Market	<p>This course exposes students to the theories and functioning of the monetary and financial sectors of the economy. It will enable the students to acquire knowledge about interest rates, monetary management and instruments of monetary control with special reference to Indian economy.</p>

## DEPARTMENT OF SOCIOLOGY

Programme outcome	Sociology is a pure science that aims to develop a level of understanding to society and its various processes. Graduates passing out with sociology honours are empowered with the skill of social imagination with understanding to social structure & function that helps various Government and Non-Government organisation to formulate their policies and programme for the welfare of the society. Students with sociological knowledge are better observed in administration, social work, academic programmes and management programme.
Programme specific outcome	Student with sociological knowledge develop a holistic approach towards society. They may choose higher study in any specialized filed of sociology, management, social work, public policy & governance etc. By virtue of their knowledge they can become a lecturer, social worker, researcher, research assistant, human resource manager, policy advisor, social critic, administrator, political leader, social activist or a Govt. servant.
Course	Outcome
Fundamentals of sociology	<ul style="list-style-type: none"> <li>• It develops sociological aptitude, understand basic concepts of the society.</li> <li>• It helps in various processes, changes and problems of the Indian society</li> <li>• It enables students to held an impartial critical and explanatory approach towards various functioning of the Indian society.</li> </ul>
Change and development	It enables to understand the course, direction and pattern of change occuring in various sphere of society. It also helps to understand many theories and prospectives to look at social change and development.
Social thoughts	It helps students to be acquainted with major classical and modern theories on society to gain a depth of knowledge on various prospectives on social functioning.
Research Methodology	It enables to acquire research skills to understand social realities by going through many research techniques and tools.

Gender and Society	It provides a micro-scopic understanding to the age old practice of gender inequality and helps to develop a value - neutral society towards women empowerment, gender equality and genders mainstreaming.
Rural Sociology	It is an attempt to understand distinctive features of rural society with their typology, typicalities, changing feature and social problems.
Sociology of Globalisation	It helps us to understand the process of social change in the contemporary world in connection to globalisation, liberalisation and privatisation.
Marriage Family & Kinship	Students comes to know about the basic social structure with primary organisations of the society through marriage system, family and kinship pattern in the context of Indian societies.
Social Disorganisation and Deviance	It helps to understand normative pattern of the society and its deviance. It explains various causes, forms and consequences of social disorganisation.
Sociology of Education	It provides a boarder idea to relate educational system with the social system. It focuses contemporary educational practices, opportunities and challenges.
Society and environment	It helps to understand preservation and degradation of the environment. It brings awareness on eco-system and its challenges.
Sociology of health	It brings awareness among the students on social determinants to health and helps to understand social basis of health challenges and related hazards. It also focuses on various measures adopted by the government.
Population studies	It helps to understand various facets of population studies and develop idea on social demography, population structure, policies adopted and role of various agency to control population
Urban sociology	It traces out the evolution process of urban community, its problems, policy planning & measures undertaken to overcome various challenges to urban growth.
Sociology of movement	This paper helps students to understand causes and consequences of various type of movements that has occurred in culture, religion, agriculture, backward class and status of women.
Dissertation	It provides a practical experience of empirical research among students to develop Sociological aptitude in the practical living.



