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PROGRAMME OUTCOME/ PROGRAMME SEPCIFIC OUTCOME/ COURSE OUTCOME

ACADEMIC SESSION-2016-17

The institution offers undergraduate programmes in Humanities and Science to enable students with knowledge and tools needed for personal and career success and to contribute for the advancement of society. It is essential on the part of the students to explore the appropriate programmes what interest them and then tailor their degree to their interest. The right choice of programme will help them to gain adequate knowledge in the area of their interest and equip them to find endless opportunities for a bright career. It is, therefore necessary for the students and their parents to understand the programme outcome, the programme specific outcome, course outcome and the support system providing facilities that the institution provides to the students enrolling here for their higher studies. An overview of the programme outcome, programme specific outcome and course outcome of this institution has given for the comprehension of the stakeholders pertaining to basic knowledge and goals about the programmes conducted here.

ASh



DEPARTMENT OF PHYSICS

Programme Outcome:

- Students will possess basic subject knowledge required to pursue post graduation in Physics, professional and applied courses in various universities.
- Students will be able to apply the basic principles of physics to the events occurring around us and also in the world.
- Students will be able to find out or analyze scientific temper.
- Students will be eligible for career opportunity in industries.
- To develop capacity of critical reasoning and ability for logical thinking

Programme Specific Outcome:

- Get acquainted with techniques which are use for industries.
- Gain conceptual knowledge of entrepreneurship through co-curricular activities.
- Learn organizational skills and working in group.
- Develop competence to use computer.

Course Outcome:

- To learn basic knowledge on Mechanics and Properties of Matter
- To learn basic principles and application of physics such as atomic model, atomic spectrum, application of electromagnetic waves, electromagnetic spectrum etc.
- To gain knowledge on heat and thermodynamics, electricity and magnetism.
- To learn Computational Physics, Electronics, Nuclear Physics, Quantum Mechanics, Classical Mechanics, Elements of Material Science, Thermodynamic etc.

Post



DEPARTMENT OF CHEMISTRY

Programme Outcome:

- Students will possess basic subject knowledge required to pursue post graduation in Chemistry, professional and applied courses in various universities.
- Provide the students a comprehensive underrating about fundamental of chemistry covering all the principles and perspectives.
- Develop knowledge in Organic Chemistry, Inorganic Chemistry, Physical Chemistry and Analytical Chemistry to expose the students to diversified aspects of chemistry where the students experienced a broader outlook of this subject.
- Acquire knowledge and competence to succeed in various competitive examinations.

Programme Specific Outcome:

- The students will understand the existence of matter in the universe as solids, liquids and gases which are composed of molecules, atoms and sub-atomic particles.
- To learn Inorganic salt mixtures and organic compounds both qualitatively and quantitatively using classical methods of analysis.
- Grasp the mechanism of different types of reactions both organic and inorganic.
- Learn to synthesize the chemical compounds by maneuvering the addition of reagents under optimum reaction conditions.

Course Outcome:

- Develop ability to employ critical thinking and efficient problem-solving skill in four basic areas of chemistry (analytical, inorganic, organic and physical).
- Ability to conduct experiments.
- Ability to analyze data and interpret results while observing responsible and ethical scientific conduct.

98h



DEPARTMENT OF MATHEMATICS

Programme Outcome:

- Students will possess basic subject knowledge required to pursue post graduation in Mathematics, professional and applied courses in various universities.
- Students will be aware of and able to develop solution oriented approach towards various social and environmental issues.
- Scientific temper will be developed in students.
- Students will acquire basic practical skills and technical knowledge along with domain knowledge.
- Students will become employable.
- They will be eligible for career opportunities in industry.

Programme Specific Outcome:

- A student will be able to recall basic facts about mathematics and able to display knowledge of conventions such as notations, terminology.
- Student is equipped with mathematical modeling problem solving skills, creative talent and power of communication necessary for various kind of employment.
- Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.

Course Outcome:

- To learn the divisibility of integers and congruence relations.
- To learn operation on polynomials and roots of polynomials.
- To learn basic properties of real numbers and its subsets which is backbone of real analysis.
- To study function in detail which is a fundamental structure in all sciences, and to be able to check continuity of a function.
- Interdisciplinary approach is developed.
- Students learn how to apply mathematical concepts to practical and real life problems.

981



DEPARTMENT OF BOTANY

Programme Outcome:

- Students will possess basic subject knowledge required to pursue post graduation in Botany, professional and applied courses in various universities.
- Understand the basics of plant science and fundamental process of plants and their exploration.
- Understand the environmental issues and their impact on society.
- Develop creative skills.
- Strengthen effective communication, competence and knowledge for various career opportunities.

