

LESSON PLAN: Entrepreneurship and Management & Smart Technology (TH-1) FOR THE SESSION 2022-23 (WINTER-2023) BATCH-2021-24, GOVT. POLYTECHNIC, KANDHMAL

Discipline: Civil Engineering	Semester: 5th	Name of the Teaching Faculty : Gouranga Charan Pradhan, Sr. Lect. In Civil Engg./Rueli Kumari Patro, PTGF in civil Engg. B. Siba Kumar Dora, PTGF in civil Engg.
Subject: Entrepreneurship and Management & Smart Technology	No. of days/ per week class allotted: 4	Semester From Date : 01/08/2023 to Date: 30/11/2023 No. of Weeks: 15
Week	Class Day	Theory/ Practical Topics
		1. Entrepreneurship
1st	1st	Concept /Meaning of Entrepreneurship
	2nd	Need of Entrepreneurship
	3rd	Characteristics, Qualities and Types of entrepreneur, Functions
	4th	Barriers in entrepreneurship
2nd	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.
3rd	1st	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC, OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
	2nd	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
		2. Market Survey and Opportunity Identification (Business Planning)
	3rd	Business Planning
	4th	SSI, Ancillary Units, Tiny Units, Service sector Units
4th	1st	Time schedule Plan, Agencies to be contacted for Project Implementation
	2nd	Time schedule Plan, Agencies to be contacted for Project Implementation
	3rd	Assessment of Demand and supply and Potential areas of Growth
	4th	Assessment of Demand and supply and Potential areas of Growth
5th	1st	Identifying Business Opportunity
	2nd	Final Product selection
		3. Project report Preparation
	3rd	Preliminary project report
	4th	Detailed project report, Techno economic Feasibility
6th	1st	Detailed project report, Techno economic Feasibility
	2nd	Project Viability
		4. Management Principles
	3rd	Definitions of management
	4th	Principles of management
7th	1st	Functions of management (planning, organising, staffing, directing and controlling etc.)
	2nd	Functions of management (planning, organising, staffing, directing and controlling etc.)
	3rd	Level of Management in an Organisation
		5. Functional Areas of Management
	4th	a) Production management □ Functions, Activities □ Productivity
8th	1st	Quality control □ Production Planning and control
	2nd	b) Inventory Management □ Need for Inventory management
	3rd	Models/Techniques of Inventory management
	4th	c) Financial Management □ Functions of Financial management □ Management of Working capital □ Costing (only concept)

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

[Signature]
21/7/2023

[Signature]
21/07/23

