

INSTITUTE OF ENGINEERING AND MANAGEMENT

GOURAHARI VIHAR, PO: RANIPUT, JEYPORE – 764 005

LESSON PLAN

Name of the Subject: Entrepreneurship and Management & Smart Technology

Name of the Faculty: Himansu Sekhar Nahak

Semester: Fifth Semester

Branch: Common

Semester From: July to December

No. of Weeks: 16 Weeks

Week	Day	Theory/ Practical Topics	Classes
		Unit 1 - Entrepreneurship	10
1	1	Concept /Meaning of Entrepreneurship	1
	2	Need of Entrepreneurship	1
	3	Characteristics, Qualities and Types of entrepreneur,	1
	4	Functions of entrepreneur	1
2	5	Barriers in entrepreneurship, Entrepreneurs vrs. Manager	1
	6	Forms of Business Ownership: Sole proprietorship, partnership forms and others	1
	7	Types of Industries, Concept of Start-ups	1
	8	Entrepreneurial support agencies at National, State, District Level(Sources):	2
	9	DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.	
3	10	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks	1
		Unit 2 - Market Survey and Opportunity Identification (Business Planning)	8
	11	Business Planning	1
	12	SSI, Ancillary Units, Tiny Units, Service sector Units	1
	13	Time schedule Plan	1
4	14	Agencies to be contacted for Project Implementation	1
	15	Assessment of Demand and supply and Potential areas of Growth	1
	16	Identifying Business Opportunity Final Product selection	3
	17		
5		Unit 3 - Project report Preparation	4
	19	Preliminary project report	1
	20	Detailed project report, Techno economic Feasibility	2
	21		
6	22	Project Viability	1

		Unit 4 - Management Principles	5
6	23	Definitions of management	1
	24	Principles of management	1
7	25	Functions of management (Planning, organizing, staffing, directing and controlling etc.)	2
	26		
	27	Level of Management in an Organization	1
		Unit 5 - Functional Areas of Management	10
	28	a) Production management - Functions, Activities, Productivity	1
8	29	a) Production management - Quality control, Production Planning & control	1
	30	b) Inventory Management - Need for Inventory management	1
	31	b) Inventory Management - Models/Techniques of Inventory management	1
	32	c) Financial Management - Functions of Financial management, Management of Working capital, Costing (only concept)	1
9	33	c) Financial Management - Break even Analysis, Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts)	1
	34	d) Marketing Management - Concept of Marketing and Marketing Management, Marketing Techniques (only concepts)	1
	35	d) Marketing Management - Concept of 4P s (Price, Place, Product, Promotion)	1
	36	e) Human Resource Management - Functions of Personnel Management, Manpower Planning, Recruitment, Sources of manpower	1
10	37	e) Human Resource Management - Selection process, Method of Testing, Methods of Training & Development, Payment of Wages	1
		Unit 6 - Leadership and Motivation	6
	38	a) Leadership - Definition and Need/Importance	1
	39	a) Leadership - Qualities and functions of a leader, Manager Vs Leader	1
	40	a) Leadership - Style of Leadership (Autocratic, Democratic, Participative)	1
11	41	b) Motivation - Definition and characteristics, Importance of motivation, Factors affecting motivation	1
	42	b) Motivation - Theories of motivation (Maslow), Methods of Improving Motivation	1
	43	b) Motivation - Importance of Communication in Business, Types and Barriers of Communication	1
		Unit 7 - Work Culture, TQM & Safety	5
	44	Human relationship and Performance in Organization	1
12	45	Relations with Peers, Superiors and Subordinates	1
	46	TQM concepts: Quality Policy, Quality Management, Quality system	1
	47	Accidents and Safety, Cause, preventive measures	1
	48	General Safety Rules , Personal Protection Equipment(PPE)	1

13		Unit 8 - Legislation	6
	49	Intellectual Property Rights(IPR), Patents	1
	50	Trademarks, Copyrights	1
	51	Features of Factories Act 1948 with Amendment (only salient points)	1
	52	Features of Payment of Wages Act 1936 (only salient points)	1
14	53	Revision	2
	54		
		Unit 9 - Smart Technology	6
	55	Concept of IOT, How IOT works	2
	56		
15	57	Components of IOT, Characteristics of IOT, Categories of IOT	2
	58		
	59	Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.	2
	60		
16	61	Case Studies/ Revisions	
	62		
	63		
	64		

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

NPTEL Lectures

1. <https://nptel.ac.in/courses/110/107/110107094/>
2. <https://nptel.ac.in/courses/110/106/110106141/>
3. <https://nptel.ac.in/courses/109/105/109105176/>

Online Resource on Startups and other concepts

1. <https://www.fundable.com/learn/resources/guides/startup>
2. <https://www.startupindia.gov.in/>