



G H RAISONI COLLEGE OF ENGINEERING AND MANAGEMENT WAGHOLI PUNE

(An Autonomous Institute under UGC Act 1956 & Affiliated to Savitribai Phule Pune University)

Domkhel Road , GAT No.: 1200 Wagholi, Pune – 412207

Course wise Teaching Plan for Session : Summer 2019

Course : **COMPUTER INTEGRATED MANUFACTURING**

Faculty : **santosh.hiremath@raisoni.net - SANTOSH HIREMATH**

| Unit | Topic Code | Topic Covered | Date | Course | Section |
|------|------------|---|------------|---------|---------|
| 1 | 1 | Introduction to CNC Types, | 04/12/2018 | MCDL507 | A |
| 1 | 1 | Working and its Elements. DNC and its Types | 05/12/2018 | MCDL507 | A |
| 1 | 2 | Advantages. Adaptive control systems and advantages. | 07/12/2018 | MCDL507 | A |
| 1 | 3 | Advanced Tools and softwares applications | 08/12/2018 | MCDL507 | A |
| 1 | 2 | Advanced Tools and softwares applications | 11/12/2018 | MCDL507 | A |
| 1 | 4 | Activities in a CIM networked environment | 12/12/2018 | MCDL507 | A |
| 1 | 5 | CIM networking in a manufacturing company | 14/12/2018 | MCDL507 | A |
| 1 | 6 | CNC Programming | 15/12/2018 | MCDL507 | A |
| 2 | 3 | Introduction to CIM | 18/12/2018 | MCDL507 | A |
| 2 | 7 | Types of Manufacturing | 19/12/2018 | MCDL507 | A |
| 2 | 8 | CIM hardware and software | 21/12/2018 | MCDL507 | A |
| 2 | 9 | Elements of CIM | 22/12/2018 | MCDL507 | A |
| 2 | 4 | Product development through CIM Design Database requirements of CIM | 01/01/2019 | MCDL507 | A |
| 2 | 10 | Database, Database management, Database Models, | 02/01/2019 | MCDL507 | A |
| 2 | 11 | EDM, Product Data Management (PDM) | 04/01/2019 | MCDL507 | A |
| 2 | 12 | Database, Database management, Database Model | 05/01/2019 | MCDL507 | A |
| 3 | 5 | Manufacturing cell, Group Technology | 08/01/2019 | MCDL507 | A |
| 2 | 13 | Database, Database management, Database Model | 09/01/2019 | MCDL507 | A |
| 3 | 6 | Cellular Manufacturing. | 15/01/2019 | MCDL507 | A |
| 3 | 14 | DNC system and transfer of program from PC to machine. Introduction to FMS, | 16/01/2019 | MCDL507 | A |
| 3 | 15 | Manufacturing integration model, flexible manufacturing strategy, | 18/01/2019 | MCDL507 | A |
| 3 | 16 | Components of Flexible Manufacturing-Pallets | 19/01/2019 | MCDL507 | A |



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|------|------------|---|------------|---------|---------|
| 3 | 7 | fixtures, machining centers, inspection equipment | 29/01/2019 | MCDL507 | A |
| 3 | 17 | material handling stations, storage system, Inprocess storage, manually operated stations, allied operation centers | 30/01/2019 | MCDL507 | A |
| 4 | 18 | Role of integrative manufacturing in CAD/CAM integration, | 01/02/2019 | MCDL507 | A |
| 4 | 19 | Role of integrative manufacturing in CAD/CAM integration, | 02/02/2019 | MCDL507 | A |
| 4 | 8 | Over view of production control - Forecasting, Master production schedule, Capacity planning, | 05/02/2019 | MCDL507 | A |
| 4 | 20 | Over view of production control - Forecasting, Master production schedule, Capacity planning, | 06/02/2019 | MCDL507 | A |
| 4 | 21 | MRP., Order release, Shopfloor control | 08/02/2019 | MCDL507 | A |
| 4 | 22 | Quality assurance, Planning and control systems, | 09/02/2019 | MCDL507 | A |
| 4 | 9 | Quality assurance, Planning and control systems, | 12/02/2019 | MCDL507 | A |
| 4 | 23 | Cellular manufacturing, JIT manufacturing philosophy. | 13/02/2019 | MCDL507 | A |
| 5 | 24 | Integrating process with web | 15/02/2019 | MCDL507 | A |
| 5 | 25 | Process management and control through web | 16/02/2019 | MCDL507 | A |
| 5 | 26 | Process management and control through web | 22/02/2019 | MCDL507 | A |
| 5 | 27 | Applications of web based manufacturing, | 23/02/2019 | MCDL507 | A |
| 5 | 10 | Applications of web based manufacturing, | 26/02/2019 | MCDL507 | A |
| 5 | 28 | casting, machining, forming & forging. | 27/02/2019 | MCDL507 | A |
| 5 | 29 | casting, machining, forming & forging. | 01/03/2019 | MCDL507 | A |
| 6 | 34 | Web Based Manufacturing systems. | 01/03/2019 | MCDL507 | A |
| 5 | 30 | Lean Manufacturing: Definition, Principles of Lean Manufacturing | 02/03/2019 | MCDL507 | A |
| 6 | 11 | Lean Manufacturing: Definition, Principles of Lean Manufacturing | 05/03/2019 | MCDL507 | A |



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|-------------|-------------------|--|-------------|---------------|----------------|
| 6 | 31 | Focus on Waste, Relationship of Waste to Profit, Four Functions of Lean Production | 06/03/2019 | MCDL507 | A |
| 6 | 32 | Performance Measures, The Supply Chain, Benefits of Lean Manufacturing. | 08/03/2019 | MCDL507 | A |
| 6 | 33 | Introduction to Agile and Web Based Manufacturing systems. | 09/03/2019 | MCDL507 | A |
| 6 | 35 | Revision of Dificult Topics | 15/03/2019 | MCDL507 | A |
| 6 | 36 | Revision of Dificult Topics | 16/03/2019 | MCDL507 | A |
| 1 | 12 | Revision of Dificult Topics | 19/03/2019 | MCDL507 | A |
| 2 | 37 | Revision of Dificult Topics | 20/03/2019 | MCDL507 | A |
| 3 | 38 | Revision of Dificult Topics | 22/03/2019 | MCDL507 | A |
| 4 | 39 | Revision of Dificult Topics | 23/03/2019 | MCDL507 | A |
| 5 | 13 | Revision of Dificult Topics | 26/03/2019 | MCDL507 | A |
| 3 | 40 | Revision of Dificult Topics | 27/03/2019 | MCDL507 | A |
| 4 | 41 | Revision of Dificult Topics | 29/03/2019 | MCDL507 | A |
| 5 | 42 | Revision of Dificult Topics | 30/03/2019 | MCDL507 | A |