

Discipline: <u>MECHANICAL</u>	Semester: <u>5th</u>	Name of the Teaching Faculty: <i>Sri Laxmidhar Sethy, Sr. Lect.(Comp. Sc.</i>
Subject: ENTREPRENEURSHIP and MANAGEMENT & SMART TECHNOLOGY	No. of days/per week class allotted: 4	Semester From date: 15/09/2022 To date: No of weeks: 15
Week	Class Day	Theory Topics:
1st	1st	INTRODUCTION: Entrepreneurship
	2nd	Concept /Meaning of Entrepreneurship
	3rd	Need of Entrepreneurship
	4th	Need of Entrepreneurship
2nd	1st	Characteristics, Qualities and Types of entrepreneur, Functions
	2nd	Characteristics, Qualities and Types of entrepreneur, Functions
	3rd	Barriers in entrepreneurship
	4th	Barriers in entrepreneurship
3rd	1st	Entrepreneurs vrs. Manager
	2nd	Forms of Business Ownership: Sole proprietorship, partnership forms and others
	3rd	Types of Industries, Concept of Start-ups
	4th	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc
4th	1st	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
	2nd	INTRODUCTION: Market Survey and Opportunity Identification (Business Planning.
	3rd	Business Planning
	4th	SSI, Ancillary Units, Tiny Units, Service sector Units
5th	1st	SSI, Ancillary Units, Tiny Units, Service sector Units
	2nd	Time schedule Plan, Agencies to be contacted for Project Implementation
	3rd	Time schedule Plan, Agencies to be contacted for Project Implementation
	4th	Assessment of Demand and supply and Potential areas of Growth

6 th	1 st	Identifying Business Opportunity
	2 nd	Final Product selection
	3 rd	INTRODUCTION: Project report Preparation
	4 th	Preliminary project report
7 th	1 st	Detailed project report, Techno economic Feasibility
	2 nd	Project Viability
	3 rd	INTRODUCTION: Management Principle
	4 th	Definitions of management
8 th	1 st	Principles of management
	2 nd	Functions of management (planning, organising, staffing, directing and controlling etc.)
	3 rd	Functions of management (planning, organising, staffing, directing and controlling etc.)
	4 th	Level of Management in an Organisation
9 th	1 st	Functional Areas of Management
	2 nd	a) Production management Functions, Activities• Productivity• Quality control• Production Planning and control• .
	3 rd	a) Production management Functions, Activities• Productivity• Quality control• Production Planning and control•
	4 th	b) Inventory Management Need for Inventory management• Models/Techniques of Inventory management•
10 th	1 st	b) Inventory Management Need for Inventory management• Models/Techniques of Inventory management•
	2 nd	c) Financial Management Functions of Financial management• Management of Working capital• Costing (only concept)• Break even Analysis• Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash• book, P&L Accounts, Balance Sheets(only Concepts
	3 rd	c) Financial Management Functions of Financial management• Management of Working capital• Costing (only concept)• Break even Analysis• Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash• book, P&L Accounts, Balance Sheets(only Concepts.
	4 th	d) Marketing Management Concept of Marketing and Marketing Management• Marketing Techniques (only concepts)• Concept of 4P s (Price, Place, Product, Promotion)•

11 th	1 st	d) Marketing Management Concept of Marketing and Marketing Management• Marketing Techniques (only concepts)• Concept of 4P s (Price, Place, Product, Promotion)•.
	2 nd	e) Human Resource Management Functions of Personnel Management• Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of• Testing, Methods of Training & Development, Payment of Wage
	3 rd	e) Human Resource Management Functions of Personnel Management• Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of• Testing, Methods of Training & Development, Payment of Wage
	4 th	INTRODUCTION: Leadership and Motivation
12 th	1 st	a) Leadership Definition and Need/Importance• Qualities and functions of a leader• Manager Vs Leader• Style of Leadership (Autocratic, Democratic, Participative•
	2 nd	b) Motivation Definition and characteristics• Importance of motivation• Factors affecting motivation• Theories of motivation (Maslow)• Methods of Improving Motivation• Importance of Communication in Business• Types and Barriers of Communication•
	3 rd	b) Motivation Definition and characteristics• Importance of motivation• Factors affecting motivation• Theories of motivation (Maslow)• Methods of Improving Motivation• Importance of Communication in Business• Types and Barriers of Communication•
	4 th	INTRODUCTION: Work Culture, TQM & Safety
13 th	1 st	Human relationship and Performance in Organization
	2 nd	Relations with Peers, Superiors and Subordinates
	3 rd	TQM concepts: Quality Policy, Quality Management, Quality system
	4 th	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE
14 th	1 st	INTRODUCTION: Legislation
	2 nd	a) Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights
	3 rd	b) Features of Factories Act 1948 with Amendment (only salient points)
	4 th	c) Features of Payment of Wages Act 1936 (only salient points
15 th	1 st	INTRODUCTION: Smart Technology
	2 nd	Concept of IOT, How IOT works
	3 rd	Components of IOT, Characteristics of IOT, Categories of IOT
	4 th	Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.