

Chanchal College

Chanchal, Malda, West Bengal

IAPC/IAPWC Syllabus for UG 2nd Semester Arts, Science & Commerce (NEP 2020)

Title of the Course: **Field work, Field survey and Review**

Paper code: IAPC/IAPWC

Total Credit: 02

Total Hours: 60

A. Environmental Conservation

Objective of the Course:

To impart knowledge about environmental issues, ecological balance, and sustainable development practices for conservation of nature and natural resources.

Course Outcomes:

Understand key environmental concepts and challenges.

Learn about conservation techniques and sustainable living.

Develop skills for environmental impact assessment and eco-restoration.

	COURSE CONTENTS	Hours
Module 1	Introduction to Environment and Ecology, Basics of Environmental Science, Ecosystems: Types and Functions, Biodiversity: Importance and Threats	10
Module 2	Environmental Issues and Resource Management, Natural Resources: Forest, Water, Soil, Environmental Pollution: Air, Water, Soil, Waste Management and Recycling	15
Module 3	Conservation Strategies, Wildlife Conservation, Sustainable Development Goals (SDGs), Role of Local Communities and NGOs	15
Module 4	Laws, Policies and Case Studies, Environmental Protection Acts, International Agreements (e.g., Paris Agreement), Case Studies: Successful Conservation Efforts in India	20

B. Malnutrition

Objective of the Course:

To provide a comprehensive understanding of the causes, types, and consequences of malnutrition and interventions for prevention and treatment.

Course Outcomes:

Identify different forms of malnutrition and their impact on health.

Understand nutritional requirements across age groups.

Learn strategies for prevention and control of malnutrition.

	COURSE CONTENTS	Hours
Module 1	Basics of Nutrition and Malnutrition, Definition and Types of Malnutrition, Nutritional Requirements at Different Life Stages, Macronutrients and Micronutrients	15
Module 2	Causes and Effects of Malnutrition, Socioeconomic and Cultural Factors, Disease and Malnutrition Link, Impact on Physical and Cognitive Development	10
Module 3	Assessment and Intervention, Nutritional Assessment Tools, Food Fortification and Supplementation, Role of Public Health Workers	15
Module 4	Programs and Policies, ICDS, Mid-Day Meal, POSHAN Abhiyan, WHO and UNICEF Initiatives, Community-Based Approaches	20

C. Demographic Survey

Objective of the Course:

To equip students with the skills to collect, analyse, and interpret demographic data for social planning and policy development.

Course Outcomes:

Understand demographic variables and indicators.

Develop competency in survey tools and methodologies.

Analyse demographic trends and their implications.

	COURSE CONTENTS	Hours
Module 1	Introduction to Demography, Key Concepts: Population, Growth, Density, Population Structure (Age, Sex, etc.), Theories of Population	15
Module 2	Demographic Variables, Fertility, Mortality, Migration, Population Projections and Trends, Urbanization and Its Impacts	10
Module 3	Data Collection and Survey Techniques, Designing Questionnaires, Field Work Methods, Use of Census and NSS Data	15
Module 4	Data Analysis and Application, Statistical Tools and Software, Demography in Policy Planning, Report Writing and Presentation	20

D. Waste Water Management

Objective of the Course:

To introduce concepts and technologies for efficient wastewater treatment and reuse to ensure environmental sustainability.

Course Outcomes:

Understand the sources and types of waste water.
Learn methods of wastewater treatment and reuse.
Apply knowledge in designing management systems.

	COURSE CONTENTS	Hours
Module 1	Introduction to Wastewater, Definition and Sources, Characteristics and Classification, Health and Environmental Hazards	10
Module 2	Treatment Technologies, Primary, Secondary, Tertiary Treatment, Septic Tanks and Sewage Treatment Plants, Advanced Treatment Methods	10
Module 3	Reuse and Sustainability, Water Recycling and Reuse in Agriculture, Urban Wastewater Management, Decentralized Systems	20
Module 4	Data Analysis and Application, Statistical Tools and Software, Demography in Policy Planning, Report Writing and Presentation	20

E. Survey of Migrant Workers

Objective of the Course:

To study the socio-economic conditions of migrant workers and develop skills in conducting field surveys and policy analysis.

