

# LESSON PLAN

**SUB: EMST**

**BRANCH:- MECHANICAL ENGG.**

**SEMESTER: 5<sup>TH</sup>**

**NAME OF FACULTY: ER. KEDAR PRUSTY**



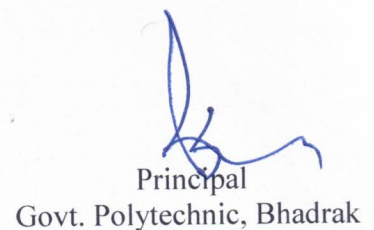
**GOVERNMENT POLYTECHNIC,  
BHADRAK**

**SESSION:2025-26**



Hod ,Mechanical

  
Academic Co-ordinator  
**Academic Co-ordinator**

  
Principal  
Govt. Polytechnic, Bhadrak

<b>Discipline:</b> <b>MECHANICAL ENGINEERING</b>	<b>Semester:</b> <b>5<sup>TH</sup></b>	<b>Name of the Teaching Faculty:</b> <b>ER.KEDAR PRUSTY</b> <b>Lecturer Mechanical Engg.(GF)</b>
<b>Subject: EMST</b>	<b>No. of days/per week class allotted:</b> <b>4</b>	<b>Semester From date:</b> <b>14/07/2025 To date:15/11/2025</b> <b>No of weeks: 15</b>
<b>Week</b>	<b>Class Day</b>	<b>Theory Topics:</b>
<b>1<sup>st</sup></b>	<b>1<sup>st</sup></b>	<b>Chapter 1.Entrepreneurship</b> Concept /Meaning of Entrepreneurship
	<b>2<sup>nd</sup></b>	Need of Entrepreneurship
	<b>3<sup>rd</sup></b>	Characteristics, Qualities and Types of entrepreneur, Functions
	<b>4<sup>th</sup></b>	Entrepreneurs vrs. Manager
<b>2<sup>nd</sup></b>	<b>1<sup>st</sup></b>	Forms of Business Ownership: Sole proprietorship, partnership forms and others
	<b>2<sup>nd</sup></b>	Types of Industries, Concept of Start-ups
	<b>3<sup>rd</sup></b>	Entrepreneurial support agencies at National, State, District Level
	<b>4<sup>th</sup></b>	DIC
<b>3<sup>rd</sup></b>	<b>1<sup>st</sup></b>	NSIC, OSIC
	<b>2<sup>nd</sup></b>	SIDBI
	<b>3<sup>rd</sup></b>	NABARD
	<b>4<sup>th</sup></b>	Commercial Banks
<b>4<sup>th</sup></b>	<b>1<sup>st</sup></b>	KVIC
	<b>2<sup>nd</sup></b>	Technology Business Incubators (TBI)
	<b>3<sup>rd</sup></b>	Science and Technology Entrepreneur Parks
	<b>4<sup>th</sup></b>	<b>Chapter 2. Market Survey and Opportunity Identification (Business Planning)</b> Business Planning
<b>5<sup>th</sup></b>	<b>1<sup>st</sup></b>	SSI, Ancillary Units
	<b>2<sup>nd</sup></b>	Tiny Units
	<b>3<sup>rd</sup></b>	Service sector Units
	<b>4<sup>th</sup></b>	<b>Class Test-1</b>



6th	1st	Time schedule Plan ,Agencies to be contacted for Project Implementation
	2nd	Agencies to be contacted for Project Implementation
	3rd	Agencies to be contacted for Project Implementation
	4th	Assessment of Demand and supply and Potential areas of Growth
7th	1st	Identifying Business Opportunity
	2nd	Identifying Business Opportunity
	3rd	<b>Chapter 3.Project report Preparation</b> Preliminary project report
	4th	Detailed project report, Techno economic Feasibility
8th	1st	Project Viability
	2nd	<b>Class Test-2</b>
	3rd	<b>Chapter 4.Management Principles</b> Definitions of management
	4th	Principles of management
9th	1st	Functions of management (planning, organizing, staffing, directing and controlling etc.)
	2nd	Level of Management in an Organization
	3rd	<b>Chapter 5.Functional Areas of Management</b> Production management
	4th	Inventory Management
10th	1st	Financial Management
	2nd	Marketing Management
	3rd	Human Resource Management
	4th	Human Resource Management

11 <sup>th</sup>	1 <sup>st</sup>	<b>Chapter 6. Leadership and Motivation</b> Leadership, Definition and Need/Importance, Qualities and functions of a leader
	2 <sup>nd</sup>	Manager Vs Leader Style of Leadership (Autocratic, Democratic, Participative)
	3 <sup>rd</sup>	<b>Motivation</b> Definition and characteristics
	4 <sup>th</sup>	Importance of motivation,
12 <sup>th</sup>	1 <sup>st</sup>	Factors affecting motivation, Theories of motivation (Maslow),
	2 <sup>nd</sup>	Methods of Improving Motivation,
	3 <sup>rd</sup>	Importance of Communication in Business,
	4 <sup>th</sup>	Types and Barriers of Communication
13 <sup>th</sup>	1 <sup>st</sup>	<b>Chapter 7. Work Culture, TQM &amp; Safety</b> Human relationship and Performance in Organization
	2 <sup>nd</sup>	Relations with Peers, Superiors and Subordinates, TQM concepts: Quality Policy, Quality Management, Quality system
	3 <sup>rd</sup>	Accidents and Safety, Cause, preventive measures, General Safety Rules, Personal Protection Equipment(PPE)
	4 <sup>th</sup>	<b>Chapter 8. Legislation</b> Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights
14 <sup>th</sup>	1 <sup>st</sup>	Features of Factories Act 1948 with Amendment (only salient points)
	2 <sup>nd</sup>	Features of Payment of Wages Act 1936 (only salient points)
	3 <sup>rd</sup>	<b>Chapter 9. Smart Technology</b> Concept of IOT, How IOT works
	4 <sup>th</sup>	Components of IOT, Characteristics of IOT, Categories of IOT
15 <sup>th</sup>	1 <sup>st</sup>	Applications of IOT- Smart Cities
	2 <sup>nd</sup>	Smart Transportation, Smart Home
	3 <sup>rd</sup>	Smart Agriculture, Smart Energy Management etc.
	4 <sup>th</sup>	Discuss previous year questions.

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