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Program: B.Tech. Mechanical Engineering		


Fourth Year -Seventh Semester- Course Outcomes


BME4701: Refrigeration and Air Conditioning

Course Code	Course Outcomes
BME4701.1	Calculate Coefficient of Performance by using the Simple vapour compression Refrigeration System
BME4701.2	Calculate Coefficient of Performance by using the compound vapour compression Refrigeration and multiple evaporator System
BME4701.3	Illustrate concept of different Air cycle refrigeration system
BME4701.4	Illustrate the concept Cryogenics and its different types
BME4701.5	Calculate Heat Load for Air conditioning system


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Fourth Year -Seventh Semester- Course Outcomes

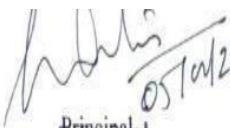
BME4702: Additive Manufacturing 3D Printing

Course Code	Course Outcomes
BME4702.1	Identify the Different 3D printing Technology and machines used in Additive manufacturing.
BME4702.2	Categorize and Select suitable Material for printing.
BME4702.3	Categorize and Select the different equipments in Additive manufacturing
BME4702.4	Illustrate the concept of Post processing
BME4702.5	Illustrate applications of Additive manufacturing


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Fourth Year -Seventh Semester- Course Outcomes


BME4703: Lab-Refrigeration and Air Conditioning



Course Code	Course Outcomes
BME4703.1	Demonstrate various types of Compressor sand Paraphrasing the condenser, evaporators and expansion devices used in refrigeration system.
BME4703.2	Interpret the various controls used in refrigeration and air conditioning system.
BME4703.3	Execute the performance of various types of air conditioning system.
BME4703.4	Evaluate the performance of the cooling capacity of the refrigeration system.
BME4703.5	Evaluate the performance of desert cooler system.


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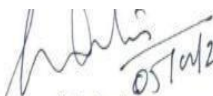
BME4704: Advanced CAD Lab


Course Code	Course Outcomes
BME4704.1	Summarize the basic concept of computer aided design.
BME4704.2	Apply transformation techniques on 2-D and 3-D entities.
BME4704.3	Analyze the concept of various modeling techniques.
BME4704.4	Analyze the 1-D bar and 2-D trusses using FEM technique.
BME4704.5	Analyze the CST elements structure by FEM method.


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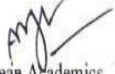
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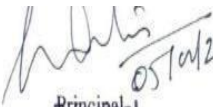
BME4706: PE-V- Material Handling System


Course Code	Course Outcomes
BME4706.1	Understand importance of material handling in a plant
BME4706.2	Demonstrate the understanding of mechanism and working of various materials handling systems.
BME4706.3	Analyze design components of material handling systems
BME4706.4	Understand equipments used for Material Storage
BME4706.5	Estimate Safety and design for material handling system


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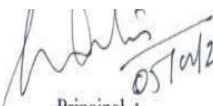
BME4708: PE-V- Total Quality Management



Course Code	Course Outcomes
BME4708.1	Analyze the benefits and challenges of implementing TQM in various industries and sectors.
BME4708.2	Summarize strategies for involving employees and suppliers in continuous improvement initiatives.
BME4708.3	Apply statistical tools and techniques to assess and improve process capability.
BME4708.4	Summarize the effectiveness of TQM tools in achieving quality objectives and organizational goals.
BME4708.5	Apply knowledge of quality systems, audits, leadership, and software tools to real-world case studies and scenarios.


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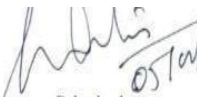
BBAXX17: Open Elective V- Industry 4.0

Course Code	Course Outcomes
BBAXX17.1	Understand the Sensor, Actuation and basics of Industry 4.0.
BBAXX17.2	Understand the Sustainability Assessment and Lean Production method in manufacturing industry.
BBAXX17.3	Understand the importance of Smart and Connected Business, and Smart Factories for Industry 4.0.
BBAXX17.4	Analyze the Cyber-Physical Systems and Next-Generation Sensors, and Product Lifecycle Management for Industry 4.0.
BBAXX17.5	Analyze the Augmented Reality, Virtual Reality, Artificial Intelligence and Big Data for Industry 4.0.


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