

EXAMPLIER SCHOOL OF ENGINEERING & TECHNOLOGY

LESSON PLAN: 2022-23 Sub: Entrepreneurship & Management& Smart Technology (EMST)

Branch	:	Mechanical & Mining	Semester	: 5 th
Duration	:	63 hours		
Faculty name	:	Jharana Pujahari		

SYLLABUS:-

	1.0 Entrepreneurship
	1.1 Concept /Meaning of Entrepreneurship
	1.2 Need of Entrepreneurship
	1.3 Characteristics, Qualities and Types of entrepreneurs, Functions
	1.4 Barriers in entrepreneurship
Unit – I	1.5 Entrepreneurs vrs. Manager
OIIII - I	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):
	DIC, NSIC, OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
	1.9 Technology Business Incubators (TBI) and Science and Technology
	Entrepreneur Parks
	2.0 Market Survey and Opportunity Identification (Business Planning)
	2.1 Business Planning
	2.2 SSI, Ancillary Units, Tiny Units, Service sector Units
Unit – II	2.3 Time schedule Plan, Agencies to be contacted for Project Implementation
	2.4 Assessment of Demand and supply and Potential areas of Growth
	2.5 Identifying Business Opportunity
	2.6 Final Product selection
Unit – III	 3.0 Project report Preparation 3.1 Preliminary project report 3.2 Detailed project report, Techno economic Feasibility 3.3 Project Viability

Unit – IV	 4.Management Principles 4.1 Definitions of management 4.2 Principles of management 4.3 Functions of management (planning, organizing, staffing, directing and controlling etc.) 4.4 Level of Management in an Organisation 5. Functional Areas of Management
	5.1 a) Production management • Functions, Activities • Productivity • Quality
	control • Production Planning and control
	5.2 b) Inventory Management • Need for Inventory management •
	Models/Techniques of Inventory management
	5.3 c) Financial Management • Functions of Financial management • Management
	of Working capital • Costing (only concept) • Break even Analysis • Brief idea
Unit – V	about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book,
	P&L Accounts, Balance Sheets(only Concepts)
	5.4 d) Marketing Management • Concept of Marketing and Marketing Management
	• Marketing Techniques (only concepts) • Concept of 4P s (Price, Place, Product,
	Promotion)
	5.5 e) Human Resource Management • Functions of Personnel Management •
	Manpower Planning, Recruitment, Sources of manpower, Selection process,
	Method of Testing, Methods of Training & Development, Payment of Wage
	6.0 Leadership and Motivation
	6.1 a) Leadership • Definition and Need/Importance • Qualities and functions of a
	leader • Manager Vs Leader • Style of Leadership (Autocratic, Democratic,
	Participative)
Unit – VI	6.2 b) Motivation • Definition and characteristics • Importance of motivation •
	Factors affecting motivation • Theories of motivation (Maslow) • Methods of
	Improving Motivation • Importance of Communication in Business • Types and
	Barriers of Communication
	7.0 Work Culture, TQM & Safety
	7.1 Human relationship and Performance in Organization
	7.2 Relations with Peers, Superiors and Subordinates
Unit – VII	7.3 TQM concepts: Quality Policy, Quality Management, Quality system
	7.4 Accidents and Safety, Cause, preventive measures, General Safety Rules ,
	Personal Protection Equipment(PPE)
	8.0 Legislation
Unit – VIII	8.1 a) Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights
	8.2 b) Features of Factories Act 1948 with Amendment (only salient points)

		8.3 c) Features of Payment of Wages Act 1936 (only salient points)
		9.0 Smart Technology
		9.1 Concept of IOT, How IOT works
	Unit – IX	9.2 Components of IOT, Characteristics of IOT, Categories of IOT
		9.3 Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart
		Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.

LEARNING RESOURCES

SL	AUTHOR	TITLE OF THE BOOK	
NO 01	R.K Singhal	Entrepreneurship Development and Management	Katson Books, New Delhi
02	U Saroj and V Mahendiratta	Entrepreneurship Development and Management	Abhishek Publications, Chandigarh
03	Vasant Desai	Entrepreneurship Development and Management	Himalaya Pub.House
04	O.P Khanna ,Dhanpat Rai and Sons	Industrial Engineering and Management	
05	Banga and Sharma	Industrial Engineering and Management	Khanna Publications
06	Jeeva Jose	Internet of Things	Khanna Publications New Delhi
07		Online Resource on Startups and other concepts	
08		https://www.fundable.com/learn/resources/guides/startup	

Objective	: • Know about Entrepreneurship, Types ofIndustries and Startup• Know about various schemes of assistance by entrepreneurial support agencies • Conduct market survey • Prepare project report • know the management Principles and functional areas of management • Inculcate leadership qualities to motivate self and others. • Maintain and be a part of healthy work culture in an organization. • Use modern concepts like TQM • Know the General Safety Rules • Know about IOT and its Application in SMART Environment.
Learning Outcome:	It enables the student in acquiring of knowledge of Entrepreneurial agencies and concept of management.

