

GOVERNMENT POLYTECHNIC JAJPUR

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DEPARTMENT OF METALLURGICAL ENGINEERING

LESSON PLAN

| Discipline Metallurgy | Semester 5th | Name of teaching faculty: Biren Kumar Samal P.T.G.F in metallurgy |
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| Subject E.M.S.T | No day/ week class: 4 | No of week: 16 Session: Winter 2022 |
| Week | Class Day | Topic |
| 1st | 1st | State the Entrepreneurship |
| | 2nd | Characteristics, Qualities, function and Types of entrepreneur |
| | 3rd | Basic discussion about the Entrepreneurship & entrepreneur |
| | 4th | Different examples of entrepreneur and their story |
| 2nd | 1st | Practice the definition of Entrepreneurship, entrepreneur and sample paper question |
| | 2nd | Barriers to entrepreneurship |
| | 3rd | Comparison between Entrepreneurs vs Manager |
| | 4th | Types of Industries, Concept of Start-ups |
| 3rd | 1st | Short discussion of Entrepreneurial support agencies at National, State, District Level |
| | 2nd | Describe DIC & NSIC |
| | 3rd | Describe OSIC & SIDBI |
| | 4th | Briefly discuss about the NABARD, KVIC |
| 4th | 1st | Briefly Describe different Commercial Banks |
| | 2nd | Technology Business Incubators (TBI) |
| | 3rd | Technology Entrepreneur Parks |
| | 4th | Objective question discussion with answer, quiz test |
| 5th | 1st | Introduction of Business Planning |
| | 2nd | State the SSI, Ancillary Units, Tiny Units, Service sector Units |
| | 3rd | Time schedule Plan, Agencies to be contacted for Project Implementation |
| | 4th | Describe the Assessment of Demand and supply and Potential areas of Growth |
| 6th | 1st | State the Identifying Business Opportunity |
| | 2nd | Final Product selection |
| | 3rd | Semester point of view question discussion with answer |
| | 4th | Two mark question discussion in exam point of view. |
| 1st | 1st | Introduction of Project report Preparation |

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| 7th | 2nd | Discuss Preliminary project report |
| | 3rd | Detailed project report, Techno economic Feasibility |
| | 4th | Project Viability |
| 8th | 1st | Introduction of Management Principles |
| | 2nd | Discuss the Principles of management |
| | 3rd | Explain the Functions of management |
| | 4th | Discuss Level of Management in an Organisation with diagram |
| 9th | 1st | Functional Areas of Management with Production management |
| | 2nd | Explain about Inventory Management |
| | 3rd | Detail discussion Financial Management |
| | 4th | Explanation of Management of Working capital with diagram |
| 10th | 1st | Discuss Break even Analysis with diagram |
| | 2nd | Brief idea about Accounting Terminologies |
| | 3rd | Introduction of Marketing Management and its concept |
| | 4th | Discuss Marketing Techniques and Concept of 4P s |
| 11th | 1st | Detail explain about Human Resource Management |
| | 2nd | Concept of Leadership and importance |
| | 3rd | Compare between Manager Vs Leader |
| | 4th | Introduction of Motivation |
| 12th | 1st | Explain the Theories of motivation |
| | 2nd | Previous year of Short question discussion with answer |
| | 3rd | Quiz test |
| | 4th | M.C.Q question discussion with answer |
| 13th | 1st | Introduction of Work Culture, TQM & Safety |
| | 2nd | Introduction of TQM concepts |
| | 3rd | Discuss Accidents and Safety |
| | 4th | Quiz test |
| 14th | 1st | Introduction of Legislation |
| | 2nd | Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights |
| | 3rd | Features of Factories Act 1948 with Amendment (only salient points) |
| | 4th | Features of Payment of Wages Act 1936 (only salient points) |
| 15th | 1st | Introduction of Smart Technology |
| | 2nd | Concept of IOT, How IOT works |
| | 3rd | Components of IOT, Characteristics of IOT, Categories of IOT |
| | 4th | Applications of IOT |
| | 1st | Long and short question discussion of previous years semester |
| | 2nd | M.C.Q test of student |

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| 16th | 2nd | |
| | 3rd | Chapter doubt clearing class Important question given to exam point view |
| | 4th | Internal Assessment |

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