Programme Specific Outcome:

- Understand the basic concept of Cell Biology, Micro Biology, Genetics and Plant Breeding.
- Understand the economic importance of plants and their uses for social welfare.
- Identify the plants on the basis of taxonomic character.
- Learn the classification of Algae, Fungi, Bryophyta, Pteridophyta and Gymnosperms.
- Understand application of molecular biology and bio technology with respect to plants.
- Understand morphology, anatomy and physiology of plants.
- Understand the basic concepts of ecology.

Course Outcome:

- Knowledge to explain cellular and biochemical processes involved in pathogenesis.
- Identify micro organisms and their roles in various environment.
- Describe the cultural use of microorganism in food production, medicine, fuel production and waste treatment.
- Explain the process of inheritance.
- Describe how RNA, DNA and proteins are synthesized.
- Apply problem solving scheme to genetic problems and issues.
- Identify plants species important in local ecosystem.
- Identify global environmental problems.

QSR



DEPARTMENT OF ZOOLOGY

Programme Outcome:

- Students will possess basic subject knowledge required to pursue post graduation in Zoology, professional and applied courses in various universities.
- Develop deeper understanding of zoological concept of organism level.
- Knowledge to describe the taxonomy and systematic study of animals both invertebrates and vertebrates, interpret general evolutionary relationship among and between different animal groups.
- Learn about the applied zoology such as sericulture, apiculture, fisheries and vermiculture etc. and used the techniques to develop as entrepreneur.

Programme Specific Outcome:

- Understand the basic concept of cell biology, invertebrates, vertebrates, genetics, taxonomy, physiology, biochemistry, evolution, ecology and applied zoology.
- Application of different methods used in Vermiculture, Sericulture and Aquaculture etc.
- A wider understating of animal diversity, knowledge of scientific classification and evolutionary relationships of major group of animals.
- Characterization of biological e.g. terrestrial, fresh water, marine.

Course Outcome:

- Knowledge on cell biology and genetics.
- Knowledge of chordata.
- Animal distribution, Evolution and Developmental Biology.
- Physiology and biochemistry.
- Ecology, Microbiology, Animal behavior, Pollution.

981



Programme Outcome:

- Students after passing the under graduate programme are equipped with educate knowledge in Odia Language and Literature to peruse post graduation id Odia Language and Literature and competence to succeed in various competitive examinations.
- Acquire knowledge about the chronological development of Odia Literature such as Ancient Age of Sarala, Panchasakhas, Mediaval Age, Age of Radhanath, Age of Satyabadi, Sabuja Yuga, Pragatibadi Yuga and Post Colonial Age.

Programme Specific Outcome:

- ଓଡ଼ିଆ ଭାଷା ସୃଷ୍ଟିକାଳରୁ ଆଧୁନିକ ଭାଷାରେ ରୁପାନ୍ତରିତ ହେବା ପର୍ଯ୍ୟନ୍ତ ଓଡ଼ିଆ ଭାଷାର ଉନ୍ନେଷ ବିକାଶ, ଓଡ଼ିଆ ଶବ୍ଦ ଭଣ୍ଡାର ଓ ବ୍ୟାକରଣ ଆଦି ବିଷୟରେ ପିଲାମାନଙ୍କୁ ଅବଗତ କରାଇବା
- ଓଡ଼ିଆ ସାହିତ୍ୟର ଆଦି ସ୍ଵରୂପ ଯଥା ଲୋକ ସାହିତ୍ୟ, ଚର୍ଯ୍ୟା ଗୀତିକା, ନାଥ ସାହିତ୍ୟ, ଶୈବ ସାହିତ୍ୟ ଠାରୁ ଆରମ୍ଭ କରି ଶାରଳାଙ୍କ ପର୍ଯ୍ୟନ୍ତ ପାଠ୍ୟ ବିଷୟରେ ପିଲାଙ୍କୁ ଅବଗତ କରାଇବା
- ପଞ୍ଚ ସଖା, ରୀତି, ଗୀତି ଓ ଆଧୁନିକ ଯୁଗର ବିଶେଷତ୍ଵ ବିଷୟରେ ସବିଶେଷ ଆଲୋଚନା କରିବା
- ଆଧୁନିକ ଯୁଗ ଓ ସ୍ଵାଧୀନତା ପରବର୍ତ୍ତୀ ଓଡ଼ିଆ ସାହିତ୍ୟର ବିଭିନ୍ନ ବିଭାଗ ଯଥା କବିତା, ପ୍ରବନ୍ଧ, ଗଳ୍ପ, ଉପନ୍ୟାସ, ନାଟକ, ସମାଲୋଚନା, ଜୀବନୀ-ଆତ୍ମଜୀବନୀ, ଭ୍ରମଣ କାହାଣୀ ଓ ଶିଶୁ ସାହିତ୍ୟ ବିଷୟରେ ଅବଗତ କରାଇବା

