

**GOVERNMENT POLYTECHNIC, SAMBALPUR, RENGALI**

**DEPARTMENT OF E&TC ENGINEERING**

**LESSON PLAN**

**SUBJECT- EM&ST (Th- 1)**

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

**NAME OF THE FACULTY- Miss PRAGYAN PARAMITA PRADHAN**

**TOTAL NO. OF PERIODS-60(4/W)**

<b>UNIT</b>	<b>DATE</b>	<b>PERIOD</b>	<b>TOPICS TO BE COVERED</b>
<b>1</b>	August 1 <sup>st</sup> week		<b>Entrepreneurship</b>
		1	Entrepreneurship
		2	Need of Entrepreneurship
		3	Characteristics, Qualities and Types of entrepreneur, Functions
		4	Barriers in entrepreneurship
		5	Entrepreneurs vrs. Manager
		6	Forms of Business Ownership: Sole proprietorship, partnership forms and others
		7	Types of Industries, Concept of Start-ups
		8	Entrepreneurial support agencies at National, State, District Level( Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
9	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks		
<b>2</b>	September 1 <sup>st</sup> week		<b>Market Survey and Opportunity Identification (Business Planning)</b>
		1	Business Planning
		2	SSI, Ancillary Units, Tiny Units, Service sector Units
		3	Assessment of Demand and supply and Potential areas of Growth
		4	Identifying Business Opportunity
5	Final Product selection		
<b>3</b>	September 4 <sup>th</sup> week		<b>Project report Preparation</b>
		1	Preliminary project report
		2	Detailed project report, Techno economic Feasibility
3	Project Viability		
<b>4</b>	October 1 <sup>st</sup> week		<b>Management Principles</b>
		1	Definitions of management
		2	Principles of management
		3	Functions of management (planning, organising, staffing, directing and controlling etc.)
4	Level of Management in an Organisation		
<b>5</b>	October 3 <sup>rd</sup> week		<b>Functional Areas of Management</b>
		1	Production management
		2	Inventory Management
		3	Financial Management
		4	Marketing Management
5	Human Resource Management		
<b>6</b>	November 1 <sup>st</sup> week		<b>Leadership and Motivation</b>
		1	Leadership

		2	Motivation
<b>7</b>	November 2nd week		<b>Work Culture, TQM &amp; Safety</b>
		1	Human relationship and Performance in Organization
		2	Relations with Peers, Superiors and Subordinates
		3	TQM concepts: Quality Policy, Quality Management, Quality system
		4	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)
<b>8</b>	November 4th week		<b>Legislation</b>
		1	Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights
		2	Features of Factories Act 1948 with Amendment (only salient points)
		3	Features of Payment of Wages Act 1936 (only salient points)
<b>9</b>	December 2nd week		Smart Technology
		1	Concept of IOT, How IOT works
		2	Components of IOT, Characteristics of IOT, Categories of IOT
		3	Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.