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LILONG CHAJING (IMPHAL-WEST), MANIPUR
(Permanently affiliated to M.U. Included in 2(f) &12(b) of U.G.C.Act.)

1) Manipuri

Program Outcomes (POs):

- To enable to understand the growth & development of Manipuri language, literature and cultural practices.
- Understand literary genre, developing writing skills for academic purposes.
- Understand the cultural, historical and linguistics dimensions of Manipuri society.
- Analyze Manipuri literature, performing arts, culture and folklore from traditional and Contemporary perspective.

Course Outcomes (COs):

- CO1. To understand the basic concept and subject of Manipuri & its origin.
- CO2. To understand Old and Modern Manipuri poetry. Analyze Manipuri literary genres e.g poetry, prose, drama, novel, short story, epic, travelogue etc.in its cultural and Historical context.
- CO3. Develop language skill in reading, writing, speaking and understanding Manipuri Language.
- CO4. To understand Old and Medieval Manipuri literature.
- CO5. To understand literature of mainstream Indian literature and western literature and the importance of critical analysis.
- CO6. Analyse Manipuri Culture and Manipuri Folklore.
- CO7. To learn morally and legally right for doing research works.

2) English

Program Outcomes (POs):

- PO1: Comprehend the history of English literature, including its various literary genres, movements, and critical theories.

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- PO2: Examine literary texts through cultural, historical, and linguistic lenses.
- PO3: Imbibe the importance of the English language and its usage in fostering a strong command of the language.
- PO4: Enhance advanced writing abilities for academic, creative, and professional contexts.
- PO5: Instill the idea of cultural integration, its uniqueness and significance.

Course Outcomes (COs):

- CO1: Analysis and interpretation of literary texts using close reading and literary analysis techniques.
- CO2: Assess the historical, cultural, and social contexts surrounding literary works.
- CO3: Understand the processes involved in translation in mass media, especially news reporting, advertising, short stories, poems and songs.
- CO4: Aware of the various forms of poetry, fiction and drama and the wide range of possible genres within them.
- CO5: Utilize library and electronic resources to conduct research supporting literary arguments.
- CO6: Effectively present ideas and interpretations through oral presentations and discussions.
- CO7: Exhibit proficiency in literary criticism by engaging with a variety of critical perspectives and theories, such as feminist, postcolonial, and psychoanalytical approaches, to enhance understanding and interpretation of texts.
- CO8: Allow the students to situate literature and its major movements and figures through the selected literary texts across genres.
- CO9: Examine the evolution of various theoretical and aesthetic concepts and draw connections between the set of interrelated concepts and approaches.

3) Anthropology

Program Outcomes (POs):

An Anthropology program equips a comprehensive understanding of human cultures and biological diversity, alongside strong research and analytical skills. It develops effective communication abilities and ethical awareness, enabling them to address global and local issues. These competencies prepare them for careers in fields such as academia, cultural management, public policy, and international development.

Course Outcomes (COs):

- CO1. Comprehensive Knowledge of Human Societies: Students will understand the diverse cultural, social, and biological aspects of human societies across different times and places.

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- CO2. Research Proficiency: Graduates will be proficient in qualitative and quantitative research methods, including ethnographic fieldwork, archaeological excavation, and data analysis.
- CO3. Critical Analysis: Students will develop strong critical thinking skills, enabling them to analyse and interpret complex anthropological data and theories.
- CO4. Effective Communication: Graduates will be able to clearly and effectively communicate anthropological concepts and findings, both in writing and verbally.
- CO5. Ethical Competence: Students will gain a solid foundation in the ethical considerations of conducting anthropological research and applying anthropological knowledge.
- CO6. Global and Interdisciplinary Perspective: Graduates will appreciate the interconnectedness of global societies and integrate insights from related disciplines to provide holistic analyses of human behavior and culture.