Course Outcomes:

Gain insights into migration patterns and drivers.
Understand the challenges faced by migrant workers.
Learn to conduct field surveys and write analytical reports.

	COURSE CONTENTS	Hours
Module 1	Migration Basics, Types and Causes of Migration, Profile of Migrant Workers, Push and Pull Factors	15
Module 2	Socioeconomic Impact, Living and Working Conditions, Impact on Families and Children, Issues of Identity and Access	10
Module 3	Survey Methodology, Sampling and Questionnaire Design, Ethical Issues in Field Work, Case Study Approaches	15
Module 4	Policy and Advocacy, Government Welfare Schemes, Role of Civil Society, Reporting and Recommendations	20

F. Film and Media

Objective of the Course:

To explore the role of film and media in society, and develop critical thinking and creative skills for media production and analysis.

Course Outcomes:

Understand media's impact on culture and public opinion.

Learn media production basics.

Analyse films and media texts critically.

	COURSE CONTENTS	Hours
Module 1	Fundamentals of Media and Film, Media Types and Functions, History of Cinema and Media in India, Elements of Film Language	10
Module 2	Media Literacy and Ethics, Media Ownership and Control, Censorship and Regulation, Fake News and Digital Responsibility	15
Module 3	Production Techniques, Scriptwriting and Storyboarding, Camera, Lighting, and Sound Basics, Editing and Post-Production	20
Module 4	Media and Society, Representation of Gender, Class, and Race, Film as a Tool for Social Change, Documentary and Short Film Projects	15

G. Medicinal Plants and Their Usefulness

Objective of the Course:

To explore the identification, cultivation, and therapeutic uses of medicinal plants in traditional and modern medicine.

Course Outcomes:

Identify and describe common medicinal plants.

Understand phytochemistry and pharmacological actions.

Learn about cultivation and sustainable harvesting practices.

	COURSE CONTENTS	Hours
Module 1	Introduction to Medicinal Plants, Historical and Cultural Background, Identification and Classification, Botany of Medicinal Plants	10
Module 2	Phytochemicals and Pharmacology, Active Constituents and Extraction, Mode of Action and Dosage, Toxicity and Side Effects	10
Module 3	Cultivation and Conservation, Cultivation Techniques, Harvesting and Post-Harvest Processing, Threatened Species and Their Protection	20
Module 4	Applications and Case Studies, Traditional Systems (Ayurveda, Siddha), Modern Use in Pharmaceuticals, Case Studies of Key Plants (e.g., Neem, Tulsi, Ashwagandha)	20

H. Gender Discrimination

Objective of the Course:

To understand the roots and manifestations of gender discrimination and explore frameworks for achieving gender equality.

Course Outcomes:

Analyse gender roles and power structures.
Identify types of gender-based discrimination.
Engage in advocacy for gender justice.

	COURSE CONTENTS	Hours
Module 1	Understanding Gender, Concept of Gender vs. Sex, Gender Roles and Socialization, Patriarchy and Gender Stereotypes	15
Module 2	Manifestations of Discrimination, Education, Employment, Health Disparities, Gender-Based Violence, Workplace Inequality	15
Module 3	Legal and Institutional Framework, Constitutional Provisions, Key Laws (e.g., Domestic Violence Act, POCSO), Role of Commissions and NGOs	15
Module 4	Movements and Advocacy, Feminist Movements in India and Globally, Gender Sensitization Campaigns, Media, Art, and Literature as Tools for Change	15

I. Unemployment

Objective of the Course:

To study the causes, consequences, and solutions to unemployment through economic and social perspectives.

Course Outcomes:

Understand types and causes of unemployment.
Learn measurement and policy intervention techniques.
Propose strategies to combat unemployment.

	COURSE CONTENTS	Hours
Module 1	Basics of Unemployment, Definition and Types (Seasonal, Frictional, Structural), Measurement and Indicators, Causes and Consequences	10
Module 2	Labor Market Analysis, Demand and Supply of Labor, Informal Sector Employment, Skill Mismatch and Automation	15
Module 3	Government Interventions, Employment Guarantee Schemes (MGNREGA, PMKVY), Role of Entrepreneurship, Skill Development Initiatives	20
Module 4	Solutions and Global Perspectives, International Case Studies, Youth and Women Employment, Innovation and Digital Economy	15

N.B. Each Department will choose any One form the above mentioned topics.