**DEPARTMENT OF SANSKRIT**

<p><b>Programme outcome</b></p>	<p>Sanskrit is one of the most pure, ancient and scientific language, which is the epitome of knowledge. <b>Veda, Vedanga, upanisadas</b>, that represented "<b>Vidya</b>" written in this language. '<b>Sa vidya Ja Vimuktaye</b>". Salvation or emancipation of soul is the ultimate aim of life. <b>Dharmatartha, kama</b> and <b>moksa</b> the four attainment of life achieved through this language. It is the "<b>Girbanavani</b>" and <b>idevabhasa</b>. Our ancient culture, civilisation, traditional knowledge preserved in this language. <b>Ayurveda, Dhanurvedya, Vastuvidya</b>, Astrology, Astronomy, <b>Smriti, Sruti, Dharma grantha, Ramayana, Mahabharata</b> that means all the Jnana kandas and karmakandas are preserved in this language. <b>Gita, Bhagabata, Nitisastra</b> shows path to lead healthy and successful life. <b>Yoga, Nyaya, Baisesika</b> helps human being, enlighten him for his all round development. Check in every step of life not to be corrupted with any kind of sin through Kanta sammitta upadasa.</p>
<p><b>Programme specific outcome</b></p>	<p>It helps humanity to live and let live. Journey of life becomes easier, fruitful and satisfactory by this knowledge. It differentiates the <b>Peya</b> from the <b>Sreya</b>. One can achieved everything and anything, material, spiritual including aesthetics happiness by the study of this language.</p>
<p><b>Course</b></p>	<p><b>Outcome</b></p>
<p><b>Course outcome:</b> The courses of study comprise, 14 nos. of core papers, 3 discipline specific papers and 1 project paper which includes the following subjects.</p>	
<p><b>Moral teaching and basics of Sanskrit:</b> It gives moral teachings, character building through different story of Hitopadesa and Mahabharata, Basic of language structure are essential with their grammatical application.</p>	
<p><b>Drama &amp; history of Sanskrit Literature:</b> History shows the path for future. By the study of Ramayana, Mahabharata, Purana, Drama, students will know their culture, traditions, along with their theories and practice of dramaturgy.</p>	
<p><b>An introduction to the technique of paninian grammar and Prosody:</b> Linguistics is the medium to know Linquafranca through the grammatical rules, regulation and sutras. One can understand the technical aspects of language and its arrangement by this study.</p>	
<p><b>Poetry and history of Sanskrit literature :</b> It enhances the aesthetic sense and see the beauty in nature and man.</p>	
<p>Inscription, Upanisad, Bhagavata Gita develops inquisitiveness in student, understand the purpose and goal of life, need of self realization through upanisadic mantras and dictum.</p>	

Arthasastra, Dharmasastra and Ayurveda helps the student to earn his livelihood with a healthy atmosphere with the knowledge of medicine, politics, code and conduct to lead an ideal life.

Technical literature, Karmakanda and Vastu highlight the way of worship like panchopachara, sodasaupachara dhyamantras etc. Knowledge of Vastu teaches about civil engineering, construction specification of building, house, temple etc with its right perspectives.

Veda, Vedic grammar and history of Vedic literature eulogises the vedic gods and their achievements, which is the ancient form of worship. Jyotisha, Vruksayurveda explains the astronomy astrology, medicinal plants etc. Chankyniti and Niti sataka of Bhartuhari speaks about the futility of material happiness because attachment is the main root of all sufferings.

Project paper writing injects analytical approach in students/analytical which inspire to write research paper according to the rules of research methodology

**KARANJIAAUTONOMOUS COLLEGE, KARANJIA, DIST-  
MAYURBHANJ, ODISHA**

**Department of English**

**+3 English Language and literature**

**A. Program Outcome** – Undergraduate students develop intellectual and communicative abilities through their reading of literary texts of various genres. They also develop literary sensibility in comprehending prescribed texts and draw inspiration for fostering their creativity and becoming socially responsible citizens.

**B. Program Specific Outcome** – Students acquire higher order critical thinking and communicative skills. Students appreciate different forms of literary writings like fiction, non-fiction, poetry and drama. Students also acquire tools and techniques of basic literary research.

**C. Course Outcome**

**i. Core courses and Discipline Specific Elective courses**

- British Literature – Students acquire comprehensive knowledge of British social, cultural, literary, and historical developments through a reading of representative texts by leading authors.
- American Literature - Students are acquainted with American social, cultural, literary, and historical developments through a reading of representative texts by great authors.
- World Literature – Students develop perspectives on literatures of different cultures in the colonial and post-war periods.
- Indian Writings in English – Students gain knowledge about the rise of English in India and the development of literature in that language. They also learn classical Indian texts in English translation to better appreciate our indigenous literary and theoretical traditions.
- Literary Theory, Research Methodology – Students develop insights into modern literary and critical theories and learn the basics of research in general and research in literature in particular.
- Project, Presentation and Viva – Students demonstrate their research orientation in writing a project, making a presentation and responding to questions on their dissertation topic.