4) Home Science

Program outcomes (POS):

Understanding the basic principle of food and nutrition in relation to health, Food Science, Foods Groups, Nutrition through different Stages of Life Cycle, Malnutrition and Nutrition Programs, Introduction to Life Skill, Introduction to Textile fibers, Techniques of fabric construction, Principles and Objectives of Home Science Extension Education, Surface Ornamentation in Fashion Designing, Personal Finance and Consumer Studies, Saving and Investment Consumers Protection and Consumer Education, Human Development and its Stages, and Family Relationship, Interior design household.

Course Outcomes (Cos):

- CO1: Elaborate the basic factor of nutrition and meal planning for different stages of life and dietary needs.
- CO2: To understand the various concepts, principles, importance of Human Resource Management for an organization. To design a Human Resource Plan for an organization and construct its Selection Process. : Gain knowledge in textile production and processing.
- CO3: Acquire dexterity in fashion illustration, designing and garment construction. Develop skills in textiles and fashion and Understand advance textile fabrication techniques.
- CO4: Describe the personal financial planning process. Recognize strategies in household budgeting, financial management and resource management.
- CO5: Assess the scope and concepts of human communication. And Design the elements and process of effective communication in family to promote healthy family relationship,

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- **CO6:** Understand the concepts of public health nutrition. Explain the importance of food and nutrition in public health. Assess nutritional status of community and develop necessary intervention.

5) Zoology

Program Outcomes (POs):

Understand the diversity, structure, and function of animal life forms including invertebrates and vertebrates. Apply principles of genetics, physiology, ecology, embryology, anatomy, histology, applied zoology, biochemistry, bioinstrumentation, and evolutionary biology to study animals. Develop skills in fieldwork, laboratory techniques, and data analysis for zoological research.

Course Outcomes (COs):

- CO1: Describe the diversity and classification of animals based on evolutionary relationship, molecular taxonomic techniques, and ecological roles.
- CO2: Explain physiological processes, anatomy and adaptations in animals for survival, reproduction and behavior.
- CO3: Conduct field observations and experiments to study animal behavior, ecology, and interactions with their environment.
- CO4: Analyse data from zoological research studies using statistical methods and graphical representations.
- CO5: Communicate scientific concepts and experimental procedures clearly and accurately through written reports and presentations.
- CO6: Apply principles of conservation biology and environmental management to address threats to animal populations and habitats, integrating knowledge from ecology, genetics, and policy studies to develop sustainable strategies for biodiversity conservation and ecosystem protection.

6) Botany

Program Outcomes (POs):

Understand the structure, function, diversity, and evolution of plants. Apply knowledge of plant science to address ecological, agricultural, and environmental challenges.

Course Outcomes (COs):

- CO1: Describe diversity, life cycles, morphology and importance of microorganisms and principles of plant pathology, causal organisms of plant diseases and their control.
- CO2: Explain the application of microbes and plants in industrial application and Environmental remediation strategies.

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- CO3: Describe economic importance of diverse plants that offer resources to human life.
- CO4: Describe plant classifications, systematics, ecology, plant interactions with microbes and insects, genetics and molecular biology of various plant groups.
- CO5: Discuss current researches and issues in botany including transgenic technologies for basic and applied research in plants.
- CO6: Conduct qualitative and quantitative analysis for different parameters of both soil and water with field and laboratory analyses.
- CO7: Describe strategies for sustainable natural resource management and biodiversity conservation.

7) Sociology

Program Outcomes (PO):

Understand the concepts, theories and methodologies of sociology. Analyze and interpret social phenomena using sociological perspectives. Enhance critical thinking skills to evaluate social issues, policies and practices. Apply analytical skills to conduct sociological research and interpret data.

