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Life SCIENCE and ENVIRONMENT



Based On National Education Policy 2020. Four Year Undergraduate Programme (FYUGP) 2nd Semester Multidisciplinary Course (MDC)
Gauhati University



Kashmita Ojah

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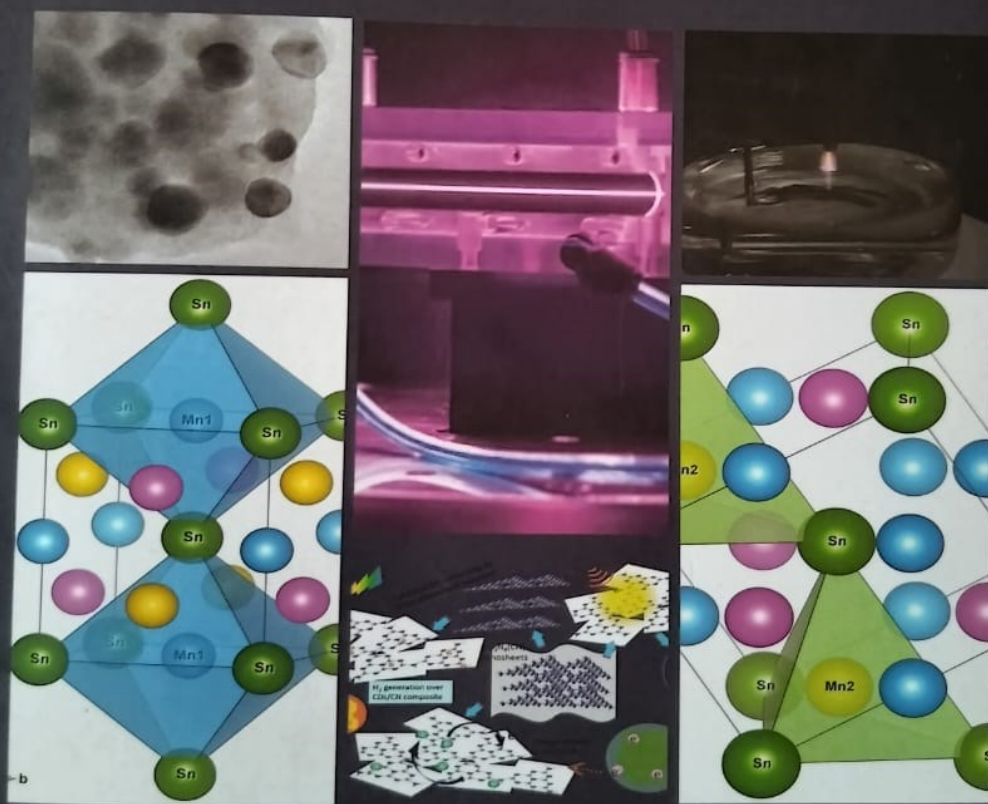
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VOLUME 1

NEW EDITION

TRENDS OF PHYSICS RESEARCH IN NORTHEAST INDIA



EDITORS: DR. RANJIT CHOUDHURY
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13

Advances in Sheath studies in the field of Plasma Physics

Binita Borgohain*

S. B. Deorah College, Guwahati - 781007, Assam

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Abstract

Sheath studies is one of the oldest known to the plasma community. It helps in understanding how plasma interacts with the walls of the surface confining the plasma. The interaction of a foreign object when immersed in plasma can also be understood by investigating the sheath formed around the object. Over the years the plasma community have performed many theoretical as well as experimental examinations to understand the same. The chapter gives the review of the sheath studies carried out over two decades in North East India.

Keywords: Bohm-sheath criterion, Sheath, Presheath, Multicomponent plasma

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& 6th Semester (Regular) Course
Under Gauhati University



Trisha Moni Talukdar

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BASICS OF COMMERCE & MANAGEMENT

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Four Year Undergraduate Programme
(FYUGP) 1st semester
Multidisciplinary Course (MDC)
Gauhati University



