DEPARTMENT OF CIVIL ENGINEERING
SPINTRONIC TECHNOLOGY AND ADVANCE RESEARCH
BHUBANESWAR

LESSON PLAN

Faculty Name:	**SWETA DASH (ASSISTANT PROFESSOR)**		
Subject Name:	**ENTERPRENEURSHIP MANAGEMENT AND SMART TECHNOLOGY**	**Code:**	**Th-1**
Year:	**2023-24**	**Semester:**	**5th**
Branch:	**CIVIL ENGINEERING**	**Course:**	**DIPLOMA**

Sl no.	Name of topics to be covered	No. of periods required	Cumulative no. of periods
	Module-I		
1.	Entrepreneurship Concept /Meaning of Entrepreneurship Need of Entrepreneurship	3	3
2.	Characteristics, Qualities and Types of entrepreneur, Functions, Barriers in entrepreneurship Entrepreneursvrs. Manager	4	7
3.	Forms of Business Ownership: Sole proprietorship, partnership forms and others	1	8
4.	Types of Industries, Concept of Start-ups Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.	2	10
	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks **Module- II** Market Survey and Opportunity Identification (Business Planning) Business Planning SSI, Ancillary Units, Tiny Units, Service sector Units	04	14
5.	Monthly Class Test	1	15
6.	Time schedule Plan, Agencies to be contacted for Project Implementation	3	18
7.	Assessment of Demand and supply and Potential areas of Growth Identifying Business Opportunity Final Product selection	1	19

8.	**Module- III** Project report Preparation, Preliminary project report Detailed project report	2	21
9.	Techno economic Feasibility Project Viability	2	23
10.	**Module- IV** Management Principles ,Definitions of management Principles of management	2	25
11.	Functions of management (planning, organising, staffing, directing and controlling etc.) Level of Management in an Organisation	2	27
	Module- V Functional Areas of Management a) Production management	1	28
12.	Functions, Activities Productivity ,Quality control Production Planning and control	2	30
13.	b) Inventory Management Need for Inventory management Models/Techniques of Inventory management	2	32
14.	c) Financial Management Functions of Financial management ,Management of Working capital ,Costing (only concept) ,Break even Analysis	2	34
	Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts	2	36
15.	Monthly Class Test	1	37
16.	Marketing Management Concept of Marketing and Marketing Management	1	38
	Internal Assessment	1	39
17.	Marketing Techniques (only concepts) Concept of 4P s (Price, Place, Product, Promotion) Human Resource Management Functions of Personnel Management	2	41
18.	Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages	1	42
	Module- VI Leadership and Motivation	2	44

DEPARTMENT OF CIVIL ENGINEERING
SPINTRONIC TECHNOLOGY AND ADVANCE RESEARCH
BHUBANESWAR

	a) Leadership , Definition and Need/Importance Qualities and functions of a leader ,Manager Vs Leader Style of Leadership (Autocratic, Democratic, Participative		
19.	b) Motivation ,Definition and characteristics Importance of motivation ,Factors affecting motivation	2	48
20.	Theories of motivation (Maslow) Methods of Improving Motivation	2	50
	Importance of Communication in Business Types and Barriers of Communication	01	51
21.	**Module- VII** Work Culture, TQM & Safety Human relationship and Performance in Organization	01	52
22.	Relations with Peers, Superiors and Subordinates TQM concepts: Quality Policy, Quality Management, Quality system	1	53
	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)	1	54
23.	**Module- VIII** Legislation a) Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights b) Features of Factories Act 1948 with Amendment (only salient points)	3	57
24.	Monthly Class Test	1	58
24.	c) Features of Payment of Wages Act 1936 (only salient points) **Module- IX** Smart Technology ,Concept of IOT, How IOT works Components of IOT, Characteristics of IOT, Categories of IOT	5	63
	Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.	5	68
25.	Revision	02	70

REFERENCES BOOKS:

SLNO	NAME OF AUTHOR	TITLE OF BOOK	NAME OF PUBLISHER
1	B.N.Dugal	Design of Steel Structure	MCGraw Hill Education
2	Samal & Panigrahi	Elements of Steel,Timber	Kalyani publication

Signature of Faculty Signature of HOD