Course Outcomes (Cos):

- Understand basic sociological concepts and terminologies. Analyze the role of social institutions and their impact on individuals and society.
- Gain knowledge of classical and contemporary sociological theories and apply theoretical frameworks to analyze social issues and phenomena.
- Develop skills in designing sociological research, including formulating hypotheses and research questions. Understand and apply various research methodologies, including survey, interviews and observational studies.
- Examine the causes and consequences of social inequality. Understand the impact of race, class, gender and other social categories on individuals and groups.
- Understand the impact of globalization on societies and analyze global social issues such as migration, economic disparity and cultural exchange.
- Explore the social construction of gender and its impact on individuals and society. Analyze gender roles, identities, and inequalities in various social contexts.

8) Physics

Program Outcomes (POs):

Familiarize and understand the basic concepts, theories and principles of classical physics, modern physics, computational and digital electronics. To use mathematical methods and tools, and experimental techniques so as to develop critical thinking, analyze physical phenomena and develop problem-solving skills.

Course Outcomes (COs):

- CO1: Explain fundamentals of classical mechanics, electromagnetism, thermodynamics and modern physics.

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- CO2: Use mathematical techniques such as calculus, linear algebra in solving problems of physics.
- CO3: Perform laboratory experiments to verify and investigate physical principles and phenomena.
- CO4: Study and analyze experimental data and interpret the results using methods such as statistical and graphical.
- CO5: Present and communicate the concepts and experiments properly and correctly through reports and others.
- CO6: Apply computational physics and simulations to model complex physical systems so as to get an insight beyond the traditional approaches and also to get interdisciplinary relationship nature between digital, computation and physics.

9) Chemistry

Program Outcomes (POs):

- Thorough understanding of core chemical principles across various subfields, such as organic, inorganic, physical, analytical and biochemistry.
- Proficient in laboratory techniques, data analysis and research methodologies, enabling them to solve complex chemical problems.
- Prepared for diverse career opportunities or further studies.

Course Outcomes (COs):

- Understand and apply fundamental concepts of organic, inorganic, physical, analytical and biochemistry.
- Demonstrate skill in conducting experiments using modern laboratory techniques and instruments.
- Analyze and interpret experimental data, using appropriate quantitative and qualitative methods.
- Develop critical thinking and problem solving abilities to address complex chemical problems.
- Apply proper safety protocols and ethical considerations in all laboratory activities.
- Recognize the role of chemistry in environmental sustainability and apply knowledge to promote sustainable practices.

10) Mathematic

Program Outcomes (POs):

Inculcate in-depth knowledge and understand fundamental concepts and theories in mathematics including Algebra, Calculus, Geometry, Real Analysis, Differential Equations and several other branches of pure and applied mathematics including areas of Computer Science. Apply critical thinking, logical reasoning and problem-solving skills to analyse and solve mathematical problems. Develop proficiency in mathematics to unlock the secret of the universe and elevate humanity to new heights.

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Course Outcomes (Cos):

- Describe understanding of fundamental mathematical concepts and theories.
- Apply mathematical reasoning and techniques to solve problems in Algebra, Calculus, Geometry and other branches of pure and applied mathematics.
- Analyse mathematical problems using critical thinking and mathematical reasoning.
- Evaluate mathematical problems involving various structures and logical reasoning.
- Communicate mathematical solutions effectively through calculations, presentation and explanation.
- Critically utilize mathematical techniques and modeling in society, exploring their interconnection with various fields such as engineering, physics, economics, computer science and social science.

11) Statistic

Program outcomes (POS)

Understand the basic knowledge of statistics and its scope and importance, probability theory, data collection and analysis. Application of statistical methods and techniques in various field work and interpretation of data. Developed proficiency in statistical software tools for data manipulation, visualization and modeling.

Course Outcomes (COS):

- C01: Explain the concepts of Descriptive statistics including measures of central tendency, variability and probability theory.
- C02: Application of statistical techniques and method such as testing of hypothesis, correlation and regression analysis and analysis of variance to the related data.
- C03: Use of statistical software package such as R programming or SPSS to analyse and visualize the data.
- C04: Design of experiment and surveys, selecting the suitable sampling methods and analyse the data for giving valid conclusions.
- C05: To discuss the publication of statistical finding through writing, charts and presentations about the data.

