



Jorhat Kendriya Mahavidyalaya

Kenduguri, Jorhat-785010 (Assam)

Affiliated by Dibrugarh University

Supporting Documents for NAAC Self Study Report (SSR) (3rd Cycle) Period: 2017-2022

Criterion 2	Key Indicator: 2.6
Teaching Learning and Evaluation	Programme Outcomes (POs) and Course Outcomes (COs) are stated and attainment of POs and COs are evaluated
Metric Number : 2.6.1	GLOSSARY OF PROGRAMME OUTCOME AND COURSE OUTCOME

**Prepared and submitted by
Jorhat Kendriya Mahavidyalaya**

Submitted To



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL


Pranjal Dutta
Coordinator, IQAC

CRITERION II: TEACHING-LEARNING AND EVALUATION




Principal
Jorhat Kendriya Mahavidyalaya
Kenduguri, Jorhat-10



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GLOSSARY OF PROGRAMME OUTCOME AND COURSE OUTCOME

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Programme outcome of B.A and B.Sc Course

Program Outcomes-B.A course

The Bachelor of Arts is a fulltime programme of three years of duration consisting of six semesters. The college offers 7 honours program- Assamese, Economics, Education, English, History, Political Science and Sociology. The outcomes of these programs are to prepare students with sound knowledge and skills across different disciplines and socio-cultural boundaries. The program will enable students to critically analyze various information's relating to the subjects. The program will inculcate sound ethical behavior with positive learning outcomes. Competitive students are enabled to enter into promising professional lives even after graduation. They also have a platform for pursuing higher studies leading to post-graduate or doctorate degrees. This programme also formulates the basis of the growth in almost all the disciplines of the contemporary world and also provide an array of non-Traditional employment avenues.

Program Outcomes-B.Sc Courses

The Bachelor of Science requires three years of full time study consisting of six semester. The college offers 5 honours program- Botany, Chemistry, Mathematics, Physics and Zoology. The outcomes of these programs is enable students to critically think and understand the respective subject and inculcating scientific temper.


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METRIC NO.	Programme outcomes and Course outcome of B.A Courses
6.2.1	

Programme outcomes and Course outcomes of Department of Assamese

Department of Assamese Programme outcomes:

The program will

- Increase critical attitude on literary studies and developing language.
- The program will enable students to understand the Assamese culture and its diversity.
- The program will inculcate the learners with the knowledge of linguistics and history of Assamese language.
- The subject encompasses archaeology, agriculture, tourism, folklore and indigenous costumes.
- The program will enhance communicative and creative writing skills of the learners. Besides the program will throw an insight on legendary Assamese poets and their contribution in transformation in Assamese society.

Course Outcomes:

Assamese (ASM)-(Core Course):

SEMESTER I

Paper Code: C-1History of Assamese Literature (Till Sankarottar Age)

- Students will introduce with the history of Assamese Literature.
- Students will introduce with the characteristics and diversity of Assamese Literature till the Sankrottar Era.


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Course outcomes of Department of Assamese

Paper Code: C-6: Selection of Assamese Poetry

- Students will introduce with the history of Assamese poetry.
- Students will introduce with the characteristics and diversity of Assamese poetry.
- Students will introduce with some selected poets and their work.

Paper Code: C-7: Studies on the Culture of Assam

- Students will introduce with the meaning, nature, scope and characteristics of culture.
- It will acquaint the learners with Cultural background of Assam as a unique cultural spot of observation as it has been occupied by various ethnic groups of people.
- Students will be able to exhibiting diverse cultural traits & Preservation of the region.

SEMESTER IV

Paper Code: C-8: Theory and Practice of Comparative Literature

- Students will acquaint with the nature, scope and meaning of Comparative Indian Literature and the various prospective of studies of it.
- Students will be able to compare various literary texts of Assamese with texts of different languages.

Paper Code: C-9- Indo Aryan Languages of Assam

- Students will understand the evolution process of Indo Aryan languages.
- It gives the students some Idea about Sanskrit, Pali and Prakrit Language through some selected texts.
- It develops the grammatical conceptuality of Assamese language and will come to know the formation and development of Assamese language.


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Course outcomes of Department of Assamese

Paper Code: C-10- Selection of Assamese Prose

- Students will introduce with the developmental history of Assamese prose literature.
- Students will introduce with the characteristics and diversity of Assamese prose.

SEMESTER V

Paper Code: C-11 - Assamese Drama

- Students will acquaint with the movements of the growth of Assamese Drama.
- They will acquaint with the Assamese Drama form the period of Sankardeva to Modern period and the cultural Contexts of their production and reception as well as the issues that define the ethos of the texts.

Paper Code: C-12 - Studies on Assamese Linguistics

- Students will introduce with the theoretical knowledge of Phonology, Morphology, Syntax and Word formation of Assamese Language.
- It will develop the language skill of students.

DSE--- Any two from the following group-I to be chosen as DSE 1 and DSE 2:

DSE-1 : Assamese Grammar, Lexicon and Idiomatic Usages

- Students will introduce with Assamese Grammar, Lexicon and Idiomatic Usages.

DSE-2 : Introduction to Indian Literature

- It gives the students some idea about Indian Literature and its trends through some selected texts of various languages of India and abroad.
- Students will acquaint with the unity and diversity of Indian literature.


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Course outcomes of Department of Assamese

SEMESTER VI

Paper Code: C-13: Selection from Assamese Prose

- Students will introduce with the characteristics and diversity of Assamese prose.
- Students will introduce with nature and diversity of Assamese prose with some selected prose from Assamese literature.

Paper Code: C-14: Language and Script of Assam

- Students will introduce with the languages of Assam and the dialects of the region.
- Students will also introduce with the script of Assamese language and the other languages of Assam.

DSE--- Any two from the following group-I to be chosen as DSE 3 and DSE 4:

DSE-3: Introduction to World Literature

- It gives the students some idea about World Literature and its trends through some selected texts of various languages of India and abroad.
- Students will acquaint with the unity and diversity of world literature.

DSE-4(A) : Special Author

Students will able know about one of the special authors of Assamese literature given below –

- Bhupen Hazarika
- Bhabendra Nath Saikia
- Birendra Kumar Bhattacharjee
- Mamoni Raysam Goswami.
- Nirupoma Borgohain.

DSE-4(B): Project

- Students will able to select a research topic and will know the preparation of a research work and the about various types of research.
- Students will able to prepare a project report on a selected topic.


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Programme outcomes and Course outcomes of Department of Economics

Department of Economics Programme outcomes:

The program will

- Enable the learner to understand the basic concepts of economics and its application.
- The subject will enhance knowledge pertaining to different economic policies, economic variables, statistical and mathematical models for their practical applications.
- The program will increase the proficiencies of the learners for professional works in business, banking, management and administration.

Course Outcomes:

ECONOMICS- (Core Course):

Semester I

Paper Code: C 1: INTRODUCTORY MICROECONOMICS

- Students will be able to expose the basic principles of microeconomic theory.
- The emphasis will be on thinking like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations.

C 2: MATHEMATICAL METHODS IN ECONOMICS-I

- Through this paper the Body of basic mathematics enables the study of economic theory specifically the courses on microeconomic theory, macroeconomic theory, statistics and econometrics set.
- Students will be able to illustrating the method of applying mathematical techniques to economic theory in general.


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Course outcomes of Department of Economics

Semester II

C 3: INTRODUCTORY MACROECONOMICS

- This will introduce the students to the basic concepts of Macroeconomics. Macroeconomics deals with the aggregate economy.
- Students will introduce with the preliminary concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP, Money, inflation, and the balance of payment

C 4: MATHEMATICAL METHODS IN ECONOMICS - II

- Students will be taught to transmit the body of basic mathematics that enables the study of economic theory, specifically the courses on microeconomic theory.
- Students will be able to illustrate the method of applying mathematical techniques to economic theory in general

Semester III

C 5: ESSENTIALS OF MICROECONOMICS

- This will provide a sound training in microeconomic theory to formally analyze the behaviour of individual agents. Since students are already familiar with the quantitative techniques.
- This will enable students to look at the behaviour of the consumer and the producer and also covers the behaviour of a competitive firm.

C 6: ESSENTIALS OF MACROECONOMICS

- Students will introduce to formal modelling of a macro-economy in terms of analytical tools.
- Students will be able to discuss the various alternative theories of output and employment determination in a closed economy in the short run as well as medium run, and the role of policy in this context.
- It also introduces the students to various theoretical issues related to an open economy.


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Course outcomes of Department of Economics

C 7: STATISTICAL METHODS FOR ECONOMICS

- Students will acquaint with some basic statistical methods that can be applied in economics.

Semester IV

C 8: ADVANCED MICROECONOMICS

- This will give conceptual clarity to the student coupled with the use of mathematical tools and reasoning. It covers general equilibrium and welfare, imperfect markets and topics under information economics.

C 9: ADVANCED MACROECONOMICS

- The students are introduced to the long run dynamic issues like growth and technical progress.
- It also provides the micro-foundations
- to the various aggregative concepts used in the previous course.

C 10: INTRODUCTORY ECONOMETRICS

- This will provide a comprehensive introduction to basic econometric concepts and techniques.
- Students will introduce with statistical concepts of hypothesis testing, estimation and diagnostic testing of simple and multiple regression models.

Semester V

C-11: INDIAN ECONOMY- I

- Students will be able to use appropriate analytical frameworks.
- Students will be able to review major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points.



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Course outcomes of Department of Economics

C 12: DEVELOPMENT ECONOMICS-I

- Students will introduce with the alternative conceptions of development and their justification.
- It will help students to develop measures of inequality and connections between growth and inequality are explored.
- Students will be able to link political institutions to growth and inequality by discussing the role of the state in economic development and the informational and incentive problems that affect state governance.

DSE--- Any two from the following group-I to be chosen as DSE 1 and DSE 2:

DSE 1 (Group-I): ECONOMICS OF HEALTH AND EDUCATION

- Students will be able to know the importance of education and health in improving well-being is reflected in their inclusion among the Millennium Development Goals adopted by the United Nations member states, which include among other goals, achieving universal primary education, reducing child mortality, improving maternal health and combating diseases.
- This course provides a microeconomic framework to analyze, among other things, individual choice in the demand for health and education, government intervention and aspects of inequity and discrimination in both sectors. It also gives an overview of health and education in India.

DSE 2 (Group-I): APPLIED ECONOMETRICS

- It will provide foundation knowledge in applied econometric analysis and will develop skills required for empirical research in economics viz. Specification and selection of regression models, dynamic econometric models, advanced methods in regression analysis and panel data models.
- Since the emphasis is on application of methods, this course will provide understanding of econometric software and computing skills to the students.


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DSE 3 (Group-I): ECONOMIC HISTORY OF INDIA (1857-1947)

- Students will know the key aspects of Indian economic development during the second half of British colonial rule.
- Students will be able to investigate the place of the Indian economy in the wider colonial context, and the mechanisms that linked economic development in India to the compulsions of colonial rule.

DSE 4 (Group-I): GAME THEORY

- Game theory is an integral part of modern economic analysis. Game theory introduces the students to elementary game theory under complete information.
- Students will introduce with the basic concepts of game theory and will be able to use them in solving simple problem.

DSE 5 (Group-I): MONEY AND FINANCIAL MARKETS

- Students will introduce to the theory and functioning of the monetary and financial sectors of the economy. It highlights the organization, structure and role of financial markets and institutions.
- It also discusses interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.

DSE 6 (Group-I): PUBLIC ECONOMICS

- Students will introduce with the nature of government intervention and its implications for allocation, distribution and stabilization.
- Students will acquaint with formal analysis of government taxation and expenditures.
- Students will acquaint with the theory of public economics as well as with Indian public finance.


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Course outcomes of Department of Economics

Semester VI

C 13: INDIAN ECONOMY- II

- Students will be able to examine sector-specific policies and their impact in shaping trends in key economic indicators in India.
- Students will be able to evaluate the emerging issues.

C 14: DEVELOPMENT ECONOMICS-II

- Students will acquaint with basic demographic concepts and their evolution during the process of development.
- Students will introduce with the structure of markets and contract linked to the particular problems of enforcement experienced in poor countries.
- Students will know the governance of communities and organizations which will link to questions of sustainable growth.
- Students will know the role of globalization and increased international dependence on the process of development.

DSE--- Any two from the following group-I to be chosen as DSE 3 and DSE 4:

DSE 7 (Group-II): FINANCIAL ECONOMICS

- It will introduce the students to the economics of finance.
- Students will introduce some of the basic models used to benchmark valuation of assets and derivatives which include the CAPM, and the Binomial Option Pricing models.
- It will provide a brief introduction to corporate finance.

DSE 8 (Group-II): ENVIRONMENTAL ECONOMICS

- Students will be able to know the economic causes of environmental problems and particular, economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies.
- Students will acquaint with Economic implications of environmental policy are also addressed as well as valuation of environmental quality, quantification of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and environmental impact assessments.


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DSE * (Group-II): INTERNATIONAL ECONOMICS (6 Credits)

- Students will be able to describe the systematic exposition of models that try to explain the composition, direction, and consequences of international trade, and the determinants and effects of trade policy.
- Students will be able to describe national policies as well as international monetary systems.

DSE 10 (Group-II): THE ECONOMY OF NORTH-EAST INDIA (6 Credits)

- The students will acquaint with the characteristics as well as with the current issues of the economy of North-East India.
- The learners will also be able to know the performance and problems of the primary, secondary and tertiary sectors of North-East India.

DSE 11 (Group-II): HISTORY OF ECONOMIC THOUGHT (6 Credits)

- The students will acquaint with the historical developments in the economic thoughts propounded by different schools.

ECONOMICS GENERIC:

SEMESTER I

GE 1: INTRODUCTORY MICROECONOMICS

- Students will be able to expose the basic principles of microeconomic theory.

Learners will be able to think like an economist and the course will illustrate how microeconomic concepts can be applied to analyze real-life situations.

SEMESTER II

GE 2: INTRODUCTORY MACROECONOMICS

- Students will introduce with the basic concepts of Macroeconomics.
- Students will acquaint with concepts associated with the determination and measurement of aggregate macroeconomic variable like savings, investment, GDP, money, inflation, and the balance of payments.

SEMESTER III

GE 3 (a): INDIAN ECONOMY- I

- Students will be able to review major trends in economic indicators and policy debates in India in the post-Independence period, with particular emphasis on paradigm shifts and turning points.


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Course outcomes of Department of Economics

- Students will be able to evaluate the emerging issues.

GE 3 (b): MONEY AND FINANCIAL MARKETS

- Students will acquaint with the theory and functioning of the monetary and financial sectors of the economy.
- Students will acquaint with the organization, structure and role of financial markets and institutions.
- Students will be able to know the interest rates, monetary management and instruments of monetary control. Financial and banking sector reforms and monetary policy with special reference to India are also covered.

GE 3 (c): ENVIRONMENTAL ECONOMICS

- Students will be able to know the economic causes of environmental problems and particular, economic principles are applied to environmental questions and their management through various economic institutions, economic incentives and other instruments and policies.
- Students will acquaint with Economic implications of environmental policy are also addressed as well as valuation of environmental quality, quantification of environmental damages, tools for evaluation of environmental projects such as cost-benefit analysis and environmental impact assessments.

SEMESTER IV

GE 4 (a): INDIAN ECONOMY- II

- Students will be able to examine sector-specific policies and their impact in shaping trends in key economic indicators in India.
- Students will acquaint major policy debates and evaluate the Indian empirical evidence.

GE 4 (b): ECONOMIC HISTORY OF INDIA (1857-1947)

- Students will be able to analyse the key aspects of Indian economic development during the second half of British colonial rule and the mechanisms that linked economic development in India to the compulsions of colonial rule.



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Course outcomes of Department of Economics

GE 4 (c): PUBLIC FINANCE

- Students will introduce with the nature of government intervention and its implications for allocation, distribution and stabilization.
 - Students will acquaint with formal analysis of government taxation and expenditures.
 - Students will acquaint with the theory of public economics as well as with Indian public finance.
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Programme outcomes and Course outcomes of Department of Education

Department of Education Programme Outcomes:

The program will

- Encompasses different perspectives of teaching, psychology and allied aspects.
- The course acquaints the students with the preparation and implementation of teaching methodologies.
- It also enhances the knowledge and understanding pertaining to social-cultural aspects

Course Outcomes:

Education (Honours) SEMESTER I

C-1: PHILOSOPHICAL FOUNDATIONS OF EDUCATION

- The students will be able to describe the modern concept, aims, functions and role of education.
- The students will be able describe the role of Philosophy in Education.
- The students will be able explain the basic tenants of the given Indian and Western Philosophies and their influence in Education.
- The students will be able appraise the contribution of the given philosophers in the domain of education.

C-2: SOCIOLOGICAL FOUNDATIONS OF EDUCATION

- The students will be able to explain the concept, approaches and theories of educational sociology.
- The students will be able to illustrate Social Aspects, Social Processes and role of Education.
- The students will be able to explain the role of Education in Social Change and Development.
- The students will be able to describe various Social Groups and their Education
- The students will be able to explain different Political Ideologies and their bearings on Education.


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Course outcomes of Department of Education

Generic Elective

GE1: Guidance and Counselling

- The students will be able to define the meaning , nature, purpose and scope of guidance and counselling
- The students will be able to describe the characteristics and functions of guidance and counselling
- The students will be able to state the basic principles of guidance and counselling
- The students will be able to explain the types and areas of guidance and counselling.

SEMESTER II

C-3: PSYCHOLOGICAL FOUNDATIONS OF EDUCATION

- The students will be able to explain the concept, nature, scope and uses of psychology in Education.
- The students will be able to explain the influence of growth and development in education.
- The students will be able to describe the meaning, concept, variables, types and theories of learning.
- The students will be able to discuss the concept and theories of intelligence and creativity.
- The students will be able to explain the meaning, concept, factors and theories of personality.
- The students will be able to describe the concepts of mental health and mental hygiene, measures of mental health in school.


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Course outcomes of Department of Education

C-4: EDUCATIONAL ADMINISTRATION AND MANAGEMENT

- Learners will be able to define the concept of Educational Management.
- Learners will be able to describe the types of management and modern trends of Educational management.
- Learners will be able to define the concept of educational leadership.
- Learners will be able to explain the principles of educational leadership.
- Learners will be able to describe the styles of leadership and its implication in educational leadership.
- Learners will be able to define the concept of educational planning and its importance
- Learners will be able to analyze the role and importance of educational supervision
Learners will be able to suggest measures to ensure quality in educational management.

Generic Elective

GE 3: HUMAN RIGHTS EDUCATION

- The students will be able to explain the meaning, definition, nature, scope, theories and constitutional perspectives of Human Rights.
- The students will be able to describe the Concept, Objectives, Principles, need, factors, curriculum, methods and activities of Human Rights Education.
- The students will be able to describe the basics of Human Rights Education i.e. societal, political, regionalism and limitations of its
- The students will be able to explain the role of different agencies of Human Rights Education.



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Course outcomes of Department of Education

SEMESTER III

C-5: GREAT EDUCATORS AND EDUCATIONAL THOUGHTS

- The students will be able to describe the contribution of the given philosophers in the domain of education
- The students will be able to explain the relevance of the educational thought of the given philosophers

C-6: MEASUREMENT AND EVALUATION IN EDUCATION

- The students will be able to explain the meaning, nature, scope, need and types of measurement and evaluation in education.
- The students will be able to describe the meaning of psychological tests, their characteristics and process of construction.
- The students will be able to describe some specific tools to measure achievement, intelligence, personality and aptitude.
- The students will be able to describe the meaning and nature of different statistical measures.
- The students will be able to use statistics in measurement and evaluation in education

C-7: EXPERIMENTAL PSYCHOLOGY AND LABORATORY PRACTICAL

- The students will be able to explain the concept, scope and need of Experimental psychology.
- The students will be able to conduct and report of psychological experiments.
- The students will be able to describe the meaning and nature of memory, Immediate memory, memory span and its related practical.
- The students will be able to explain the concept of attention, span of attention and its related practical.
- The students will be able to explain the concept, theories and methods of learning and its related practical.


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Course outcomes of Department of Education

- The students will be able to state the concept of personality, different techniques of personality testing and its related practical.
- The students will be able to state the concept of intelligence, historical background of intelligence testing and its related practical.

GE 6: MENTAL HEALTH EDUCATION

- The students will be able to understand the mental health.
- The students will be able to understand the role of education in mental health.
- The students will be able to understand the various aspects of mental health and the agencies of education which can effect in mental health

SEC-1.1 Pre- School Education (PSE) I Elementary Education. (EE) I SEMESTER IV EDNHC-8: EDUCATION IN PRE-INDEPENDENT INDIA

- The students will be able to explain the concept of education in the context of Indian heritage.
- The students will be able to describe the education in ancient India, particularly Vedic Education and Buddhist Education.
- The students will be able to critically examine the education system in Medieval India.
- The students will be able to evaluate the education system during British period with special emphasis on the commissions and committees.

