		LESSON PLAN
Discipline: Mechanical Engg	Semester :5th (Common to All	Name of the Teaching Faculty: Rashmi Ranjan Lenka
which FR AND CT (T)	Branches)	
ubject: E & M & ST (Th-1)	No. Of Days/per Week Class Allotted: <b>04</b>	Semester From date: 01.07.2024 To Date: 08.11.2024
	Allotted.04	No of weeks-15
Week	Class Day	Theory Topics
1 <sup>st</sup>		1. Entrepreneurship
	1 <sup>st</sup>	Introduction to the Subject, Entrepreneur, Definition of Entrepreneur Conce /Meaning of Entrepreneurship
	2 <sup>nd</sup>	Need of Entrepreneurship
	3 <sup>rd</sup>	Characteristics, Qualities and Types of Entrepreneur, Functions
	4 <sup>th</sup>	Barriers in Entrepreneurship
2 <sup>nd</sup>	1 <sup>st</sup>	Entrepreneurs Vs. Manager
	2 <sup>nd</sup>	Forms of Business Ownership: Sole proprietorship, Partnership forms and
	2	others forms of Business Organisation
	3 <sup>rd</sup>	Types of Industries, Concept of Start-ups
	4 <sup>th</sup>	Entrepreneurial support agencies at National, State, District Level(Sources):
	4	DIC, NSIC, OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
	1 <sup>st</sup>	Technology Business Incubators (TBI) and Science and Technology
	1	Entrepreneur Parks
	2 <sup>nd</sup>	Developing MSME Enterprises, generating national wealth, creating wage &
3 <sup>rd</sup>	2	Self-Employment
	3 <sup>rd</sup>	2. Market Survey and Opportunity Identification (Business Planning)
		Business Planning
	4 <sup>th</sup>	SSI, Ancillary Units, Tiny Units, Service Sector Units
4 <sup>th</sup>	1 <sup>st</sup>	Time schedule Plan
	2 <sup>nd</sup>	Agencies to be contacted for Project Implementation
	3 <sup>rd</sup>	Assessment of Demand and Supply and Potential areas of Growth
	4 <sup>th</sup>	criteria for selection of Small Enterprise
5 <sup>th</sup>	1 <sup>st</sup>	Identifying Business Opportunity
		Major criteria for final selection Business Opportunity, Q & A Discussion as p
	2 <sup>rd</sup>	SCTE & VT Exam Pattern , Monthly Class Test-1
	ed .	3. Project report Preparation
	3 <sup>rd</sup>	Preliminary Project Report
	4 <sup>th</sup>	Detailed Project Report, Techno Economic Feasibility
	1st	Project Viability
6 <sup>th</sup>	2 <sup>nd</sup>	Sample of a Preliminary Project Report and Detailed Project Report(DPR)
		4. Management Principles
	3 <sup>rd</sup>	Definitions of Management, Meaning of Management
	# lin	Importance of Management, Difference between Management &
	4 <sup>th</sup>	Administration
7 <sup>th</sup>	1 <sup>st</sup>	Principles of Management, Principle of Scientific Management
		Functions of Management (Planning, Organising, Staffing, Directing and
	2 <sup>nd</sup>	Controlling etc.)
	3 <sup>rd</sup>	Levels of Management in an Organisation
		5. Functional Areas of Management
	ath	a) Production management
	4 <sup>th</sup>	Functions, Activities, Productivity
8 <sup>th</sup>	1 <sup>st</sup>	Quality control, Production Planning and Control
	and	b) Inventory Management
	2 <sup>nd</sup>	Need for Inventory management
	3 <sup>rd</sup>	Models/Techniques of Inventory management
O DED		c) Financial Management
SOLUTION OF THE PROPERTY OF TH	_th	Functions of Financial management, Management of Working capital, Costing
	4 <sup>th</sup>	(Only Concept)
	1 <sup>st</sup>	Break even Analysis, Brief idea about Accounting Terminologies: Book Keeping
1818	1"	Journal entry, Petty Cash book
CHO TO	2 <sup>nd</sup>	P & L Accounts, Balance Sheets(Only Concepts)