12) Economics

Program Outcomes (POs)

Understand different aspects, scopes and different issues of Economics. Application of different tools of economics in various field of different sector such as primary, secondary and tertiary for sustainable development

Course Outcome (Cos)

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- CO1: Introduce the basic principles of Microeconomics theory, the working of the markets which are explained in terms of demand and supply and get the knowledge how microeconomics can be applied to analyze real life situations
- CO2: Innumerate the preliminary building blocks to mathematical tools used in basic economic theory.
- CO3: Familiarize with concepts of Macroeconomics, its difference from microeconomics and learned the basic structure of a classical and Keynesian system
- CO4: Explain concepts of differential equations linear algebra, functions of several real variables
- CO5: Demonstrate data simulation and publicly available data set.
- CO6: Explain types of data and their sources, sampling techniques.

13) Physical education

Program Outcomes (POs)

- PO1: Comprehend the fundamentals of human anatomy, physiology, and biomechanics as they pertain to physical activity and exercise.
- PO2: Utilize teaching and coaching strategies to effectively conduct physical education and sports programs.
- PO3: Achieve competence in various physical skills, sports, and recreational activities.

Course Outcome (Cos)

- CO1: Ensure competency in various physical activities and sports skills.
- CO2: Aim to improve athletic performance by applying exercise physiology and biomechanics principles.
- CO3: Formulate Physical Education lessons and implement training programs for diverse masses.
- CO4: Determine individuals' levels of fitness to find out their needs and goals with the aim of prescribing appropriate exercise regimes.
- CO5: Awareness of physical activities to achieve a healthy lifestyle through educational programs and community outreach.
- CO6: Empower athletes through the science of motivation and proven coaching techniques to unlock their peak performance. Create a supportive and encouraging environment that fosters personal growth and achievement in all aspects of sport and physical activity

14) Geography

Program Outcomes (POs):

Comprehend and gain a foundational understanding of the key concepts, theories, and methodologies of geography. Analyse geographical knowledge and ideas through written, oral and visual formats. Develop proficiency in creating and interpreting various map types using traditional and digital techniques, gain the ability to represent and analyse geographic data through effective visualization methods and software applications and able to leverage computer technology for geographic problem-solving, data management, and cartographic communication

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Course Outcomes (COS):

- CO1: Define geography, its scope, and various branches, discuss the place of geography within the classification of science and its relationship with other disciplines.
- CO2: Analyse the concepts of society, culture, and civilization.
- CO3: Analyse the applications of computer cartography in various geographical fields.
- CO4: Utilize relevant software to create and interpret various graphical representations of geographic data (histogram, bar chart, line graph, scatter plot, pie chart)
- CO5: Analyse the applications of remote sensing in various fields, including land use and land cover mapping, urban sprawl analysis, forest monitoring, water resource management, and natural hazard assessment .Conduct field surveys and observations to study thoroughly.
- CO6: Discuss various applications of GIS in different fields, including land use mapping, urban sprawl analysis, forest monitoring, and natural disaster management. Analyse the potential of GIS for future advancements and its evolving role in various sectors.

15) Computer Science

Program Outcomes (POs):

The program is designed to give students a solid foundation in computational theories and hands-on practices, enabling them to tackle complex problems efficiently. Graduates will be familiar with modern computing tools and understand professional ethics and responsibilities. The program also emphasizes teamwork, effective communication, lifelong learning, and the societal impact of technology.

Course Outcomes (COs):

- CO1: Learn to write clear, efficient, and structured code in various programming languages, preparing you to solve real-world problems.
- CO2: Understand and implement essential data structures and algorithms, which are the building blocks for creating efficient software solutions.
- CO3: Gain the ability to design, manage, and query databases using SQL, while comprehending the core concepts of database systems.
- CO4: Acquire knowledge about computer networks and operating systems, including their protocols and management techniques, to ensure robust and secure systems.
- CO5: Apply software development principles and methodologies to design, develop, test, and maintain high-quality software projects.
- CO6: Explore and implement cutting-edge technologies like web development, artificial intelligence, and cloud computing, equipping to address modern technological challenges.

