

Discipline: <b>Electronics and Telecommunication Engineering</b>	<b>Semester: 5th</b>	<b>Name of the teaching faculty: JYOTI PATRA &amp; POONAM PANDA</b>	
<b>Subject:TH 1 Entrepreneurship and Management &amp; Smart Technology</b>	<b>No. of Days/per week class allotted: 4</b>	<b>Semester From Date: 01 Oct,2021 To Date: 18 Jan,2022 No.of Weeks: 15</b>	
<b>Week</b>	<b>SN</b>	<b>Class Day</b>	<b>Theory Topics</b>
<b>UNIT 1:- Entrepreneurship [10 Periods]</b>			
1st	1	1 <sup>st</sup>	Concept and need of Entrepreneurship
	2	2 <sup>nd</sup>	Characteristics and Qualities of entrepreneur
	3	3 <sup>rd</sup>	Types and Functions of entrepreneur
	4	4 <sup>th</sup>	Barriers in entrepreneurship,Entrepreneurs vs. Manager
2nd	5	1 <sup>st</sup>	Forms of Business Ownership: Sole proprietorship, partnership forms and others
	6	2 <sup>nd</sup>	Forms of Business Ownership: others
	7	3 <sup>rd</sup>	Types of Industries, Concept of Start-ups
	8	4 <sup>th</sup>	Entrepreneurial support agencies at National, State, District Level: DIC, NSIC,OSIC
3rd	9	1 <sup>st</sup>	Entrepreneurial support agencies: SIDBI, NABARD, Commercial Banks, KVIC etc
	10	2 <sup>nd</sup>	Technology Business Incubators and Science and Technology Entrepreneur Parks
	<b>UNIT 2:- Market Survey and Opportunity Identification (Business Planning) [8 Periods]</b>		
	11	3 <sup>rd</sup>	Business Planning
4th	12	4 <sup>th</sup>	SSI, Ancillary Units, Tiny Units, Service sector Units
	13	1 <sup>st</sup>	Time schedule Plan for Project Implementation
	14	2 <sup>nd</sup>	Agencies to be contacted for Project Implementation
	15	3 <sup>rd</sup>	Assessment of Demand and supply
5th	16	4 <sup>th</sup>	Potential areas of Growth
	17	1 <sup>st</sup>	Identifying Business Opportunity
	18	2 <sup>nd</sup>	Final Product selection
	<b>UNIT 3:- Project report Preparation [4 Periods]</b>		
6th	19	3 <sup>rd</sup>	Preliminary project report
	20	4 <sup>th</sup>	Detailed project report
	21	1 <sup>st</sup>	Techno economic Feasibility
	22	2 <sup>nd</sup>	Project Viability
<b>UNIT 4:- Management Principles [5 Periods]</b>			
7th	23	3 <sup>rd</sup>	Definitions of management
	24	4 <sup>th</sup>	Principles of management
	25	1 <sup>st</sup>	Functions of management (planning, organising, staffing)
7th	26	2 <sup>nd</sup>	Functions of management (directing and controlling etc.)
	27	3 <sup>rd</sup>	Level of Management in an Organisation

<b>UNIT 5:- Functional Areas of Management [10 Periods]</b>			
8th	28	4 <sup>th</sup>	a) Production management:Functions, Activities,Productivity,Quality control
	29	1 <sup>st</sup>	Production Planning and control
	30	2 <sup>nd</sup>	b) Inventory Management:Need and Techniques of Inventory management
	31	3 <sup>rd</sup>	c) Financial Management:Functions,Management of Working capital,Costing
	32	4 <sup>th</sup>	Break even Analysis,Brief idea about Accounting Terminologies
9th	33	1 <sup>st</sup>	d) Marketing Management:Concept of Marketing and Marketing Management
	34	2 <sup>nd</sup>	Marketing Techniques (only concepts), Concept of 4P's
	35	3 <sup>rd</sup>	e) Human Resource Management:Functions of Personnel Management
	36	4 <sup>th</sup>	Manpower Planning, Recruitment, Sources of manpower, Selection process,
10th	37	1 <sup>st</sup>	Method of Testing, Methods of Training & Development, Payment of Wages
	<b>UNIT 6:-Leadership and Motivation [6 Periods]</b>		
	38	2 <sup>nd</sup>	Leadership :Definition and Need/Importance,Qualities and functions of a leader
	39	3 <sup>rd</sup>	Manager Vs Leader,Style of Leadership (Autocratic, Democratic, Participative)
	40	4 <sup>th</sup>	b) MotivationDefinition and characteristics,Importance, Factors affecting motivation
11th	41	1 <sup>st</sup>	Theories of motivation (Maslow),Methods of Improving Motivation
	42	2 <sup>nd</sup>	Importance of Communication in Business
	43	3 <sup>rd</sup>	Types and Barriers of Communication
	<b>UNIT 7:- Work Culture, TQM &amp; Safety [5 Periods]</b>		
12th	44	4 <sup>th</sup>	Human relationship and Performance in Organization
	45	1 <sup>st</sup>	Relations with Peers, Superiors and Subordinates
	46	2 <sup>nd</sup>	TQM concepts: Quality Policy, Quality Management, Quality system
	47	3 <sup>rd</sup>	Accidents and Safety, Cause, preventive measures
13th	48	4 <sup>th</sup>	General Safety Rules , Personal Protection Equipment(PPE)
	<b>UNIT 8:- Legislation [6 Periods]</b>		
	49	1 <sup>st</sup>	a)Intellectual Property Rights(IPR),
	50	2 <sup>nd</sup>	Patents
	51	3 <sup>rd</sup>	Trademarks
52	4 <sup>th</sup>	Copyrights	
14th	53	1 <sup>st</sup>	b) Features of Factories Act 1948 with Amendment (only salient points)
	54	2 <sup>nd</sup>	c) Features of Payment of Wages Act 1936 (only salient points)
	<b>UNIT 9:- Smart Technology [6 Periods]</b>		
	55	3 <sup>rd</sup>	Concept of IOT, How IOT works
15th	56	4 <sup>th</sup>	Components of IOT, Characteristics of IOT
	57	1 <sup>st</sup>	Categories of IOT
	58	2 <sup>nd</sup>	Applications of IOT- Smart Cities, Smart Transportation
	59	3 <sup>rd</sup>	Applications of IOT- Smart Home, Smart Healthcare, Smart Industry,
	60	4 <sup>th</sup>	Applications of IOT- Smart Agriculture, Smart Energy Management etc.