

GOVERNMENT POLYTECHNIC JAJPUR

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9437155107 DEPARTMENT OF CIVIL ENGINEERING

LESSON PLAN

Discipline: Civil Engg.	Semester: 5th	Name of the Teaching faculty: Sushree Souravi Rout
Subject: ENTREPRENEURSHIP and MANAGEMENT & SMART TECHNOLOGY Th-1	No of Days/Week class allotted: 4	Semester from Date:15.09.2022 To Date:22.12.2022 No of weeks: 15
Week	Class Day	Topics
1st	1st	Entrepreneurship 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):
3rd	1st	DIC, NSIC, OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc
	2nd	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
	3rd	Market Survey and Opportunity Identification (Business Planning) 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
	3rd	Project report Preparation Preliminary project report
	4th	problem
6th	1st	Detailed project report, Techno economic Feasibility
	2nd	Detailed project report, Techno economic Feasibility
	3rd	Project Viability
	4th	Management Principles □ Definitions of management
7th	1st	Principles of management
	2nd	Functions of management (planning, organising, staffing, directing and controlling etc.)
	3rd	Functions of management (planning, organising, staffing, directing and controlling etc.)

	4th	Level of Management in an Organisation
8th	1st	Functional Areas of Management a) Production management Functions, Activities Productivity
	2nd	Quality control Production Planning and control
	3rd	Inventory Management Need for Inventory management
	4th	Models/Techniques of Inventory management
9th	1st	Financial Management Functions of Financial management Management of Working capital Costing (only concept)
	2nd	Break even Analysis □ Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)
	3rd	Marketing Management Concept of Marketing and Marketing Management Marketing Techniques (only concepts)
	4th	Concept of 4P s (Price, Place, Product, Promotion)
10th	1st	Human Resource Management Functions of Personnel Management
	2nd	Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages
	3rd	Leadership and Motivation a) Leadership Definition and Need/Importance Qualities and functions of a leader Manager Vs Leader
	4th	Style of Leadership (Autocratic, Democratic, Participative)
11th	1st	Motivation Definition and characteristics Importance of motivation
	2nd	Factors affecting motivation Theories of motivation (Maslow)
	3rd	Methods of Improving Motivation Importance of Communication in Business
	4th	Types and Barriers of Communication
12th	1st	Work Culture, TQM & Safety Human relationship and Performance in Organization
	2nd	Relations with Peers, Superiors and Subordinates
	3rd	TQM concepts: Quality Policy, Quality Management, Quality system
	4th	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)
13th	1st	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)
	2nd	Legislation a) Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights
	3rd	a) Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights

	4th	b) Features of Factories Act 1948 with Amendment (only salient points)
14th	1st	b) Features of Factories Act 1948 with Amendment (only salient points)
	2nd	c) Features of Payment of Wages Act 1936 (only salient points)
	3rd	c) Features of Payment of Wages Act 1936 (only salient points)
	4th	Smart Technology Concept of IOT, How IOT works
15th	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
	4th	Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.
16th	1st	REVISION

LearningResources:

Sl No.	Author Name	Name of the Book
1	R.K Singhal, Katson Books., New Delhi	Entrepreneurship Development and Management
2	O.P Khanna ,Dhanpat Rai and Sons	Industrial Engineering and Management
3	Jeeva Jose, Khanna Publications, New Delhi	Internet of Things

Sushree Souravi Rout
FACULTY SIGNATURE