C-9 A: TECHNIQUES OF TEACHING

- The students will be able to explain the meaning and nature of teaching.
- The students will be able to describe the principles of teaching and learning.
- The students will be able to describe the role of teacher at different phases of teaching.
- The students will be able to explain the importance of planning lessons in teaching-learning process.


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Course outcomes of Department of Education

- The students will be able to describe the concept of teaching skills and the stages of microteaching cycle.
- The students will be able to state the objectives of teaching different subjects in Elementary and Secondary levels.
- The students will be able to describe different methods and approaches of teaching.

C-9 B: TEACHING PRACTICE

- The students will be able to demonstrate a few teaching skills in classroom.
- The students will be able to integrate the teaching skills in real classroom situations.
- The students will be able to prepare lesson plans for Microteaching and Practice teaching

C-10: EDUCATIONAL TECHNOLOGY

- The students will be able to describe the concept, nature and components of Educational Technology
- The students will be able to distinguish between Educational technology and Instructional Technology
- The students will be able to apply ICT in teaching learning
- The students will be able to describe the concept, components and characteristics of communication
- The students will be able to demonstrate the skills of effective communication
- The students will be able to apply Models of teaching, personalized system of instruction and programmed learning in teaching learning


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Course outcomes of Department of Education

SEC-1.2 Pre- School Education (PSE) I I Elementary Education. (EE) II SEMESTER V C 11: EDUCATION IN POST INDEPENDANT INDIA

- The students will be able to re-count the Educational Scenario at the time of Independence.
- The students will be able to elaborate the status of education during post independence period with special emphasis on the commissions and committees.
- The students will be able to acquaint with the recent Educational Development in India

C 12: EDUCATION IN WORLD PERSPECTIVE

- The students will be able to explain the meaning and definition, nature, scope and purpose of comparative education.
- The students will be able to describe the factors influencing in national system of education.
- The students will be able to describe the methods of comparative education.
- The students will be able to explain the organization, administration, objectives and examination systems of the countries.
- The students will be able to describe the vocational and teacher education of different countries, specially UK, USA, India and Japan.
- The students will be able to explain the open education in world perspective.

DSE 1: GUIDANCE AND COUNSELLING

- The students will be able to define the meaning , nature, purpose and scope of guidance and counseling.
- The students will be able to describe the characteristics and functions of guidance and counseling.


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Course outcomes of Department of Education

- The students will be able to state the basic principles of guidance and counselling
- The students will be able to explain the types and areas of guidance and counseling.

DSE 4: MENTAL HEALTH EDUCATION

- The students will be able to understand the mental health.
- The students will be able to understand the role of education in mental health.
- The students will be able to understand the various aspects of mental health and the agencies of education which can effect in mental health

SEMESTER VI

C-13: EMERGING TRENDS IN INDIAN EDUCATION

- The students will be able to explain the need of constitutional provisions for education, and the role of constitution in equalizing educational opportunities in the diverse Indian Society.
- The students will be able to identify and explain the challenges of Indian education at different levels.
- The students will be able to suggest measures to overcome the challenges of Indian education system.
- The students will be able to define the new perspectives of education such as Environmental education, Inclusive education, Gender education, Inclusive education, Adult education, Human right education, Value education, population education etc.
- The students will be able to critically examine the initiative taken by government of India in encounter the challenges of the new perspectives of education
- The students will be able to evaluate various plans and policies regarding the educational set up in India.


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Course outcomes of Department of Education

- The students will be able to explain the political influences on the national education system.
- The students will be able to analyze the role of international agencies in development of education.

C 14: CHILD & ADOLESCENT PSYCHOLOGY

- The students will be able to explain the significance of a study of childhood and adolescence today.
- The students will be able to describe the developmental changes of childhood and adolescence.
- The students will be able to summarize the effect of family dynamics on child and adolescent development
- The students will be able to explain the significance of the role of society in monitoring and guiding young children in their proper development

DSE 5: HUMAN RIGHTS EDUCATION

- The students will be able to explain the meaning, definition, nature, scope, theories and constitutional perspectives of Human Rights.
- The students will be able to describe the Concept, Objectives, Principles, need, factors, curriculum, methods and activities of Human Rights Education.
- The students will be able to describe the basics of Human Rights Education i.e. societal, political, regionalism and limitations of its
- The students will be able to explain the role of different agencies of Human Rights Education.

DSE 6: ECONOMICS OF EDUCATION

- The students will be able to describe the meaning, scope and importance of Economics of Education.
- The students will be able to define and illustrate the concepts used in economics of Education.


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Course outcomes of Department of Education

- The students will be able to examine the historical development of Economics of Education.
 - The students will be able to explain the concept of Education as a good, demand and supply of education, Utility of Education etc.
 - The students will be able to explain the concept of investment in education, return on investment in education, education as production process etc.
 - The students will be able to explain the concepts of different types of Educational cost.
 - The students will be able to examine the concepts of human capital formation, Education financing, Educational Planning etc.
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Programme outcomes and Course outcomes of Department of English

Department of English

Programme Outcomes

The honours program in the department of English will

- Familiarize students on English literatures, its theories and criticism, and allied concepts.
- It will enable learners to critically think and analyse cultural, historical and linguistic aspect of English literature.
- The program will acquaint students with cultural heritage of Indian literature, European cultural literature, American and British literature.
- The program will give an insight on the prominent works by Indian writers writing in English.
- The course will make students aware of contributions of renowned poets, novelists, essayists, non-fictional writers, critics and playwrights to the post-modern scenario.
- The student will most of all will learn to appreciate Literature and be enthused to pursue higher studies in the field of Literature.

Course outcomes:

English (Honours)

SEMESTER I

C 1: Indian Classical Literature

- The students will acquaint with the rich cultural heritage of ancient Indian literature, especially Sanskrit Literature starting from Valmiki's Ramayan to Sankardeva's Drama.

C 2: European Classical Literature

- Learners will acquaint with the great heritage of European classical literature which implies the literature of ancient Greece and Rome, starting from Homer's epic The Iliad to the satires of Horace.
- learners will be acquainted with immortal classics like The Iliad and Metamorphosis, get to know of the difference between the Greek classics and the Latin classics, the different genres dabbled in by the classical writers, such as, tragedy, comedy, epic, satire, criticism and so forth.


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Course outcomes of Department of English

GE 1: Academic Writing and Composition

- Students will be able to demonstrate and apply knowledge of basic essay structure, including introduction, body and conclusion; employ the various stages of the writing process, including pre-writing, writing and re-writing; employ descriptive, narrative and expository modes; demonstrate ability to write for an academic audience; write concise sentences, etc.

SEMESTER II

C 3: Indian Writing in English

- Learners will be in a better position to appreciate the diversity of customs and traditions in India, would be able to map the intellectual trajectory from the pre- to post - independence period, and get the feel of the advancement that Indian writers in English are making, for which they are receiving plaudits, both at home as well as abroad.

C4: British Poetry and Drama 14th to 17th Century

- The learners would be in a position to determine the influence of the European Renaissance on the works of the Elizabethan authors, including Shakespeare.

GE 2: Media and Communication Skills

- Students will be able to grow the skill in media communication
- They will be able to opt for a career in journalism, television or digital media by continuing their study in this field in more rigorous terms in their postgraduate level.

AECC 3: ENVIRONMENTAL STUDY

SEMESTER III

C 5: American Literature

- Learners would get a feel of American literature.
- They will be able to understand the poetics and politics of a literature characterised both by liberal and reactionary ideals.

C6: Popular Literature

- Learners would be in a position to appreciate the presence of a creative space and process that has the potential to affect readers to a degree that high-brow literature cannot achieve due to its propensity to target only a niche audience.



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Course outcomes of Department of English

C 7: British Poetry and Drama 17th and 18th Century

- Learners will be in a position to understand the ways in which English drama and poetry began to emphasize on the importance of adhering to classical norms and forms.

GE 3: Language and Linguistics

- The learners will get familiarised with the science of the study of the English language.
- Learners will be able to unravel the morphology, phonological dynamics of the language, thereby making them motivated in researching on a scientific study of language.

SEMESTER IV

C 8: British Literature: 18th Century

- Learners will be in a position to understand the spirit of the age, as well as the literature embodying this spirit

C 9: British Romantic Literature

- Learners would be in a position to know and appreciate the values of a literature characterised by emotion, passion, love towards nature, exerting of imagination and so forth in order to create a thing of beauty, which would be a joy forever.
- The learners will be in a position to understand the philosophical shift that came about due to the crises of faith pertaining to the culture of positivism that manifested its full presence during the Victorian period.
- They would be able to understand concepts like utilitarianism, surplus value, Victorian prudishness, survival of the fittest etc.

GE 4: Contemporary India: Women and Empowerment

- The learners will get acquainted with gender issues, including the politics of how it is constructed, reinforced and sustained.
- They will get apprised of women's resistance against patriarchy through women's movements, and well as understand the silence of twice marginalised sections, like Dalit women and tribal groups.


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Course outcomes of Department of English

SEMESTER V

C11: Women's Writing

- Learners would be sensitised to gender-related issues, and would be able to see things from the perspective of the other.

C 12: British Literature: Early 20th Century

- Learners will be acquainted with concepts like stream-of-consciousness, Oedipus complex, avantgarde, gyre, interior monologue, among many others.

DSE 1: Modern Indian Writing in English Translation

- Learners will be in a position to appreciate the literature of India as it exists in various regional languages.
- They would be able to understand the political, social and economic factors affecting people across regions and cultures.

DSE 3: Literary Criticism

- Learners will be in a position to understand the texts in terms of the contexts, which could be purely aesthetic, historical, textual or political.
- They will be able to read texts by adopting the ideologies of the different reading processes.

SEMESTER VI

C 13: Modern European Drama

- Learners will be in a comfortable space to know Modern drama with its entire attendant problematic.

C 14: Postcolonial Literature

- Learners will be acquainted with both the texts and the contexts of the given period.
- DSE 5: Literary Theory
- The learners shall be in a position to know some of the significant texts of discourses revolving around class, gender, power, language, race, identity and so forth.
- They will be able to relate their reading of literature through such theories, which would in turn facilitate their interpretive strategies.


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Course outcomes of Department of English

DSE 6: Literature and Cinema

- The learners will understand the elements involved in adapting texts to film.
- They will be able to demonstrate analytical skills in visual literacy and reading filmic texts.
- Students will be able to demonstrate a familiarity with ways of discussing and evaluating films as reflections of cultures and source texts.

DSE 7: Partition Literature

- The learners will be in a position to comprehend the magnitude of the tragedy of partition and realise how the trauma associated with it impinges on the victim's daily lives and activities even in the present.

DSE 8: Travel Writing

- The learners would be in a position to understand the cultural dynamics of narratives written by travellers.
- They will be able to appreciate the difference in representation from the category of gender, religion and race.
- The learners will realise that travel narratives are always already ideological in import, and hence they can only be regarded as representations, rather than truth.

AECC 1: English Communication

- Students will find a difference in their personal and professional interactions.
- Students will grow their skill of reading and writing and will be a skilled communicator in English language.

AECC 2: Alternative English

- Students will to acquaint with some of the most representative Prose Pieces and Short Stories in the western literary and cultural canon.
- Learners will be able to enhance the idea of the best that has been written in English (or translated) in the East as well as the West.


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Programme outcomes and Course outcomes of Department of History

Department of History Programme Outcomes:

The program will

- Educate the learner on the sources of History, on the growth and development of human civilizations, its basics and offer glimpses on Ancient world history.
- It will acquaint the learner with the state formation process, polity and society both in medieval world and in Indian context.
- The program will educate the students with the significant developments in the world and changing cultural scenario in India.
- This program will impart knowledge on the significant changes in the socio-political and economic life in the world and also the political contributions in India.
- This program will basically familiarise the students with different schools of thought which ushered the great revolutions in Europe and the beginning of Colonial dominion in India and their movement for freedom.

Course outcomes

HISTORY(Honours)

SEMESTER I

C 1: HISTORY OF INDIA- I

- The students will be able to analyse the various source materials for the reconstruction of Ancient Indian History, the tools of historical reconstruction, the various ancient cultures, the technological, economic, Political, religion and Philosophy of the period concerned.

C 2: SOCIAL FORMATIONS AND CULTURAL PATTERNS OF THE ANCIENT WORLD•

- The students will be acquainted with the evolution of mankind, the beginning of food production, the Bronze Age., advent of iron, the slave society in ancient Greece, the economy and the Political culture of the ancient Greece

SEMESTER II

C 3: HISTORY OF INDIA II

- The students will be acquainted with agrarian economy, the growth of urban centres in northern and central India and the Deccan as well as craft production, trade routes and coinage.


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Course outcomes of Department of History

- The students will be acquainted with Varna, Jati, gender, marriage and property relations Process of State Formation and the Mauryan and post-Mauryan polities with special reference to the Kushanas, Satavahanas and Gana-Sanghas. Land grants, land rights and peasantry, urban decline.
- The students will be acquainted with Gupta empire and post Gupta polities and the religion philosophy and society circa 300 BCE-CE 750 .

C 4: SOCIAL FORMATIONS AND CULTURAL PATTERNS OF THE MEDIEVAL WORLD•

- The learners will be acquainted with the Roman Empire and slave society as well as the culture and trade.
- Economic development in Europe from 7th to 14th centuries covering production, technological developments, growth of towns and trade.

SEMESTER III

C 5: HISTORY OF INDIA III (c. 750 -1206)

- The students will acquire knowledge about the sources for the reconstruction of early medieval Indian history.
- The students will be acquainted with Information regarding political structure and social and religious institutions.
- The students will acquire knowledge the agrarian structure and social change of the period under study.
- The students will be acquainted with Trade and commerce, guilds and process of urbanization.

C 6: RISE OF THE MODERN WEST – I

- The students will be acquainted with the transition from feudalism to capitalism.
- The students will be acquainted with the voyages to the new world, the Renaissance.
- The students will be acquainted with the Religious Reformation .
- The students will be acquainted with the 16th century Economic Developments.
- The students will be acquainted with the emergence of European state system.



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Course outcomes of Department of History

C 7: HISTORY OF INDIA IV (c.1206 - 1550)

- The students will be acquainted with the sources, vernacular histories and epigraphy.
- The students will be acquainted with the various dynasties ruling Delhi .
- The students will be acquainted with Emergence of Bahmani kingdom and Vijaynagara Empire.
- The students will be acquainted with the social and economic developments, the religion, society and culture during the late medieval India.

SEMESTER IV

C 8: RISE OF THE MODERN WEST – II

- The students will able to know about the 17th century European crisis, the English Revolution. The students will able to know about the Scientific development from 15th to 17th century , Growth of mercantilism.
- The students will able to know about end of Absolute Monarchy and growth of Parliamentary Democracy.
- The students will able to know about the American and Industrial Revolution.

C 9: HISTORY OF INDIA V (c. 1550 - 1605)

- The students will have information regarding the Persian sources and vernacular literary traditions .
- The students will able to know about the growth and consolidation of the Mughal Empire.
- The students will able to know about the Mughal policies in the North West Frontier and the Deccan.
- The students will able to know about the land rights and revenue system, agriculture, trade under the Mughals.
- The students will able to know about Political and religious ideas of the period concerned.

C 10: HISTORY OF INDIA VII (c. 1605 - 1750s)

- The learners will have an idea about the various sources and historiography of the Mughal period. The learners will have an idea about Expansion of the Mughal rule, the Sufi orders.


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Course outcomes of Department of History

- The learners will have an idea about Auragzeb's religious policy, religious institutions, Decline of the Mughal Empire, Growth of regional polities and state formation under the Rajputs and the Marathas.
- The learners will have an idea about 18th Century Debate
- The learners will have an idea about trade, craft, monetary and market system, urban centres and Indian Ocean trade networks.

SEMESTER V

C 11: HISTORY OF MODERN EUROPE- I (c. 1780-1939)

- The student will be acquainted with the various factors that led to the French Revolution of 1789.
- The student will be acquainted with The Art and Culture of the Revolution.
- The student will be acquainted with The Restoration of royal dynasties, the radical movements, the evolution of social classes, Industrialization, the First World War and Administrative Reorganization in Italy and Germany.

C 12: HISTORY OF INDIA VI (c. 1750 - 1857)

- The student will be able to examine the transition of India into a Colonial domain of the British and also show that this transition was not unilinear as the Colonial state had to face resistance from the natives.

SEMESTER VI

C 13: HISTORY OF INDIA VIII (c. 1857 - 1950)

- The student will be acquainted with the growth of Indian Nationalism and the National Movement for Freedom.
- The student will also be able to describe the initial transition from the Colonial to the PostColonial era.

C 14: HISTORY OF MODERN EUROPE II (c. 1780 -1939)

- The student will be acquainted with the Liberal Democracy, Working Class Movements and Socialism in the 19th and 20th Centuries.
- The student will be acquainted with the Crisis of Feudalism in Russia and Experiments in Socialism.
- The student will be acquainted with the War and Crisis: c. 1880-1939.
- The student will be acquainted with the Post 1919 Political Development, Cultural and Intellectual Developments since c. 1850.


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Course outcomes of Department of History

Discipline Specific Elective (Any Two)

DSE 1: EARLY AND MEDIEVAL ASSAM TILL 1826

- The student will be acquainted with the general outline of the history of Assam from the 13th century to the occupation of Assam by the English East India Company in the first quarter of the 19th century.
- The student will be acquainted with major stages of developments in the political, social and cultural history of the state during the most important formative period.

DSE 2: HISTORY OF MODERN ASSAM: 1826 –1947

- The student will be acquainted with the socio-political and economic developments in Assam during the Colonial regime.
- The student will be acquainted with the growth of Nationalism and the role of the Provinces in the National Movement for independence.

DSE 3: SOCIAL AND ECONOMIC HISTORY OF ASSAM•

- The student will be acquainted with the development of Caste, Social Classes and Occupational Groups in Ancient Assam, the religion Beliefs and Practice, Land grant, Trade, Society, the Neo-Vaishnavite Movement Patriarchy, Satra Institutions.
- The student will be acquainted with the Agriculture and Trade in Medieval Assam, the Growth of Modern Education and role of the Missionaries, Middle Class, Agriculture, Tea Industry and Transport System in Colonial Assam.

DSE 4: HISTORIOGRAPHY

- The student will be acquainted with the Concept: Meaning, Scope and Purpose of History, Varieties of History Causation in History, Objectivity in History.
- The student will be acquainted with the Primary and Secondary Sources, Internal and External Criticism.
- The student will be acquainted with the History and Allied Subjects: Archaeology, Epigraphy and Numismatics.


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Course outcomes of Department of History

- The student will be acquainted with the History and Geography, History and Anthropology, History and Sociology, History and Literature.

DSE 5: HISTORY OF THE UNITED STATES OF AMERICA (c.1776-1945)

- The student will be acquainted with the Colonization and Settlement of America.
- The student will be acquainted with the American War of Independence, the Features of Constitution.
- The student will be acquainted with the rule of Federalists and Republicans, Monroe Doctrine, the Civil War.
- The student will be acquainted with Industrialization, Labour Movements, USA in World War I and II

GE I: HISTORY OF ASSAM: 1228 –1826

- The student will know a general outline of the history of Assam from the 13th century to the occupation of Assam by the English East India Company in the first quarter of the 19th century.
- Students will acquaint with major stages of developments in the political, social and cultural history of the state during the most important formative period.

GE II: HISTORY OF INDIA FROM THE EARLIEST TIMES TO 1526 (End -80 In-20) •

- Students will acquaint with the general outline of the history of India from the known earliest times to the coming of the Mughals to India in the first quarter of the 16th century.
- Students will acquaint with the comprehensive idea of the developments in all spheres of life during this period.

GE III: HISTORY OF INDIA: 1526 – 1947

- Students will acquaint with the general course of events in the field of political, social, cultural and economic affairs in India from the foundation of the Mughal Empire in 1526 till Independence in 1947.

GE IV: PAPER IV HISTORY OF EUROPE: 1453-1815

- Students will acquaint with the major developments in European politico-economic scenario since the Renaissance till the end of the French Revolution.


