



GOVERNMENT POLYTECHNIC, BALASORE

Government of Odisha

ସରକାରୀ ବହୁବୃତ୍ତି ଅନୁଷ୍ଠାନ, ବାଲେଶ୍ଵର

LESSON PLAN (WINTER-2025)

Discipline: ELECTRONICS AND TELECOMMUNICATION ENGINEERING	Semester: 5 TH	Name of the Teaching Faculty: DEBASISH MOHAPATRA
Subject: Entrepreneurship and Management & Smart Technology/TH-1	No. of Days/per week class allotted: 04 Days	Semester from date: 14/07/2025 No. of Weeks: 15
Weeks	Class Day	Theory Topics
1st	1st	1. Entrepreneurship Concept /Meaning of Entrepreneurship and Need of Entrepreneurship
	2nd	Characteristics, Qualities and Types of entrepreneur
	3rd	Functions and Barriers in entrepreneurship
	4th	Entrepreneur's vrs. Manager
2nd	1st	Forms of Business Ownership: Sole proprietorship, partnership forms and others
	2nd	Types of Industries
	3rd	Concept of Start-ups
	4th	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC
3rd	1st	SIDBI, NABARD, Commercial Banks, KVIC etc.
	2nd	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
	3rd	2. Market Survey and Opportunity Identification (Business Planning)
4th	4th	Business Planning
	1st	SSI, Ancillary Units, Tiny Units
	2nd	Service sector Units , Time schedule Plan
	3rd	Agencies to be contacted for Project Implementation
	4th	Assessment of Demand and supply
5th	4th	Potential areas of Growth of Demand and supply
	1st	Identifying Business Opportunity
	2nd	Final Product selection
6th	3rd	3. Project report Preparation
	4th	Preliminary project report
	1st	Detailed project report
	2nd	Techno economic Feasibility
7th	2nd	Project Viability
	3rd	4. Management Principles: Definitions of management and importance of management
	4th	Principles of management
7th	1st	Principles of management
	2nd	Functions of management (planning, organizing)
	3rd	Functions of management (staffing, directing, leadership, motivating, Communicating and controlling etc.)
	3rd	Level of Management in an Organization

	4th	5. Functional Areas of Management Production management (Function and Activities), Productivity, Quality control.
8th	1st	Production Planning and control, Inventory Management - Need and techniques of Inventory management.
	2nd	Financial Management, Functions of Financial management, Management of Working capital.
	3rd	Costing (only concept), Break even Analysis, Brief idea about Accounting Terminologies : Book Keeping, Journal entry
	4th	Petty Cash book, P&L Accounts, Balance Sheets.
9th	1st	Concept of Marketing and Marketing Management and its techniques.
	2nd	Concept of 4P s (Price, Place, Product, Promotion), Human Resource Management.
	3rd	Functions of Personnel Management, Manpower Planning, Recruitment, Sources of manpower.
	4th	Sources of manpower, Selection process, Method of Testing.
10th	1st	Methods of Training & Development, Payment of Wages.
	2nd	6. Leadership and Motivation Leadership (Definition and Need/Importance), Qualities and functions of a leader.
	3rd	Manager Vs Leader, Style of Leadership (Autocratic, Democratic, Participative)
	4th	Motivation (Definition and characteristics), Importance of motivation.
11th	1st	Factors affecting motivation, Theories of motivation (Maslow).
	2nd	Methods of Improving Motivation, Importance of Communication in Business.
	3rd	Types and Barriers of Communication.
	4th	7. Work Culture, TQM & Safety Human relationship and Performance in Organization.
12th	1st	Relations with Peers, Superiors and Subordinates. TQM concepts: Quality Policy
	2nd	TQM concepts: Quality Management, Quality system, QMS
	3rd	Accidents and Safety, Cause, preventive measures
	4th	General Safety Rules , Personal Protection Equipment(PPE)
13th	1st	8. Legislation Intellectual Property Rights(IPR), Patents
	2nd	Trademarks
	3rd	Copyrights
	4th	Describes the factories Act 1948
14th	1st	Features of Factories Act 1948 with Amendment (only salient points)
	2nd	Features of Payment of Wages Act 1936 (only salient points)
	3rd	9. Smart Technology Concept of IOT, How IOT works
	4th	Components of IOT
15th	1st	Characteristics of IOT, Categories of IOT
	2nd	Applications of IOT- Smart Cities, Smart Transportation
	3rd	Smart Home, Smart Healthcare, Smart Industry
	4th	Smart Agriculture, Smart Energy Management etc.

Debasish Mohapatra
Faculty

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10/09/23