## **Lesson Plan For**

## **Environmental Science (2022-23)**

## **Department of Metallurgical Engineering**

## **UGIE Rourkela**

Discipline: Metallurgical Engineering

Subject: Environmental Science

Semester: 6th

Total Period allotted: 60

Period per week: 4

Name of the Teaching Faculty: Amarjit Mohanta

Week	Class No		Lecture Topics
1	1	Entrepreneurship	Concept /Meaning
			of Entrepreneurship
	2		Need of
			Entrepreneurship
	3		Characteristics,
			Qualities and Types
			of entrepreneur,
			Functions
	4		Barriers in
			entrepreneurship
2	5		Entrepreneurs vs
			Manager
	6		Forms of Business
			Ownership: Sole
			proprietorship
	7		partnership
	8		Types of Industries,
			Concept of Start-
			ups
3	9		Entrepreneurial
			support agencies at
			National, State,
			District Leve
	10		Technology
			Business Incubators
			(TBI) and Science

			and Technology
			Entrepreneur Parks
	11	Market Survey and	Business Planning
	12	Opportunity	SSI, Ancillary Units,
		Identification	Tiny Units
4	13		Service sector Units
	14		Time schedule Plan,
			Agencies to be
			contacted for
			Project
			Implementation
	15		Assessment of
			Demand and supply
			and Potential areas
			of Growth
	16		Identifying Business
			Opportunity
5	17		Final Product
			selection
	18		Class Test
	19	Project report	Preliminary project
		Preparation	report
	20		Detailed project
			report
6	21		Techno economic
			Feasibility
	22		Project Viability
	23	Management	Definitions of
		Principles	management
	24		Principles of
			management
7	25		planning, organizing
	26		staffing, directing
			and controlling
	27		Level of
			Management in an
			Organization
	28	Functional Areas of	Class Test
8	29	Management	Production
			management
			Functions, Activities
			Productivity

	20		Quality control
	30		Quality control
			Production Planning
	0.4		and control
	31		Inventory
			Management Need
			for Inventory
			management
			Models/Techniques
			of Inventory
			management
	32		Financial
			Management
			Functions of
			Financial
			management
			Management of
			Working capital
			Costing (only
			concept)
9	33		Break even Analysis
	34		Brief idea about
			Accounting
			Terminologies: Book
			Keeping, Journal
			entry, Petty Cash
			book, P&L
			Accounts, Balance
			Sheets(only
			( - )
			Concepts)
	35		Concepts) Marketing
	35		Marketing
	35		Marketing Management
	35		Marketing Management Concept of
	35		Marketing Management Concept of Marketing and
	35		Marketing Management Concept of Marketing and Marketing
	35		Marketing Management Concept of Marketing and Marketing Management
	35		Marketing Management Concept of Marketing and Marketing Management Marketing
	35		Marketing Management Concept of Marketing and Marketing Management Marketing Techniques (only
			Marketing Management Concept of Marketing and Marketing Management Marketing Techniques (only concepts)
	35		Marketing Management Concept of Marketing and Marketing Management Marketing Techniques (only concepts) Concept of 4P s
			Marketing Management Concept of Marketing and Marketing Management Marketing Techniques (only concepts)

10	37		Functions of
	07		Personnel
			Management
	38	_	Manpower Planning,
	36		Recruitment
	20	Loodorobin and	
	39	Leadership and	Leadership
		Motivation	Definition and
			Need/Importance
			Qualities and
		<u> </u> <del> </del>	functions of a leader
	40		Manager Vs Leader
			Style of Leadership
			(Autocratic,
			Democratic,
			Participative)
11	41		Motivation
			Definition and
			characteristics
			Importance of
			motivation
	42		Factors affecting
			motivation
	43		Theories of
			motivation (Maslow)
	44		Methods of
			Improving
			Motivation
			Importance of
			Communication in
			Business Types and
			Barriers of
			Communication
12	45	Work Culture, TQM	Human relationship
		& Safety	and Performance in
			Organization
	46	-	Relations with
			Peers, Superiors
			and Subordinates
	47	-	TQM concepts:
	77		Quality Policy,
			Quality
			_
			Management,
			Quality system

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	48		Accidents and
			Safety, Cause,
			preventive
			measures, General
			Safety Rules ,
			Personal Protection
			Equipment(PPE)
13	49	Legislation	Intellectual Property
			Rights(IPR)
	50		Patents,
			Trademarks,
			Copyrights
	51		Features of
			Factories Act 1948
			with Amendment
	52		Features of
			Factories Act 1948
			with Amendment
14	53		Features of
			Payment of Wages
			Act 1936
	54		Features of
			Payment of Wages
			Act 1936
	55	Smart Technology	Concept of IOT
	56		How IOT works
15	57		Components of IOT,
			Characteristics of
			IOT, Categories of
			IOT
	58		Applications of IOT-
			Smart Cities, Smart
			Transportation,
			Smart Home, Smart
			Healthcare, Smart
			Industry, Smart
			Agriculture, Smart
			Energy Management
			etc.
	59		Class Test
	60		Revision
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