16) History

Program Outcomes (POs):

Understand the basic knowledge of human history - the development of societies and cultural achievements in various civilizations through different periods of time. Apply historical

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and interdisciplinary methods, as well as theories to conduct research and establish historical description.

Course Outcome (Cos)

- CO1: Portray key events of world history with movements and figures.
- CO2: Describe significant events of Indian and Manipur history.
- CO3: Conduct historical research with aid of library resources, e-resources, archival materials, museums, survey to historical sites etc.
- CO4: Analyze primary and secondary sources. Enumerate the interpretation of history on specific area of study and discussion.
- CO5: Make comparative study and analysis on different cultures of different periods of time to find out common elements among them, the continuity and change of culture and to bring out the bond of historical interconnections.
- CO6: Present arguments and research findings in well-organized written reports.

17) Philosophy

Program Outcomes (POs):

Quest for more philosophical ideas in every dimension of life, and its techniques for applying to problems in any field of study or endeavour. Reasoned pursuit of fundamental truths, a quest for understanding, and a study of principles of conduct.

Course Outcomes (COS):

- CO1: Explain the learning process of general philosophical trends both Western and Indian by adopting critical tools of analyzing problems and also inculcate the skill of problem solving in a wide spectrum of historical context.
- CO2: Develop the generic skill and global competencies in the familiarisation of the contemporary trend of research and knowledge in a given field and look for the solution for philosophical problems in contemporary times.
- CO3: Analyse the issues and problems of metaphysics, epistemology, logic, and ethics for understanding the general trends in philosophical investigations.
- CO4: Engaging in analytical and critical thinking skills for enabling to apply in further higher research.
- CO5: Familiarising the nature and characteristics of mind, matter, language, knowledge, and reality for the conceptual clarity
- CO6: Understanding philosophical debates on various issues in interpreting meanings.

18) Education

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Program Outcomes (POS):

Understand theories of learning, teaching, and educational psychology. Apply instructional strategies and assessment techniques to meet diverse learning needs. Develop skills in curriculum design, lesson planning, and classroom management.

Course Outcomes (COs):

- CO1: Describe theories of human development and learning and their implications for education.
- CO2: Design instructional materials and activities aligned with learning objectives and student needs.
- CO3: Implement various teaching methods and strategies to engage students and facilitate learning.
- CO4: Assess student learning through formative and summative evaluation techniques.
- CO5: Reflect on teaching practices and identify areas for professional growth and improvement.
- CO6: Utilize technology effectively in educational settings to enhance teaching and learning experiences, including integrating educational software, online resources, and digital tools to support diverse learning styles and needs.

19) Biotechnology

Program Outcomes (POs):

- Develop and enhance the subject knowledge of students through an interdisciplinary learning habit.
- Understand basis and advanced knowledge on various branches of biotechnology..
- Furnish the students with the laboratory skills in biotechnology.

Course Outcomes (Cos):

- CO 1: Promote understanding of the function of biological molecules through the study of their molecular structure and interaction with other biomolecules. And different fundamentals of basic chemistry, studies includes chemical bonding hybridization, in thermodynamic studies free energy required for chemical and biochemical reactions and chemical kinetics rates of chemical reaction.
- CO 2: Introduce the knowledge of structure and functions of various cell organelles and their interaction within cell to promote cell growth, division and development. The Students will gain in depth knowledge about cellular architecture and cytoskeletal organization.
- CO 3: Introduce the basic concept and applications of biotechnology in agriculture, medicine, environment, food industry, chemical industry, forensic sciences, bioremediation, waste management etc.

