

GOVERNMENT POLYTECHNIC JAJPUR

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DEPARTMENT OF MINING ENGINEERING

LESSON PLAN

Discipline: MINING	Semester: 5th	Name of the Teaching faculty: SOMESH JENA
Subject: ENTREPRENEURSHIP and MANAGEMENT & SMART TECHNOLOGY	No of Days/Week class allotted: 4	Semester from Date: 01-08-2023 To Date: 30-11-2023 No of weeks: 15
Week	Class Day	Topics
1st	1st	Concept /Meaning of Entrepreneurship
	2nd	Need of Entrepreneurship
	3rd	Characteristics, Qualities and Types of entrepreneur, Functions
	4th	Barriers in entrepreneurship.Entrepreneurs vrs. Manager
2nd	1st	Forms of Business Ownership: Sole proprietorship, partnership forms and others
	2nd	Types of Industries, Concept of Start-ups
	3rd	Entrepreneurial support agencies at National, State, District Level(Sources):
	4th	DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
3rd	1st	Business Planning
	2nd	SSI, Ancillary Units, Tiny Units, Service sector Units
	3rd	Time schedule Plan, Agencies to be contacted for Project Implementation
	4th	Assessment of Demand and supply and Potential areas of Growth
4th	1st	Identifying Business Opportunity
	2nd	Final Product selection.Preliminary project report
	3rd	CLASS TEST-I
	4th	Detailed project report, Techno economic Feasibility.Project Viability
5th	1st	Definitions of management, Principles of management.
	2nd	Functions of management (planning, organising, staffing, directing and controlling etc.)
	3rd	Level of Management in an Organisation
	4th	Production management: Functions, Activities.Production management:Productivity
6th	1st	Production management: Quality control.Production management: Production Planning and control
	2nd	.Inventory Management : Need for Inventory management.Models/Techniques of Inventory management
	3rd	Financial Management : Functions of Financial management
	4th	Financial Management : Management of Working capital
7th	1st	Financial Management : Costing (only concept)
	2nd	Financial Management : Break even Analysis
	3rd	Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book.
	4th	Brief idea about Accounting Terminologies:P&L Accounts, Balance Sheets(only Concepts)

8th	1st	Marketing Management : Concept of Marketing and Marketing Management
	2nd	INTERNAL-I
	3rd	Marketing Management : Marketing Techniques (only concepts)
	4th	Marketing Management : Concept of 4P s (Price, Place, Product, Promotion)
9th	1st	Human Resource Management : Functions of Personnel Management
	2nd	Human Resource Management : Manpower Planning, Recruitment, Sources of manpower.
	3rd	Human Resource Management : Selection process, Method of Testing.
	4th	Methods of Training & Development, Payment of Wages
10th	1st	Leadership : Definition and Need/Importance
	2nd	Leadership : Qualities and functions of a leader.Leadership : Manager Vs Leader
	3rd	Leadership : Style of Leadership (Autocratic, Democratic, Participative)
	4th	Motivation : Definition and characteristics.Motivation : Factors affecting motivation Motivation : Importance of motivation
11th	1st	Motivation : Theories of motivation (Maslow).Motivation : Methods of Improving Motivation
	2nd	Motivation : Importance of Communication in Business.Motivation : Types and Barriers of Communication
	3rd	Human relationship and Performance in Organization
	4th	Relations with Peers, Superiors and Subordinates
12th	1st	CLASSTEST-II
	2nd	TQM concepts: Quality Policy, Quality Management, Quality system
	3rd	Accidents and Safety, Cause, preventive measures, General Safety Rules ,
	4th	Personal Protection Equipment(PPE).
13th	1st	Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights
	2nd	Features of Factories Act 1948 with Amendment (only salient points)
	3rd	Features of Payment of Wages Act 1936 (only salient points)
	4th	Concept of IOT, How IOT works
14th	1st	Applications of IOT- Smart Cities, Smart Transportation.
	2nd	Applications of IOT- Smart Home, Smart Healthcare, Smart Industry. Applications of IOT- Smart Agriculture, Smart Energy Management etc.
	3rd	INTERNAL-II
	4th	REVISION/DOUBT CLEARING CLASS
15th	1st	REVISION/DOUBT CLEARING CLASS
	2nd	REVISION/DOUBT CLEARING CLASS
	3rd	REVISION/DOUBT CLEARING CLASS
	4th	REVISION/DOUBT CLEARING CLASS

RECOMMENDED BOOKS

1. Entrepreneurship Development and Management by R.K Singhal, Katson Books. New Delhi
2. Entrepreneurship Development and Management by U Saroj and V Mahendiratta Abhishek Publications, Chandigarh
3. Entrepreneurship Development and Management by Vasant Desai, Himalaya Pub.House
4. Industrial Engineering and Management by O.P Khanna ,Dhanpat Rai and Sons
5. Industrial Engineering and Management by Banga and Sharma, Khanna Publications
6. Internet of Things by Jeeva Jose, Khanna Publications, New Delhi
7. Online Resource on Startups and other concepts
8. <https://www.fundable.com/learn/resources/guides/startup>

Somesh Jena.
Signature of Faculty