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Course outcomes of Department of History

GE V: ENVIRONMENTAL HISTORY

- Students will acquaint with the new discipline of ecological and environmental history. It intends to familiarize them with the relation between ecology and human civilization with particular reference to post independence India.
 - Students will understand the social and economic conflicts emerging due to environmental factors. GE VI: Women in Indian History.
 - Students will acquaint with the Feminist Movements and Women's History, Gender, Patriarchy and Sexual Division of Labour, Oral Narratives, Memoirs, Diaries, Autobiographies etc, Women In Ancient Indian Society and Medieval India, Social Customs and Reform Movements in 19th century India, Sarda Act, 1929 and Hindu Women's Right to Property Act, 1937, Women in Indian Freedom Struggle.
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Programme outcomes and Course outcomes of Department of Mathematics

Department of Mathematics Programme Outcomes:

The program will

- Enhance knowledge on fundamental objects, techniques and theorems.
- The program will help the students to implement mathematical concepts in real life situations.
- The inclusion of computer programming and computer lab makes the students able to formulate programs for numerical evaluation of computational problems.
- They also become familiar with different mathematical software.
- The students are taught on the application of mathematical principles to the problems of financial mathematics and operation research.
- The course acquaints the students with the applications of mathematical principles to the problems of mechanics, space dynamics and relativity etc.

Course outcomes:

Mathematics (General Course):

SEMESTER I

Core 1.1: Differential Calculus

- Students will be able to differentiate functions.
- Students will be able to find tangent normal, curvature, asymptotes etc.

SEMESTER II

Core 2.1: Differential Equations

- Student will acquaint with First order exact differential equations, Integrating factors, rules to find an integrating factor. First order higher degree equations solvable for x , y , p . Methods for solving higher-order differential equations.
- Student will acquaint with basic theory of linear differential equations, Wronskian, and its properties and able to Solving a differential equation by reducing its order.


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Course outcomes of Department of Mathematics

SEMESTER III

Core 3.1: Real Analysis

- Students will be able to analyse the properties of the number line.

SEC 1 (Choose one) SEC 1.1: Logic and Sets

- Students will be able to describe analyze the truth and falsity of a logical statement
- Students will be able to describe differentiate between a logical statement and an ordinary statement.
- Students will be able to describe define and describe various properties of sets.

SEC 1.2: Analytical Geometry

- Students will be able to Sketch parabola, ellipse and hyperbola.
- Students will be able to solve various geometrical problems analytically.

SEC 1.3: Integral Calculus

- Students will be able to learn properties of definite integral, reduction formulae
- Students will be able to find areas, lengths, volume etc by using integration.
- Students will be able to describe various analytical properties of the real number system.

SEMESTER IV

Core 4.1: Algebra

- Students will able to describe various algebraic structures on sets
- Students will able to identify the algebraic structures present in different branches of Sciences.

SEC 2 (Choose one)

SEC 2.1: Vector Calculus

- Students will be able to evaluate differentiation of vector function.
- Students will be able to know gradient, divergence and curl.

SEC 2.2: Theory of Equations

- Students will be able to discuss various properties of algebraic equations, symmetric properties of roots and determination of roots.


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Course outcomes of Department of Mathematics

SEC 2.3: Number Theory

- Students will be able to obtain solutions of Diophantine equations. Students will be able to define number theoretic functions

SEMESTER V

DSE 1A (Choose one) DSE 1A.1: Matrices

- Students will be able to discuss vector space, bases, rank of matrix
- Students will be able to find solution of linear equations using matrices.

DSE 1A.2: Mechanics

- Students will be able to discuss Moment of a force and couple, general equation of equilibrium.
- Students will be able to discuss problems of centre of gravity, simple harmonic motion

DSE 1A.3: Linear Algebra

- Students will be able to discuss vector space, subspace
- Students will be able to Basis.

DSE 1B (Choose one)

DSE 1B.1: Numerical Methods

- Students will be able to know various numerical methods and interpolation formulae
- Students will be able to know Numerical techniques for solving differential equation.

DSE 1B.2: Complex Analysis

- Students will be able to describe analytic function.
- Students will be able to describe complex number system, its differentiation and integration

DSE 1B.3: Linear Programming

- Students will be able to describe various optimization techniques pertaining to linear programming.
- Students will be able to describe linear programming to problems arising out of real life problems.


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Course outcomes of Department of Mathematics

SEC 3(Choose one):

SEC 3.1: Probability and Statistics

- Students will be able to characterize the statistical techniques.
- Students will be able to describe the mathematical theory of probability

SEC 3.2: Portfolio Optimization

- Students will be able to define portfolio optimization and apply them to real world problems

SEC 3.3: Mathematical Modelling

- Students will be able to solve differential equations and linear programming problems used in mathematical modelling.

GE 1(Choose one):

GE 1.1: Mathematical Finance

- Students will be able to build quantitative models of financial mathematics/industries.
- Students will be able to apply models to obtain information of practical value in the financial mathematics.

GE 1.2: Queueing and Reliability Theory

- Students will be introduced with general concepts of queueing system, Measures of performance, Arrival and Service Processes, Single server and multi server models, channels in parallel with limited and unlimited queues- $M/M/1/K$, $M/M/C$. Queues with unlimited service. Finite source queues.
- Students will introduce with the concepts of Application of simple queueing decision model's, Design and control models.


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Course outcomes of Department of Mathematics

SEMESTER VI

SEC 4(Choose one):

SEC 4.1: Boolean Algebra

- Students will be able to define lattice
- Students will be able to identify various lattice properties and apply them to describe switching circuits.

SEC 4.2: Transportation and Game Theory

- Students will be able to model the transportation problem mathematically.
- Students will be able to describe the conflicts among rational agents using game theory.

SEC 4.3: Graph Theory

- Students will be introduced to the fundamentals of Graph Theory and different representations of a Graph for practical applications.

GE 2(Choose one):

GE 2.1: Descriptive Statistics and Probability Theory

- Students will introduce with the concepts of a statistical population and sample from a population, quantitative and qualitative data, nominal, ordinal and time-series data, discrete and continuous data.
- Students will be able to presentation of data by tables and by diagrams, frequency distributions for discrete and continuous data, graphical representation of a frequency distribution by histogram and frequency polygon, cumulative frequency distributions (inclusive and exclusive methods).

GE 2.2: Sample Surveys and Design of Experiments

- Students will introduce with the concepts of Sample Surveys: Concepts of population and sample.
- Students will introduce with the concepts of SRSWR & SRSWOR, determination of sample size.


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Course outcomes of Department of Mathematics

- Students will be able to Design of experiments: Principles of experimentation, uniformity trials, completely randomized, randomized block and Latin square designs.

GE 2.3: Numerical Techniques using MATLAB/ MATHEMATICA

- Students will be able to know the Numerical Techniques using MATLAB/ MATHEMATICA
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Programme outcomes and Course outcomes of Department of Philosophy

Department of Philosophy Programme Outcomes:

This course is

- Designed to expose the students to the general philosophy.
- It explained the basic concept and problems of philosophy.
- This course provides the logical principles to make proper arguments.
- There different scientific methods are procedures are includes in this course and is also concerned with the different views of traditional Indian philosophical school.
- It is concerned with the orthodox and heterodox school, the theory of causation, liberation, law of karma, epistemology, metaphysics, and soul theory.
- It is designed to provide Morden techniques which were help to proof arguments. This course introduces the Indian Philosophical theory of *Brahman*, *Atman*, *Jiva*, *Isvara*, Liberation, *Maya*&etc. and *Pramanas* of *Nyāya* Philosophy, the seven categories of *Vaisesika*.
- It also provides the concept of *Upanisadic* Philosophy. It introduces ethical principles and concepts which will develops moral thinking .Furthermore,
- it also provides the relation of ethics with Sociology and Politics, the relation of ethics with sociology, politics and Religion. It is also enables students to get acquaint with various punishment theories.


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Course outcomes of Department of Philosophy

Course Outcomes:

Philosophy (Non-Honours)

Generic Elective

CO-I: General Philosophy

- This unit concerned with the questions of how one should live (ethics); what sorts of things exist and what are their essential natures (metaphysics); what counts as genuine knowledge (epistemology). This is an introductory module for Philosophy. This field explains the ultimate nature of existence, reality, knowledge and goodness, as discoverable by human reasoning. The problem of metaphysics is important problem in philosophy. It emphasizes the problem of substance, universal, mind and body. This module will help the beginners of philosophy which designed to understand the basic concepts and problem in Philosophy which is definitely improves the interest of the students.

Semester-2

CO-II: Logic and Scientific Method

- This unit deals with logical concept principles. The procedure to make sound arguments. In logic we need proposition to make arguments. So this is help to student to know that what are the methods to testing validity of arguments. The logical problems are there which help to students to make rational judgements.

Semester-111

CO-III: Fundamentals of Indian Philosophy

- The fundamental of this course is to enhance the knowledge of classical Indian Philosophy. There is a division between the two philosophy system Astika & Nastika. According to this the school of Indian Philosophy differed. The law of Karma and the concept of purusartha occupy most important place in philosophy. The metaphysical, epistemological concept and its problem are discussed here. The theory of causation and theory of elevation provides the knowledge to the student about the classical Indian philosophical understanding about the creation of the world.


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Course outcomes of Department of Philosophy

Semester IV

CO-IV: Introduction to Symbolic Logic

- The fundamental of this course is the modern form of the traditional logic. It is the developed form of traditional logic. It consumes less time to prove the validity and invalidity of arguments with the less time which is working by the help of some basic rules and principles.
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Programme outcomes and Course outcomes of Department of Political Science

Department of Political Science

Programme Outcomes :

The program will

- Familiarizes the students with the different aspects of Indian politics and Government, public administration, Indian constitution and international relations.
- The program will help to critically think and analyze dynamics of Indian politics and contemporary political phenomenon.
- It will provide an insight on recent trends of India's foreign policy.
- The program will acquaint students with concepts of human rights and different challenges.
- It will also enable learners to critically think on gender issues and formulation of policies to mitigate problems pertaining to women issues.
- It also supports the ability of thinking politically in varied circumstances.

Course Outcomes:

POLITICAL SCIENCE (HONOURS): SEMESTER I

C.1 Paper-I: Understanding Political Theory

- Students will introduce to the idea of political theory, its history and approaches, and an assessment of its critical and contemporary trends.
- Student will be able to tend to reconcile political theory and practice through reflections on the ideas and practices related to State, Citizenship and Democracy.

C.2 Paper II: Constitutional Government and Democracy in India

- Students will acquaint with the constitutional design of states structures and institutions, and their actual working over time.
- Students will acquaint with the Indian Constitution accommodates conflicting impulses (of liberty and justice, territorial decentralization and a strong union, for instance) within itself.


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Course outcomes of Department of Political Science

Generic Elective Papers

GE-1A: Nationalism in India

- Students will understand the struggle of Indian people against colonialism.
- Students will understand the nineteenth century Indian responses to colonial dominance in the form of reformism and its criticism and continues through various phases up to the events leading to the Partition and Independence.
- Students will understand the conflicts and contradictions by focusing on its different dimensions: communalism, class struggle, caste and gender questions in India.

SEMESTER II

C.3 Paper III – Political Theory-Concepts and Debates

- The student will familiarize with the basic normative concepts of political theory.
- Students will able to develop the skill of critical and reflective analysis and interpretation of social practices through the relevant conceptual toolkit.
- Learners will introduce the with the important debates in the subject which prompt them to consider that there is no settled way of understanding concepts and that in the light of new insights and challenges, besides newer ways of perceiving and interpreting the world.

C.4 Paper IV- Political Process in India

- Students will grow an understanding of the political process thus calls for a different mode of analysis - that offered by political sociology.
- Students will able to maps the working of „modern“ institutions, premised on the existence of an individuated society, in a context marked by communitarian solidarities, and their mutual transformation thereby.
- Students will also familiarize with the working of the Indian state, paying attention to the contradictory dynamics of modern state power.


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Course outcomes of Department of Political Science

Generic Elective Papers

GE-2A: Feminism:

- Theory and Practice Students will be able to explain contemporary debates on feminism and the history of feminist struggles.
- Students will be able to know the history of feminism in the west, socialist societies and in anti-colonial struggles.
- Students will be able to analyze the Indian society, economy and polity with a view to understanding the structures of gender inequalities.

SEMESTER III

C.5 Paper V- Introduction to Comparative Government and Politics

- Students will familiarize with the basic concepts and approaches to the study of comparative politics.
- Students will be able to examine politics in a historical framework while engaging with various themes of comparative analysis in developed and developing countries.

C.6 Paper VI – Perspectives on Public Administration

- Students will introduce to the discipline of public administration in its historical context with an emphasis on the various classical and contemporary administrative theories.
- Students will also be able to describe some of the recent trends, including feminism and ecological conservation and how the call for greater democratization is restructuring public administration.
- It will also provide the students a comprehensive understanding on contemporary administrative developments.

C.7 Paper VII- Perspectives on International Relations and World History

- It will equip students with the basic intellectual tools for understanding International Relations.
- It introduces students to some of the most important theoretical approaches for studying international relations.


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Course outcomes of Department of Political Science

- It provides a fairly comprehensive overview of the major political developments and events starting from the twentieth century.
- Students will learn about the key milestones in world history and equipped with the tools to understand and analyze the same from different perspectives.
- It will make students aware of the implicit Euro - centralism of International Relations by highlighting certain specific perspectives from the Global South.

Generic Elective Papers

GE-3A: Understanding Ambedkar

- Students will introduce with Ambedkar's ideas and their relevance in contemporary India, by looking beyond caste.
- Students will introduce with Ambedkar's philosophical contributions towards Indian economy and class question, sociological interpretations on religion, gender, caste and cultural issues; ideas on politics such as concepts of nation, state, democracy, law and constitutionalism are to be pedagogically interrogated and interpreted.
- Students will able to critically engage themselves with the existing social concerns, state and economic structures and other institutional mechanisms.
- Students will able to strengthen their creative thinking with a collective approach to understand ongoing social, political, cultural and economic phenomena of the society.

SEMESTER IV

C.8Paper VIII- Political Processes and Institutions in Comparative Perspective

- Students will be trained in the application of comparative methods to the study of politics. They will introduce with some of the range of issues, literature, and methods that cover comparative political.


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Course outcomes of Department of Political Science

C.9 Paper IX- Public Policy and Administration in India

- It will provide an introduction to the interface between public policy and administration in India.
- Students will introduce with the issues of decentralization, financial management, citizens and administration and social welfare from a non-western perspective.

C.10 Paper X- Global Politics

- It will introduce students to the key debates on the meaning and nature of globalization by addressing its political, economic, social, cultural and technological dimensions in keeping with the most important debates within the globalization discourse, it imparts an understanding of the working of the world economy, its anchors and resistances offered by global social movements while analyzing the changing nature of relationship between the state and trans-national actors and networks.
- Students will also be able to describe key contemporary global issues such as the proliferation of nuclear weapons, ecological issues, international terrorism, and human security before concluding with a debate on the phenomenon of global governance.

Generic Elective Papers

GE-4A: Politics of Globalization

- Students will understand the process of globalization from a political perspective.
- Students will understand the issues and processes of globalization based on critical analysis of the various anchors and dimensions of globalization.

SEMESTER V

C.11 Paper XI- Classical Political Philosophy

- Students will familiarize with Greek antiquity and the manner in which the political questions were first posed.
- Students will be able to know the contribution of Machiavelli as an interlude inaugurating modern politics followed by Hobbes and Locke.


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Course outcomes of Department of Political Science

C.12 Paper XII- Indian Political Thought-I

Students will introduce with the specific elements of Indian Political Thought spanning over two millennia.

They will be able to know individual thinkers whose ideas are however framed by specific themes. It will provide a sense of the broad streams of Indian thought while encouraging a specific knowledge of individual thinkers and texts.

Discipline Specific Electives

DSE-1.A CONTEMPORARY POLITICS IN ASSAM

- The students will acquaint with the politics of contemporary Assam and its neighbouring states.

DSE-1B: Dilemmas in Politics

- Students will be able to explore, analyze and evaluate some of the central issues, values and debates in the contemporary world that has a bearing on normative political inquiry.

DSE-2A Human Rights in a Comparative Perspective

- Students will build an understanding of human rights through a study of specific issues in a comparative perspective.
- Students will be able to see how debates on human rights have taken distinct forms historically and in the contemporary world.

SEMESTER VI

1.13 Paper XIII- Modern Political Philosophy

- Students will be able to expose the manner in which the questions of politics have been posed in terms that have implications for larger questions of thought and existence.

6.14 Paper XIV- Indian Political Thought-II

- Students will introduce with a wide span of thinkers and themes that defines the modernity of Indian political thought.
- Students will be able to know the general themes that have been produced by thinkers from varied social and temporal contexts through some selected extracts from original texts.


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Course outcomes of Department of Political Science

Discipline Specific Electives

DSE-3A: Public Policy in India

- This course provides a theoretical and practical understanding of the concepts and methods that can be employed in the analysis of public policy.
- Students will be able to use the methods of political economy to understand policy as well as understand politics as it is shaped by economic changes.
- The students will be able to seek an integrative link to their understanding of political science, economic theory and the practical world of development and social change.

DSE 3B: Understanding Global Politics

- It will provide the students a basic yet interesting and insightful way of knowing and thinking about the world around them.
- Students will be able to explore how and why they need to think about the 'world' as a whole from alternate vantage points.

DSE 4A: India's Foreign Policy in a Globalizing World

- Students will learn about the domestic sources and the structural constraints on the genesis, evolution and practice of India's foreign policy.
- Students will learn about the integral linkages between the 'domestic' and the 'international' aspects of India's foreign policy by stressing on the shifts in its domestic identity and the corresponding changes at the international level.
- Students will be able to know about India's role as a global player since independence.

DSE 4B: Understanding South Asia

- Students will introduce with the historical legacies and geopolitics of South Asia as a region.
- It will provide an understanding of political regime types as well as the socioeconomic issues of the region in a comparative framework.
- It also appraises students of the common challenges and the strategies deployed to deal with them by countries of South Asia.


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Programme outcomes and Course outcomes of Department of Sociology

Department of Sociology Programme Outcomes:

- **Critical Thinking:** The programme seeks to develop in students the sociological knowledge and skills that will enable them to think critically and imaginatively about society and social issues.
- **Sociological Understanding:** The ability to demonstrate sociological understandings of phenomena, for example, how individual biographies are shaped by social structures, social institutions, cultural practices, and multiple axes of difference and inequality.
- **Written and Oral Communication:** The ability to formulate effective and convincing written and oral arguments.
- **Better understanding of real life situation:** The ability to apply sociological concepts and theories to the real world and ultimately their everyday lives.
- **Analytical thinking:** Field survey and preparation of dissertation paper is an inseparable part of Sociology Hons Programme. Students have to collect primary data for census as well as his/her research topic and analyse the data to draw conclusions. So, qualitative and quantitative analytical skills are enhanced.
- **Observation power:** a sensible observation power is necessary to identify the research problems in field study. So a perception about human society slowly grows up.
- **Communication skills and Social interaction power:** Students of Sociology stream have to work beyond the class room boundary at the time of field study activities. As a result good communication skill develops while interacting with local people.
- **Ethical and Social Responsibility:** Students have to learn about institutions, folkways, mores, culture, social control, social inequality, population composition, population policy, society and culture of India. All these helps to instill among the students of Sociology a sense of ethical and social responsibility.
- **Professional and Career Opportunities:** Students will have the opportunity to join professional careers in Sociology and allied fields. Sociology provides an intellectual background for students considering careers in business, social services, public policy, government service, nongovernmental organizations, foundations, or academia. This programme lays foundation for further study in Sociology, Social work, Rural Development, Social Welfare and in other allied subjects.


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Course outcomes of Department of Sociology

Course Outcomes:

SOCIOLOGY(HONOURS) SEMESTER I

C-1: INTRODUCTION TO SOCIOLOGY – I

- The student will introduce diverse to divers form of trainings and capabilities.
- Students will introduce to a sociological way of thinking.
- It also provides a foundation for the other more detailed and specialized courses in sociology.

C-2: Sociology of India – I

- Students will introduce to the processes and modes of construction of knowledge of India.
- Students will familiarize with the key concepts and institutions which are useful for the understanding of Indian society.

Generic Elective

G E 01: Indian Society: Images and Realities

- The student will introduce with Indian society.

SEMESTER II

C-3: Introduction to Sociology II

- Students will be able introduce with sociological thought.
- Students will be able to know how over a period of time thinkers have conceptualized various aspects of society.
- It will also provide a foundation for thinkers in the other papers

C-4: Sociology of India – II

- Students will introduce to the variety of ideas and debates about India.
- Students will be able to engage with the multiple socio-political forces and ideologies which shape the terrain of the nation.

GE 02: Family and Intimacy

- Students will able to know the concept of family.
- Students will introduce to a range of contemporary concerns pertaining to this institution from a sociological perspective and with an interdisciplinary orientation.


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Course outcomes of Department of Sociology

SEMESTER III

C-5: Political Sociology

- The students will introduce to some major theoretical debates and concepts in Political Sociology, while situating these within contemporary political issues.
- Students will be able to developing a comparative understanding of political relationships through themes such as power, governance and state and society relationships.
- Students will be able to grow understanding of religious over individual religions.
- Students will be able to know the linkage between social and religious through different registers mentioned in the outline.