**ii. Skill Enhancement Course – I**

Special Course – Learners acquire adequate communicative competence in the use of English language in both Multilingual and Native contexts. They exhibit self-confidence in managing real-life situations requiring the use of spoken and written English.

**iii. Generic Elective**

Academic Writing and Composition – Students develop knowledge and understanding of writing skills required for academic and research purposes.

Gender and Human Rights – Students become familiar with issues of inequality and oppression based on caste, race and gender.



**Department of Political science**  
**Karanjia Autonomous College, Karanjia,**  
**Dist.- Mayurbhanj, Odisha**

**Programme outcome**

Objective of reading political science as Hons/Core subject at the under graduate/+3 level are.

- 1) This syllabus aims to introduce the core elements of the subject of state, Govt. and its functioning, so that students are able to compete in various competitive examination as conducted by both Govt. and Non Govt. organisation.
- 2) Our mission is to train the future citizens in the contents of launching of the Odisha Higher Education Project for excellence and equity (OHEPEE).
- 3) By this study, analytical thinking & logical reasoning are to be developed.

**Programme**

Objective of reading political science as Hons/Core subject at the under graduate/+3 level are.

**Course Outcome**

**Core-1:-**

This course introduces the students to the idea of core concepts used in political science.

**Core-2:**

This course introduces the students to the constitutional design and practice followed by our Govt. at Union, State & local levels.

**Core-3:**

This course helps the students to familiarise with the students with normative ideas.

**Core-4**

This course helps the students to familiarise with the working of the Indian constitution.

**Core-5:**

The purpose of this course is to introduce the comparative framework of analysis of the government institution in different countries both in liberal and totalitarian system.

**Core-6:**

The course provides an introduction to the meaning, scope & practice of public administration.

**Core-7:**

This course seeks to equip the students with the basic knowledge of international relations, the aim of this course is to make students aware of the specific problems of international relations.

**Core-8:**

In this course, students will be trained in the democratic procedure of the post-colonial societies.

**Core-9:**

This paper seeks to provide an introduction to the interface between public policy and public extension at the field level.

**Core-10:**

This course introduces students to the contemporary global issues like nuclear proliferation, ecological problems, international terrorism, human security etc.

**Core-11:**

This course helps the students to know Greek thinking and related political question of that period.

**Core-12:**

This course introduces the specific elements of Indian political thought.

**Core-13:**

Students will be informed about the question of contemporary political thinking and its socio-economic implications.

**Core-14:**

This course introduces the themes of modern Indian political thought to the students.

**DSE-1:**

This course attempts to build an understanding of human rights through the study of specific issues in a comparative perspective.

**DSE-2:**

The objective of this course is to teach the students about the continuity and change of India's foreign policy.

**DSE-3:**

This paper focuses the attention of the students about the women, power and polity. Special attention is paid to feminism as an approach and practice.

**DSE -4:**

This paper helps the students to learn how to develop scientific research designs & analysis of data in the study of constitution, governance, public policy and developmental issues.



**Prof. Subash Ch. Jena**

Associate Professor & Head  
Department of Political Science  
Karanja Autonomous College, Karanja  
Karanja



## **DEPARTMENT OF COMPUTER SCIENCE**

**KARANJIA AUTONOMOUS COLLEGE, KARANJIA, DIST.- MAYURBHANJ**

### **Programme Outcomes:**

- The students will acquire advanced conceptual knowledge and comprehensive understanding of mathematics, science and Computer software to the solution of real world problems.
- They will be able to design solution for complex real world problems and design system, components or process that meet the specified needs with appropriate consideration for the public health and safety and the cultural, social and environmental consideration.
- They will be equipped with enough technical and analytical skilled to pursue their further studies and develop continuous through their professional career.
- They will understand the impact of the professional computational solutions in social and environmental contexts and demonstrate the knowledge of and need for sustainable development.
- The students will function effectively as an individual; and as a member or leader in diverse teams, and in multidisciplinary settings.
- The students will demonstrate the knowledge and understanding of the computer science and management principles and apply these to one's own work as a member and leader in a team, to manage projects and in multidisciplinary environments.
- They will be able to recognize the need for and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.
- They will acquire the sense of academic and social ethics.