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- CO 4: Promote understanding of techniques like DNA fingerprinting, cloning, transgenic plants and animals, in vitro fertilization, artificial insemination, stem cell technology etc
- CO 5: Develop a conceptual understanding of connections between physics and biology.
- CO 6: Understanding the fundamentals, history and classification and control of microorganisms.
- CO 7: Enhance the knowledge of chromosome, genomic organization, gene mutations and Mendelian genetics.
- CO 8: Understand the principals and unique feature of growth and development in plants at vegetative and reproductive phases, plant water relations, types of meristematic and permanent tissues. Also students will understand live processes in animals.
- CO 9: Understanding of procedures involved in purification of enzymes, enzymes assays and quantitative evaluation of the influencing parameters such as concentrations of substrate / enzyme, pH, temperature and effects of inhibitors on enzyme activity.
- CO10: Understanding the basic mechanisms that regulate immune responses and maintain tolerance, vaccines and vaccination.
- CO 11: Understanding molecular basis of life-DNA and RNA, their structure and functions. The regulation of gene expression in prokaryotes using operon concept and Eukaryotes. Molecular Events of Translation leading to protein synthesis and Post translational modification.
- Co 12: Impart knowledge about major events in the development of rDNA technology and acquire skills on techniques of construction of recombinant DNA - Cloning vectors and isolation of gene of interest. Understand the principles and applications of Polymerase Chain Reaction (PCR).
- CO 13: Understanding embryo, callus, organs, cell and protoplast culture.
- CO 14: Understanding the principles, practices and application of animal biotechnology in transgenes, tissue engineering, pharmaceuticals and gene therapy.
- CO 15: Understanding Bioinformatics and its role in biotechnology.
- CO 16. Gets a brief idea about layout of a fermentation unit and various steps involved in bioprocess technology
- CO 17: Learned about the diverse world of Intellectual Property rights and Biosafety and Bioethics.
- CO 18: Understanding treatment of municipal waste, industrial effluents and biotechnological solutions to address environmental issues, pollution, mineral resource winning, renewable energy and water recycling.
- CO 19: Understanding basis concepts and need of Intellectual property.

20) Political science

Program Outcomes (POs):

- Understand the theories, concepts, and methods of political science and comparative politics.
- Examine political institutions, processes, and behaviors at local, national, and international levels.
- Enhance critical thinking and analytical skills in assessing political issues and policies.

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Course Outcomes (COs):

- CO1: Explain fundamental concepts and theories in political science, including power, authority, democracy, and citizenship.
- CO2: Investigate political institutions, such as governments, legislatures, and political parties, across various political systems.
- CO3: Assess political ideologies and movements, including liberalism, socialism, conservatism, and nationalism.
- CO4: Analyze public policy issues like healthcare, education, immigration, and environmental policy from political viewpoints.
- CO5: Articulate political analyses and arguments effectively through written essays, oral presentations, and debates.
- CO6: Apply comparative politics frameworks to identify similarities and differences between political systems and cultures in different regions and societies, promoting a nuanced understanding of global political dynamics and an appreciation for diversity in political structures and processes.

21) Environmental Science

Program Outcomes (POs):

Understand the principles of ecology and environmental science, various relationship of earths system, appreciate attributes of natural resources, sustainability. Application of various modern scientific techniques for learning and solving environmental issues. Critically examine and analyse the impacts of human beings on environment.

Course Outcomes (COs):

- CO1: Knowledge of environments and its components, biodiversity, natural resources, biogeochemical cycles.
- CO2: Systematically understand and analyse various environmental problems.
- CO3: Application of environmental policies and management strategies for sustainable development.
- CO4: Conducted various field survey and applied different procedure to investigate the problem.
- CO5: Discuss environmental issues and its remedial measures via workshop, presentation, etc.
- CO6: Understand the Indian constitutional provision with respect to the environment protection, division of powers and fundamental rights.

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