C-7: Sociology of Gender

- The students will introduce with gender as a critical sociological lens of enquiry in relation to various social fields.
- Students will also be able to interrogate the categories of gender, sex, and sexuality.

GE 03: Rethinking Development

- Students will grow the ideas of development from a sociological perspective.
- Students will introduce with the different approaches to understanding development and traces the trajectory of Indian experience with development from an interdisciplinary perspective.

SEMESTER IV

C-8: Economic Sociology

- Students will be able to grow understanding of the social and cultural bases of economic activity.
- Students will be able to know the significance of sociological analysis for the study of economic processes in local and global contexts.

C-9: Sociology of Kinship

- Students will be able to know the general principles of kinship and marriage by reference to key terms and theoretical statements substantiated by ethnographies.
- Students will be acquaint with the trajectories and new directions in kinship studies.


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Course outcomes of Department of Sociology

C-10: Social Stratification

- Students will acquaint with Sociological Study of Social Inequalities.
- Students will acquaint with principal theoretical perspectives on and diverse forms of Social inequality in articulation with each other.
- GE 04: Gender and Violence
- Students will acquaint with the logic of violence, awareness of its most common forms.
- Students will be equip with sociologically.

SEMESTER V

C-11: Sociological Thinkers –I

- Students will acquaint with the classics in the making of the discipline of sociology through selected texts by the major thinkers.

C-12: Sociological Research Methods – I

- Students will introduce with the methodologies of sociological research methods.
- Students will acquaint with some elementary knowledge of the complexities and philosophical underpinnings of research.

DSE Papers (Choose Two)

DSE 01: Urban Sociology

- Students will be able to expose to key theoretical perspectives for understanding urban life in historical and contemporary contexts.
- Students will be able to relate to the complexities of urban living with case studies from India and other parts of the World.

DSE 04: Sociology of Work

- Students will be able to introduce with the idea that though work and production have been integral to societies through time, the origin and spread of industrialization made a distinct rupture to that link.
- Students will be able to know how values and ideals of pluralized industrialism(s) have caused an


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Course outcomes of Department of Sociology

SEMESTER VI

C-13: Sociological Thinkers II

- Students will introduce with post-classical sociological thinking through some original texts.

C-14: Research Methods II

- Students will be able to know that how research is actually done.
- Students will be able to grow some elementary knowledge on how to conduct both, quantitative and qualitative research through formulating research design, methods of data collection, and data analysis.

DSE Papers (Choose Two)

DSE 05: Sociology of Health and Medicine

- Students will introduce with the sociology of health, illness and medical practice by highlighting the significance of socio-cultural dimensions in the construction of illness and medical knowledge.

DSE 06: Indian Sociological Traditions

- Students will introduce with the Sociologist in India have primarily been engaged with issues of tradition and modernity, caste, tribe and gender.
- Students will introduce with perspectives of key Indian sociologists on some of these issues.

DSE 07: Visual Culture

- Students will introduce with the construction of 'seeing as a social process'.
- Students will be able to engage with case studies covering various visual environments which allow a scope to contextualize everyday visual culture within larger social debates around power, politics, identity and resistance.

DSE 08: Reading Ethnographies

- Students will be able to read ethnographic texts in their entirety.

DSE 09: Societies in North East India

- Students will be able to grow a sociological understanding of Societies in North East India.
- Students will be able to grow a sociological understanding of the specificity of world views.


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2.6	Program Outcomes and Course Outcomes Of B.sc Courses

Program Outcomes of Department of Botany

The main objective of the subject is

- To provide students a holistic understanding of the subject.
- The subject will enhance knowledge on Taxonomy, Physiology, Morphology, Anatomy, Reproduction, Ecology and Evolution of different plant species. Besides, the subject encompasses Microbiology, Pathology, Biotechnology, Molecular Biology, Bioinformatics and Bioinstrumentation.
- It will also acquaint the students with the basic knowledge of tools and techniques in biological science.
- The practical and science projects will enhance knowledge in experimental skills for future research and allied applications.


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Course Outcomes of Department of Botany

S.No	Name of the course	Paper) Course Code	. (Course Outcome
1	Core Course I: Microbiology and Phycology	BC101T	The objective of this course is to provide knowledge to the students on various forms of microbes and algae - their characteristics and economic importance.
2	Core Course II: Biomolecules and Cell Biology	BC102T	The objective of this course is to expose the students on molecular organizations life and also discusses cellular and molecular processes of life.
3	Core Course III: Mycology and Phytopathology	BC203T	The objective of this course is to expose the students on the fungal world, different fungal diseases; their economic importance etc.
4	Core Course IV: Archegoniate	: BC204T	The objective of this course is to expose the students on Bryophyte, Gymnosperms and Fossil Plants
5	Core Course V: Anatomy of Angiosperms	BC305T	Core Course V: Anatomy of Angiosperms
6	Core Course VI: Economic Botany	BC306T	The objective of this course is to expose the students on various economically important plants and plant products


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Course Outcomes of Department of Botany

7	Core Course VII: Genetics	BC307T	The objective of this course is to impart knowledge of the principles of heredity and different mechanisms of inheritance
8	Core Course VIII: Molecular Biology	: BC408T	The objective of this course is to expose the students to Biological Macromolecules and various processes involved with these macromolecules
9	Core Course IX: Plant Ecology and Phytogeography	BC409T	The objective of this course is to expose the students to interaction of plant with its surroundings and also the geographic distribution of different plants
10	Core Course IX - Practical: Plant Ecology and Phytogeography	BC409T	The objective of this course is to expose the students to interaction of plant with its surroundings and also the geographic distribution of different plants
11	Core Course X: Plant Systematics	BC410T	The objective of this course is to expose the students to identification, classification and nomenclature of higher plants
12	Core Course XI: Reproductive Biology of Angiosperms	BC511T	The objective of this course is to expose the students to the process and mechanisms of plant reproduction
13	Core Course XII: Plant Physiology	BC512T	The objective of this course is to expose the students to different physiological processes in plant life
14	DSE Course – II: Bioinformatics	: BD502T	The objective of this course is to expose the students to the application of computation tools in solving Biological problems
15	DSE Course – IV: Industrial and Environmental Microbiology	BD504T	The objective of this course is to expose the students to application of different microbes for industrial purposes and also their role in the environment


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Course Outcomes of Department of Botany

16	Core Course XIV: Plant Biotechnology	BC614T	The objective of this course is to expose the students to application of modern tools and techniques in Biology
17	Core Course XIII: Plant Metabolism	BC613T	The objective of this course is to expose the students to various metabolic processes involved with plant life
18	DSE Course – V: Plant Breeding	BD605T	The objective of this course is to expose the students to different methods of plant improvement and breeding techniques


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Program Outcomes of Department of Chemistry

The program will

- Create interest on Physical Chemistry, Inorganic Chemistry and Organic Chemistry.
- These will enable the learners to acquire knowledge on concepts, techniques and facts.
- The program will enhance practical skills vis-à-vis theoretical aspects of different chemical phenomenon.
- The learners will be acquainted with instruments used in chemistry.
- The course will also develop the knowledge on different theoretical tools used for the study of chemistry.


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Course Outcomes of Department of Chemistry

1 st Semester	C-1	Inorganic Chemistry	To understand inorganic chemistry in their advanced treatment
	C-2	Physical Chemistry	To understand physical chemistry in their advanced treatment
2 nd Semester	C-3	Organic Chemistry	To understand organic chemistry in their advanced treatment
	C-4	Physical Chemistry	To provide the students importance of chemical thermodynamics, chemical equilibrium solution and colligative properties and system of variable composition.
3 rd S Semester	C-5	Inorganic Chemistry	To understand general principles of metallurgy acid and base and the importance of S and P block elements, Noble gases, and inorganic polymers
	C-6	Organic Chemistry	To understand the importance of halogenated hydrocarbons, alcohols, phenols, ethers, epoxides, carbon compounds, carboxylic acids and sulphur containing compounds.
	C-7	Physical chemistry	This course is designed to impart the ideas of phase equilibrium, chemical kinetics, catalysis, and surface chemistry
4 th S Semester	C-8	Inorganic chemistry	To understand coordination chemistry, bioinorganic chemistry, transition elements, lanthanides and actinides.
	C-9	Organic Chemistry	This papers deals with nitrogen containing functional groups, polynuclear aromatic hydrocarbons, heterocyclic compoudns alkaloids and terpenes.
	C-10	Physical Chemistry	To understand the concept of conductance electrochemistry, electrical and magnetic properties of atoms and molecules.


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Course Outcomes of Department of Chemistry

5 th S Semester	C-11	Organic chemistry	To provide importance of nucleic acids amino acids, peptides, proteins, enzymes, lipids and pharmaceuticals compounds.
	C-12	Physical chemistry	To have knowledge on quantum mechanics with special reference to classical mechanics, bonding and photochemistry and the interaction of electromagnetic radiations with matter in various forms.
	DSE -I	Analytical methods in chemistry	To deals with different analytical methods in chemistry
	DSE -II	Green chemistry	To acquire knowledge on green chemistry
6 th S Semester	C-13	Inorganic Chemistry	This paper deals with theoretical principles in qualitative analysis, organometallic compounds, reaction kinetics and mechanism and catalysis by organometallic compounds.
	C-14	Organic chemistry	This Papers highlights the concept of organic spectroscopy such as UV, IR, NMR and to understand different topics like carbohydrates, dyes and polymers.
	DSE -I	Inorganic materials of Industrial importance	This papers deals with inorganic materials of industrial importance
	DSE -II	Project work	The main objective of this papers is to carry out project work and have to submit the project work in the form of dissertation by the students


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Programme Outcomes of Department of Mathematics

The program will

- Enhance knowledge on fundamental objects, techniques and theorems.
- The program will help the students to implement mathematical concepts in real life situations.
- The inclusion of computer programming and computer lab makes the students able to formulate programs for numerical evaluation of computational problems.
- They also become familiar with different mathematical software.
- The students are taught on the application of mathematical principles to the problems of financial mathematics and operation research.
- The course acquaints the students with the applications of mathematical principles to the problems of mechanics, space dynamics and relativity etc.


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Course Outcomes of Department of Mathematics

1 st Sem.	C 1	Calculus(p)	Apply Calculus in real life problems, Formulate mathematical models
	C 2	Algebra	Describe various algebraic structures on sets, Identify the algebraic structures present in different branches of sciences.
2 nd Sem.	C 3	Real analysis	Identify the properties of the number system, Describe various analytical properties of the real number system.
	C 4	Differential equation (p)	Use the techniques in various mathematical equations . apply these techniques in various mathematical models used in real life problem
3 rd Sem.	C 5	Theory of real function	Discuss limit, continuity , and differentiability of real valued function. Expand functions in series and different form of remainders.
	C 6	Group Theory I	Describe various group structure on sets , Identify the group structures present in different branches of sciences.
	C 7	PDE and Systems of ODE(P)	Make mathematical formulations and their solutions of various physical problems.


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Course Outcomes of Department of Mathematics

4 th Sem.	C 8	Numerical Methods (p)	• Discuss various numerical methods and interpolation formulae • Apply numerical techniques for solving differential equation
	C 9	Riemann Integration and Series of Function	Riemann integration, improper integrals • Differentiation and integration of power series
	C 10	Ring Theory and Linear Algebra I	Describe various ring structures on sets. • Solve the system of linear equations.
5 th Sem.	C11	Multivariate Calculus	Extend the concepts from one variable calculus to function of several variables • Demonstrate the ability to think critically and solving application of real world problems involving double
	C 12	Group Theory II	Apply results from preliminary concepts to solve contemporary problems. • Apply in communication theory, electrical engineering, computer science and cryptography
	DSE 1.1	Analytical Geometry	• Sketch parabola, ellipse and hyperbola • Solve various geometrical problems analytically.
	DSE 2.3	Number Theory	• obtain solutions of Diophantine equations • define number theoretic functions


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Course Outcomes of Department of Mathematics

6 th Sem.	C 13	Metric Spaces And Complex Analysis	<ul style="list-style-type: none">• various properties of metric spaces• complex number system, its differentiation and integration
	C14	Ring Theory And Linear Algebra II	<ul style="list-style-type: none">• Apply theorems proof solution techniques to solve real world problems• Find the matrix associated with a linear transformation w.r.t. given bases and can understand the relationship between operations of linear transformations and corresponding matrices.
	DSE 3.2	Linear Programming	<ul style="list-style-type: none">• describe various optimization techniques pertaining to linear programming.• apply linear programming to problems arising out of real life problems.
	DSE 4.1	Mathematical Methods	<ul style="list-style-type: none">• Construct mathematical models or real world problems.• Solve real world problems through the studied theories.


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Program Outcomes of Department of Physics

The program will

- Develop the basic understanding on mathematical physics, quantum mechanics, statistical mechanics, thermodynamics, electrodynamics, solid state physics, atomic and nuclear physics, electronics etc.
- The program will help in developing scientific intuition and ability to solve scientific problems using theoretical or experimental concepts and techniques.
- The student will be acquainted with the general physics like laws of motion, sound waves, electrical current, circuits, nuclear physics etc. and mathematical techniques to solve physical phenomenon's.


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Course Outcomes of Department of Physics

1 st Sem	C-1	Mathematical Physics	Mathematical Physics refers to the development of mathematical methods for application to problem in Physics.
	C-2	Electricity and Magnetism	Mechanics is the area of mathematics and Physics concerned with the motion of physical objects, more specially the relationship among force, matter and motion.
2 nd Sem	C-3	Electricity and Magnetism	Electricity and Magnetism are separate yet interconnected phenomena associated with the electromagnetic force together they formed the basis for electromagnetism.
	C-4	Waves and optics	In physics, physical optics or wave optics is the brunch of optics that studies interference, diffraction, polarization and other phenomena for Which the ray approximation of geometric optics not valid.
3 rd Sem	C-5	Mathematical Physics	The emphasis of the course is an application in solving problems of interest to Physicists. Students are to be examined on the basis of problem seen and unseen.
	C-6	Thermal Physics	Thermal Physics is the combined study of thermos dynamics, statistical mechanics and kinetic theory of gases. It is designed for Physics student And functions to provide a general introduction to each of three core heat related subject.
	C-7	Digital system and application	Digital system aredesigned to store process and communicate information in digital form.


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Course Outcomes of Department of Physics

4 th Sem	C-8	Mathematical Physics-III	Mathematical Physics branch of mathematical analysis that emphasizes tools and techniques of Particular use to Physicists.
	C-9	Elements of Modern Physics	Modern Physics includes Quantum Mechanics, Special relativity, atomic Physics and nuclear Physics. Modern physics is concerned with high Velocities, small distances and very high energies.
	C-10	Analog system and Applications	Analog system is a system in which an electrical value such as voltage or current represents something in the physical world
5 th Sem	C-11	Quantum Mechanics and Applications	At the presents stage the human knowledge, quantum mechanics can be regarded as the fundamental theory of atomic phenomena. The knowledge of quantum mechanics is basic to the study of modern physics.
	C-12	Solid State Physics	Solid state Physics is the study of rigid matter or solid, through methods such as quantum mechanics, crystallography, electromagnetism. It is The largest branch of condensed matter physics.
	DSE-I	Experimental Techniques	This course is designed to aid student in the Development to force practical skills in Physics.
	DSE-II	Communication Electronics	Communication electronics is the specialized field concerned with the use of electronic devices and systems for the acceptance process, processing Storage display analysis and transfer of information.


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Course Outcomes of Department of Physics

6 th Sem	C-13	Electromagnetic Theory	Electromagnetic theory covers the basic electro magnetism , experimental basis electrostatics magnetic field of steady current motional emf and electromagnetic induction.
	C-14	Statistical Mechanics	Statistical mechanics is a mathematical framework that applies statistical methods and probability theory to large assemblies of microscopic entities.
	DSE-III	Electrical Circuits and Network skills	The aim of the course is to enable the students to design and trouble shoots the electrical circuits, Network and appliances through hands on mode.
	DSE-IV	Basic instrumentation skills	This course is to get exposure with various aspects of instruments and their uses through hence on mode. Experiments are to be done one in continuation This course is to get exposure with various aspects of instruments and their uses through hence on mode. Experiments are to be done one in continuation of continuation Of the topics.


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Program Outcomes of Department of Statistics

After completion of the B.Sc. syllabus in the Dept. of Statistics, the students are able to

- Enter in a promising professional life even after graduation and also have a platform for pursuing higher studies leading to post-graduate or doctorate degrees.
- This programme also formulates the basis of the growth of almost all the disciplines of the contemporary world .
- Also provide an array of non-Traditional employment avenues ranging from that of sport analysts to business analysts.


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Course Outcomes of Department of Statistics

1 st Sem	C-101	Descriptive statistics	Students are able to develop knowledge of the various aspects and tools of Descriptive Statistics.
	C-102	Calculus	To impart basic background knowledge of essential mathematics for Statistics.
2 nd Sem	C-201	Probability and Probability Distributions	To provide basic knowledge of Probability and Distribution.
	C-202	Algebra	To impart basic background knowledge of essential Mathematics, i.e., Matrix, Determinants, Equations, etc for Statistics.
3 rd Sem	C-301	Sampling Distribution	To impart basic knowledge of Order Statistics, Limit Laws and exact sampling distribution of Statistics.
	C-302	Survey Sampling and Indian official Statistics	To develop knowledge of various concepts of methodology of sample survey and Indian official statistics.
	C-303	Mathematical Analysis	To impart basic knowledge of Mathematics i.e., Real analysis, Numerical Analysis, etc, which are used in Statistics.
4 th Sem	C-401	Statistical Inference	To acquire knowledge of methods and properties of estimations and principles of test of significance and sequential analysis.
	C-402	Linear Model	To acquire the knowledge of various linear models and analysis of variance which are used in experimental design.
	C-403	Statistical Quality Control	To impart basic concept and methodology of statistical quality control and Acceptance Sampling Plan.


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Course Outcomes of Department of Statistics

5 th Sem	C-501	Stochastic Process and Queuing Theory	To acquire knowledge of bivariate probability distribution, stochastic process, Markov Chains, Poisson Process and most interesting statistics used in Queuing system.
	C-502	Statistical Computing using C-Programming	To acquire basic basic background knowledge of statistical computing using C-Programming.
	DSE-2	Time Series Analysis	To impart basic concept and methodology of time series analysis and various components of time series.
	DSE-4	Demography and Vital Statistics	To acquire knowledge of demography, various population theories and measurement of fertility and mortality rate.
6 th Sem	C-601	Design of Experiments	To develop the knowledge of various experimental design and Factorial Experiments.
	C-602	Multivariate Analysis and Non-parametric methods	To acquire the knowledge of bivariate normal distribution, multivariate distribution and some parametric and non-parametric tests.
	DSE-3	Econometrics	To impart basic concepts of econometric models, Multicollinearity and Autocorrelation, etc.
	DSE-8	Project Work	Students are able to acquire knowledge on how to write and present a statistical report, under the supervision of a faculty, on some areas of human interest. The project work provides hands on training to the students to deal with data emanating from some real life situations and propel them to dwell on some theory or relate it to some theoretical concepts.


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Program Outcomes of Department of Zoology

The program will

- Familiarize the students with Animal classifications, Genetics, Biochemistry, Biodiversity, Public Health and Hygiene, Animal physiology, Endocrinology, Apiculture etc.
- The program will improve the knowledge and perceptions pertaining to animal behavior, its adaptations and evolutionary aspects.
- The program will enhance technical skill in biological sciences with an opportunity for future research.


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Course Outcomes of Department of Zoology

1 st Sem	C-101	Core Course – I Non – Chordates: Protista to Pseudocoelomates	The objective of this course is to provide knowledge to the students on various forms, structure, their habitats, characteristics and their economic importance.
	C-102	Core Course – II Principle of Ecology	The objective of this course is to expose the students in interaction of animals with the surrounding environment and also acquire the geographical knowledge.
2 nd Sem	C-203	Core Course – III Non - Chordates: Coelomates	The objective of this course is to provide knowledge of coelomate animals with their various forms, their habitat and also their economic importance.
	C-204	Core Course- IV Cell biology	The objective of this course is to give the knowledge about the structural organization of the body of animals and also to provide the knowledge function of cells, cell cycle etc.
3 rd Sem	C-305	Core course – V Diversity of Chordates	The objective of this course is to provide knowledge of vertebrate animals along with their structural organization, functions of different system
	C-306	Ore Course - VI Physiology : Controlling & Co- ordinating system	The objective of this course is to give the knowledge of different system of body for controlling the body of living beings.
	C-307	Core Course - VII Fundamentals of Biochemistry	The objective of this course is to give the knowledge of chemistry related to the animals body.
4 th Sem	C-408	Core Course- Viii Comparative anatomy	The objective of this course is to give the knowledge about the comparison of different system.
	C-409	Core Course – IX Physiology : The life sustaining system	The objective of this Course is to provide the knowledge to the student's about the different life sustaining system of animals body.
	C-410	Core Course – X Biochemistry of metabolic process	The main objective of this course is to give the knowledge of what are the roles of biological process in metabolic activity of the body of living beings


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Course Outcomes of Department of Zoology

5 th Sem	C-511	Core Course – XI Molecular Biology	The objective of this course to give the role knowledge of different molecules in different processes
	C-512	Core course XII Principles of Genetics	The objective of this course is to give the knowledge to heredity knowledge to students.
	DSE-504	Core course: DSE –I Biology of Insecta	To give the knowledge about insect world and the economic importance
	DSE-506	Core course – DSE II Endocrinology	Give the knowledge about the coordinating system of animals Body.
6 th Sem	C-613	Core Course – XIII Development Biology	The objective of this course is to give the knowledge of embryonic development of the animals.
	C-614	Core Course – XIV Evolutionary Biology	The objective of the course is to acquire the knowledge of evolution of animals how they developed as today's form

NB: - There are a practical paper against each theory paper also to be studied.


