

**Maulana Abul Kalam Azad University of Technology, West Bengal
(Formerly known as West Bengal University of Technology)
Syllabus of Bachelor of Business Administration
Effective from academic session 2023-2024**

Semester-II

BBACO201 Environment & Sustainable Development

Total Credit: 5

Total hours of lectures: 50 hours

Sl.	Topic/Module	Hours
1	Module 1: Introduction, Multidisciplinary nature, Scope and importance; the need for environmental education. Concept of sustainability and sustainable development.	6
2	Module 2: Ecosystems: Definition, Types of ecosystem: forest, grassland, lentic, lotic, estuarine, marine, desert, wetlands. Structure: food chains, food webs and function of ecosystem: Energy flow, nutrient cycle and ecological succession. Ecosystem management: Concepts; sustainable development; sustainability indicators. Ecological adaptations: Morphological and physiological responses of organisms to temperature and water. Ecological Interactions, Biodiversity and Conservation – Levels, India as a mega-biodiversity nation, Threats to biodiversity, Ecosystem and biodiversity services	10
3	Module 3: Environmental Pollution and its mitigation - Types:- Air pollution, Water pollution, Land pollution, Noise pollution; pollutants, Effects of pollution, Control and Remedial measures.	6
4	Module 4: Global Environmental change issues. Stratospheric ozone layer: Evolution of ozone layer; Causes of depletion and consequences; Global efforts for mitigation ozone layer depletion. Climate change: Greenhouse effects; Drivers of climate change; Greenhouse gases and their sources; Implications on climate, oceans, agriculture, natural vegetation, wildlife and humans; Effects of increased CO ₂ on plants; International efforts on climate change issues.	10
5	Module 5: Environmental Protection- Different Renewable Energy Sources- Wind Power, Water Power, Ocean energy, Bio Fuel/Solid Bio Mass, Geothermal Energy, Nuclear Power, Environmental Movements- Chipko movement; Narmada Bachao movement; Tehri Dam conflict.	8
6	Module 6: Global and national environmental organizations and agencies – UNEP, MAB, IUCN, UNFCCC (COP). Environmental policies: Environmental Regulations Different Acts. International agreements – Montreal protocol 1987; Kyoto protocol 1997; Copenhagen summit 2009; Paris Climate Accords 2015. Carbon credit and carbon trading. Environmental Ethics Environmental Impact Assessment (EIA), EIA – Methods and Tools.	10

Suggested readings:

1. Santra, S.C. 2017. Environmental science, New central book agency (P) Ltd.
2. Patra, M. N. & Singha, R. K. 2022. Basic environmental engineering & Elementary biology, Aryan Publishing House.
3. Radjou, N. & Prabhu, J. 2019. Do better with less: Frugal innovation for sustainable growth, Penguin.
4. Khosla, R. & Siddiqui, Z. H. 2017. Basics of environmental science, Narosa Publishing House.
5. Satpathy, B., Dash, A. P. & Dash, A. 2016. +3 Environmental Science, Kalyani Publishers.

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Paper Code: BBACO 202

Business Economics - Macro

Total Credit: 5

Total hours of lectures: 50 hours

Module / Hours	Content
Mod 1 10 hours	<ul style="list-style-type: none"> • Introduction to Macroeconomics: Concept of Aggregate Demand and Aggregate Supply, Marginal Propensity to Consume(MPC), APC, MPS, MPI, Paradox of thrift • Introduction to Sustainable economics: The 4 pillars of sustainability- human, environmental, social and economic, • Environmental externalities, Economics of natural resource use (non-renewable resources such as oil, gas and metals as well as renewable resources) • Blue economics - economics of sea
Mod 2 10 hours	<ul style="list-style-type: none"> • National Income: Concepts and Definitions, Gross National Product (GNP), Gross Domestic Product (GDP), Net National Product and Net Domestic Product, Personal Income, Disposable Income and Per Capita Income, • Measurement of National Income, Factors That Determine Size of National Income, Double Counting and The Concept of Value Added, Real and Nominal GNP, Deflator • Concept of Business Cycle: Only Different Phases and their basic characteristic
Mod 3 10 hours	<ul style="list-style-type: none"> • Monetary Economics: Evolution of Money, Functions of Money, Bank and its Functions, Indian Money Market, Different Concepts of Money Like M1, M2, M3, M4. • Banks: Commercial Banks – Need and Functions, Credit Creation of Commercial Banks. Co-Operative Banks: Need and Role in an Economy. Reserve Bank of India – Need and Functions, Credit Control Policy. • International Financial Institutions: International Monetary Fund (IMF), International Bank for Reconstruction and Development (IBRD), Asian Development Bank, New Development Bank,
Mod 4 10 hours	<ul style="list-style-type: none"> • Public Finance: Public Revenue- Concept of Taxes, Sources of Revenue of Central and State Government, GST, CGST, SGST (only definition). • Finance Commission of India – role and importance

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	<ul style="list-style-type: none"> • Public Expenditure: Types of Public Expenditure, Its Need Role and Importance. Public Debt: Types of Public Debt, Need for Public Debt, Redemption of Public Debt. Deficit Financing: Role and Importance. • Budget: Need and Types, Concept of Different Types of Deficit (Revenue Deficit. Budgetary Deficit, Fiscal deficit and Primary Deficit • Concept of Inflation: Definition of Inflation, Types of Inflation, Effects of Inflation, Anti-Inflationary Measures
<p>Mod 5 10 hours</p>	<ul style="list-style-type: none"> • International Trade and Finance: Need for international trade, Absolute and Comparative Cost Advantage Theory, (only concepts) Gains from international trade, • Balance of Payments: Items of BOP, Causes of Disequilibrium in BOP, • Strategies to Correct Adverse BOP Situation, Purchasing Power Parity (Only basic concept), • Economics of international environmental problems – environmental taxes, environmental standards, climate funds

Suggested books:

- **Macroeconomics: Principles, Problems, & Policies (Irwin Economics)**
- **Principles of Macroeconomics (Mankiw's Principles of Economics)**
- **Economics (SIE) | 20th Edition, Paul A. Samuelson, William D. Nordhaus,**
- **Additional readings: The Economic and Political weekly, the Economic Times, IMF, WTO, World Bank, Ministry of Finance, RBI websites.**