Course Outcome:

- ଓଡ଼ିଆ ସାହିତ୍ୟର ସମ୍ପୂର୍ଣ୍ଣ ଇତିହାସ ସାରଳା ଯୁଗ ଠାରୁ ଆରମ୍ଭ କରି ଆଧୁନିକ ଯୁଗ ପର୍ଯ୍ୟନ୍ତ ବିଭିନ୍ନ ସ୍ରଷ୍ଟା ଓ ତାଙ୍କର ସୃଷ୍ଟିକୁ ଅଙ୍ଗିକ ଓ ଆତ୍ମିୟ ଦୃଷ୍ଟି କୋଣରୁ ବ୍ୟାଖ୍ୟା କରାଯିବ।
- ଆଧୁନିକ ଯୁଗର ପୃଷ୍ଠଭୂମି ବା ନବଜାଗରଣ ଠାରୁ ଆରମ୍ଭ କରି ସତ୍ୟବାଦୀ, ସବୁଜ ଓ ପ୍ରଗତିବାଦୀ ଯୁଗ ପର୍ଯ୍ୟନ୍ତ ସାହିତ୍ୟିକ, ତାଙ୍କ କୃତି ଓ ଯୁଗ ପ୍ରବାହକୁ ବିସ୍ତୃତ ଭାବେ ଆଲୋଚନା କରାଇବା
- ସ୍ଵାଧୀନତା ପରବର୍ତ୍ତୀ ଓଡ଼ିଆ ସାହିତ୍ୟର ସମସ୍ତ ଦିଗକୁ ଆଲୋଚନା କରିବା ସଙ୍ଗେ ସଙ୍ଗେ ଯୁଗ ପ୍ରବାହରେ ବିଶ୍ଵଯୁଦ୍ଧ ପରବର୍ତ୍ତୀ ଓଡ଼ିଆ ସାହିତ୍ୟ କାହିଁକି ଭିନ୍ନ ପିଲାଙ୍କୁ ଅବଗତ କରାଇବା
- ଓଡ଼ିଆ ଭାଷା ଓ ଲିପିର ଉତ୍ତର ବିକାଶ ତଥା ଚର୍ଯ୍ୟା ଗୀତିକା, ସାରଳା ସାହିତ୍ୟ, ସାସ୍ତ୍ରୀୟ, ଆଞ୍ଚଳିକ ଓ କଥିତ ଭାଷାର କ୍ରମ ବିବର୍ତ୍ତନ ବାଦ ବିଷୟରେ ଆଲୋଚନା କରାଇବା
- ଓଡ଼ିଆ ଲୋକସାହିତ୍ୟ, ଲୋକସଂସ୍କୃତି, ପ୍ରାଚ୍ୟ, ପାଶ୍ଚାତ୍ୟ ସାହିତ୍ୟ ତତ୍ତ୍ଵ, ପ୍ରବନ୍ଧ, ସମାଲୋଚନା ଓ ଅନୁବାଦ ସାହିତ୍ୟ ସଂପର୍କରେ ଅବଗତ କରାଇବା
- ପାଠ୍ୟ ବିଷୟ ଅନ୍ତର୍ଗତ ପ୍ରାଚୀନରୁ ଆଧୁନିକ ଭିନ୍ନ ଭିନ୍ନ ସମୟର କବି ଓ ତାଙ୍କ କବିତା ବିଷୟରେ ପିଲାମାନଙ୍କୁ ଅବଗତ କରାଇବା
- ଓଡ଼ିଆ ନାଟ୍ୟ ସାହିତ୍ୟ ଓ କଥା ସାହିତ୍ୟ ଉପରେ ପାଠ୍ୟ କ୍ରମରେ ଥିବା ଭିନ୍ନ ଭିନ୍ନ ନାଟକ ଉପନ୍ୟାସ, ପ୍ରବନ୍ଧ, ଆତ୍ମଜୀବନୀ, ଭ୍ରମଣ କାହାଣୀ ଉପରେ ପିଲାଙ୍କୁ ଅବଗତ କରାଇବା
- ଯୋଗାଯୋଗ ମୂଳକ ମାତୃଭାଷା, ସମ୍ବାଦ ପ୍ରସ୍ତୁତି, କାର୍ଯ୍ୟାଳୟରେ ଲିଖନ ପଦ୍ଧତି, ଭାଷଣ, ସମ୍ବାଦପତ୍ର ଗଣ ମାଧ୍ୟମ ଆଦି ବିଷୟରେ ପିଲାମାନଙ୍କୁ ଅବଗତ କରାଇବା

୫୫୮



DEPARTMENT OF ECONOMICS

Programme Outcome:

- Students will possess basic subject knowledge required to pursue post graduation in Economics, professional and applied courses in various universities.
- Students will get any understanding of basic economic theory.
- Introduced to real world economic issues and problems facing the country and world.
- Gain understanding of proper policy response to economics problems.
- Prepare for career in academia, law, management, journalism and many other fields.