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METRIC NO.	Programme outcomes and Course outcomes of SEC
6.2.1	

Programme outcomes and Course outcomes of SEC

NATIONAL SERVICE SCHEME (NSS)

Programme outcomes:

- To enable NSS volunteers at the undergraduate level to undergo a formal course of study so as to supplement their voluntary work.
- To equip NSS volunteers with some necessary skills to volunteer better.
- To help NSS volunteers to look for other avenues of livelihood in the form of entrepreneurial ventures.

Course outcomes:

Course Code: NSS01

Course Title: NSS and Youth Development

- To help learners know about NSS in the context of youth, community and voluntary service.
- To appreciate the importance of health, hygiene and sanitation for a healthy nation.
- To propagate Yoga as a way of healthy living.


Course Code: NSS02

Course Name: NSS in Social-economic Development

- To help learners know about environmental issues and disaster management.
- To understand the role of entrepreneurship in social development.
- To learn documentation and reporting.


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Programme outcomes and Course outcomes of SEC

VERMICOMPOST TECHNOLOGY

Programme Outcomes:

- It acquaints the readers to get engaged in the process of making Vermicompost, to make fruitful Vermicompost with necessary details of elements for production.
- It provides the students a details study of components .

Course outcomes:

Course Title: Basics of Vermicompost

Course Code: SEC-I

- It enables the readers with the knowledge of Vermicompost, its culture, history, economic importance including environmental issues.
- It helps the readers with a detail knowledge of various species of worms and its reproduction cycle.
- It enable the reader to have a sound knowledge on ideas of ph levels and climate factors.


Course Title: Vermicompost Technology

Course Code: SEC-II

- Polish the skills of self production in small scale production and commercial scale production.
- Make one a avid objectifier of worms .
- Offers one to be an entrepreneur.


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Programme outcomes and Course outcomes of SEC

TRAVEL AND TOURISM MANAGEMENT

Programme Outcomes:


- It acquaints the readers with different ideas related to Tourism, different scopes related to Tourism.
- It acquaints the readers with principles of Tourism.
- It enables the readers to have a sound and polished level of communicative skill to make the conversation smooth and understandable.

Course Outcomes:

- It hone the skills of communication of the readers.
- It enables the readers to get accustomed with Foreigners easily because of smooth conversation skills.
- It enmeshes the readers with knowledge related to Tourism.
- It helps the readers to develop the art of planning according to varied circumstances.


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Programme outcomes and Course outcomes of SEC

SKILL ENHANCEMENT COURSE ON LIBRARY AND INFORMATION SCIENCE

Programme Outcomes:


- This course is offer for undergraduates under Dibrugarh university .
- It Offers a study on different techniques used inside a library to present the visitors/readers a well organised setup .
- It also acquaints one to the several norms related to library.

Course Outcomes:

- To foster a basic understanding on academic library system and services.
- To acquaint with the enormous resources available on various domain of Knowledge.
- To acquaint with the exponential growth of information & ensuring smoother access.
- To enhance the information search skill and to make student efficient enough to identify qualitative information resources for study and research.


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METRIC NO.	Programme outcomes and Course outcomes of AECC
6.2.1	

Programme outcomes and Course outcomes of AECC

ABILITY ENHANCEMENT COURSES:
AECC 1: SEMESTER 1
FOR BOTH BA AND BSC PURSUERS
ENGLISH COMMUNICATION
PROGRAMME OUTCOMES:


- Offers to help the readers hone their skills of English communicative and conversation skills.
- Offers to have good English writing skills for both official and unofficial purposes.
- Offers to improve public speaking.

COURSE OUTCOMES:

- The purpose of this course is to introduce students to the theory, fundamentals and tools of communication and to develop in them vital communication skills which should be integral to personal, social and professional interactions.
- Enhance the readers ability of conversation in public domain with the help of various modes of communication.
- Hone participatory skills of the learners .


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Programme outcomes and Course outcomes of AECC

AECC 2: SEMESTER 1 ALTERNATIVE ENGLISH

PROGRAMME OUTCOMES:


- To provide Modern Indian Languages for readers according to their choices .
- Offers the readers to acquaint with varied prose and poetry pieces of both Eastern and Western Literary Canon.

COURSE OUTCOMES:

- It helps the readers to engage in varied prose and poetry pieces.
- It helps the readers with moral lessons with the help of literary works and the ability to analyse and evaluate the details of a text accordingly.


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Kenduguri, Jorhat-785010 (Assam)
Affiliated by Dibrugarh University

Programme outcomes and Course outcomes of AECC

AECC 3: SEMESTER 2

FOR BOTH BA AND BSC PURSUERS ENVIRONMENTAL SCIENCE

PROGRAMME OUTCOMES:


- Offer a detailed overview of various ideas related with environment such as natural resources, biodiversity and its conservation, ecosystem, environmental problems, social issues related to environment.
- Throw light on the impact of human population on environment.

COURSE OUTCOMES:

- The purpose of this course is to create awareness among the learners and teachers regarding environment and its conservation.
- The purpose of this course is to bridge the gap between theory and practical act of the conservation of environment.


Pranjal Dutta
Coordinator, IQAC




Dr. Dulen Saikia
Principal



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Programme outcomes and Course outcomes of AECC

COMMUNICATIVE ASSAMESE PROGRAMME OUTCOMES


- Offers to help the readers hone their skills of Assamese communicative and conversation skills.
- Offers to have good Assamese writing skills for both official and unofficial purposes.
- Offers to improve public speaking

COURSE OUTCOMES:

- The purpose of this course is to introduce students to enlarge their vocabulary, use of varied symbols and correct syntax formation.
- Enhance the readers ability of conversation in public domain through the notion OF Intensity of voice, velocity of speech, vibration of voice, clarity of pronunciation, Correctness of pronunciation, temporary pauses.
- Hone participatory skills of the learners.


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2.6.1	

COURSE OUTCOME

B. Voc

The candidates will acquire details know how the ground level activities involved in tea plantations right from Land preparation,nursery preparation , vegetative propagation methods , knowledge on fertilizer ,skiffing& Pruning,INM,IPM,processing of different teas , different manufacturing process involved in tea proceedings, statutory compliance in tea Estate along with detailed theorey the candidates will be performing internship in commercial tea garden in order to aquint themselves to different working environment in a tea estates and to know his role from managerial point of view

1st Semester

Paper S 1.1 – This unit will help the students in understanding the role of tea in Indian economy along with getting valuable information on history & Scope of tea cultivation in Assam & globally

Paper S 1.2- This unit will help the students in understanding the various agro climatic requirements in propagation of Tea plants along with getting various information on different Schemes of Tea Board.

Paper S 1.3- This unit will help the student in understanding various plantation managements techniques like plucking,prunning,bringing up of young tea further the students will develop different supervisol skills required for execution of Tea estate duties.


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2nd Semester

Paper S 2.1- This unit will help the students in understanding the various management practices related to soil health and also students will be able to understand the importance of shade tree in Tea estates.

Paper S 2.2-This unit will help the students in acquiring knowledge related to different plant protection measures along with developing skills in identification of major tea pests,diseases & weeds.

Paper S 2.3- This unit will help the students to operate various spraying machines along with understanding their utility and also operating it efficiently.

3rd Semester

Paper S 3.1- This unit will help the students in developing skills & details of the processes involved in relation to manufacturing process of different teas viz black tea, orthodox tea, green tea &olong tea.

Paper S 3.2- This unit will help the students in understanding the steps involved in management of made tea in order to improve the quality of made tea.

Paper S 3.3- This unit will help the students in understanding the various plantation acts & rules applicable in Tea industry


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4th Semester-

Paper S 4.1- This unit will help the student in estimating budget for every financial year and also understanding how to allocate funds under different heads.

Paper S 4.2- This unit will help the students in understanding elaborately on different plantation development schemes so that it will help them in materializing different schemes in their jobs or entrepreneurship

Paper S 4.3- This unit will help the students in managing different factory activities along with administrative functions in order to run the estate smoothly.

5th Semester

Paper S 5.1- This unit will help the students in getting knowledge in different tea plantation & Processing practices using organic methods.

Paper S 5.2- This unit will help the students to develop skills on how FPC/FPO can be formed in a tea estate along with developing skills on how a individual can become self employed & entrepreneur through FPC.

Paper S 5.3- This unit will help the students in developing skills in unfolding the major constraints & issues of FPC and also trying to solve them by materializing through different Tea Boards schemes related to FPC.


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6TH Semester

Paper S 6.1- This unit will help in skilling up the students about estimating cost of setting up nursery, vermicompost units etc

Paper S 6.2- This unit will help the students in developing skills by learning various practices in tea estate by doing internship by staying in a commercial tea garden

Paper S 6.3- This unit will help the students in developing skills by learning various practices in tea estate by doing internship by staying in a commercial tea garden

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1ST SEMESTER
Paper: S 1. 1: Introduction to Tea with reference to TG (6 Credits)

Overview & key learning as per NOS:

This paper unit component of first semester will help the student to know in details about the introduction of Tea in India and also worldwide emergence of tea, especially invention history of tea in Assam, other North East & Eastern States & also the emergence of the Tea Grower (TG) in Assam & other parts of India. It will also help the student's to know the "Role of tea in Indian Economy" and different planting materials and nursery techniques.

Theory-40+ Practical-20 +Internal Assessments-15

Total Marks: 75

UNIT-I 1 Credit (10 marks)
History of Tea Cultivation
Origin of Tea, History of Tea cultivation in India & Assam. Total area of TG possesses as on date in respect to total area of Assam in terms of land, production quantity from beginning to present.


UNIT-II 1 Credit (10 marks)
Importance & Science in Tea
Tea as a beverage of all people, Tea & employment generation, Tea in Indian Economy, Taxonomy of Tea, Tea in human health, Chemical constituent of Tea plant.

UNIT-III 1 Credit (10 marks)
Planting materials in Tea
Planting Materials released by Tocklai Tea Research Institute and Planting Materials approved by Tea Board of India.

UNIT-IV 1 Credit (10 marks)
Propagation of Tea and Nursery Techniques
Propagation by seeds, Vegetative Propagation, Grafting, Mother bush management, Establishment of Tea seed orchard, Nursery management (Package and practices followed in Nursery)

Practical 20 marks
Field Works to understand about different practices followed in nearby Tea Estates.

Internal Assessment 15 marks
Submission of assignment on given subjects

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1ST SEMESTER

Paper: S 1.2: Agro practices of Tea plantation (6Credits)

Overview & key learning as per NOS:

In the units of this skill paper, the students will be able to learn about the soil and climatic factors required for Tea plantation. Further, these units help in getting information on different developmental schemes under TBI (Five Year Plan) for commercial garden and the formalities for opening a Tea Estate.

Total Marks: 75

Theory-40+ Practical-20 +Internal Assessments-15

UNIT- I

Soil and Climatic requirement for Tea

1 Credit (10 marks)

Soil structure, texture and soil health for tea plantation, Soil rehabilitation, Soil topography, etc; Climatic condition includes temperature, rainfall, relative humidity required for suitable tea plantation.

UNIT-II

Establishment of Tea Plantation

1 Credit (10 marks)

Selection of Planting Site, Land Preparation, Nursery Management (Package and practices followed in Nursery), Plant spacing and Staking, Planting operation both pre and post – planting operation.

UNIT – III

Government policies in Tea Plantation

1 credit (10 marks)

Different Government policies and support on Tea Estate and also Tea Growers (TG).

UNIT-IV

Formalities for opening a Tea Plantation for new corner

1 credit (10 marks)

Practical

20 marks

Field Visit to nearby Tea Estate to know the various operations followed in Tea Plantation. Soil sampling, Soil pH, Soil texture, Bulk density and Soil moisture. Available NPK and other micro-nutrients measured.

Internal Assessment

Assignment on the selected subjects.

15 marks



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1st SEMESTER

Paper: S 1.3; Plantation Management (6 credits) Overview & key learning as per NOS:

The units under this paper help the students to know about how to pluck leaves from young tea as well as matured tea bushes, able to learn how plucking to be done under various situation, able to determine the plucking standard, caring in green leaves handling, help in understanding the tipping as well as determine the height of tipping for different types of prune & skiff tea bushes, further, the students develop the skill of supervising plucking. Again in regards to pruning & skiffing, this paper help to skill up the students how pruning operation is carried out, before pruning what are the criteria to be followed, what are the safety measures one should take before pruning /skiffing of a tea bushes, also it helps in identifying recommended height of different types of prune/skiff. This unit also includes drainage system and Young tea management practices in Tea.

Theory-40+ Practical-20 +Internal Assessments-15

Total Marks: 75

UNIT- I

Drainage in Tea Plantation

Importance of water in growth and development of Tea Plant, Importance and Management of Irrigation and Drainage system practices in Tea.

1 Credit (10 marks)

UNIT-II

Young Tea Management

Methods of bringing up of young tea plant, Objectives of formative prunes. Schedule of operations for bringing - up of young tea, nutrient management in young tea.

1 Credit (10 marks)

UNIT- III

Pruning & Skiffing

What is pruning? Why pruning is necessary & when the operations followed. Training on different types of Pruning to develop pruning skills, What is the Pruning cycle followed in Garden & what height is considered in different types of pruning what is the percentage maintained for different types of pruning & Why?

1 credit (10 marks)

UNIT-IV

Plucking & Tipping

Methods of Plucking & Tipping in Young Tea Plants & Matured tea, Methods of plucking for maintenance of plant canopy, maintenance of Plucking Table of the Tea plants for getting maximum yield as well as Quality, Plucking round management.

1 credit (10 marks)

Practical

1. Pruning and Skiffing operation carried out in field.
2. Plucking and Tipping practices in the garden.
3. Preparation of different types of drainage systems.

20 marks

Internal Assessment

Assessment on the basis of theory.

15 marks



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2nd SEMESTER Paper: S2.1: Plantation Management II (6 credits)

Overview and key learning as per NOS:

After studying this unit of 2nd Semester, the students will be able to learn maintenance and importance of Shade trees, management of Infills, Nutrition management and their functions, foliar application and deficiency symptoms

Total Marks: 100

Theory-40+ Practical 40 +Internal Assessments-20

1 credit (10 marks)

UNIT- I

Shade Tree & Maintenance of Shade tree

Advantage of Shade tree, what are the plants used as Shade tree, Spacing of shade tree, treatment of shade tree to become a free from disease & Pest.

1 credit (10 marks)

UNIT-II

Management of Infills

Causes and Objectives of Infilling . Different situations for infilling, infilling operations, manuring of infills.

1 credit(10 marks)

UNIT- III

Soil Nutrients Management in Tea Plantation

Soil Conservation, Role of soil nutrient in the growth and development of tea, study on nutrients deficiency symptoms and it improvement practices for growth and development for tea plantations in terms of maximum production.

UNIT- IV

Mineral Nutrition of Tea

Function of Major & Micro nutrient in Tea, Soil Fertility & crop productivity, Use of Lime and Iron Pyrite why & when needed. Nutrient management in young tea, nutrient management in mature tea , foliar application of nutrient. Deficiency symptom of nutrients.

1 credit (10 marks)

Practical

Field visit and Laboratory works

40 marks

1. Visit to nearby tea estates to study the shade trees and nutrient deficiency symptoms .
2. Calculation of YTD and manuring policy of mature tea.

20 marks

Internal Assessment

Preparation of report on field visit and submission of herbariums.


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2ND SEMESTER Paper: S 2.2: Plant Protection (6 Credits)

Overview & key learning as per NOS:

After going through this paper, the students will acquire the meaning of IPM (minimum ETL), which ultimately reduced the affect in the ecology, it also help in developing the skill in identification of major pests, diseases and different species of weeds attack on tea bushes along with their control measures by means of using inorganic chemical, organic and biological methods of control, the students will also able to know about PPC; as well as the TBI recommended chemicals, which have a very low residual effect on made tea & ultimately does not affect in the health of tea consumed peoples of the world.

Total Marks: 75

Theory-40+ Practical-20 +Internal Assessments-15

UNIT- I

Pest Management in Tea

Identification, symptoms and control measures by various synthetic chemical, organic chemicals, biological trap, Integrated Pest control measures

1 Credit (10 marks)

UNIT-II

Disease Management

Identification, symptoms and control measures by various synthetic chemical, organic chemicals, Integrated disease control measures.

1 Credit (10 marks)

UNIT- III

Weed management

Identification, symptoms and control measures by various synthetic chemical, organic chemicals. Methods of collar weeding.

1 Credit (10 marks)

UNIT-IV

Stress Management in Tea

How the drought management overcome , Management in water logged condition , Rain water Harvest methods and procedure, Climate changeand Climate Resilient in Tea, Use of Mulching with a proper thickness , proper use of Growth regulators, use of lime /pyrite ,if the soil is too acidic or alkaline.

1 Credit (10 marks)

Practical

20 marks

1. Identification of different pest & diseases &their symptoms.
2. Identification of different stress symptoms .

Internal Assessment

15 marks

Assignment on the basis of theory. Submission of herbariums on weeds,

Collection of Pests and Diseases.


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2ND SEMESTER

Paper: 2.3: Application Technique and Maintenance of sprayer and sprayer parts (6 Credits)

Overview & key learning as per NOS:

Basically this paper emphasize on various spraying tools along with different size of the nozzles used for pests, diseases and weed controls in tea plants as well as in shade trees. The students will develop the skill to operate various types of spraying machines and use of the nozzles for pests/diseases/weeds control practices. Above this, it will also help in developing the skills of different characteristics of better performance factors of the nozzle like temperature, rate of discharge, surface tension and also the effective time of spraying for better result of IPM practices. This unit also includes Vermicomposting, its importance and gives a detailed account of different stages of manufacturing of Black, Green and Hand-made tea, Tea tasting and marketing.

Total Marks: 100

Theory- 40 + Practical-40 + Internal Assessments-20

UNIT- I

Sprayer, its different types, Calibration and operation and Spraying Techniques

1 Credit (10 marks)

What is Sprayer, various types of sprayer used for various purposes; like control of Pest, Diseases & Weed in tea plantation. How the calibration & operation practices followed in tea plantation.

Different Techniques of application of spraying machine for effective control of Pest, Diseases & Weed in tea plantation.

UNIT-II

1 credit (10 marks)

Nozzle & Types of Nozzle, Nozzle performance Factors

What is nozzle, its importance in spraying different pesticides, weedicides application. Types of nozzle used in different types for effective results.

Factors to be considered for nozzle performances, like temperature, viscosity, surface tension, nozzle wear, etc.

UNIT-III

Vermicompost and its importance

1 Credit (10 marks)

What is vermi-compost, preparation methods of vermi-compost unit, Cost of vermi-compost unit preparation of different sizes, Importance of vermi-compost for own use and commercial use. Effect of vermi-compost use in Tea Estates, Advantage of vermi-compost practice in fields.

UNIT- IV

1 credit (10 marks)

C.T.C./ Orthodox/ Green Tea/Hand-made Tea. Different stages of manufacturing and Marketing.

Practical:

Internship of students for two months in various Tea Estates of their own choice. Submission of Internship Report. Maintenance of daily routine work diary during internship period is compulsory.

40 marks

Internal Assessment –

Submission of assignment work on Vermicompost.

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3RD SEMESTER Paper: S 3.1: Tea Processing in details (6 Credits)

Overview & key learning as per NOS:

This paper is one of the most important for the students to develop skill in manufacturing process of three different types of made tea- Black Tea (CTC & Orthodox); Green Tea & Olong Tea. This chapter will help in determining the students which types of leaves used for best quality tea making of above mentioned made tea, the students also able to know in details the processes involved in making a made tea from the harvested green leaves, role of each & every machineries used in processing like , withering trough, rolling table, CTC machine with the shape of roller, fermenting, dryer, shivers of different size used for different grade, sorting, packaging and how the tea is tested to know the quality of made tea.