It will make the student aware of in-depth knowledge regarding entrepreneurship.

Sl.No	Chapter	Proposed Week for Teaching	No.	Sub. Topic	Important Teaching Points	Content Source
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1	Ι	1 st	1	Entrepreneurship	Concept /Meaning of Entrepreneurship	B.Badhai, Pp- 3-5
2			2	Entrepreneurship	Need of Entrepreneurship	Dr. R. K. Singhal, Pp- 5-7
3			3	Entrepreneurship	Characteristics, Qualities and Types of entrepreneurs	Dr. R. K. Singhal, Pp- 7-9
4			4	Entrepreneurship	Functions of entrepreneur	Dr. R. K. Singhal, Pp- 10
5	I	2 nd	1	Entrepreneurship	Barriers in entrepreneurship	Dr. R. K. Singhal, Pp- 11
6			2	Entrepreneurship	Entrepreneurs vs. Manager	Dr. R. K. Singhal, Pp- 11-12
7			3	Entrepreneurship	Forms of Business Ownership: Sole proprietorship, partnership forms and others	B.Badhai, Pp- 34-54
8			4	Entrepreneurship	Types of Industries, Concept of Start-ups	Online Source

Sl.No	Chapter	Proposed Week for Teaching	Lecture No.	Sub. Topic	Important Teaching Points	Content Source
9	Ι	3rd	1	Entrepreneurship	Entrepreneurial support agencies at National, State, District Level DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC	Dr. R. K. Singhal, Pp- 18-32 & online source
10			2	Entrepreneurship	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks	Dr. R. K. Singhal, Pp- 32-34 & online source

11	II		3	Market Survey	Market Survey and	Dr. R. K.
				and Opportunity	Opportunity	Singhal, Pp- 36-38
				Identification	Identification (Business	50-58
				(Business	Planning)	
				Planning)	~ ~ ~	
12			4	Market Survey	SSI	Dr. R. K. Singhal, Pp-
				and Opportunity		40-43
				Identification		
				(Business		
10		4.1	1	Planning)	A 111 TT 1/ PD1	D. D. K
13	II	4th	1	Market Survey	Ancillary Units, Tiny	Dr. R. K. Singhal, Pp-
				and Opportunity	Units, Service sector	13-15
				Identification	Units	
				(Business		
1.4			2	Planning)	Time schedule Plan	Dr. R. K.
14			2	Market Survey	The schedule Plan	Singhal, Pp-
				and Opportunity Identification		44
				(Business		
				Planning)		
15			3	Market Survey	Assessment of Demand	Dr. R. K.
15			5	and Opportunity	and supply and	Singhal, Pp-
				Identification	Potential areas of	52-54
				(Business	Growth	
				Planning)		
16			4	Market Survey	Identifying Business	Dr. R. K.
				and Opportunity	Opportunity	Singhal, Pp-
				Identification	rr ······	54-56
				(Business		
				Planning)		
17	II	5 th	1	Market Survey	Final Product selection	Dr. R. K.
1/		5	1	and Opportunity		Singhal, Pp-
				Identification		57-58
				(Business		
				Planning)		
18			2	Market Survey	Agencies to be	Dr. R. K.
				and Opportunity	contacted for Project	Singhal, Pp- 45-46
				Identification	Implementation	4,3-40
				(Business		
				Planning)		
	III		3	Project report	Preliminary project	Dr. R. K.
19				Preparation-	report	Singhal, Pp- 62-67
						5_ 57
20			4	Droject ranout	Detailed project report	Dr. R. K.
20			4	Project report Preparation-	Detailed project report	Singhal, Pp-
						70-73
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Sl.No	Chapter	Proposed Week for Teaching	Lecture No.	Sub. Topic	Important Teaching Points	Content Source
21	III	6 th	1	<u>P</u> roject report Preparation-	Techno economic Feasibility	Dr. R. K. Singhal, Pp- 67-70
22			2	<u>P</u> roject report Preparation-	Project Viability	Dr. R. K. Singhal, Pp- 73-76
23	IV		3	Management Principles	Definitions of management	Dr. R. K. Singhal, Pp- 95
24			4	Management Principles	Principles of management	Dr. R. K. Singhal, Pp- 95-96
25	IV	7 th	1	Management Principles	Functions of management	Dr. R. K. Singhal, Pp- 96-98
26			2	Management Principles	Functions of management - directing and controlling	Dr. R. K. Singhal, Pp- 96-98
27	V	-	3	Functional Areas of Management	Production management Functions, Activities	Dr. R. K. Singhal, Pp- 98-99
28			4	Functional Areas of Management	Production management Productivity, Quality control, Production Planning and control	Dr. R. K. Singhal, Pp- 99-101
29		8 th	1	Functional Areas of Management	Inventory Management - Need for Inventory management, Models/Techniques of Inventory management	Dr. R. K. Singhal, Pp- 101-104
30			2	Functional Areas of Management	Financial Management Functions of	Dr. R. K. Singhal, Pp- 104-106

