**UTKALMANI GOPABANDHU INSTITUTE OF ENGINEERING**

**DEPARTMENT OF MECHANICAL ENGINEERING**

**(2022-2023)**

**LESSON PLAN (2022-2023)**

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| **Discipline:**  **MECHANICAL** | **Semester: 5th** | **Name of the Teaching Faculty: Rashmita Paikray** |
| Subject: EM&ST | No. Of Days/Week  Class Allotted 4 | Semester From Date:15/09/2022 To Date:24/01/2023  No. of Weeks: 15 |
| **Week** | **Class Day** | **Topics** |
| 1st | 1st | Concept /Meaning of Entrepreneurship and Need of Entrepreneurship |
|  | 2nd | Characteristics, Qualities and Types of entrepreneurs |
|  | 3rd | Functions and Barriers in entrepreneurship |
|  | 4th | Entrepreneurs’ vs Manager  Forms of Business Ownership: Sole proprietorship,  Partnership forms |
| 2nd | 1st | Cooperative society, joint Hindu family business |
|  | 2nd | joint stock company types of Industries, Concept of Start-ups |
|  | 3rd | Entrepreneurial support agencies at National, State, District Level (Sources): DIC, NSIC, OSIC, SIDBI |
|  | 4th | NABARD, Commercial Banks, KVIC |
| 3rd | 1st | **Questions answer discussion** |
|  | 2nd | Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks |
|  | 3rd | Business Planning, SSI, Ancillary Units, Tiny Units |
|  | 4th | Time schedule Plan, Agencies to be contacted for Project Implementation |
| 4th | 1st | Assessment of Demand and supply, Potential areas of Growth |
|  | 2nd | Identifying Business Opportunity |
|  | 3rd | Final Product selection |
|  | 4th | **Assignment given to students.** |
| 5th | 1st | Preliminary project report |
|  | 2nd | Detailed project report |
|  | 3rd | Techno economic Feasibility |
|  | 4th | Project Viability |
| 6th | 1st | Definitions of management and Principles of management |
|  | 2nd | Functions of management: planning, organizing |
|  | 3rd | Staffing, directing and controlling |

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|  | 4th | Level of Management in an Organization |
| 7th | 1st | **Questions answer discussion** |
|  | 2nd | Production management: Functions, Activities and Productivity |
|  | 3rd | Quality control, Production Planning and control |
|  | 4th | Inventory Management: Need for Inventory management |
| 8th | 1st | Models/Techniques of Inventory management |
|  | 2nd | Financial Management: Functions of Financial management, management of Working capital |
|  | 3rd | Costing (only concept), Break even Analysis, |
|  | 4th | Brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book |
| 9th | 1st | P&L Accounts, Balance Sheets (only Concepts) |
|  | 2nd | Marketing Management: Concept of Marketing and Marketing Management |
|  | 3rd | Marketing Techniques (only concepts) Concept of 4P s (Price, Place, Product, Promotion) |
|  | 4th | Human Resource Management: Functions of Personnel Management, Manpower Planning, Recruitment, Sources of  manpower |
| 10th | 1st | Selection process, Method of Testing, Methods of Training & Development, Payment of Wages |
|  | 2nd | **Question answer discussion** |
|  | 3rd | **Internal exam** |
|  | 4th | Leadership: Definition and Need/Importance qualities of a leader |
| 11th | 1st | Leadership: qualities of a leader |
|  | 2nd | Functions of a leader and Manager Vs Leader |
|  | 3rd | Style of Leadership (Autocratic, Democratic, Participative) |
|  | 4th | Motivation: Definition and characteristics and Importance of motivation |
| 12th | 1st | Factors affecting motivation and Theories of motivation  (Maslow) |
|  | 2nd | Methods of Improving Motivation, Importance of  Communication in Business, Types and Barriers of Communication |
|  | 3rd | Work Culture, TQM & Safety: Human relationship and  Performance in Organization |
|  | 4th | Relations with Peers, Superiors and Subordinates |
| 13th | 1st | TQM concepts: Quality Policy, Quality Management |
|  | 2nd | Quality system, Accidents and Safety, Causes of accident |

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|  | 3rd | Preventive measures, General Safety Rules, Personal  Protection Equipment (PPE) |
|  | 4th | Legislation: Intellectual Property Rights (IPR), Patents,  Trademarks and copyrights |
| 14th | 1st | Features of Factories Act 1948 with Amendment (only salient points) |
|  | 2nd | Features of Payment of Wages Act 1936 (only salient points) |
|  | 3rd | Smart Technology: Concept of IOT, How IOT works |
|  | 4th | Components of IOT, Characteristics of IOT, Categories of IOT |
| 15th | 1st | Applications of IOT: Smart Cities, Smart Transportation,  Smart Home, Smart Healthcare |
|  | 2nd | Smart Energy Management etc. |
|  | 3rd | **Assignment and PYQs Discussion.** |
|  | 4th | **Possible questions discussion.** |