Total Marks: 75

Theory-40+ Practical-20 +Internal Assessments-15

UNIT- I

Manufacturing of Tea I

Details technique of processing made tea from the harvest of tea leaves. Role of withering trough, rolling machines, fermenting, CTC & orthodox machineries, different Dryer, Roaster etc.

1 Credit (10 marks)

UNIT-II

Manufacturing of Tea II- Drying, Sorting, Grading, Packaging & Weighing

What is Dryer, Types of Dryer, how different grade of CTC & orthodox tea are made under recommended temperature, what is Sorting, what are the percentage of sieve used in the sorting Machine to get different size of CTC & Orthodox tea, How the Grading is done, what are the names of different grade of CTC & Orthodox Tea, like BP, BOP etc.

1 Credit (10 marks)

UNIT- III

GREEN TEA MANUFACTURING

How green tea is made? what types of tea leaves are suitable for making green tea, how the boiling temperature maintain in Roaster for making Green Tea, steps followed in making green tea till packaging, Why green tea are preferred in terms of beverage for drinking & and as a medicinal value.

1 Credit (10 marks)

UNIT-IV

Tea Quality & Tea Testing

Why Tea Testing is important? How the different types of tea testing done in a factory? What are the criteria of a good Tea Taster?

1 Credit (10 marks)

Practical

20 marks

Visit to a Tea Factory.

Internal Assessment

15 marks

Assignment on the subject studied in the semester. (Flow chart- Black Tea).



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3RD SEMESTER

Paper: S 3.2: Management of Made Tea (6 Credits)

Overview & key learning as per NOS:

In this paper component emphasis given on how the quality made tea is made up & from which type of leaves, what plucking cycles need to follow to attain different quality of made tea, handling of made tea in order to retain quality, what are the risk involved & how to mitigate the risk in made up of green tea, also how the Tea Estates played an important role in generating income to the educated /uneducated unemployed and unemployable person by deploying in this profession.

Total Marks: 100

Theory-40 + Practical-40 + Internal Assessments-20

UNIT- I

Management of different quality of made tea

1 Credit (10 marks)

Importance of making quality made tea, what are the factors plays an important role in making different quality made tea like leaves, withering, fermenting, drying, grading, sorting, packaging etc...

UNIT-II

Comparative study of Green tea with other made tea

1 Credit (10 marks)

What are the differences of green tea with other's made tea, study of value, demand, production, export comparison between green tea & other's made tea.

UNIT-III

Risk involved in making a green tea in Assam condition

1 Credit (10 marks)

What are the risks involved in making green tea from production to processing in Assam Condition, how these problems can be solved in an effective manner.

UNIT- IV

Role of Tea Estates in bringing the unemployable youth to main stream

1 Credit (10 marks)

Planning & execution in bringing the youth into commercial business like STG growers, effects of law & insurgency problems of the State after taking this plan of action.

Practical: Field visit

40 marks

UNIT- I: Steps followed in making a made tea of CTC & Orthodox Tea with details of machinery used and criteria maintain.

20 marks

Unit- II: Steps followed in making a Green tea with details of machinery used and criteria maintain.

10 marks

Unit-III: Different Grade of Made Tea (CTC, Orthodox, Green Tea), sorting, blending & Packaging etc...

10 marks

Internal Assessment:

20 marks

Submission of Flow Chart Diagram of the process of making Green Tea / Hand Made Tea.



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3RD SEMESTER Paper: S 3.3: Statutory Compliance in Tea Management (6 Credits)

Overview & key learning as per NOS

This paper unit's component basically helps in understanding as well as skill up the students in development of plantation acts & the rules applicable in plantation industry. In commercial garden all the statutory compliance under plantation act have to adhere as per the norms TBI, otherwise TBI may cancel the registration.

Total Marks: 75

Theory-40+ Practical-20 +Internal Assessments-15

UNIT- I

The Plantation Labour Act, 1951

Definition & Objective, Scope & provisions in regards working hours, Leave with wages, Procedure for Penalties, employer obligation.

1 Credit (10 marks)

UNIT-II

The Factory Act, 1948

Definition & Objective, Registration Procedure & criteria for obtaining Factory License, Renewal of License, and Safety measure to be taken for Factory workers.

1Credit (10 marks)

UNIT- III

The Payment of wages Act, 1936

Definition & Objective, Fixation of wages

1 Credit (10 marks)

The Payment of Bonus Act, 1936

Definition & Objective, who are eligible for bonus payment, on what basis bonus is paid, whom & why the bonus is given as a minimum bonus & deduction of bonus payment. How the bonus paid either one phase or two phase

UNIT-IV

The Employee PF Act, 1952

Definition & Objective, who are eligible for PF payment

1 Credit (10 marks)

The Industrial Employment Act, 1946

Definition, Objective & Major component of the act.

The Minimum wages Act, 1948

Definition & Objective, Wages of Permanent & Temporary workers, Wages for Skilled, Semi- skilled & Unskilled workers as per Governments norms.

The workmen Compensation Act, 1923

Definition & Objective, who & why eligible for compensation

Practical

20 marks

Field Visit to a Tea estate where all the statutory maintain & how?

Internal Assessment

15 marks

Assignment on the subject studied in the semester.



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4th SEMESTER

Paper: S 4.1: Budget planning & Estimation and Business planning (6 credits)

Overview & key learning as per NOS:

After going through this paper the students will be able to develop the skill on making a budget planning & estimation for the every financial year of a tea estate, which will help to know the allocation of funds under different heads and on this basis one can prepare a business plan accordingly.

Total Marks: 75

Theory-40+ Practical-20 +Internal Assessments-15

UNIT- I

Preparation of Budget and Estimation

Preparation of plan of action under different head of a Tea Estate, how budget & estimation is made up & its importance in management & execution to run a tea estate smoothly.

1 Credit (10 marks)

UNIT-II

Business Planning

On the basis of budget cost the business planning is done; Consider the factors for earning through other source, Profit & loss reflection. How a maximum utilization man days can be made for cost cut down.

1Credit (10 marks)

UNIT- III

Record Keeping in Tea Estate

Records need to keep given in Annexure-1

1 Credit (10 marks)

UNIT-IV

Marketing of Tea & Warehouse Management

Role of Tea Auction centre of Assam in Marketing, What is the role of Broker's in Tea Marketing, Private marketing of Tea, what is ware house & its importance in tea industry.

1 Credit (10 marks)

Practical:

20 marks

1. Field Visit to a Tea estate where all the statutory maintain & how?
2. Visit to a Tea Auction Centre and Ware house.

Internal Assessment:

15 marks

Assignment on the subject studied in the semester.



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Affiliated by Dibrugarh University

Course outcome and syllabus for B.Voc Course

4TH SEMESTER **Paper: S 4.2: Tea Board Development & Plantation Scheme on Tea (6 Credits)** **(Five year plan)**

Overview & key learning as per NOS

In this units all the development & plantation schemes (under five year plan) will be elaborately discuss, so that the students after passing out with a various skill's & join in a job or become an entrepreneur, they will be able to materialized the schemes and able to make the required information to get qualify & avail the benefits from the schemes. The same condition is though applicable for Tea Estates but there are various grants in aid schemes for the Tea Estates, which are also discussed in details in this paper, so that the T.E. also able to get the grant from Tea Board of India.

Total Marks: 75

Theory-40+ Practical-20 +Internal Assessments-15

UNIT-I

Details on Plantation Development Scheme

1 Credit (10 marks)

Study on the sub component of plantation development scheme in details, what are the eligibility criteria & what is rate of subsidy on different component & how the disbursement is done?

UNIT-II

Details on Quality Up gradation & Product diversification including orthodox production

1Credit (10 marks)

Study on the sub component on the above scheme in details, what are the eligibility criteria & what is rate of subsidy on different component & how the disbursement is done?

UNIT- III

Details on Human Resource Management Scheme

1 Credit (10 marks)

Details Study on the sub component on the HRM schemes, what are the eligibility criteria & what is rate of subsidy on different component & how the disbursement is done?

UNIT-IV

Details study on Market Promotion & Research and Development Schemes

1 Credit (10 marks)

Details Study on the sub component on the above schemes, what are the eligibility criteria & what is rate of subsidy on different component & how the disbursement is done?

Practical:

20 marks

Exercise on the fill up of application for different developmental scheme to Fulfill the eligibility for getting subsidy/incentives/grant in aid

Internal Assessment:

15 marks

Assignment on the subject studied in the semester



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Coordinator, IQAC

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4th SEMESTER

Paper: S 4.3: Estate Management (6 credits)

Overview & key learning as per NOS:

After going through this paper unit's, the students will be able to develop the knowledge & skill on Garden management, which includes how /when extension planting, replanting planting, similarly factory management works & any others administrative functions of the estate is to be done/ maintain to run the estate smoothly; organize manner.

Total Marks: 100

Theory-40 + Practical-40 +Internal Assessments-20

UNIT- I

Garden Management

Study on Extension, Replanting, Replacement Planting, Rejuvenation planting & new planting followed in a garden.

1 Credit (10 marks)

UNIT-II

Factory Management

Repairing & maintenance of the factory equipments, extension of factory buildings & exchanged of old parts with new parts & up gradation of machineries. What are the function of store in tea plantation and its management for the smooth running of tea estate?

1 Credit (10 marks)

UNIT-III

Human Resource Management in Tea

Organizationalbehaviours, Organizational Chart, Role of Grade/ Factory Assistant Manager , Role of Different Clerk (activity) wise. Facilities provided to the tea workers , benefits availed by the permanent worker of the estate, what are the other welfare related establishments seen in the garden.

1 Credit (10 marks)

UNIT- IV

Health and Safety Measures followed in a Tea Garden

Various steps of health and safety measures followed in a tea estate. Study on the health and safety related issues in details in order to maintain peaceful work environment in the tea estate.

1 Credit (10 marks)

Practical:

40 marks

Cultivation practices of Tea to be done on the campus plantation area by formation of group among the students & result on performance basis.

Internal Assessment:

Reports to be made on the activities carried out in the practical.

20 marks

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College of Jorhat

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Pranjal Dutta
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5TH SEMESTER
Paper: S 5.1: Organic Tea Plantation Management (6 credits)

Overview & key learning as per NOS:

In this paper the importance is given on tea plantation & processing practices using the organic methods, as the revolution of organic cultivation able to bring high demand in the market. Only natural inputs are applied in organic cultivation instead of inorganic or synthetic chemical. In organic cultivation vermi-compost plays a significant role. Hence in this paper the students will learn about vermi-compost as well as acquire the skill to prepare the vermi-compost units. Again this paper help the students to know the importance of Certification and Marketing of Speciality Tea.

Total Marks: 75 **Theory-40+ Practical-20 +Internal Assessments-15**

UNIT- I Organic Tea Plantation Package & practices of organic tea plantation from cultivation to processing.	1 Credit (10 marks)
UNIT-II Certification of Organic Tea Method of certification, National Standards of Certification, Inspection and Certification, Documentation methods for certification, Various certifying agents.	1 Credit (10 marks)
UNIT- III Organic Manure Definition of organic manure and its importance, Production method of various organic manure, Compost, Enriched compost, Vermicompost, Method of application of organic manure.	1 Credit (10 marks)
UNIT- IV Speciality tea and their Marketing Various specialty tea- Green Tea, White Tea, Purple Tea, Hand rolled Tea, Flavoured Tea. Marketing of specialty tea, their marketing scope and various channels of marketing.	1 Credit (10 marks)
Practical: Report on packaging practices of Organic Tea.	20 marks
Internal Assessment : Assignment on the subject studied in the semester.	15 marks

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5TH SEMESTER

Paper: S 5.2: Tea Garden Management (6 Credits)

Overview & key learning as per NOS:

The objective of this paper is to give more focus on FPC (Farmers Producer Company), prospect & problems of FPC can be formed among the Tea Growers group in an organized and systematic way, which will help in minimizing input cost of Company and maximize the earnings through common marketing, minimize the leaf wastage, etc.. In this chapter the student will develop skill on how an individual can be an entrepreneur or self-employment through FPC, also focus will remain on the policies for FPC developed by TBI as well as State Governments.

Total Marks: 75

Theory-40+ Practical-20 +Internal Assessments-15

UNIT- I

IMPACT ON SOCIAL DEVELOPMENT

Motivation of the unemployed youth towards the adoption of FPC, How a successful FPC recognized in the society & how his influential helps in development in the society & also the Existing lethargic FPC become pro-active in the development of FPC by generating employment to uneducated/ primary school dropout youths in development of livelihood.

1 Credit (10 marks)

UNIT-II

Management of green leaves

Techniques of purchased or selling tea leaves management, how the plucked leaves are stored up to the transportation period without damages in leaves or maintain the quality of the leaves to get the best market value, what practices followed in transportation during monsoon & dry weather condition, How the cost control can be done to maximize profit. Field management practices affecting the quality of tea.

1 Credit (10 marks)

UNIT- III

Role of FPC and its operation practices

Operation practices FPC, SWOT Analysis, Institutional Framework of FPC for development of Tea Growers, Price sharing formula, quality upgradation programme, setting up of FPC.

1 Credit (10 marks)

UNIT-IV

Details study on the Tea Board Development & Plantation Scheme under the Five year plan for FPC of Assam & non-conventional area of N.E. India.

1 Credit (10 marks)

Practical

20 marks

Field visit to FPC & study details about their experiences in the tea industry.

Internal Assessment

15 marks

Assignment on the subject studied in the semester



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5TH SEMESTER

Paper:S 5.3: Major thrust area of Tea Garden(6 credits)

Overview and key learning as per NOS:

This unit will help the students in unfolding the major constrain & issues of the FPC experiences . So it will be useful for the students to develop the skill of planning & execution the same for the smooth running of the gardens, irrespective of doing job in commercial garden or become self- employment as an entrepreneur. The students also able to identify the soil condition, whether it's suitable for tea plantation or need to rejuvenate the soil condition by planting Guatemala grass for 24 to 36 months.This unit gives a detailed information regarding Inter- Cropping practices and Drainage system.

Total Marks: 100

Theory-40 + Practical-40 +Internal Assessments-20

UNIT- I

Problems of Tea growers of Assam & non- conventional area of North east India 1 Credit (10 marks)
Identification of problems faced by Tea growers & how the non- conventional area can be transformed to large Tea growing areas, by common plan of action.

UNIT-II

Role of Tea Board of India & other governmental institution in developing Tea growers of Assam & other parts of N.E India 1 Credit (10 marks)
What are the role played by TBI & other Governmental institution in promotion & development of TG of Assam & other parts of N.E India? What is the role of respective state's Governments also in development of TG.

UNIT-III

Inter- Cropping practices in Tea Gardens and details of Drainage system 1 Credit (10 marks)
What is inter-cropping & its importance, what are the crops that can be inter-cropped along with young tea, why selected crops are considered for inter-cropping, Advantages of Integrated farming system in Tea. Types of drains in different situations.

UNIT- IV

Marketing & Management green leaves in Assam & other parts of N.E. India 1 Credit (10 marks)
Marketing of tea leaves & it's importance in terms of economic condition of STG grower's, how the leaves are managed & handled by the STG grower's to minimize the damages and maximize the earning, importance of leaves management.

Practical

40 marks

UNIT- I: Identification the role of Governing body in developing FPC .

20 marks

Unit- II: Identification of how entrepreneurship as a profession developed by FPC

10 marks

Unit-III: Documents & formalities required to form an FPC.

10 marks

Internal Assessment:

20 marks

Assignment on what are the role & responsibility of Governingbody as well as members of FPC.



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6TH SEMESTER Paper- S 6.1: Exercise on operations followed in Tea Estate (6 Credits)

Overview & key learning as per NOS:

The main objective of this paper is to skill up the students about the nursery estimation of a given area incurred in setting up of vermi-compost unit, cost of irrigation of a given land and also able to well acquire different field management implements.

Total Marks: 75

Theory-40+ Practical-20 +Internal Assessments-15

UNIT- I

The cost calculation for Nursery Preparation

What is the Component of Nursery Preparation, How many man days required for a Nursery of Seed/ Clone. The Size of the Nursery will consider approx. 3 Bigha of land

1 Credit (10 marks)

UNIT-II

Exercise in cost evaluation for a 1 Ha land Irrigation

What is the machinery required, what is the size of the nozzle for disbursement of water up to 4-5 meter, by using Sprinkler irrigation.

1 Credit (10 marks)

UNIT- III

Various Implements use in Tea Management

Name of the implements and their function use in Garden, Factory & packaging activity

1 Credit (10 marks)

UNIT-IV

Exercise on Vermi-compost unit cost of different size

What are the components required for Vermi-compost unit Preparation, How many man days required & how many days required for starting commercial operation by selling the Vermi-compost.

1 Credit (10 marks)

Practical:

20 marks

Field Visit to a Seed Bari and preparation of estimate to establish a Seed Bari .
Storage of Seed.

Internal Assessment:

15 marks

Submission of report on the basis of theory & practical field visit.



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6TH SEMESTER

Paper: S 6.2: Skill up with cultivation practices (6 credits)

Overview & key learning as per NOS:

This unit is made up to learn the various practices followed in a tea estate fields through internship itself by staying in a commercial garden, where they can explore their expertise knowledge & skill developed from the subjects they studied in the earlier course component of tea garden field management operation, from the land preparation to pruning including, nursery practices, vegetative propagation, different types of planting materials as per TBI recommended, planting, INM, IPM practices, irrigation & drainage, plucking & tipping, the students will do the practices in the college own land, after that move for internship, here also students able to know the report writing & also the contents need in a report writing or practical note submitting.

Total Marks: 75

Theory-40+ Practical-20 +Internal Assessments-15

UNIT- I

Management of Nursery

Details package & practices of nursery to be study theoretically & practically

1 Credit (10 marks)

UNIT-II

Management of Young tea

Details package & practices of nursery to be study theoretically & practically along with all practices.

1 Credit (10 marks)

UNIT- III

Management of Matured tea

Details package & practices of nursery to be study theoretically & practically along with all practices.

1 Credit (10 marks)

UNIT-IV

Management of Drainage & Irrigation operation

How drainage & Irrigation management practices followed in a tea estate & its importance.

1 Credit (10 marks)

Practical:

20 marks

Field work of the entire cultivation methods will be done in the college own land. How the nursery practices followed also the young tea & matured tea maintenance Practices, how drainage is made & where catchment areas need to put for proper irrigation on the land.

Internal Assessment:

15 marks

Submission of report on the basis of the practical & theory



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6TH SEMESTER

Paper: S 6.3: Skill up with Management & processing practices (6 credits)

Overview & key learning as per NOS:

This paper is design to learn the various practices followed in a tea estate factory through internship itself by staying in a commercial garden, where they can explore their expertise knowledge & skill developed from the subjects they studied in the earlier course component of tea manufacturing process, from the tea leaves to made tea, sorting grading and packaging & marketing operation. Here the students able to understand about a good report writing & also the contents need in a report writing or practical note submitting.

Total Marks: 100

Theory-40+ Practical-40 +Internal Assessments-20

UNIT- I

Management of the estate

What is management, how to handle the managerial role for the smooth Running of the estate, control over the subordinate & other related factors.

1 Credit (10 marks)

UNIT-II

Leadership quality

What is the meaning of the leader; what are the quality needs to be good leader, how a different welfare activities handled.

1 Credit (10 marks)

UNIT- III

Management of made tea

Details package & practices of different quality/grade tea manufacturing techniques followed in an estate.

1 Credit (10 marks)

UNIT-IV

Management of packaging, grading & sorting

How the entire packaging, grading & sorting practices followed in a tea estate & its importance.

1 Credit (10 marks)

Practical:

40 marks

Field work of the entire management scaling will be done through internship programme. 2 months internship programme will be carry on by the student staying in different garden.

Internal Assessment:

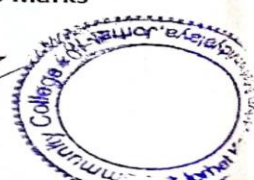
20 marks

Submission of final report on the basis of internship programme.



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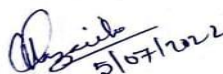
METRIC NO.	Course outcome and syllabus of Certificate courses offered by different Departments
6.1.1	

CERTIFICATE COURSE UNDER BOTANY DEPARTMENT GREEN TEA PROCESSING AND BIOINFORMATICS

Add-on Courses Under Department of Botany, Jorhat Kendriya Mahavidyalaya

The Department of Botany has introduced two Add-on Certificate Courses with the aim of enhancing and enriching the student's learning experience in the college and to bring about a more holistic approach for learning and developing necessary skills for various vocation and careers. The introduced Courses are-

Sl. No.	Course Name	Co-ordinators	Description
1	Green Tea Processing	Mrs. Pinaki Hazarika Mr. Bibek Sharma	It is a three months Certificate course for the UG students of both Arts and Science stream. The Course aims to enhance the skill in the field of Tea Sector for Self-employment and empowerment of the students.
2	Bioinformatics	Mr. Bhaskor Kolita Miss Dimply Borah	It is a six months Certificate course for the UG students of science stream. Bioinformatics is a new discipline of science which is a combination of studies related to biological science, computer science and data science. This course will help the students to pursue their career in bio analytic, data analytics, proteomics, information technology and drug development.