*Arachanda*

## **Programme Specific Outcomes**

After being graduated in Computer Science (Hons.), the students will be able to :

- Apply standard Software Engineering practices and strategies in real-time software project development using open-source programme environment or commercial environment to deliver quality product for the organization success.
- Design and develop computer programmes/ computer based systems in the means related to the algorithms networking, web design, cloud computing and data analysis of varying complexity.
- Acquire with the contemporary trends in industrial research settings and thereby innovate novel solutions for existing problems.
- Understands, analyse and develop computer programmes for efficient design of computer based system varying complexity.

## **Course Outcomes**

After being studied various courses in Computer Science (Hons) the students will be employed in various sectors of software like DTP operator, Database administrator, Database designer, software engineer , web designer etc.

*Anupama Reeharfa*  
H.O.D.

*Department of Computer Science  
Karanjia Autonomous College,  
Karanjia*



# KARANJIA AUTONOMOS COLLEGE, KARANJIA

## DEPARTMENT OF EDUCATION

### PROGRAMME OUTCOMES (POs), PROGRAMME SPECIFIC OUTCOMES (PSOs) AND COURSE OUTCOMES (Cos)-NEP2020

#### **Name of the Programmer: B.A. Education**

#### **1.1. Programs outcomes (pos) relating to Bachelor in Arts (General)**

The students who complete three years of full-time study of an undergraduate programmer of study in Education will be awarded a Bachelor's Degree. Some of the desirable learning outcomes which a student should be able to demonstrate on completion of Bachelor's Degree will include the following: + 3 1st Year arts

- Display core values such as dedication, loyalty, respect, integrity, cooperation appreciation of other differences hold on culture religious background, faith morals and ethical awareness, and harmony with each other.
- Pursuance to higher education and job opportunities in different disciplines.
- .Demonstrate communication skills, critical thinking, reflective thinking ,self directed learning and rational thinking .
- Demonstrate research related skills and innovation in every field.
- Demonstrate disciplinary knowledge , abstract reasoning and problem- solving ability in various competitive examinations
- Demonstrate professional and technical knowledge of the subjects and the branches in every field.
- Demonstrate leadership qualities, personal competence and digital and literacy.

#### **1.2. Program me specific outcomes (pesos) relating to UG programs in education**

Programs specific outcomes are expected learning outcomes that will help the teacher to cheek for understanding and learning achievement by our student both in and outside the class.

#### **The programs specific outcome in UG program in education include the following:-**

- .Demonstrate core values such as commitment to the profession ,passionate about the profession, avoid biasness among student and colleagues, treat students and teachers

with response, dignity and love ,irrespective of the gender, cultural and religious differences, display honest behavior, ethical integrity by maintaining ethical standards.

- Demonstrate professional/ technical knowledge, skills ,and attitudes, physical, social and intellectual development.
- Demonstrate knowledge and understanding of the strategies, methods and techniques of teaching to meet the varied needs of students.
- Demonstrate professional competencies and practice that are required to select and use relevant teaching strategies to develop skills, problem solving ,reflective and creative thinking .
- Demonstrate professional competencies and practice that are required to manage classroom activities, select right method of teaching, effective use of verbal and non-verbal communication ,increase student ,supports student participation in classroom activities.
- Demonstrate knowledge required to designing the curriculum, lesson plans, teaching practice, to implement such plans with the help of support system such ICT to improve teaching –learning process.
- .demonstrate professional competencies and practice that required developing select and use diagnostic, formative and summative assessment strategies to assess student learning and their understanding of the subject/course, provide appropriate feedback about their achievement relating to their learning goals.
- Demonstrate action research and innovation in any selected area.
- .Inculcate vocational and entrepreneur ship skills.
- Develop knowledge related to gender and education ,which is a time relevant concept.

