

# GOVERNMENT POLYTECHNIC, BARGARH

## Department of Electrical Engineering

Semester: 5<sup>th</sup>

Subject: EM&ST

Branch: Electrical Engineering

Session: WINTER

No of Period :60 (4L/week)

Name of Faculty: Rashmita Gouda

Period	Week	Topics to be covered
1	1	<b>Chapter-1:</b> Concept /Meaning of Entrepreneurship, Need of Entrepreneurship
2		Characteristics, Qualities of entrepreneur
3		Types of entrepreneurs, Functions
4		Barriers in entrepreneurship
5	2	Entrepreneurs vrs. Manager
6		Forms of Business Ownership: Sole proprietorship, partnership forms and others
7		Types of Industries,
8		Concept of Start-ups
9	3	Entrepreneurial support agencies at National, State, District Level (Sources): DIC, NSIC, OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
10		Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
11		Revision of Chapter-1
12		<b>Chapter-2:</b> Business Planning
13	4	SSI, Ancillary Units, Tiny Units, Service sector Units
14		Time schedule Plan,
15		Agencies to be contacted for Project Implementation
16		Assessment of Demand and supply and Potential areas of Growth
17	5	Identifying Business Opportunity
18		Final Product selection
19		Revision of Chapter-2
20		<b>Chapter-3:</b> Preliminary project report
21	6	Detailed project report
22		Techno economic Feasibility
23		Project Viability
24		<b>Chapter-4:</b> Definitions of management
25	7	Principles of management
26		Functions of management (planning, organizing, staffing, directing and controlling etc.)
27		Level of Management in an Organization
28		<b>Chapter-5:</b> Production management Functions, Activities, Productivity, Quality control
29	8	Production Planning and control
30		Inventory Management Need for Inventory management,
31		Models/Techniques of Inventory management
32		Financial Management Functions of Financial management,
33	9	Management of Working capital, Costing (only concept), Break even Analysis.

34		Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets (only Concepts)
35		Marketing Management Concept of Marketing and Marketing Management
36		Marketing Techniques (only concepts), Concept of 4P s (Price, Place, Product, Promotion)
37	10	Human Resource Management, Functions of Personnel Management, Manpower Planning, Recruitment, Sources of manpower.
38		Selection process, Method of Testing, Methods of Training & Development, Payment of Wages
39		<b>Chapter-6:</b> Leadership Definition and Need/Importance, Qualities and functions of a leader
40		Leadership Manager Vs Leader • Style of Leadership (Autocratic, Democratic, Participative)
41	11	Motivation Definition and characteristics, Importance of motivation
42		Factors affecting motivation, Theories of motivation (Maslow
43		Methods of Improving Motivation, Importance of Communication in Business
44		Types and Barriers of Communication
45	12	<b>Chapter-7:</b> Human relationship and Performance in Organization
46		Relations with Peers, Superiors and Subordinates
47		TQM concepts: Quality Policy, Quality Management, Quality system
48		Accidents and Safety, Cause, preventive measures,
49	13	General Safety Rules , Personal Protection Equipment(PPE)
50		<b>Chapter-8:</b> Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights
51		Features of Factories Act 1948 with Amendment (only salient points)
52		Features of Payment of Wages Act 1936 (only salient points)
53	14	<b>Chapter-9:</b> Concept of IOT, How IOT works
54		Components of IOT, Characteristics of IOT, Categories of IOT
55		Applications of IOT- Smart Cities, Smart Transportation, Smart Home
56		Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc.
57	15	REVISION CHAPTER 1 & 2
58		REVISION CHAPTER 3 & 4
59		REVISION CHAPTER 5 & 6.
60		REVISION CHAPTER 7, 8 & 9.

Signature Of Faculty

Signature of HOD