5/6/22
HoD
Department of Botany
Jorhat Kendriya Mahavidyalaya
Mrs. Pinaki Hazarika
HoD, Department of Botany
JKM


Pranjal Dutta
Coordinator, IQAC




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GREEN TEA PROCESSING AND BIOINFORMATICS

6 months Add on certificate course on "Tea Processing with special emphasis on Green and Speciality Tea" introduced by Botany Department, JKM in collaboration with Community College Jorhat Kendriya Mahavidyalaya

Course Syllabus		Total Credit: 9	
Unit	Element	Topic	Credit
1.	History and Scope of Tea	1. Tea Historical Background 2. Discovery of Assam tea plant and geographical distribution 3. Classification of tea 4. Cultivars of tea 5. Factors responsible for tea cultivation	1
2.	Tea soil and Integrated nutrient management	1. Composition and important physical and chemical properties 2. Mineral Nutrition in tea 2.1. Symptoms of nutrient deficiency and its correction 2.2. Organic matter management (FYM, Compost) 2.3. Important characteristics of NPK fertilizers, micronutrients, their nutrient content and calculation.	1
3.	Young tea management	1. Land preparation 2. Layout of the field 3. Bringing up of Young tea 4. Post care in the young tea plantation area.	1
4.	Integrated pest and disease management	1. Major diseases in tea and its impact on tea plants 2. Major pest in tea and its impact on tea plants. 3. Control measures of pest and diseases. 4. MRL problem in tea	1
5.	Physiology and Biochemistry of tea.	1. Growth behavior of tea 2. Physiological and biochemical attributes of tea plant 3. Source and sink relationship	1
6.	Manufacturing of tea	1. Tea chemistry 2. Tea manufacturing techniques 2.1. Different types of tea 2.2. Processing techniques of black tea (CTC and Orthodox) 2.3. Tea machineries 2.4. Blending & packaging 2.5. Care and handle of plucked tea leaves 2.6. Factory Hygiene	1


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Element	Topic	Credit
7.	Green Tea manufacturing	1
8.	Practical Classes	2

Practical Classes on Tea Processing.

Credit: 2

1. Soil sample collection and soil testing
2. Fine leaf count
3. Identification of different machineries used in tea processing.
4. Processing technique of green tea
5. Visit to Tocklai Tea Research Institute
6. Assignments

(Pinaki Hazarika)
HOD
Dept. of Botany, JKM

(Binod Hazarika)
Faculty
Dept. of Chemistry, JKM

(Rashmi Rekha Bora)
Faculty
Dept. of Botany, JKM

(Nabajit Tanti)
Guest Faculty
Community College, JKM

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GREEN TEA PROCESSING AND BIOINFORMATICS

Six months Add on certificate course on "Bioinformatics" introduced by Botany Department, Jorhat Kendriya Mahavidyalaya

Course Syllabus

Total Credit: 18

Unit	Element	Topic	Credit
1.	Fundamentals of bioinformatics	1. Introduction 2. History and scope of bioinformatics. 3. Branches of Bioinformatics 4. Sources of information 5. Internet world wide web and web browsers 6. Genomics 7. Transcriptomics.	2
2.	Biological Databases	1. Introduction to Biological Databases 2. Classification of biological databases 3. Basic concepts of primary and secondary databases 4. Biological Database Retrieval System 5. Data mining and data mining tools (ENTREZ).	2
3.	Biological sequence database	1. National Center for Biotechnology Information (NCBI): Tools and Databases of NCBI, Database Retrieval Tool, Sequence Submission to NCBI. 2. EMBL Nucleotide Sequence Database (ENA): Introduction, Sequence Retrieval, Sequence Submission to EMBL, Sequence analysis tools. 3. DNA Data Bank of Japan (DDBJ): Introduction, Resources at DDBJ, Data Submission at DDBJ. 4. Swiss-Prot: Introduction and Salient Features. 5. Small molecule databases (Chemspider, Drug Bank, ZINC)	2
4.	Basic concept of Sequence Alignments	1. Introduction, Concept of Alignment 2. Pairwise sequence alignment (PSA) 3. Multiple Sequence Alignment (MSA), MSA by CLUSTALW 4. Methods of Sequence Alignment. 5. Tools of sequence alignment – FASTA and BLAST	2
5.	Phylogenetic analysis	1. Basic concept 2. Phylogenetic tree	2


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GREEN TEA PROCESSING AND BIOINFORMATICS

Six months Add on certificate course on "Bioinformatics" introduced by Botany Department, Jorhat Kendriya Mahavidyalaya

Course Syllabus

Total Credit: 18

Unit	Element	Topic	Credit
1.	Fundamentals of bioinformatics	1. Introduction 2. History and scope of bioinformatics. 3. Branches of Bioinformatics 4. Sources of information 5. Internet world wide web and web browsers 6. Genomics 7. Transcriptomics.	2
2.	Biological Databases	1. Introduction to Biological Databases 2. Classification of biological databases 3. Basic concepts of primary and secondary databases 4. Biological Database Retrieval System 5. Data mining and data mining tools (ENTREZ).	2
3.	Biological sequence database	1. National Center for Biotechnology Information (NCBI): Tools and Databases of NCBI, Database Retrieval Tool, Sequence Submission to NCBI. 2. EMBL Nucleotide Sequence Database (ENA): Introduction, Sequence Retrieval, Sequence Submission to EMBL, Sequence analysis tools. 3. DNA Data Bank of Japan (DDBJ): Introduction, Resources at DDBJ, Data Submission at DDBJ. 4. Swiss-Prot: Introduction and Salient Features. 5. Small molecule databases (Chemspider, Drug Bank, ZINC)	2
4.	Basic concept of Sequence Alignments	1. Introduction, Concept of Alignment 2. Pairwise sequence alignment (PSA) 3. Multiple Sequence Alignment (MSA), MSA by CLUSTALW 4. Methods of Sequence Alignment. 5. Tools of sequence alignment – FASTA and BLAST	2
5.	Phylogenetic analysis	1. Basic concept 2. Phylogenetic tree	2


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CERTIFICATE COURSE UNDER CHEMISTRY DEPARTMENT

SUSTANABLE DEVELOPMENT OF SOLID WASTE MANAGEMENT

① Syllabus

CERTIFICATE COURSE IN
SUSTAINABLE DEVELOPMENT OF SOLID WASTE MANAGEMENT
"LET'S GO GREEN TOGETHER"
AN INITIATIVE OF DEPARTMENT OF CHEMISTRY
(JORHAT KENDRIYA MAHAVIDYALAYA)
DURATION: 3 MONTHS
TOTAL CREDIT : 9

Unit	Topic	Credit
Unit I : Municipal Solid Waste; Its Sources and Composition	Introduction, Sources of solid waste, Types of solid waste, Composition of solid waste and its determination, Effects of Undisposed or Unattended Garbage Physical, Chemical and Biological properties of Municipal Solid Waste, Transformation of Municipal Solid Waste	1
Unit II: Solid Waste Generation and Collection of Waste	Quantities of solid Waste, Measurements and methods for waste quantities, Solid waste generation and collection of waste, Factors affecting solid waste generation rate	1
Unit III : Waste and Segregation	Processing of solid waste at residence (Storage, conveying, compacting, Shredding, pulping, granulating etc.,) Processing of solid waste at Commercial and industrial fields Combustion and energy recovery of municipal solid waste, landfill processes, Differentiate sanitary land fill and incineration as final disposal system for solid waste	1


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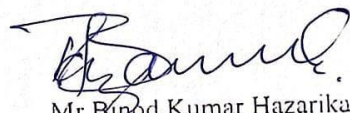
SUSTANABLE DEVELOPMENT OF SOLID WASTE MANAGEMENT

Unit IV : Hazardous Solid Waste and Laboratory Waste Management	Definition, identification and classification of hazardous solid waste, Characteristics Hazardous waste toxicity, reactivity, infectiousness, flammability, corrosiveness, management and disposal. Laboratory waste, its sources, generation, storage management and disposal	1
Dissertation, Project Work and Hands on Training		5


Mrs Parinita Baruah

HOD

Department of Chemistry


Mr Binod Kumar Hazarika

Coordinator

Solid Waste Management


Pranjal Dutta
Coordinator, IQAC




Principal
Jorhat Kendriya Mahavidyalaya
Kenduguri, Jorhat-10

CRITERION II: TEACHING-LEARNING AND EVALUATION



JORHAT KENDRIYA MAHAVIDYALAYA

Kenduguri, Jorhat-785010 (Assam)

Affiliated by Dibrugarh University

CERTIFICATE COURSE UNDER ZOOLOGY DEPARTMENT

VERMICOMPOSTING TECHNOLOGY

Three month certificate course on Vermicomposting Technology by Zoology Department in collaboration with community college, Jorhat Kendriya Mahavidyalaya.

Course syllabus of three months certificate course on Vermicomposting technology

Total credit -9

UNIT	ELEMENT	TOPIC	CREDIT
I	General: Vermiculture/ Vermicompost	1. Introduction, definition, meaning, history, economic importance	2
		2. Role in bio transformation, role as four r's of recycling: reduce, reuse, recycle, restore.	
		3. The matter and humus cycle, transformation process in organic matter.	
		4. Choosing the right worm. Useful species of earthworms. Local species of earthworms. Exotic species of earthworms.	
II	Earthworm Biology and Rearing	1. Key to identify the species of earthworms	2
		2. Biology of <i>Eisenia fetida</i> // <i>Eudrilus eugeniae</i> a) Taxonomy, Anatomy, physiology and reproduction. b) Vital cycle: alimentation, fecundity, annual reproducer potential and limit factors (gases, diet, humidity, temperature, PH, light, and climatic factors).	
III	Vermicompost Technology (Methods and Products)	1. Small Scale Earthworm farming for home gardens - Earthworm compost for home gardens	2
		2. Conventional commercial composting - Earthworm Composting larger scale	
		3. Earthworm Farming (Vermiculture), Extraction (harvest), vermicompost harvesting, packaging and storage	
		4. Nutritional Composition of Vermicompost for plants, comparison with other Fertilizers	
		5. Vermiwash collection, composition & use	
		6. Sickness and worm's enemies. Frequent problems. How to prevent and fix them. Complementary activities of auto evaluation.	


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VERMICOMPOSTING TECHNOLOGY

PRACTICAL

Sl No.	Topics	Credit
1.	Key to identify different types of earthworms	3
2.	Study of Systematic position, habit, habitat & External characters of <i>Eisenia fetida</i> / <i>Eudrilus eugeniae</i>	
3.	Comparison of morphology & life stages of <i>Eisenia fetida</i> & <i>Eudrilus eugeniae</i>	
4.	Study of Vermiculture, Vermiwash & Vermicompost equipments, devices	
5.	Preparation of vermibeds, maintenance of vermicompost & climatic conditions.	
6.	Harvesting, packaging, transport and storage of Vermicompost and separation	

Ely Phukan
15/03/2022

Mrs. Ely Phukan
Academic Vice Principal,
Jorhat Kendriya Mahavidyalaya

Nilakshi Borah
15. 3. 2022

Dr. Nilakshi Borah
Assistant Professor,
Department of Zoology
Jorhat Kendriya Mahavidyalaya

Mr. Someswar Borah
15/03/2022
Co-ordinator
Mr. Someswar Borah
HOD, Department of Zoology
Jorhat Kendriya Mahavidyalaya

Head of the Department
Zoology
Jorhat Kendriya Mahavidyalaya

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Pranjal Dutta
Coordinator, IQAC



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CERTIFICATE COURSE UNDER PHYSICS DEPARTMENT LED BULB REPAIRING TECHNICIAN

Three months Add on certificate course
Under
Department of Physics,
Jorhat Kendriya Mahavidyalaya

The Department of Physics has introduced one Add-on Certificate Courses with the aim of enhancing and enriching the student's learning experience in the college and to bring about a more holistic approach for learning and developing necessary skills for various vocation and careers. The introduced Courses are-

Sl. No.	Course Name	Co-ordinators	Description
1	LED bulb repairing technician	Mr. Arup Saikia Mr. Amrit Dutta	It is a three months Certificate course for the UG students of both Arts and Science stream. The Course aims to enhance the skill in the field of Electronics Sector for Self-employment and empowerment of the students.

Mr. Rajib Boruah
HOD
Department of Physics
Jorhat Kendriya Mahavidyalaya
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CERTIFICATE COURSE SHARED BY EDUCATION AND SOCIOLOGY DEPARTMENT **LIFE SKILLS**

CERTIFICATE COURSE ON LIFE SKILLS

Course Outcomes

1. Promotion of self-study which enhance the ability to observe accurately and objectively
2. The course medium is both in English and Assamese. Interaction with the students is also effective.
3. Student are made aware of importance of Life Skills education, its need and significance
4. Apply Creative Thinking, Problem Solving and Decision-making skills in their day-to-day life
5. The course highlighted the need of Effective Communication, Leadership Qualities, Interpersonal Relationships, Time Management, Critical Thinking and Personal Effectiveness
6. Student are prepared for their future career prospects with Interview skills, Group Discussion, Presentation skills and Resume writing
7. Student interact with experts and guest lecturers
8. Students will be able to organise and express their thoughts clearly and coherently both in writing and orally


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LIFE SKILLS

Certificate course in Life skills

An initiative of Dept. of Education and Sociology

Course syllabus of three months Add on certificate course on Life skills

Total credit : 14

Unit	Topic	Credit
1.	1. Introduction to Life Skills and Life Skills Education 2. Conceptual Basis of Life Skills: Definition, Need and Significance 3. Evolution and Development of the concept of Life Skill Education	1
2.	1. Leadership skills, understanding leadership and its importance. 2. Traits and models of Leadership 3. Basic leadership skills.	1
3.	1. Effective use of social media, introduction to social media websites 2. Advantages of social media, Ethics and Etiquettes of social media 3. How to use google search better, effective use of social media.	1
4.	1. Social Influence Theory: Herbert Kelman 2. Core Life Skills: Social & Negotiation Skills 3. Self-esteem – Definition, Importance, how to build positive self-esteem	1
5.	1. Methods and Strategies for nurturing Self-awareness 2. Exploration: Johari Window, SWOT Analysis 3. Empathy: Sympathy, Empathy & Altruism	1
6.	1. Effective Communication: Assertiveness, Effective Listening, Negotiation Techniques & Process, Barriers of Communication, Presentation Skills. 2. Interpersonal Relationship: Definition, Factors Affecting Relationships 3. Thinking Skills: Critical Thinking: Analytical Thinking, Strategies to enhance Critical Thinking	1
7.	1. Creative Thinking: Out of the box thinking, stages of Creative Thinking, Factors hindering creative thinking, Characteristics of Creative thinkers 2. Problem Solving: Definition, Steps in Problem Solving 3. Decision Making: Definition, Informed Decision Making, Consequences of Decision making and Models of Decision	1
8.	1. Coping with Emotions: Basic Emotions, Models of Emotion 2. Coping with Stress: Definition, Types, Sources of Stress,	1


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LIFE SKILLS

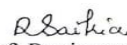
	Strategies to Manage Stress Day 3. Emotional Intelligence : definition. Types. Ways to manage emotional intelligence.	
9.	1. Life Skills for Personal Effectiveness 2. Values: Punctuality, Honesty, Loyalty, Dependability, Reliability 3. Skill of building Self Confidence and Self Motivation	1
10.	1. Skill of Goal Setting; Types, Steps, Personal Vision and goal 2. Skill of time management 3. Study Skills and Memory Techniques	1
11.	1. Resume skill : preparation and presentation 2. Interview skill : preparation and presentation 3. Group discussion skills and exploring career opportunity	1
12.	1. Skill to Overcome Eating Disorders and Obesity, Skills to prevent Abuse- physical, sexual and emotional 2. Application of Life Skills in day-to-day life 3. Life skill for Adolescents and youth.	1
13.	Practical : details of practical are listed below	2


Details of practical :-

1. Group discussion
2. Power point presentation on specific topics.
3. Problem solving techniques.
4. Resume writing
5. Practise on use of different social media.


Dr. Palabi Mali
Co ordinator
Life skill


Prof. Moonmoni Borkoch
Co ordinator
Life skill


Prof. Ranjumoni Saikia
HoD
Dept. of Education


Dr. Rajen Borah
HoD
Dept. of Sociology


(Dr. Duren Saikia)
Principal
Jorhat Kendriya Mahavidyaaya

Principal
Jorhat Kendriya Mahavidyalaya
Kenduguri, Jorhat-10

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Coordinator, IQAC




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An initiative of dept of English and Assamese Certificate course in Soft skill

Certificate course in Soft Skills
An initiative of dept. of English and Assamese

Course layout

Objective : This course aims at enhancing the skill of communication, and other soft skills like leadership, positive attitude, emotional intelligence, self motivation etc. for the development of personality as well as carrier development of the learner.

Duration – 3 months Total credit – 09

Unit	Topic	Credit
1.	Introduction to Soft Skills; Aspects of soft skills; Effective communication skills; classification of communication, personality development;	1
2.	Haptics : The language of touch; listening skills; types of listening; effective listening.	1
3.	Letters; types of formal letters; Business letters: types; format and style; Effective resume.	1
4.	Report writing : types and strategies; proceeding writing	1
5.	Synopsis; Research paper; Project;	1
6.	Corporate writing: email, face book, whatsapp, twitter	1
7.	Preparation for personal interviews; speeches for various occasions; effective presentation.	1
8.	Practical: details of practicals are listed below	2

Details of Practical:

1. Group discussion.
2. Power point presentation on specific topics.
3. Demonstration of Listening Skill
4. Report writing & Conduction of meeting

Reference :

1. Butterfield, Jeff. Soft Skills for Everyone, New Delhi: Cengage Learning, 2010.
2. Kumar, Sanjay and Pushp Lata. Communication Skills, New Delhi: OUP, 2011.
3. Lucas, Stephen E. The Art of Public Speaking, McGraw-Hill Book Co. International Edition, 11th Ed, 2014.
4. Sharma, R.C. and Krishna Mohan. Business Correspondence and Report Writing, New Delhi: TMH, 2016.
5. Turk, Christopher. Effective Speaking, South Asia Division: Taylor & Francis, 1985.
6. বেজবৰা, ডঃ নীৰাজনা মহন্ত, ব্যক্তিৰ স্কুমাৰ কৌশল আৰু যোগাযোগ, অসম বুক ট্ৰাষ্ট
7. গোহাশী, গোলোক চন্দ্ৰ, অসমীয়া ব্যাকৰণ প্ৰৱেশ, বীণা লাইব্ৰেৰী, গুৱাহাটী

Ratnamoni Dutta
Ratnamoni Dutta 10/3/22
Co ordinator
Soft Skill

Bishnuram Nath
Bishnuram Nath
HoD, Assamese Dept.

Bhagyashree Shyam 11.3.2022
Bhagyashree Shyam
Co ordinator
Soft Skill

Dr. Arunima Borah 10/2/2022
Dr. Arunima Borah
HoD, English Dept

(Dr. Dulen Saikia)
Principal
Jorhat Kendriya Mahavidyalaya

Principal
Jorhat Kendriya Mahavidyalaya
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Pranjal Dutta
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CERTIFICATE COURSE ON COMPUTER BASICS WITH SPECIAL KNOWLEDGE ON MSOffice

Three Months Add on Certificate course on “Computer Basics with Special Knowledge on MSOffice and Internet Susceptability” in collaboration with Computer Science Department of Jorhat Kendriya Mahavidyalaya.

Course Syllabus of Three Months Add on Certificate course on “Computer Basics with Special Knowledge on Microsoft Office and Internet.