Programme Specific Outcome:

- Develop the ability to explain core economic terms, concepts and theories.
- Understand demand theory and estimation, production and cost theory.
- Ability to analyze market structure, govt. regulation of business.
- Knowledge on capital budgeting, inflation theory, unemployment, the determination of interest rates and international economics.

Course Outcome:

- Achieve ability to analyze the performance and functioning of government, markets and institutions in the context of social and economic problems.
- To think critically about economics models, evaluating their assumptions and implications.
- To understand International Economics, Indian Economics, Public Finance, Public Economics, Micro Economics, Macro Economics, Developmental Economics, Statistical methods for Economics.

986



DEPARTMENT OF POLITICAL SCIENCE

Programme Outcome:

- Students will possess basic subject knowledge required to pursue post graduation in Political Science, professional and applied courses in various universities.
- Provide learners with knowledge and skills needed to prepare for a career as teacher, administrator, political scientist, politician, lawyer.
- Provides ground knowledge about the basics of political education and constitution.
- Trains about the politics and govt. at local, state, national and global levels.

Programme Specific Outcome:

- Familiarity with different approaches to study politics and an ability to apply these to contemporary collective and political behavior.
- Ability to formulate and construct logical argument about political phenomenon and ability to evaluate these through empirical and theoretical methods.
- Understand how political institution emerge, how they operate, how they interact with their external environment, and how they safe individuals and collective behavior.

Course Outcome:

- Knowledge on the basics of functioning of Indian political system-functioning of the constitution of India, the power and functions of different organs and institution of the govt. such as the executive, the legislative and the judiciary.
- Challenges to Indian polity like communalism, casteism and regionalism.
- Study of major political system.
- Ability to introduce fundamental approaches to the study of political theory from traditional to modern.
- Study of Western Political Thought and Indian Political Thought.
- Study of feminism and global politics.

4/2/21



DEPARTMENT OF HISTORY

Programme Outcome:

- Students will possess basic subject knowledge required to pursue post graduation in History, professional and applied courses in various universities.
- Sound knowledge of different historical periods.
- Knowledge of development of historical perspective acquiring proper knowledge of historical events-Ancient, Medieval and European History.
- Learn about the past that provides them the skills to understand the present.

Programme Specific Outcome:

- Understand the basic themes, concepts, chronology and the scope of Indian History.
- Acquaint with range of issues related to Indian History that span distinct eras.
- Understand the history of countries other than India with comparative approach.
- Critically recognize the social, economic and cultural aspects of History.

Course Outcome:

- To understand the nature of sources and interpretations of the ancient Indian History.
- To get knowledge about social formations and cultural patterns of the ancient world other than India.
- To understand the political formation of the Mauryan Empire and Post Mauryan Politics, the Gupta period and the Post Gupta period.
- To understand the source of medieval history and concepts like feudalism.
- To understand European History.
- To understand political structure of Delhi Sultanate and Mughal Historiography.
- To understand Indian History during British Colonial Power and Freedom Movement.

481



DEPARTMENT OF ANTHROPOLOGY

Programme Outcome:

- After passing out students can opt for post graduate in Anthropology, Sociology, Archeology and Cultural Studies.
- Students will be acquainted with core components of Anthropology as a discipline.
- Receive detail knowledge about physical, cultural as well as Social Anthropology.
- Demonstrate an understanding of anthropological perspective build upon a holistic understanding of cultural and biological systems.
- Develop the ability to critical evaluate anthropological data

Programme Specific Outcome:

- Provides skills in anthropological ideas and issues.
- Develop competence in the field will empower them with skills for further engagement with variety subjects related to cultural, social or physical anthropology.
- Knowledge on the origin and development of human societies and cultures.

Course Outcome:

- Develop students with the knowledge of the uniqueness of anthropology: Holism, Bio-cultural Approach, Empiricism or field work.
- Knowledge of comparative method and concept of cross-cultural comparison, Concept of Culture, Relativism, Time-Space dimension in Anthropology, traditional focus on pre-literate societies.
- Acquire ideas on major branches of Anthropology, their scopes and inter relatedness like Social-Cultural Anthropology, Physical/ Biological Anthropology, Archeological Anthropology and Linguistic Anthropology.


Coordinator, IQAC


Principal
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