			Financial management, Management of Working capital, Costing (only concept)	
31	3	Functional Areas of Management	Break even Analysis	Dr. R. K. Singhal, Pp- 108-109
32	4	Functional Areas of Management	Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts) d)	B.Badhai, Pp- 95-114

Sl.No	Chapter	Proposed Week for Teaching	Lecture No.	Sub. Topic	Important Teaching Points	Content Source
33		9 th	1	Functional Areas of Management	Marketing Management - Concept of Marketing and Marketing Management	B.Badhai, Pp- 176-197
34			2	Functional Areas of Management	Marketing Techniques (only concepts) Concept of 4P s (Price, Place, Product, Promotion)	B.Badhai, Pp- 176-197 & online source
35			3	Functional Areas of Management	Human Resource Management • Functions of Personnel Management	Dr. R. K. Singhal, Pp- 116
36			4	Functional Areas of Management	Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages	Dr. R. K. Singhal, Pp- 116-120

37	VI	10 th	1	Leadership and Motivation	Leadership Definition and Need/Importance Qualities and functions of a leader	Dr. R. K. Singhal, Pp- 188, 201-205
38			2	Leadership and Motivation	Manager Vs Leader Style of Leadership (Autocratic, Democratic, Participative	
39			3	Leadership and Motivation	Motivation Definition and characteristics, Importance of motivation	Dr. R. K. Singhal, Pp- 108-109
40			4	Leadership and Motivation	Factors affecting motivation Theories of motivation (Maslow)	Dr. R. K. Singhal, Pp- 109-197
41	VI	11 th	1	Leadership and Motivation	Methods of Improving Motivation Importance of Communication in Business	Dr. R. K. Singhal, Pp- 120-121, 198- 199
42			2	Leadership and	Types and Barriers of	Online
				Motivation	Communication	sources
43	VII		3	Work Culture, TQM & Safety	Human relationship and Performance in Organization	Dr. R. K. Singhal, Pp- 175-178
44			4	Work Culture, TQM & Safety	Relations with Peers, Superiors and Subordinates	Dr. R. K. Singhal, Pp- 108-109
45		12 th	1	Work Culture, TQM & Safety	TQM concepts: Quality Policy, Quality Management, Quality system	Dr. R. K. Singhal, Pp- 211-213
46			2	Work Culture, TQM & Safety	Accidents and Safety Cause, preventive measures, General Safety	Dr. R. K. Singhal, Pp- 215-218
47			3	Work Culture, TQM & Safety	Rules Personal Protection Equipment (PPE)	Dr. R. K. Singhal, Pp- 225-228
48			4	Legislation	Intellectual Property Rights (IPR)	Dr. R. K. Singhal, Pp- 252-254
49		13 th	1	Legislation	Patents, Trademarks, Copyrights	Dr. R. K. Singhal, Pp- 252-254
46			2	Legislation	Features of Factories Act 1948 with Amendment (only salient points)	Dr. R. K. Singhal, Pp- 226-229
50			3	Legislation	Features of Factories Act 1948 with Amendment (only salient points)	Dr. R. K. Singhal, Pp- 226-229
51			4	Legislation	Features of Payment of Wages Act 1936 (only salient points)	Dr. R. K. Singhal, Pp- 229-233

	VII					
52		14 th	1	Legislation	Features of Payment of Wages Act 1936 (only salient points)	Dr. R. K. Singhal, Pp- 229-233
53			2	Smart Technology	Concept of IOT	Online Sources
54			3	Smart Technology	How IOT works	Online Sources
55			4	Smart Technology	Components of IOT, Characteristics of IOT,	Online Sources
56		15 th	1	Smart Technology	Categories of IOT	Online Sources
57			2	Smart Technology	Applications of IOT- Smart Cities, Smart Transportation,	Online Sources
58			3	Smart Technology	Smart Home, Smart Healthcare,	Online Sources
59			4	Smart Technology	Smart Industry, Smart Agriculture, Smart Energy Management	Online Sources
60	-	16 th	1	Revision	Revision	-
61			2	Doubt clearing session-1	Doubt clearing session-1	-
62			3	Doubt clearing session-2	Doubt clearing session-2	-
63			4	Doubt clearing session-3	Doubt clearing session-3	-

Signature of

Faculty Member

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Principal/ Director