Rashmita Borgohain
Trisha Moni Talukdar

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UNIT-I

FOUNDATION OF BUSINESS

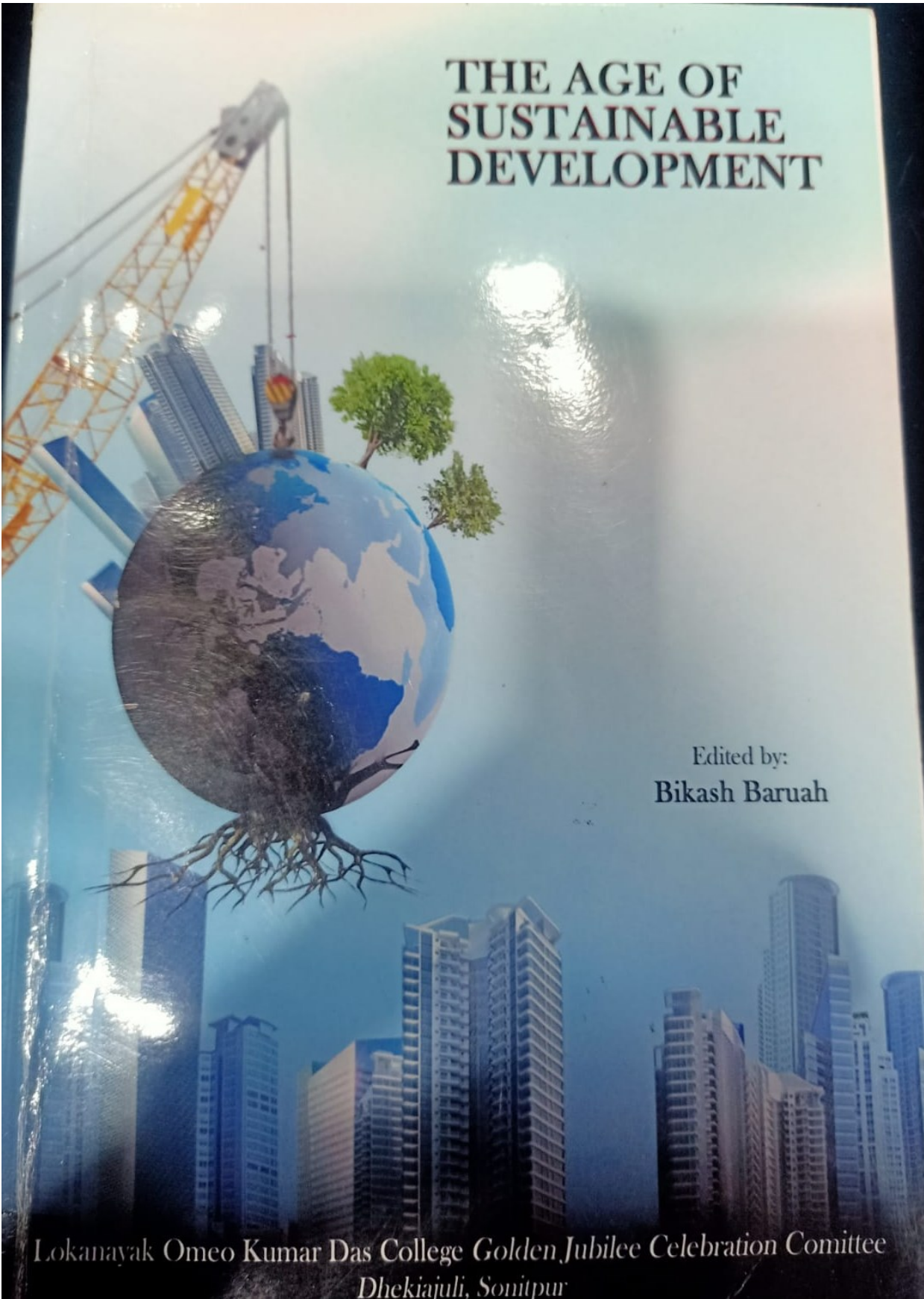
Every human has a particular set of needs. In order to satisfy such demands, people must engage in one activity or another. Economic and non-economic activities are two categories for human activity. Activities that pertain to human efforts can be roughly divided into those that are economic and those that are not, with each playing a different function within society.