Unit	Element	Topic	Credit
1	History of Computer	1.Introduction to Computer 2.Generation of Computers 3.Hardware and Software 4.Performance Measurements of Computer 5.Classification of Computer	1
2	Operating System and its Types	1.OS Directory Structure 2.Importance of Operating System 3.MS-DOS,WINDOWS,LINUX,UNIX Operating System	1
3	Microsoft Word	1.Working With Tables 2.Using Mail Merge 3.Modifying Page Layout 4.Previewing and Printing a document	1
4	Microsoft Excel	1.Formulas and Functions 2.Types of Cell Referencing 3.Cell Reference to another Worksheet 4.Rules to enter a function 5.Common Functions and Formula Errors 6.Charts,Components of Charts and its Types 7.Printing a Worksheet	1

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COMPUTER BASICS WITH SPECIAL KNOWLEDGE ON MSOffice

	Element	Topic	Credit
	Microsoft Powerpoint	1. Watermark in Powerpoint 2. Animating Text, Inserting Sounds 3. Grouping and rotating Objects 4. Slide Transition and animation Effects	1
6	Introduction to Internet	1. What is network 2. Types of Internet 3. Cyber Crime, Software Piracy 4. Recent Development in IT	1
7	Electronic Mail	1. Components of E-mail 2. Chat and Video Conferencing 3. Basic of Mobile cloud Computing	1
8		1. Practical Classes	2


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COMPUTER BASICS WITH SPECIAL KNOWLEDGE ON MSOffice

Practical Classes

Credit :2

1. Preparing your Bio-data in MS-WORD
2. Generating a Excel Sheet of calculating BILL ENTRY. 3. Creating a Powerpoint Presentation using Animation. 4. Creating a Brochure for your institute using MS-WORD
5. Creating G-mail Account, Google Classrooms
6. Preparing Data Entry report using MS-EXCEL


(Sewali Hazarika)

HOD

Dept. of Statistics, JKM


(Bonjit Bondon Buragohain)

Faculty

Dept. of Mathematics, JKM


(Armina Rahman)

Faculty

Dept. of Computer Science, JKM

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POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A.) COURSE

POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A.) COURSE

FIRST SEMESTER

Course No.	Subject	Marks	
		Theory	Practical
Course 101	Fundamental of Computers	60	40
Course 102	Programming with C	60	40
Course 103	Relational Database Management System	40	60
Course 104	Data Communication and Computer Network	40	60
Course 105	Project I	100	

SECOND SEMESTER

Course No.	Subject	Marks	
		Theory	Practical
Course 201	Introduction to Multimedia	60	40
Course 202	Desktop Publishing	40	60
Course 203	Internet & Web Technology	60	40
Course 204	Mobile Technology	60	40
Course 205	Project II	100	


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POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A) COURSE

Course No: 101	Course Name: Fundamental of Computers	Marks		
		Theory: 60	Practical: 40	Total: 100
Objective:				
The course is designed with an objective to				
<ul style="list-style-type: none">➤ Discuss about computers and their applications,➤ Explain the concept of various number systems,➤ Explain fundamental concepts of computer hardware and software,➤ Discuss the various operating system environments.➤ Introduce the various features of Microsoft Office.				
Learning Outcome:				
On completion of the course, students will be able to				
<ul style="list-style-type: none">➤ Identify computer hardware and peripheral devices,➤ Differentiate various number systems,➤ Distinguish the advantages and disadvantages of various operating systems.➤ Use Microsoft Office suite.				
PART - A : Theory (TH:101)				
Unit I: Introduction				Marks: 12
Basics of computer, Characteristics of computers, Classification of computers. Input, output and storage devices.				
Unit II: Number System				Marks: 12
Binary, Decimal, Hexadecimal, and Octal systems, Conversion from one system to the other, representation of characters, integers and fractions, Binary arithmetic, BCD, EBCDIC, ASCII, Unicode, XS-3, Grey Codes.				
Unit III: Computer languages & Software				Marks: 12
Introduction to machine language, assembly language, high level language, 4GL, Compiler, Interpreter, Assembler, System Software, Application Software.				
Unit IV: Operating Systems				Marks: 12
Introduction to Operating Systems (Disk Operating System, Windows, Unix, Linux), System Administration, Shell Programming				
Unit V: Office Automation Tools				Marks: 12
Introduction to MS Office suite, its features and uses- Word processing, Spreadsheet and Presentation.				
PART - B : Practical (PR:101)				
<ul style="list-style-type: none">➤ Basics of DOS and Unix commands➤ Basic Windows and Linux operations➤ MS Office package (Word processing, Spreadsheet and Presentation)➤ System Administration➤ Shell Programming				


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Text Books:

1. Sinha P.K., "*Computer Fundamentals*", 6th Edition, BPB Publication, 2012.
2. Rajaraman.V., "*Computer Fundamentals*", 6th Edition, PHI, 2012.
3. Thareja R., "*Fundamentals of Computers*", Oxford University Press, 2014.
4. Stallings W., "*Operating systems*", 8th Edition, Pearson, 2014.

Reference Books:

1. Ram.B., "*Computer Fundamentals: Architecture and Organization*", 5th Edition, New Age Publication, 2013.
2. Goel.A., "*Computer Fundamentals*", Reprint, Pearson Education, 2011.
3. Srivastva C., "*Fundamentals of Information Technology*", 3rd Edition, Kalyani Publishers, 2008.

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POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A) COURSE

Course No: 102	Course Name: Programming with C	Marks		
		Theory: 60	Practical: 40	Total: 100
Objective: The course is designed with an objective to <ul style="list-style-type: none">➤ Explain the fundamental concepts of C programming language.➤ Demonstrate C coding.➤ Explain the skills for problem solving using C Program. Prerequisite: Basic reasoning ability. Learning Outcome: On completion of the course, students will be able to <ul style="list-style-type: none">➤ Comprehend fundamental concepts of C program.➤ Develop C code for different problems.				
PART - A : Theory (TH:102)				
Unit I: C fundamentals C fundamentals, variables, data types, operator & expression, I/O functions and statements, basic structure of a C program, simple programming examples.		Marks: 12		
Unit II: Control Statements and Loop Control Structures. if-else, nested if-else, switch, for loop, while loop, do-while loop, goto statement, break statement, continue statement, exit() function, programming examples.		Marks: 12		
Unit III: Arrays and String Manipulation Defining an array, array initialization, processing an array, multidimensional array, strlen() function, strcat() function, strcmp() function, strcpy() function, programming examples.		Marks: 12		
Unit IV: Functions and Pointer Overview of a function, defining a function, accessing a function, call by value, recursion, Storage classes, pointer declarations, expressions using pointers, pointers as function argument, call by reference, programming examples.		Marks: 12		
Unit V: Structures and File Management Structures, Declaration and Initializing Structure, Accessing Structure members, Defining and opening a file, closing a file, input/output operations on files, programming examples.		Marks: 12		
PART - B : Practical (PR:102) <ul style="list-style-type: none">➤ Fundamental C Programs.➤ Programs using control statements and loop control structures.➤ Programs implementing concepts of array and string functions.➤ Programs implementing storage classes.➤ Programs implementing concepts of functions & pointers.➤ Programs using structures and files.				


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POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A) COURSE

Text Books:

1. Kanetkar Y., "*Let Us C*", BPB Publications; 14th edition, 2016
2. Balagurusamy, E. '*Programming in ANSI C*', McGraw Hill Education (India), 6th Edition, 2012
Griffiths, D., '*Head First C*', Shroff/O'Reilly, First edition, 2012.

Reference Books:

1. Kernighan, Brian W., Ritchie, Dennis M., '*The C Programming Language*', PHI, 2nd edition.
2. Herbert, S., "*C: the Complete Reference*", McGraw Hill Education; 4th edition.

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POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A) COURSE

Course No: 103	Course Name: Relational Database Management System	Marks		
		Theory: 40	Practical: 60	Total: 100
Objective: The course is designed with an objective to <ul style="list-style-type: none">➤ Discuss the concept of database➤ Explain data modeling and database design.➤ Discuss the use of SQL Prerequisite: Basics of data, information, fact. Learning Outcome: On completion of the course, students will be able to <ul style="list-style-type: none">➤ Define database.➤ Explain the advantages of database.➤ Construct database model.➤ Use RDBMS's back end and front end tools.				
PART - A : Theory (TH:103)				
Unit I: Database Concept		Marks :10		
Data-Base concept: data, meta data, data item, files, Database, DBMS, Concept of Schema, View				
Unit II: Relational DBMS		Marks :10		
RDBMS terminologies, Advantages of RDBMS, Concept of Keys (Primary, Foreign, Composite)				
Unit III: Data Modeling		Marks :10		
Data Modeling concept, ER modeling, Functional dependency, Database Normalization, Advantages, Different Normalization forms, (Up-to 3NF)				
Unit IV: SQL		Marks :10		
Introduction to Structured Query Language, data types, DDL, DML and DCL Commands. Joins, Index, Views				
PART - B : Practical (PR:103)				
<ul style="list-style-type: none">➤ Introduction to MySQL and any other SQL Tool.➤ Database connectivity through Visual Basic				


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POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A) COURSE

Text Books:

4. Elmasri R. Navathe S.B., "*Fundamentals of Database Systems*", Benjamin Cummings Publishing Company, 7th edition, 2015.
5. Silberschats, Kroth and Sudershan, "*Principles of Database Systems*", McGraw Hill Publication, 2011.
6. Holzner S., "*Visual Basic 6 Programming*" Dreamtech, 1st Edition, 2000.

Reference Books:

1. Ramakrishnan R., Gehrke J., "*Database Management System*", second edition, McGraw-Hill (IE), 3rd edition, 2014
2. C.S.R. Prabhu, "*Object Oriented Database System: Approaches and Architecture*"; Prentice Hall, 3rd edition, 2010.

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POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A) COURSE

Course No: 104	Course Name: Data Communication and Computer Network	Marks		
		Theory: 40	Practical: 60	Total: 100
Objective: The course is designed with an objective to Introduce basics of Data Communications and Computer Networks.				
Learning Outcome: On completion of the course, students will be able to <ul style="list-style-type: none">➤ Describe fundamental concepts of data communication and computer networks.➤ Illustrate the Layers of ISO/OSI and TCP/IP reference model.				
PART - A : Theory (TH:104)				
Unit I: Introduction to computer networks, analog and digital transmission.		Marks :8		
Unit II: Types of transmission: parallel and serial communication, Asynchronous and synchronous communication, modes of communication: simplex, half duplex & full duplex. Multiplexing concept		Marks :8		
Unit III: Types of networks, Network topologies, Transmission media: guided and unguided media, Introduction to wireless networks.		Marks :8		
Unit IV: Network reference models, ISO/OSI and TCP/IP		Marks: 8		
Unit V: Internetworking devices, Error control & detection mechanisms.		Marks: 8		
PART - B : Practical (PR:104)				
<ul style="list-style-type: none">➤ Familiar with networking devices and transmission media.➤ Basic network commands.➤ Hands on practice on basic network design.➤ Network setup, Monitoring and Administration				
Text Books: <ul style="list-style-type: none">1. Godbole.S.A., "Data Communication and Networking", Tata McGraw Hill , 2nd Edition, 20112. Bhusan T, "Data Communication and Networks", Oxford University Press 1st Edition, 2016				


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Reference Books:

1. William S, "Data and computer communications", Pearson education Asia, 7th Edition, 2011.
2. Forouzan, B. A. "Data Communication and Networking" Tata McGraw Hill, 6th edition, 2014.

Discussion

- Application : FTP, Telnet , Internet

Course No:	Course Name:	Project Work	Seminar	Viva	Total
105	Project I	60	20	20	100

Objective:

The course is designed with an objective to

- Explain basics of system analysis and design.
- Implement the concepts of 1st semester courses.

Learning Outcome:

On completion of the course, students will be able to

- Comprehend fundamental concepts of system analysis and design
- Use and apply the concepts of courses of the 1st semester PGDCA programme.

Course Work on System Analysis and Design:

Basics of System, System element, System Planning and Analysis, SDLC, DFD, DSS, Data and fact gathering techniques, Feasibility study

Project Guidelines:

Students will have to implement a minor project based on the subjects covered in this semester. They have to submit a project report and appear for seminar and viva.


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POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A) COURSE

Course No: 201	Course Name: Introduction to Multimedia	Marks		
		Theory: 60	Practical: 40	Total: 100
Objective: The course is designed with an objective to <ul style="list-style-type: none">➤ Introduce the fundamental elements of multimedia.➤ Describe how still images, sound, and video can be digitized on the computer.				
Learning Outcome: On completion of the course, students will be able to <ul style="list-style-type: none">➤ Summarize the key concepts in current multimedia technology.➤ Create quality multimedia software titles.				
PART - A : Theory (TH:201)				
Unit I: Introduction to Multimedia		Marks:10		
Basics of multimedia and its Components, Fonts and hypertext.				
Unit II: Audio fundamentals and representations		Marks:15		
Digitization of sound, frequency and bandwidth, decimal system, data rate, audio file format, sound synthesis, MIDI, wavetable, compression and transmission of audio on internet, adding sound to multimedia project.				
Unit III: Image Fundamentals and representations		Marks:10		
Colour science, colour, colour models, colour palettes, Dithering, 2D Graphics, Image compression and File Formats.				
Unit IV: Video and Animation		Marks:15		
Video Basics, Broadcast Video Standards, Analog video, Digital video, Video Recording and Tape formats, Shooting and Editing Video, Video Compression and File Formats. Video compression .				
Unit V: Animation		Marks:10		
Cell Animation, Computer Animation, Morphing				
PART - B : Practical (PR:201)				
➤ Assignments may be handled using Multimedia tools, such as Flash, Dreamweaver, Photoshop etc. or any other open source multimedia tools.				
Text Books: 1. Jain S.,Singh S.,Iyer M. G., "Introduction to Multimedia" BPB, Reprint 2015. 2. Parekh Ranjan, " <i>Principles of Multimedia</i> ", 2 nd Edition, Tata McGraw-Hill, 2012. 3. Nahrstedt K., Steinmetz R., " <i>Multimedia</i> ", 2 nd Edition, Pearson, 2014.				


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Reference Books:

1. Tay Vaughan, "*Multimedia: Making it Work*", Eighth Edition, Tata McGraw-Hill, 2011.
2. Rao K., Bojkovic Z., Milovanovic D. "*Introduction to Multimedia Communications*", Wiley Student Edition, Wiley India Pvt. Ltd, 2009.

Discussion:

- The emphasis will be on learning the representations, perceptions and applications of multimedia.
- Software skills and hands on work on digital media will also be emphasized.


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Course No: 202	Course Name: Desktop Publishing	Marks		
		Theory: 40	Practical: 60	Total: 100
Objective: The course is designed with an objective to <ul style="list-style-type: none">➤ Introduce PageMaker, CorelDraw and Photoshop➤ Explain the basics of different kinds of printings				
Learning Outcome: On completion of the course, students will be able to <ul style="list-style-type: none">➤ Create book works, building booklets, completing the book using PageMaker➤ Create business cards, pamphlets, banners, newspapers, books using CorelDraw➤ Use various tools of Photoshop				
PART - A : Theory (TH:202)				
Unit I: PageMaker		Marks: 10		
Page layout Basics, entering text, encoding schemes, defining styles, saving files, creating frame, inserting & removing pages, adding shapes, creating header & footer, using color, printing.				
Unit II: CorelDraw		Marks: 10		
Drawing Shapes & Graphics, Use of basic tools, Logos & Artistic Text, Multicolor Designs, adding special effects, inserting symbols.				
Unit III: Photoshop		Marks: 10		
Image/Photo Editing-Mixing-Enhancements, Creating Digital Images & Backgrounds, Creating Web Graphics.				
Unit IV: Printing		Marks: 10		
Types of Printing an Introduction-Letterpress printing-lithography-offset printing- different printing process-machines for letterpress, offset, gravure, flexography and screen printing-printing materials.				
PART - B : Practical (PR:202)				
➤ Hands on Practice on PageMaker, CorelDraw, Adobe Photoshop, Printing				
Text Books: 1. Taxali R.K., “Simplex Computer Course”, Tata McGraw Hill, 2011. 2. Campbell M., “Pagemaker 7.0 From A to Z”, Independent Publishers Group, 2001. 3. Ocampo P., “Adobe Photoshop CC 2014 for Visual Learners”, 1st Edition, Paolo Ocampo, 2014.				


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Reference Books:

1. Kroenke D., Nilson D., "Microsoft Office 365 in Business", US Edition, Wiley India Pvt. Ltd, 2011.
2. Jain S. "MS Office 2010 Training Guide", BPB Publications, 2010.

Discussion:

- Basic Concept.
- Practical oriented.
- Encoding schemes: ASCII, UNICODE, FONTS
- Watermarking

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POST GRADUATE DIPLOMA OF COMPUTER APPLICATION (P.G.D.C.A) COURSE

Course No: 203	Course Name: Internet & Web Technology	Marks		
		Theory: 60	Practical: 40	Total: 100
Objective: The course is designed with an objective to <ul style="list-style-type: none">➤ Discuss different technology aspects of internet.➤ Explain about importance of E-commerce, internet security,➤ Explain how an internet works.➤ Write program in HTML, java Scripts to design web pages				
Prerequisite: Course 104				
Learning Outcome: On completion of the course, students will be able to <ul style="list-style-type: none">➤ Develop and publish web sites.➤ Resolve Code and troubleshoot HTML web pages, incorporating CSS and JavaScripts.				
PART - A : Theory (TH:203)				
Unit I: Introduction to Internet Marks: 15 Basics of internet, Internet protocols, Internet vs Intranet, ISP, URLs, Email, File Transfer Protocol, Internet chatting, Web Servers ,Web Browsers and their functions, Search Engines, Internet issues, security. Introduction to E-Commerce, Meaning, Objective, challenges and opportunities.				
Unit II: Introduction to HTML Marks: 20 Basics of HTML, HTML Tag, HTML Documents, Head & Body Sections, Building HTML documents, Inserting texts, Images, Hyperlinks, Backgrounds and Color controls, Different HTML tags, Table layout , Use of font size & Attributes, List types and its tags, forms in web pages, CSS definition and application Web publishing				
Unit III: Basics of JavaScript Marks: 15 JavaScript Overview, syntax & conventions. Variables, Expressions, Looping statements, Functions, Arrays Objects, Events - onClick, on Mouse Over, on Submit, on Focus, on Change, on Blur. On Load, onUnload, Alerts, Prompts & Confirms.				
Unit IV: Basic of PHP Marks: 10 Introduction to PHP file, Operators and expressions; Conditional statements and iterations in PHP; Connecting to the Database selecting the Database Table, Executing commands and closing the connection to the Database.				
PART - B : Practical (PR:203)				
<ul style="list-style-type: none">➤ Designing of Web page using HTML, JavaScripts and PHP➤ Web application development				


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Text Books:

1. Jain V.K., "*O Level Module - M 1.2 - Internet & Webpage Designing*" – BPB Publications, 2015
2. Whiteley D., "*E - Commerce: Strategy, Technologies and Applications*", Tata McGraw hill, 1st edition.

Reference Books:

1. Joseph P.T., "*E-Commerce An Indian Perspective (Second Edition)*", S.J. Presentice-Hall of India
2. Leon A. and Leon M., "*Internet for Everyone*", Vikas Publishing House Pvt. Ltd, New Delhi.

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Course No: 204	Course Name: Mobile Technology	Marks		
		Theory: 60	Practical: 40	Total: 100
Objective: The course is designed with an objective to <ul style="list-style-type: none">➤ Discuss different mobile operating system.➤ Discuss different methods for mobile application development.				
Prerequisite: Basic Idea of mobile OS, html.				
Learning Outcome: On completion of the course, students will be able to <ul style="list-style-type: none">➤ Explain different mobile operating system.➤ Discuss various mobile technologies.➤ Develop mobile applications.				
PART - A : Theory (TH:204)				
Unit I: Mobile Terminology Mobile terminology: GSM, CDMA, WAP, GPRS, WCDMA, 3g, 4g, LTE, sensors.				Marks :10
Unit II: Mobile Operating Systems Operating systems concepts, Mobile operating system, Google Android, Apple IOS.				Marks :10
Unit III: Technologies for Mobile Application Development Java, XML, HTML5, J-query, C#.				Marks :20
Unit IV: Application Development Platforms Android studio, Eclipse, App-Builder.				Marks :20
PART - B : Practical (PR:204)				
<ul style="list-style-type: none">➤ Android application development➤ Hybrid Application Development				
Text Books: <ol style="list-style-type: none">1. Horton. J, “Android Programming for Beginners”, Packt Publishing Ltd, Paperback Edition, 20152. Shildit. H, “Java: A beginners Guide”, McGraw Hill Education, Sixth edition 20143. Tahukder A., Yavagal A., “Mobile Computing”, Tata McGraw Hill, 2nd edition 2012				
Reference Books: <ol style="list-style-type: none">3. Horton. J, “Learning Java by Building Android Games”, Packt Publishing Ltd, Paperback Edition, 20154. Schiller J., “Mobile Communication” Pearson education, 2nd edition 2014				


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Discussion:

Brief mentioning of the following:

- BlackBerry OS, Symbian, BADA, Firefox OS, Microsoft's Windows Phone OS, PALM OS, Tizen OS.

Course No:	Course Name:	Project Work	Seminar	Viva	Total
205	Project II	60	20	20	100

Objective:

The course is designed with an objective to

- Implement the concepts in real life applications

Learning Outcome:

On completion of the course, students will be able to

- Use and apply the concepts of courses of the PGDCA programme.

Project Guidelines:

Students will have to implement a minor project based on the subjects covered in the programme. They have to submit a project report and appear for seminar and viva.


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