

# LESSON PLAN

**DEPARTMENT OF MECHANICAL ENGINEERING, ITT, CHOUDWAR**

**SUBJECT:ENTREPRENEURSHIP and MANAGEMENT & SMART TECHNOLOGY**

**Periods:**2 class days per week      **SEMESTER:**5<sup>th</sup>

**NAME OF FACULTY:**SANJAYA KUMAR NAYAK, LECTURER (MECH)    **No. of weeks:** 15

Week	Class Day	Theory / Practical Topics
1st	1 <sup>st</sup>	Concept /Meaning of Entrepreneurship Need of Entrepreneurship, Characteristics, Qualities and Types of entrepreneur, Functions
	2 <sup>nd</sup>	Barriers in entrepreneurship <input type="checkbox"/> Entrepreneurs vrs .Manager
2 <sup>nd</sup>	1 <sup>st</sup>	Forms of Business Ownership: Sole proprietorship, partnership forms and others <input type="checkbox"/> Types of Industries, Concept of Startups
	2 <sup>nd</sup>	Entrepreneurial support agencies at National, State, District Level( Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
3 <sup>rd</sup>	1 <sup>st</sup>	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
	2 <sup>nd</sup>	Business Planning <input type="checkbox"/> SSI, Ancillary Units, Tiny Units, Service sector Units
4 <sup>th</sup>	1 <sup>st</sup>	Time schedule Plan, Agencies to be contacted for Project Implementation
	2 <sup>nd</sup>	Assessment of Demand and supply and Potential areas of Growth
5 <sup>th</sup>	1 <sup>st</sup>	Identifying Business Opportunity <input type="checkbox"/> Final Product selection
	2 <sup>nd</sup>	Preliminary project report
6th	1 <sup>st</sup>	Preliminary project report
	2 <sup>nd</sup>	Detailed project report, Techno economic Feasibility
7th	1 <sup>st</sup>	Project Viability
	2 <sup>nd</sup>	<b>Management Principles</b>
8th	1 <sup>st</sup>	Definitions of management
	2 <sup>nd</sup>	Principles of management
9th	1 <sup>st</sup>	Functions of management (planning, organising, staffing, directing and controlling etc.)
	2 <sup>nd</sup>	Level of Management in an Organisation
10th	1 <sup>st</sup>	<b>Functional Areas of Management</b> a) Production management <input type="checkbox"/> Functions, Activities <input type="checkbox"/> Productivity <input type="checkbox"/> Quality control <input type="checkbox"/> Production Planning and control
	2 <sup>nd</sup>	b) Inventory Management <input type="checkbox"/> Need for Inventorymanagement <input type="checkbox"/> Models/Techniques of Inventory management
11th	1 <sup>st</sup>	c) Financial Management <input type="checkbox"/> Functions of Financial management <input type="checkbox"/> Management of Working capital <input type="checkbox"/> Costing (only concept) <input type="checkbox"/> Break even Analysis

		<input type="checkbox"/> Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)
	2 <sup>nd</sup>	<b>d) Marketing Management</b> <input type="checkbox"/> Concept of Marketing and Marketing Management <input type="checkbox"/> Marketing Techniques (only concepts) <input type="checkbox"/> Concept of 4P s (Price, Place, Product, Promotion)
12th	1 <sup>st</sup>	<b>e) Human Resource Management</b> <input type="checkbox"/> Functions of Personnel Management <input type="checkbox"/> Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages
	2 <sup>nd</sup>	<b>Work Culture, TQM &amp; Safety</b> <input type="checkbox"/> Human relationship and Performance in Organization <input type="checkbox"/> Relations with Peers, Superiors and Subordinates
13th	1 <sup>st</sup>	• TQM concepts: Quality Policy, Quality Management, Quality system <input type="checkbox"/> Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)
	2 <sup>nd</sup>	<b>Legislation</b> a) Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights
14th	1 <sup>st</sup>	b) Features of Factories Act 1948 with Amendment (only salient points) c) Features of Payment of Wages Act 1936 (only salient points)
	2 <sup>nd</sup>	<b>Smart Technology</b> <input type="checkbox"/> Concept of IOT, How IOT works
15th	1 <sup>st</sup>	• Components of IOT, Characteristics of IOT, Categories of IOT
	2 <sup>nd</sup>	Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.



Sign. of Faculty: