



GOVT. POLYTECHNIC KORAPUT

ACADEMIC SESSION 2020-2021

SEMESTER- 5<sup>th</sup>

BRANCH - CIVIL ENGINEERING

SUBJECT – ENTREPRENEURSHIP DEVELOPMENT AND  
SMART TECHNOLOGY

FACULTY NAME – RABINARAYAN HOTA

Week No	Topic to be covered
1	<b>1. Entrepreneurship</b> <input type="checkbox"/> Concept /Meaning of Entrepreneurship <input type="checkbox"/> Need of Entrepreneurship <input type="checkbox"/> Characteristics, Qualities and Types of entrepreneur, Functions
2	<ul style="list-style-type: none"> <li>• Barriers in entrepreneurship</li> <li>Entrepreneurs vrs. Manager</li> <li>Forms of Business Ownership: Sole proprietorship, partnership forms and others</li> </ul>
3	Types of Industries, Concept of Start-ups <input type="checkbox"/> Entrepreneurial support agencies at National, State, District Level( Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc. <input type="checkbox"/> Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
4	<b>Market Survey and Opportunity Identification (Business Planning)</b> <input type="checkbox"/> Business Planning <input type="checkbox"/> SSI, Ancillary Units, Tiny Units, Service sector Units <input type="checkbox"/> Time schedule Plan, Agencies to be contacted for Project Implementation <input type="checkbox"/> Assessment of Demand and supply and Potential areas of Growth <input type="checkbox"/> Identifying Business Opportunity <input type="checkbox"/> Final Product selection
5	<b>Project report Preparation</b> <input type="checkbox"/> Preliminary project report <input type="checkbox"/> Detailed project report, Techno economic Feasibility <input type="checkbox"/> Project Viability
6	<b>Management Principles</b> <input type="checkbox"/> Definitions of management <input type="checkbox"/> Principles of management <input type="checkbox"/> Functions of management (planning, organising, staffing, directing and controlling etc.) <input type="checkbox"/> Level of Management in an Organisation
7	<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 b) Inventory Management <input type="checkbox"/> Need for Inventory management <input type="checkbox"/> Models/Techniques of Inventory management
8	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)
9	Marketing Management <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)
10	<b>6. Leadership and Motivation</b> a) Leadership <input type="checkbox"/> Definition and Need/Importance <input type="checkbox"/> Qualities and functions of a leader <input type="checkbox"/> Manager Vs Leader <input type="checkbox"/> Style of Leadership (Autocratic, Democratic, Participative)
11	b) Motivation <input type="checkbox"/> Definition and characteristics <input type="checkbox"/> Importance of motivation <input type="checkbox"/> Factors affecting motivation <input type="checkbox"/> Theories of motivation (Maslow) <input type="checkbox"/> Methods of Improving Motivation <input type="checkbox"/> Importance of Communication in Business <input type="checkbox"/> Types and Barriers of Communication
12	<b>7. Work Culture, TQM &amp; Safety</b> <input type="checkbox"/> Human relationship and Performance in Organization <input type="checkbox"/> Relations with Peers, Superiors and Subordinates <input type="checkbox"/> TQM concepts: Quality Policy, Quality Management, Quality system <input type="checkbox"/> Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)
13	<b>Legislation</b> a) Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights b) Features of Factories Act 1948 with Amendment (only salient points) c) Features of Payment of Wages Act 1936 (only salient points)

14	<b>Smart Technology</b> <ul style="list-style-type: none"><li>□ Concept of IOT, How IOT works</li><li>□ Components of IOT, Characteristics of IOT, Categories of IOT</li><li>□ Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.</li></ul>
15	Revision of concepts