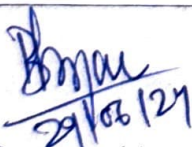



## ACADEMIC SESSION : 2024-25

Discipline : Metallurgy Engg.	Semester : 5th	Name of the Teaching Faculty : BIKASH KUMAR NAYAK
Subject : EM&ST	No. of days / week class allotted	Semester From date: 01/07/2024 to 08/11/2024
Week	Class Day	Theory/ Practical Topics
1 <sup>ST</sup>	1 <sup>st</sup>	Concept /Meaning of Entrepreneurship
	2 <sup>nd</sup>	Need of Entrepreneurship
	3 <sup>rd</sup>	Characteristics, Qualities o Entrepreneurship
	4 <sup>th</sup>	Types of entrepreneur and Functions
2 <sup>ND</sup>	1 <sup>st</sup>	Barriers in entrepreneurship
	2 <sup>nd</sup>	Entrepreneurs vs Manager
	3 <sup>rd</sup>	Forms of Business Ownership: Sole proprietorship, partnership, forms and others
	4 <sup>th</sup>	Types of Industries, Concept of Start-ups
3 <sup>RD</sup>	1 <sup>st</sup>	Entrepreneurial support agencies at National, State, District Level( Sources): DIC, NSIC,OSIC, SIDBI, NABARD, Commercial Banks, KVIC etc.
	2 <sup>nd</sup>	Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks
	3 <sup>rd</sup>	Business Planning
	4 <sup>th</sup>	SSI, Ancillary Units, Tiny Units, Service sector Units
4 <sup>TH</sup>	1 <sup>st</sup>	Time schedule Plan, Agencies to be contacted for Project Implementation
	2 <sup>nd</sup>	Assessment of Demand
	3 <sup>rd</sup>	Assessment of Supply
	4 <sup>th</sup>	Potential areas of Growth
5 <sup>TH</sup>	1 <sup>st</sup>	Identifying Business Opportunity
	2 <sup>nd</sup>	Final Product selection
	3 <sup>rd</sup>	Preliminary project report
	4 <sup>th</sup>	Detailed project report,
6 <sup>TH</sup>	1 <sup>st</sup>	Techno economic Feasibility
	2 <sup>nd</sup>	Project Viability
	3 <sup>rd</sup>	Definitions of management
	4 <sup>th</sup>	Principles of management
7 <sup>TH</sup>	1 <sup>st</sup>	Functions of management-planning, organising
	2 <sup>nd</sup>	Functions of management staffing, directing and controlling
	3 <sup>rd</sup>	Level of Management in an Organisation
	4 <sup>th</sup>	Production management- Functions, Activities,Productivity
8 <sup>TH</sup>	1 <sup>st</sup>	Quality control,Production Planning and control
	2 <sup>nd</sup>	Inventory Management-Need for Inventory management
	3 <sup>rd</sup>	Models/Techniques of Inventory management
	4 <sup>th</sup>	Financial Management-Functions of Financial management,

		Management of Working capital,
9 <sup>TH</sup>	1 <sup>st</sup>	Costing ,Break even Analysis
	2 <sup>nd</sup>	Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book
	3 <sup>rd</sup>	P&L Accounts, Balance Sheets
	4 <sup>th</sup>	Marketing Management- Concept of Marketing and Marketing Management
10 <sup>TH</sup>	1 <sup>st</sup>	Marketing Techniques ,Concept of 4P s (Price, Place, Product, Promotion)
	2 <sup>nd</sup>	Human Resource Management-Functions of Personnel Management, Manpower Planning, Recruitment,
	3 <sup>rd</sup>	Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages
	4 <sup>th</sup>	Leadership -Definition and Need/Importance, Qualities and functions of a leader, Manager vs Leader
11 <sup>TH</sup>	1 <sup>st</sup>	Style of Leadership (Autocratic, Democratic, Participative)
	2 <sup>nd</sup>	Motivation-Definition and characteristics, Importance of motivation
	3 <sup>rd</sup>	Theories of motivation (Maslow), Methods of Improving Motivation
	4 <sup>th</sup>	Importance of Communication in Business
12 <sup>th</sup>	1 <sup>st</sup>	Types and Barriers of Communication
	2 <sup>nd</sup>	Human relationship and Performance in Organization
	3 <sup>rd</sup>	Relations with Peers, Superiors and Subordinates
	4 <sup>th</sup>	TQM concepts: Quality Policy, Quality Management, Quality system
13 <sup>th</sup>	1 <sup>st</sup>	Accidents and Safety, Cause, preventive measures, General Safety Rules , Personal Protection Equipment(PPE)
	2 <sup>nd</sup>	Intellectual Property Rights(IPR)
	3 <sup>rd</sup>	Patents, Trademarks, Copyrights
	4 <sup>th</sup>	Features of Factories Act 1948 with Amendment
14 <sup>th</sup>	1 <sup>st</sup>	Features of Factories Act 1948 with Amendment
	2 <sup>nd</sup>	Features of Payment of Wages Act 1936
	3 <sup>rd</sup>	Features of Payment of Wages Act 1936
	4 <sup>th</sup>	Concept of IOT, How IOT works
15 <sup>th</sup>	1 <sup>st</sup>	Components of IOT, Characteristics of IOT, Categories of IOT
	2 <sup>nd</sup>	Applications of IOT- Smart Cities, Smart Transportation
	3 <sup>rd</sup>	Smart Home, Smart Healthcare, Smart Industry
	4 <sup>th</sup>	Smart Agriculture, Smart Energy Management etc.

  
29/06/24  
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