## **Core Paper I**

### **EDUCATIONAL PHILOSOPHY**

#### **Learning Objectives:**

On completion of this course, the learners shall be able to:

- State and analyze the meaning of education and form own concept one education
- Explain philosophy as the foundation of education
- Analyze aims of education
- Describe the essence of different formal philosophies and draw educational implications
- Compare and contrast Indian and western philosophies of education

## **Core Paper II**

### **EDUCATIONAL PSYCHOLOGY**

#### **Learning Objectives:**

On completion of this course, the learner shall be able to:

- Explain the concept to educational psychology and its relationship with psychology.
- Understand different methods of educational psychology.
- Describe the theoretical perspectives of educational psychology.
- Explain the concepts of growth and development to child and adolescence ,and underlined general principles of growth and development.
- Describe briefly the periods and the typical characteristics of growth and development during childhood and adolescence.
- Specify the context sand factors influencing development.
- Explain the theory of cognitive development and its educational implications.
- State the different forms and characteristics of individual differences and the ways of meeting the classroom issues arising out of the differences.
- Identifythelearningneedsduringthedifferentstagesofdevelopmentandadoptappropria te strategies in and out of school to meet the learning needs.

## **Core Paper III**

### **EDUCATIONAL SOCIOLOGY**

#### **Learning Objectives:**

On completion of this course, the students shall:

- State their relationship between education and society.
- Understand the meaning of Educational Sociology and function of education as a social system.
- State different agencies of education and their functions.
- Justify the importance of education for social change.
- Describe their ole of education in modernization and globalization.
- Describe the function of education to ensure equality and equity.

## **Core Paper IV**

### **CHANGING PEDAGOGICAL PERSPECTIVE**

## **Learning Objectives:**

On completion of this course ,the students shall:

- Explain the concept to pedagogy
- Differentiate pedagogy from other all concepts
- Explain different teaching task with example
- Establish relationship between teaching and learning
- List out different approaches and methods of teaching
- Prepare a lesson plan following different designs

### **Core Paper V**

#### **EDUCATIONAL ASSESSMENT AND EVALUATION**

## **Learning Objectives:**

On completion of this course ,the students will.

- State the nature ,purpose and types of educational assessment and evaluation.
- Develop and use different types of tools and techniques for continuous and comprehensive assessment of learning in the school situation.
- Explain the importance of assessment for learning and its processes for enhancing the quality of learning and teaching.
- Describe the characteristic of a good test.
- Analyze the trends and discussing learning and learner assessment.
- Analyze and interpret results of the assessment using standard score.
- Illustrate the principles of test construction in education.

### **Core Paper VI**

#### **EDUCATIONAL RESEARCH**

## **Learning Objectives:**

On completion no this course ,the student will:

- Describe nature ,scope and limitation of educational research.

- Understand different types and methods of educational research.
- Explain sources from where knowledge could be obtained.
- Describe the process of research in education.
- Analyze research design in education.
- Illustrate procedure of collecting and analyzing data.
- Prepare the research report.

### **Core Paper-VII**

#### **STATISTICS IN EDUCATION**

##### **Learning Objectives:**

On completion of this course ,the students will:

- Describe the importance of statistics in education.
- Organize and represent educational data in tabular and graphical form.
- Compute and use various statistical measures of average ,variation and bi-vitiate distribution to in analysis and interpretation of educational data.
- Describe the concept and importance of normal probability curve and interpret test scores in using normal probability curve.

### **Core paper VIII**

#### **UNDERSTAND THE DIVERGENCE OF DATA FROM HISTORY OF EDUCATION IN INDIA**

##### **Learning Objectives:**

On completion of this course ,the student will

- Understand the development of education in India during ancient period, medieval period and pre-independence period.
- Describe the development of education in India during post-independence period.
- Describe major recommendations of different policies and committee reports on education in India.

### **Core Paper IX**

#### **CURRICULUM DEVELOPMENT**

## **Learning Objectives:**

On completion of this course, the students will

- Differentiate curriculum from courses of study, text book.
- Analyze bases and sources of curriculum.
- Describe different types of curriculum.
- Critically examine National curriculum frame work-2000 and 2005.
- Describe process of curriculum development and differentiate different models of curriculum development.
- Evaluate curriculum using different valuation models.

