

C. V. RAMAN POLYTECHNIC, BHUBANESWAR

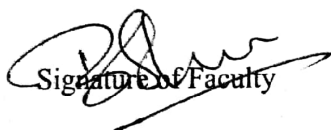
LESSON PLAN Session (2025-2026)

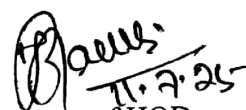
Discipline: Mechanical Engineering	Semester: 5 th Semester, Winter/2025	Name of the Faculty: Dr. Brundaban Sahoo, Asst.Prof Email ID: brundaban.sahoo@cvrp.edu.in
Subject: Entrepreneurship and Management & Smart Technology , Theory-1	No. of Days/week: 04	Start Date: 14/07/2025 End Date: 15/11/2025

Week	Class Day	Theory Topics
1st	1st	Concept /Meaning of Entrepreneurship, Need of Entrepreneurship
	2nd	Characteristics, Qualities and Types of entrepreneur, Functions
	3rd	Barriers in entrepreneurship, Entrepreneurs vrs. Manager
	4th	Forms of Business Ownership: Sole proprietorship, partnership forms and others
2nd	1st	Types of Industries, Concept of Start-ups
	2nd	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
	3rd	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
	4th	Business Planning, SSI, Ancillary Units, Tiny Units, Service sector Units
3rd	1st	Time schedule Plan, Agencies to be contacted for Project
	2nd	Implementation Assessment of Demand and supply and Potential areas of Growth
	3rd	Identifying Business Opportunity,Final Product selection
	4th	Project report Preparation, Preliminary project report.
4th	1st	Detailed project report.
	2nd	Techno economic Feasibility, Project Viability
	3rd	Management Principles, Definitions of management
	4th	Principles of management

		Functions of management (planning, organising, staffing, directing and controlling etc.)
5th	1st	Level of Management in an Organisation
	2nd	Functional Areas of Management, Production management, Functions, Activities, Productivity
	3rd	Quality control, Production Planning and control
	4th	Need for Inventory management, Models/Techniques of Inventory management
6th	1st	Functions of Financial management, Management of Working capital Costing (only concept)
	2nd	Break even Analysis
	3rd	Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash
	4th	Financial Management, book, P&L Accounts, Balance Sheets(only Concepts)
7th	1st	Marketing Management Concept of Marketing and Marketing Management
	2nd	Marketing Techniques (only concepts) Concept of 4P s (Price, Place, Product, Promotion)
	3rd	Human Resource Management, Functions of Personnel Management Manpower Planning, Recruitment, Sources of manpower, Selection process,
	4th	Method of Testing, Methods of Training & Development, Payment of Wages.
8th	1st	Revision, Previous year question Discussion.
	2nd	Leadership and Motivation, Definition and Need/Importance
	3rd	Qualities and functions of a leader
	4th	Manager Vs Leader
9th	1st	Style of Leadership (Autocratic, Democratic, Participative)
	2nd	Motivation, Definition and characteristics
	3rd	Importance of motivation
	4th	Factors affecting motivation
10th	1st	Theories of motivation (Maslow), Methods of Improving Motivation
	2nd	Importance of Communication in Business, Types and Barriers of Communication
	3rd	Revision, Previous year question Discussion.
	4th	Work Culture, TQM & Safety
11th	1st	Human relationship in Organization
	2nd	HR Performance in Organization
	3rd	Relations with Peers, Superiors and Subordinates
	4th	TQM concepts: Quality Policy, Quality Management, Quality system
12th	1st	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal
	2nd	Protection Equipment(PPE)
	3rd	Revision, Previous year question Discussion.
	4th	Legislation
	1st	Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights

13th	2nd	Features of Factories Act 1948 with Amendment (only salient points)
	3rd	Features of Payment of Wages Act 1936 (only salient points)
	4th	Revision, Previous year question Discussion.
14th	1st	Smart Technology, Concept of IOT, How IOT works.
	2nd	Components of IOT, Characteristics of IOT, Categories of IOT
	3rd	Applications of IOT- Smart Cities, Smart Transportation, Smart Home,
	4th	Smart Healthcare,
15th	1st	Smart Industry, Smart Agriculture, Smart Energy Management etc.
	2nd	Quiz Test.
	3rd	Revision, Previous year question Discussion.
	4th	Revision, Previous year question Discussion.


Signature of Faculty


Signature of HOD