



BIJU PATTANAİK INSTITUTE OF TECHNOLOGY
GOVERNMENT POLYTECHNIC, PURI
ସରକାରୀ ବହୁବୃତ୍ତି ଅନୁଷ୍ଠାନ, ପୁରୀ

LESSON PLAN

ON

EM&ST

5TH SEMESTER

PREPARED BY

MR. JASOBANTA BARIK

LECTURER IN ELECTRICAL ENGINEERING DEPARTMENT,

GOVERNMENT POLYTECHNIC, PURI.



GOVERNMENT POLYTECHNIC, PURI
DEPARTMENT OF ELECTRICAL ENGINEERING

Discipline: ELECTRICAL ENGINEERING	Semester: 5TH	Name of the Teaching Faculty: MR. JASOBANTA BARIK, LECTURER IN ELECTRICAL ENGINEERING	
Subject: ENTREPRENEURSHIP and MANAGEMENT & SMART TECHNOLOGY	No. of days/per week class allotted: 04	Semester From date: <u>15/09/2022</u> To Date: <u>22/12/2022</u> No. of Weeks: 15	
PRE-REQUISITE	Develop a good business idea, create a business model. Validate your business through market research. Manage people and resources, Understand financial information, Gain customer attention and sell, create a digital presence. Launch business		
COURSE OUTCOMES	CO1: Understand about Entrepreneurship, Types of Industries and Startups CO2: Understand about various schemes of assistance by entrepreneurial support agencies CO3: Understand the management Principles and functional areas o CO4: Understand the General Safety Rules CO5: Understand about IOT and its Application in SMART Environment		
Week	Class Day	Theory/Practical Topics	DELIVERY METHOD
1 ST	1 ST	Concept /Meaning of Entrepreneurship, Need of Entrepreneurship	Whiteboard
	2 ND	Characteristics, Qualities and Types of entrepreneur, Functions	Whiteboard
	3 RD	Barriers in entrepreneurship	Whiteboard
	4 TH	Entrepreneurs vs. Manager	Whiteboard
2 ND	1 ST	Forms of Business Ownership: Sole proprietorship, partnership forms and others	Whiteboard
	2 ND	Entrepreneurial support agencies at National, State, District Level(Sources): DIC, NSIC, OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc	Whiteboard
	3 RD	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks	Whiteboard
	4 TH	QUIZ&ASSIGNMENT-I	Lecture notes
3 RD	1 ST	Business Planning	Whiteboard
	2 ND	SSI, Ancillary Units, Tiny Units, Service sector Units	Whiteboard
	3 RD	Time schedule Plan, Agencies to be contacted for Project Implementation	Whiteboard
	4 TH	Assessment of Demand and supply and Potential areas of Growth	Whiteboard
4 TH	1 ST	Identifying Business Opportunity	Whiteboard
	2 ND	Final Product selection	Whiteboard
	3 RD	QUIZ&ASSIGNMENT-II	Lecture notes
	4 TH	Preliminary project report	Whiteboard
5 TH	1 ST	Detailed project report, Techno economic Feasibility	Whiteboard
	2 ND	Project Viability	Whiteboard
	3 RD	QUIZ&ASSIGNMENT-III	Lecture notes
	4 TH	Definitions of management, Principles of management	Whiteboard
6 TH	1 ST	Functions of management (planning, organizing, staffing, directing and controlling etc.)	Whiteboard



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

	3 RD	REVISION	
	4 TH	REVISION	


LEARNING RESOURCES:

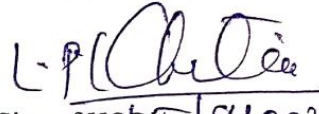
01. Entrepreneurship Development and Management by R.K Singhal, Katson Books., New Delhi
02. Entrepreneurship Development and Management by U Saroj and V Mahendiratta, Abhishek Publications, Chandigarh
03. Entrepreneurship Development and Management by Vasant Desai, Himalaya Pub. House
04. Industrial Engineering and Management by O.P Khanna, Dhanpat Rai and Sons

WEBSITE RESOURCES:

01. <https://youtu.be/9BXq3gcLSMs> (NPTEL)
02. https://youtu.be/c9ZENOt1j_w (NPTEL)


15/09/22
Sign. of Faculty concerned


Principal
G.P.Puri
15/9/22


Sign. of HOD/c
15/9/2022