## **Core Paper X**

### **GUIDANCE AND COUNSELLING**

## **Learning Objectives:**

On completion of this course ,the students will

- Need ,principles and bases of guidance.
- Use various tools and technique so guidance inappropriate contexts.
- Explain the role of school in organizing different guidance programmers.
- State the concept ,scope and type of counseling.
- Narrate the process ,tools and techniques of counseling.
- Explain the qualities and role of a counselor.
- Describe different programmers for with differently able children.
- Explain the role of teacher and headmaster in organizing different guidance programmers.

## **Core Paper-XI**

### **DEVELOPMENT OF EDUCATION IN ODISHA**

## **Learning Objectives**

On completion of the course the students will:

- Grasp the structure of educational system of Odisha
- State the function institutions/units at the state district level
- Appreciate the contribution of Utkalmani Gopabandhu Das
- Practice so Indian Education narrate the Learning Objective and implementation process of the major education
- Schemes of central as well as state government being implemented in the state of Odisha
- Explain the role of various state and district institutions in education
- Analyze the scenario of higher and technical education of Odisha
- Establish linkage between higher education and development of the state

### **Core Paper-XII**

#### **ICT IN EDUCATION**

#### **Learning Objectives**

On completion of this course, the student will:

- Explain the concept, nature and scope of ICT in education
- Explore ICT resources for Teaching and learning.
- Differentiate between Web1.0 and Web2.0
- Describe the importance of free and open sources of software in education
- Demonstrate the use of various application software in education.
- Develop the ability to use various tools connect the world
- Explain the content by using various subject tools.
- Explore tools and techniques of ICT for evaluation.

### **Core Paper XIII**

#### **CONTEMPORARY TRENDS AND ISSUES IN INDIAN EDUCATION**

#### **Learning Objectives**

On completion of this course the students will:

- Understand the importance of pre-school and elementary school education. Analyze various problems and issues for ensuring quality education.
- 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 emerging concerns in Indian education.

### **Core Paper XIV**

#### **EDUCATIONAL MANAGEMENT AND LEADERSHIP**

#### **Learning Objectives**

On completion of this course ,the students will

- Describe the concept ,types and importance of educational management.
- Spell out the structure of educational management at different levels- from national to institution level
- Describe different aspects and importance of educational management.
- Describe the concept ,theories and style of leadership in educational management.
- Analyze the concept ,principle and structures of total quality management approach in education.



**POS, PSO & COS**  
**DEPARTMENT OF GEOLOGY**  
**KARANJIA AUTONOMOUS COLLEGE KARANJIA**

**Program Outcomes (POs) for B.Sc. Geology Program**

- After completion of Geology program students will be able to get exposed to strong theoretical and practical background in fundamental concepts.
- To get insights of multiple important technical areas of Geology. To apply contextual knowledge and modern tools of Geological research for solving problems such as mining, environmental, space, etc.
- To make them able to express ideas persuasively in written and oral form to develop their leadership qualities.
- To demonstrate professional and ethical attitude with enormous responsibility to serve the society.

**Program Specific Outcomes (PSOs)**

- Comprehending fundamental concepts in Geology to meet the emerging trends.
- Can identify different rocks, minerals, fossil along with can search for hydrocarbon such as oil and gas.
- Procuring hands-on real-time experience in industries.

**Course Outcomes (Cos)**

- The said courses will make the students to understand about crystal chemistry and the structure of earth. They shall have the knowledge of the mechanism of formation of continents, sea and mountain ranges.
- The above knowledge will enable the students to study the history of deformation, deformational aspects and their relevance in rocks to quantify generation of force pictures.
- The students will be equipped with the knowledge of identifying different crystals and minerals with their possible varieties and their occurrence in different types of rocks as a combining unit.
- In this unit, the students are introduced with the concepts of statistics and satellite data. While statistics is a part and parcel of every science subject, remote sensing has become very helpful for resolving so many geological problems.
- The students shall have the potential to know the mechanism of formation of different types of igneous rocks. They will be able to classify the igneous rocks basing on various parameters.
- The students shall have the potential to know the mechanism of formation of different types of sedimentary and metamorphic rocks. They will be able to classify the said rocks basing on various parameters.

