GOVERNMENT POLYTECHNIC BOLANGIR DEPARTMENT OF CIVIL ENGINEERING LESSON PLAN

SESSION: 2023-24

SUBJECT: ENTREPRENEURSHIP and MANAGEMENT & SMART TECHNOLOGY	BRANCH: CIVIL ENGINEERING
NAME OF THE FACULTY: SOURAV KUMAR BEHERA	SEMESTER: 5 TH

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NO.	Chapter	Hours	Lacture No.	DETAILED CONTENTS
	,			,
			Entrepreneurship	
		-	1	Concept /Meaning of Entrepreneurship
			2	Need of Entrepreneurship
			3	Characteristics, Qualities and Types of entrepreneur, Functions
			4	Barriers in entrepreneurship
		10	5	Entrepreneurs vrs. Manager
1	Chapter -1		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
		•	9	Commercial Banks, KVIC etc.
		-	10	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
		8	Market Surve	y and Opportunity Identification (Business Planning)
			1	Business Planning
	Chapter -2		2	SSI, Ancillary Units, Tiny Units, Service sector Units
2			3	Time schedule Plan,
2			4	Agencies to be contacted for Project Implementation
			5	Assessment of Demand and supply
			6	Potential areas of Growth
			7	Identifying Business Opportunity
			8	Final Product selection
	Chapter -3	4		Project report Properation
			1	Project report Preparation
				Preliminary project report
3			2	Detailed project report
			3	Techno economic Feasibility
			4	Project Viability

			Management Principles	
			1	Definitions of management
			2	Principles of management
	Charatan 4	_	3	Functions of management (planning, organising)
4	Chapter -4	5		Functions of management (staffing, directing and
			4	controlling etc)
			5	Level of Management in an Organisation
			Functional Areas of Management	
			1	a) Production management - Functions, Activities & Productivity
			2	Quality control, Production Planning and control
		ı	3	b) Inventory Management -Need for Inventory management
			4	Models/Techniques of Inventory management
	Chapter -5	10	5	c) Financial Management - Functions of Financial management, Management of Working capital, Costing (only concept)
5			6	Break even Analysis, Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)
			7	d) Marketing Management -Concept of Marketing and Marketing Management
			8	Marketing Techniques (only concepts), Concept of 4P s (Price, Place, Product, Promotion)
			9	e) Human Resource Management -Functions of Personnel Management
			10	Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages
				Leadership and Motivation
6	Chapter -6	6	1	a) Leadership - Definition and Need/Importance , Qualities and functions of a leader
			2	Manager Vs Leader
			3	Style of Leadership (Autocratic, Democratic, Participative)
			4	b) Motivation -Definition and characteristics - Importance of motivation ,Factors affecting motivation
			5	Theories of motivation (Maslow), Methods of Improving Motivation
			6	Importance of Communication in Business ,Types and Barriers of Communication

		5	Work Culture, TQM & Safety		
			1	Human relationship and Performance in Organization	
	Chapter -7		2	Relations with Peers, Superiors and Subordinates	
7			3	TQM concepts: Quality Policy, Quality Management, Quality system	
			4	Accidents and Safety, Cause, preventive measures,	
			5	General Safety Rules , Personal Protection Equipment(PPE)	
		6	Legislation		
			1	a) Intellectual Property Rights (IPR)	
			2	Patents	
8	Chapter -8		3	Trademarks	
	Chapter 6		4	Copyrights	
			5	b) Features of Factories Act 1948 with Amendment (only salient points)	
			6	c) Features of Payment of Wages Act 1936 (only salient points)	
	Chapter -9	6	Smart Technology		
			1	Concept of IOT, How IOT works	
9			2	Components of IOT, Characteristics of IOT, Categories of IOT	
			3	Applications of IOT- Smart Cities, Smart Transportation	
			4	Smart Home, Smart Healthcare	
			5	Smart Industry, Smart Agriculture, Smart Energy Management etc.	
			6	Previous year Question Discussion	