

**Lesson Plan for
ENTREPRENEURSHIP and MANAGEMENT & SMART TECHNOLOGY**

5th Sem. Mechanical Engg. (2022)

Discipline: Mechanical Engg	Semester: 5th	Name of the Teaching Faculty: P.R SAMANTRAY
Subject: ENTREPRENEURSHIP and MANAGEMENT & SMART TECHNOLOGY	No. of Days/ week class allotted=4	Semester From date: 15.09.2022 To Date: 22.12.2022 No. of Weeks:

WEEK	PERIOD	TOPICS TO BE COVERED
01	01	INTRODUCTION TO SUBJECT
	02	Concept /Meaning of Entrepreneurship
	03	Need of Entrepreneurship, Characteristics, Qualities and Types of entrepreneur, Functions
	04	Characteristics, Qualities and Types of entrepreneur, Functions
02	01	Differentiate between cold rolling and hot rolling process.
	02	Barriers in entrepreneurship
	03	Entrepreneurs vrs. Manager
	04	Forms of Business Ownership: Sole proprietorship, partnership forms and others
03	01	Types of Industries, Concept of Start-ups
	02	SIDBI, NABARD, Commercial Banks, KVIC etc
	03	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
	04	Business Planning
04	01	SSI, Ancillary Units, Tiny Units, Service sector Units
	02	Time schedule Plan, Agencies to be contacted for Project Implementation
	03	Assessment of Demand and supply and Potential areas of Growth
	04	Identifying Business Opportunity
05	01	Rivision Class
	02	Doubt Class
	03	Preliminary project report
	04	Detailed project report, Techno economic Feasibility
06	01	Project Viability
	02	Definitions of management
	03	Principles of management
	04	Functions of management (planning, organising, staffing, directing and controlling etc.)
07	01	Level of Management in an Organisation
	02	Production management
	03	Inventory Management
	04	Need for Inventory management, Models/Techniques of Inventory management
08	01	Functions of Financial management, Management of Working capital
	02	Costing (only concept), Break even Analysis
	03	Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Pet

		Cash book, P&L Accounts, Balance Sheets(only Concepts)
	04	Functions of Personnel Management
09	01	Concept of Marketing and Marketing Management, Marketing Techniques, Concept of 4P s (Price, Place, Product, Promotion)
	02	Manpower Planning, Recruitment, Sources of manpower
	03	Selection process, Method of Testing
	04	, Methods of Training & Development, Payment of Wages
10	01	Leadership, Definition and Need/Importance
	02	Qualities and functions of a leader, Manager Vs Leader
	03	Style of Leadership (Autocratic, Democratic, Participative)
	04	Motivation, Definition and characteristics , Importance of motivation
11	01	Factors affecting motivation, Theories of motivation (Maslow)
	02	Methods of Improving Motivation, Importance of Communication in Business
	03	Types and Barriers of Communication
	04	Work Culture, TQM & Safety
12	01	Human relationship and Performance in Organization · Relations with Peers, Superiors and Subordinates
	02	TQM concepts: Quality Policy, Quality Management, Quality system
	03	Accidents and Safety, Cause, preventive measures
	04	, General Safety Rules , Personal Protection Equipment(PPE)
13	01	Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights
	02	Features of Factories Act 1948 with Amendment (only salient points)
	03	Features of Payment of Wages Act 1936 (only salient points)
	04	Concept of IOT, How IOT works
14	01	Components of IOT, Characteristics of IOT, Categories of IOT
	02	Applications of IOT- Smart Cities, Smart Transportation
	04	Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management
	05	Revision Class
15	01	Doubt Class
	02	Previous year question discussion
	03	Previous year question discussion

P. R. Samantaray
Concerned faculty

P. R. Samantaray
HOD 20/9/22
Govt. Polytechnic Kandhamal

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