ECONOMIC ACTIVITIES:

Economic activities are actions or processes undertaken with the primary objective of earning a livelihood, creating wealth, or generating income. They involve the production, distribution, and consumption of goods and services for monetary gain. The central purpose of economic activities is to meet the material and financial needs of individuals, organizations, and society as a whole. These activities are profit-driven and seek to optimize resource allocation for efficiency and productivity. Economic activities are typically quantifiable in monetary terms, making it easier to assess their value and impact on the economy.

Examples:

- **Production:** Manufacturing, agriculture, mining, and construction.

The book cover features a central illustration of a globe. The top half of the globe is blue and white, representing the Earth's surface. The bottom half is dark and shows a tree with its roots extending downwards. To the left, a yellow construction crane is lifting the globe. In the background, there are several tall, modern skyscrapers. The overall scene is set against a light blue sky with a bright sun or moon in the upper right.

THE AGE OF SUSTAINABLE DEVELOPMENT

Edited by:
Bikash Baruah

*Lokanayak Omeo Kumar Das College Golden Jubilee Celebration Committee
Dhekiajuli, Sonitpur*

A CASE STUDY ON CORPORATE SOCIAL RESPONSIBILITY INITIATIVES OF STAR CEMENT LIMITED

Abstract

Corporate social responsibility is part of a company's approach to corporate governance and often touches every part of the business—operations, human resources, manufacturing, supply chain, health and safety, and more. Companies establish good reputations, attract positive attention, save money through operational efficiency, minimize environmental impacts, attract top talent and inspire innovation. Public companies often report on their CSR performance in their annual reports. CSR matters for companies because if the community does not approve of how they do business, they may lose customers or see their reputations suffer. The news media and activist groups often watch companies closely and are quick to publicize instances of irresponsible behaviour. The Objectives of the Study are to know the various CSR activities done by Star Cement Limited and to know how the CSR activities done by Star Cement Limited have benefitted various segments of the society. Star Cement Limited is a company which is actively involved in various CSR Activities in the field of Health, Education, Waste Management, Rural Development, Environment etc

Key Words : Corporate Social Responsibility, Star Cement Limited, Society, Corporate Governance, Environment Impact.

1. INTRODUCTION :

Meaning of Corporate Social Responsibility (CSR)

Trishna Moni Talukdar

Asstt. Professor, Dept. of Commerce

SB Deorah College

INTRODUCTION TO NATURAL AND PHYSICAL SCIENCES

MDC : PAPER I

B.A/B.Sc/B.Com 1st semester under

Four Year Undergraduate Programme (FYUGP) Multi-Disciplinary Course
Based on National Education Policy (NEP-2020)

Gauhati University



Dr. Sagar Sharma
Dr. Jayanta Kumar Nath
Ms. Krishna Nath

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**A TEXTBOOK OF
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SCIENCES
MDC : PAPER - I**

Prepared for

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Four-Year Undergraduate Programme (FYUGP)

As per NEP, 2020 Syllabus

Gauhati University

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(MDC-1)

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(No Practical Component)

