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| **Discipline:**  Civil Engineering | **Semester:**  5TH Semester- Section C | | **Name of the teaching faculty:**  Dr. Chandrakanta Sahoo |
| **Subject:**  **Entrepreneurship And Management & Smart Technology** | **No. of Days/ per week class allotted: 04 periods per week. (Monday-2 period, Wednesday-1 period, Saturday-1 period)** | | **Semester From Date: 28-10-2020 To Date: 22-01-2021**  **No. of weeks: 13 weeks** |
| **Week** | **Class Day** | **No of the period available** | **Theory Topics** |
| 1ST | 27/10/2020 | 1 | 1.0 Entrepreneurship  Concept /Meaning of Entrepreneurship  Need of Entrepreneurship |
| 28/10/2020 | 1 |
| 30/10/2020 | 1 | Characteristics, Qualities and Types of entrepreneur, |
| 2ND | 02/11/2020 | 1 | Functions, Barriers in entrepreneurship  Entrepreneurs vrs. Manager |
| 3/11/2020 |  | Forms of Business Ownership: Sole proprietorship, partnership firms, and others |
| 4/11/2020 | 1 | Types of Industries, Concept of Start-ups Entrepreneurial support agencies at National, State, District Level( Sources): DIC, NSIC, OSIC, SIDBI, NABARD, Commercial Banks, KVIC, etc. |
| 7/11/2020 | 1 |
| 3RD |
| 9/11/2020 | 1 | Technology Business Incubators (TBI) and Science and Technology Entrepreneur Parks  2.0 Market Survey and Opportunity Identification (Business Planning)  Business Planning  SSI, Ancillary Units, Tiny Units, Service sector Units |
| 10/10/2020 | 1 | Monthly Class Test |
| 4th | 16/11/2020 | 1 | Time schedule Plan, Agencies to be contacted for Project Implementation |
| 17/11/2020 | 1 |
| 18/11/2020 | 1 | Assessment of Demand and supply and Potential Areas of Growth  Identifying Business Opportunity  Final Product selection |
| 21/11/2020 | 1 | 3.0 Project report Preparation  Preliminary project report  Detailed project report |
| 5th | 23/11/2020 | 1 | Techno-economic Feasibility  Project Viability |
| 25/11/2020 | 1 |
| 26/11/2020 | 1 | 4.0 Management Principles  Definitions of Management  Principles of Management |
| 27/11/2020 | 1 | Functions of Management (planning, organizing, staffing, directing and controlling, etc.)  Level of Management in an Organisation |
| 6th | 1/12/2021 | 2 | 5.0 Functional Areas of Management  a) Production management |
| 3/12/2021 | 1 | Functions, Activities  Productivity  Quality control  Production Planning and control |
| 4/12/2021 | 1 | b) Inventory Management  Need for Inventory management  Models/Techniques of Inventory management |
| 7TH | 7/12/2021  9/12/2021 | 1  1 | c) Financial Management  Functions of Financial Management  Management of Working capital  Costing (only concept)  Break even Analysis |
| 10/12/2021 | 1 | A brief idea about Accounting Terminologies: Book Keeping, Journal entry, Petty Cash book, P&L Accounts, Balance Sheets(only Concepts |
| 11/12/2020 | 1 | Monthly Class Test |
| 8TH | 13/12/2020 | 1  1 | d) Marketing Management  Concept of Marketing and Marketing Management |
| 14/12/2020 | 1 | Internal Assessment |
| 16/12/2020 | 1 | Marketing Techniques (only concepts)  Concept of 4P s (Price, Place, Product, Promotion)  e) Human Resource Management  Functions of Personnel Management |
| 9TH | 23/12/2020  24/12/2020 | 2 | Manpower Planning, Recruitment, Sources of manpower, Selection process, Method of Testing, Methods of Training & Development, Payment of Wages |
| 25/12/2020 | 1 | 6.0 Leadership and Motivation  a) Leadership  Definition and Need/Importance  Qualities and functions of a leader  Manager Vs Leader  Style of Leadership (Autocratic, Democratic, Participative |
| 27/12/2020 | 1 | b) Motivation  Definition and characteristics  Importance of motivation  Factors affecting motivation |
| 10TH | 2/1/2021  4/1/2021 | 1  1 | Theories of motivation (Maslow)  Methods of Improving Motivation |
| 5/1/2021 | 1 | Importance of Communication in Business Types and Barriers of Communication |
| 6/1/2021 | 1 | 7.0 Work Culture, TQM & Safety  Human relationship and Performance in Organization |
| 11TH | 8/1/2021 | 1 | Relations with Peers, Superiors, and Subordinates  TQM concepts: Quality Policy, Quality Management, Quality system |
| 9/1/2021 | 1 | Accidents and Safety, Cause, preventive measures, General Safety Rules, Personal Protection Equipment(PPE) |
| 12TH | 11/1/2021  12/1/2020 | 1  1 | 8.0 Legislation  a) Intellectual Property Rights(IPR), Patents, Trademarks, Copyrights  b) Features of Factories Act 1948 with Amendment (only salient points) |
| 29/12/2021 | 1 | Monthly Class Test |
| 13/1/2021  14/1/2021 | 1  1 | c) Features of Payment of Wages Act 1936 (only salient points)  9.0 Smart Technology  Concept of IOT, How IOT works  Components of IOT, Characteristics of IOT, Categories of IOT |
| 13TH | 18/01/2021  20/01/2021 | 1  1 | Applications of IOT- Smart Cities, Smart Transportation, Smart Home, Smart Healthcare, Smart Industry, Smart Agriculture, Smart Energy Management etc. |
| 21/01/2021 | 1 | Revision |
| 22/01/2021 | 1 | Previous Year Question Discussion |

Dr. Chandrakanta Sahoo