		162
9 <sup>th</sup>	3 <sup>rd</sup>	d) Marketing Management Concept of Marketing and Marketing Management, Marketing Techniques (Only Concepts), Concept of 4P's (Price, Place, Product, Promotion)
	4 <sup>th</sup>	e) Human Resource Management Functions of Personnel Management, Manpower Planning, Recruitment, Sources of Manpower
10 <sup>th</sup>	1 <sup>st</sup>	Selection process, Method of Testing, Methods of Training & Development Payment of Wages, Q & A Discussion as per SCTE & VT Exam Pattern, Month Class Test-2
	2 <sup>nd</sup> 3 <sup>rd</sup>	6. Leadership and Motivation a) Leadership, Definition and Need/Importance
	4 <sup>th</sup>	Qualities and functions of a Leader
	4	Manager Vs Leader, Style of Leadership (Autocratic, Democratic, Participative)
	1st	b) Motivation Definition and Characteristics, Importance of Motivation
11 <sup>th</sup>	2 <sup>nd</sup>	Factors affecting Motivation, Theories of Motivation (Maslow), Methods of Improving Motivation
	3 <sup>rd</sup>	Importance of Communication in Business, Types and Barriers of Communication, Q & A Discussion as per SCTE & VT Exam Pattern
	4 <sup>th</sup>	7. Work Culture, TQM & Safety  Human relationship and Performance in Organization
	1st	Relations with Peers, Superiors and Subordinates
12 <sup>th</sup>	2 <sup>nd</sup>	TQM concepts: Quality Policy, Quality Management, Quality System
	3 <sup>rd</sup>	Accidents and Safety, Cause, Preventive measures
	4 <sup>th</sup>	General Safety Rules, Personal Protection Equipment(PPE)
13 <sup>th</sup>	1 <sup>st</sup>	8. Legislation Introduction
	2 <sup>nd</sup>	a) Intellectual Property Rights (IPR), Patents
	3 <sup>rd</sup>	Trademarks, Copyrights, Examples
	4 <sup>th</sup>	b) Features of Factories Act 1948 with Amendment (Only Salient Points)
	1 <sup>5t</sup>	Major Provisions of Factories Act relating to Health & Welfare
	2 <sup>nd</sup>	Duties and Power of Factory Inspector
14 <sup>th</sup>	3 <sup>rd</sup>	9. Smart Technology What is Smart Technology, Introduction to Smart Technology
	4 <sup>th</sup>	Concept of IOT, How IOT works, Components of IOT
	1 <sup>st</sup>	Characteristics of IOT, Categories of IOT
	2 <sup>nd</sup>	Applications of IOT- Smart Cities, Smart Transportation, Smart Home
15 <sup>th</sup>	3 <sup>rd</sup>	Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.
	4 <sup>th</sup>	Advantages of Smart Technology, Q & A Discussion as per SCTE & VT Exam pattern, Monthly Class Test-3, Revision of previous Chapter Taught

## RECOMMENDED BOOKS

- Entrepreneurship Development and Management by R.K Singhal, Katson Books., New Delhi 1.
- Entrepreneurship Development and Management by U Saroj and V Mahendiratta, Abhishek Publications, Chandigarh 2.
- Entrepreneurship Development and Management by Vasant Desai, Himalaya Pub. House 3.
- Industrial Engineering and Management by O.P Khanna , Dhanpat Rai and Sons 4.
- Industrial Engineering and Management by Banga and Sharma, Khanna Publications 5.
- Internet of Things by Jeeva Jose, Khanna Publications, New Delhi 6.
- Online Resource on Startups and other concepts 7.
- https://www.fundable.com/learn/resources/guides/startup

29:06:24

Principal

OIET (Polytee)
Invatour, Civi

Prepared By

Rashmi Ranjan Lenka

Sr. Lecturer, Mechanical Engg Deptt G.I.E.T (Polytechnic), Jagatpur, Cuttack-754200, Odisha