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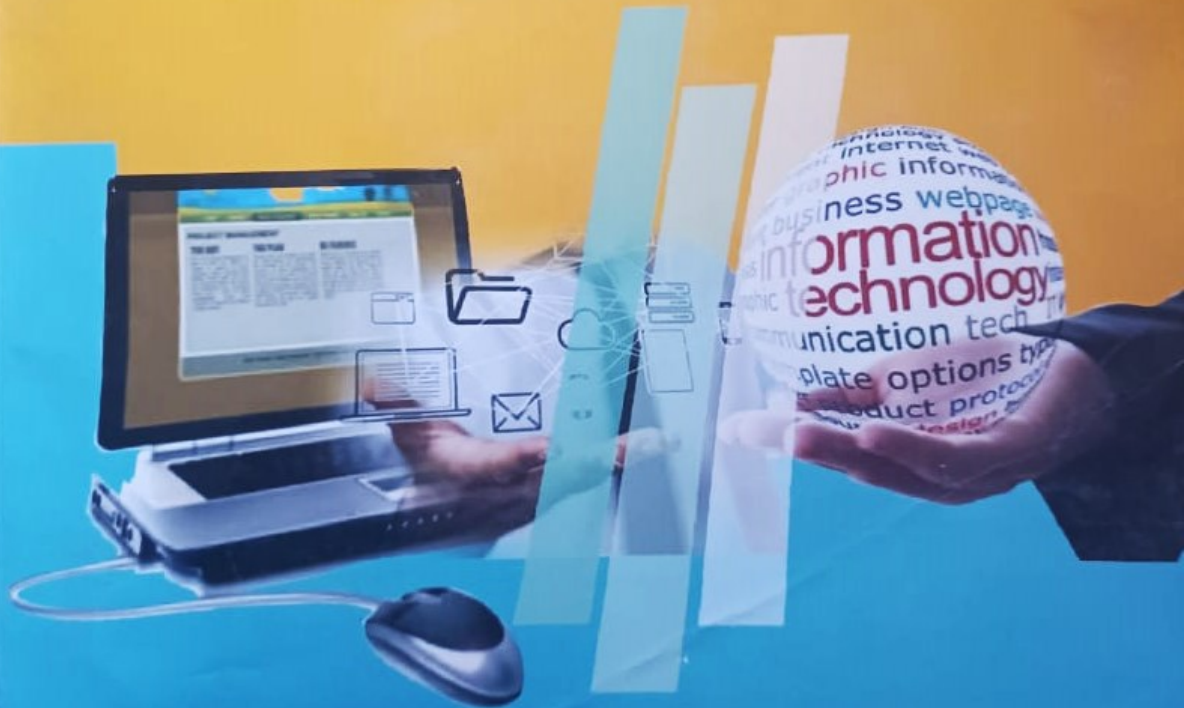
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INFORMATION TECHNOLOGY IN BUSINESS

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Chayanika Sarmah

SYLLABUS
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Definition of a computer system, hardware, software, I/O devices, storage devices, other peripheral devices, CPU and its functions, communication among various parts of a computer system, memory measurement units, Data Information and knowledge, role of IT in information generation, management and decision making.

Unit 2 : INTRODUCTION TO THE SYSTEM SOFTWARE

Definition, different types of system software, different functions, introduction to resource management, memory management, I/O management, process management, deadlock, deadlock avoidance and prevention.

Unit 3 : INTRODUCTION TO THE COMPUTER NETWORKS

Fundamentals of computer networks and the internet, brief introduction to the OSI and the TCP/IP model, different layers and protocols, routing, different devices in different layers, network topologies, introduction to wireless technologies, security in computer networks, computer virus, the world wide web, search engines and their business prospective.

Unit 4 : INTRODUCTION TO MS-OFFICE 2010/11

Different MS-Office tools, working with MS-word, creating, editing, formatting and printing documents, working with MS-Excel, data sorting, formulas and functions, graph creation, creating simple and animated presentations with MS- PowerPoint, using MS-Access to create small databases and the respective forms to enter, edit, and delete data.

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INFORMATION TECHNOLOGY IN BUSINESS

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**CONTEMPORARY ISSUES IN COMMERCE
MANAGEMENT AND
SOCIAL SECTOR DEVELOPMENT**



**Editor
Nupam Kumar Palit**

A STUDY ON TIPPING HABITS OF CUSTOMER IN RESTAURANTS WITH SPECIAL REFERENCE TO GUWAHATI CITY

- Trisha Moni Talukdar
- Dr. Uttam Kumar Baruah

Most people would rather not offend, or at least shun disapproval, verbal or nonverbal, or other negative reactions, such as less friendly behaviour and slower service. Some tip to avoid guilty feelings, and many others derive pleasure from their generosity. Of course, speedy, friendly service is the major motivator. In fact, the word tip is derived from "To Insure Promptitude".

Introduction

There has been unanimity in the opinion among researchers about the origin of the word "Tip". It is argued that the term 'tips' has been derived from the Latin word "stips" meaning "gift", while it is also claimed that this word is related to Dutch word "Tippen" which means "Tap" "as "tapping the table with a coin to get the attention of the service provider", while others perceive that it was connected with gypsy statement "Tipper me your money" (Lynn et al., 1993). According to Lynn tipping is an out of bill amount offered by clients to hotel or restaurant staffs token of love for services rendered which reflects a form of social behaviour in consonance with values and customs. Thus, to 'tip the waiter or service providers' in hotels and restaurants exemplifies giving of money, as a gift for good service or entertainment rendered to the guests. "Tipping is a universal language in itself, because we all use tipping to



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