- In this unit, the students are introduced with the concepts of statistics and use of computers. Statistics and computers are part and parcel of every science subject and it helps solving so many geological problems,
- This knowledge will enable the students to find out the age of various strata and also to interpret the palae environment.
- This knowledge will enable the students to find out the age, litho logical constitution and economic importance of various strata.
- After the study, the student will have the knowledge of exploring them by sampling and geophysical methods.
- After the study, the student will have the knowledge of various uses of minerals, exploiting them by many means such as beneficiation etc.
- This knowledge will enable the students to use groundwater properly and will have the knowledge to install various types of wells. They shall have the knowledge to utilize the geological skills in the construction of various engineering structures.
- The students can have the knowledge of various environmental laws related to mining of minerals. This knowledge will enable then to deal with issues relating to environmental pollution.



**P.G. Department of English**  
**Karanjia Autonomous College, Karanjia, Dist- Mayurbhanj**  
**Programme outcome & Course outcome**

**1<sup>ST</sup> SEMESTER**

Course Code	Course Title
ENG-401	Poetry-I
ENG-403	Drama-I
ENG-405	Non-Fictional Prose-I
ENG-407	Novel-I
ENG-409	Criticism-I

**2<sup>ND</sup> SEMESTER**


Course Code	Course Title
ENG-402	Poetry-II
ENG-404	Drama-II
ENG-406	Non-Fictional Prose-II
ENG-408	Novel-II
ENG-410	Criticism-II

**3<sup>RD</sup> SEMESTER**

CourseCode	Course Title
ENG-501	Culture and Criticism-I
ENG-503	Culture and Criticism-II
ENG-505	Postcolonial Literature
ENG-507	Elective (Paper-I)
ENG-509	Research Methodology

**4<sup>TH</sup> SEMESTER**

CourseCode	Course Title
ENG-502	Introduction of World literature (Fiction)
ENG-504	Introduction of World literature (Drama)
ENG-506	Elective (Paper I)
ENG-508	Elective (Paper II)
ENG-510	Project Work

  
 HOD, P.G. Department of English  
 Karanjia Autonomous college, Karanjia

**P.G. Department of History**  
**Karanjia Autonomous College, Karanjia, Dist- Mayurbhanj**  
**Programme outcome & Course outcome**

**1<sup>ST</sup> SEMESTER**

Hist-C- 101	Ancient Culture and Civilisation
Hist-C- 102	Medieval Societies
Hist-C- 103	World History (1500-1900 A.D.)
Hist-C- 104	Twentieth Century World I (1900-1945 A.D)
Hist-C- 105	Twentieth Century World II (1945-2000 A.D.)

**2<sup>ND</sup> SEMESTER**

Hist-C- 106	Historical Theories and Methods
Hist-C- 107	History of India, 6th century BC to 1206 A.D.
Hist-C- 108	History of India, 1206- 1750 A.D.
Hist-C- 109	History of India, (1750- 1947 AD)
Hist-C- 110	History of Odisha (Earlier times to 1950 AD)

**3<sup>RD</sup> SEMESTER**

Hist-C- 111	Indian Historiography
Hist-C- 112	History of Science and Technology in India
Hist-C- 113	Cultural History of Odisha
Hist-C- 114	History of India (Early times to 1200 AD) (Special Paper Group-A)
	Constitutional and Administrative History of India(1757-1947AD) (Special Paper Group-B)
	History of Odisha (Early Times to 1118 AD) (Special Paper Group-C)
Hist-C- 115	Political and Administrative History of India (Early Times to 1200 AD-II) (Special Paper Group-A)
	National Movement in India (Special Paper Group-B)
	History of Odisha (1118-1500 AD) (Special Paper Group-C)

**4<sup>TH</sup> SEMESTER**

Hist-C- 116	Research Methodology
Hist-C- 117	Indian Freedom struggle
Hist-C- 118	Cultural History of Odisha-II
Hist-C- 119	Literature, Art and Architecture (Early Times to 1200 AD)-I
	ECONOMIC HISTORY OF INDIA (1757-1947)
	Art and Architecture of Odisha
Hist-C- 120	History of India: Religion, Literature, Art and Architecture (Early Times to 1200 AD)-II
	INDIA SINCE INDEPENDENCE (1947- 2000 A.D.)
	History of Odisha from 16th- 19th Century

  
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