



GODAVARI INSTITUTE OF ENGINEERING & TECHNOLOGY

Autonomous

DEPARTMENT OF MECHANICAL ENGINEERING

Course Structure – M.Tech (THERMAL ENGINEERING) GR17 A.Y-2017-18

M.Tech – I SEMESTER

| S. No. | Subject Title | L | T | P | C | I | E | T |
|--------|---|----|----|---|----|-----|-----|-----|
| 1 | Optimization Techniques & Applications | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 2 | Advanced Thermodynamics | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 3 | Advanced Heat And Mass Transfer | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 4 | Advanced Fluid Mechanics | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 5 | (Elective -I) Gas Dynamics Refrigeration And Cryogenics Renewable Energy Technologies Theory And Technologies Of Fuel Cells | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 6 | (Elective-II) Advanced I.C. Engines Solar Energy Technology Turbo Machines Alternative Fuels Technologies | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 7 | Thermal Engineering Lab | -- | -- | 3 | 2 | 40 | 60 | 100 |
| | | 18 | 6 | 3 | 20 | 280 | 420 | 700 |

Design.

225
Dr. J. P. S.
B. Jayaram
15-J

Shankar
Jyoti

15-J



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M. Tech – II SEMESTER

| S. No. | Subject Title | L | T | P | C | I | E | T |
|--------|--|----|----|---|----|-----|-----|-----|
| 1 | Fuels, Combustion And Environment | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 2 | Energy Management | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 3 | Finite Element Method. | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 4 | Computational Fluid Dynamics | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 5 | (Elective-III) Materials Technology | 3 | 1 | - | 3 | 40 | 60 | 100 |
| | Convective Heat Transfer | | | | | | | |
| | Thermal And Nuclear Power Plants | | | | | | | |
| | Advanced Automobile Engineering | | | | | | | |
| 6 | (Elective-IV) Thermal Measurements And Process Controls | 3 | 1 | - | 3 | 40 | 60 | 100 |
| | Cryogenic Engineering | | | | | | | |
| | Jet Propulsion And Rocketry | | | | | | | |
| | Equipment Design For Thermal Systems | | | | | | | |
| 7 | Thermal Systems Design Lab | -- | -- | 3 | 2 | 40 | 60 | 100 |
| | | 18 | 6 | 3 | 20 | 280 | 420 | 700 |

Zaf T.P. Deemo
Dh ashwini gop pal
Sh lulu Ch R
IS B.Jay



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M. Tech – III SEMESTER

| S. No. | Subject Title | L | T | P | C |
|--------|-------------------------|---|---|---|----|
| 1 | Comprehensive Viva-Voce | | | | 2 |
| 2 | Seminar - I | - | - | - | 2 |
| 3 | Project work - I | - | - | - | 16 |
| Total | | | - | - | 20 |

M. Tech – IV SEMESTER

| S. No. | Subject Title | L | T | P | C |
|--------|-------------------|---|---|---|----|
| 1 | Seminar - II | - | - | - | 2 |
| 2 | Project work - II | - | - | - | 18 |
| Total | | | - | - | 20 |

Zojo *T.D.* *Dh* *Ram* *B. Jay*
Rehman *akbar* *Jag* *Rai* *✓*
IS-Jur *Jawad* *Ode* *B. Jay*



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DEPARTMENT OF MECHANICAL ENGINEERING
Course Structure – M.Tech (CAD/CAM) GR17 A.Y-2017-18

M.Tech – I SEMESTER

| S. No. | Subject Title | L | T | P | C | I | E | T |
|--------|---|----|----|---|----|-----|-----|-----|
| 1 | Industrial Robotics — Design | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 2 | Computer Aided Manufacturing | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 3 | Special Manufacturing Processes | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 4 | Geometric Modeling — Dev | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 5 | (Elective-I) Computational Methods in Engineering — Desig | | | | | | | |
| | Mechanical Vibrations — Dev | 3 | 1 | - | 3 | 40 | 60 | 100 |
| | Nano Technology | | | | | | | |
| 6 | (Elective-II) Design for Manufacturing & Assembly | | | | | | | |
| | Mechatronics | 3 | 1 | - | 3 | 40 | 60 | 100 |
| | Computer Aided Process Planning | | | | | | | |
| 7 | Advanced CAD Lab | -- | -- | 3 | 2 | 40 | 60 | 100 |
| | TOTAL | 18 | 6 | 3 | 20 | 280 | 420 | 700 |

~~John~~ ~~John~~ ~~John~~ ~~John~~ ~~John~~
S. S. S. S. S.



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M. Tech - II SEMESTER

| S. No. | Subject Title | L | T | P | C | I | E | T |
|--------|---|----|----|---|----|-----|-----|-----|
| 1 | Modeling & Simulation of Manufacturing Systems | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 2 | Optimization and Reliability | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 3 | Computer Graphics | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 4 | Finite Element Methods | 3 | 1 | - | 3 | 40 | 60 | 100 |
| 5 | (ELECTIVE-III) Quality Engineering in Manufacturing | 3 | 1 | - | 3 | 40 | 60 | 100 |
| | Fracture Mechanics | | | | | | | |
| | Concurrent Engineering | | | | | | | |
| 6 | (ELECTIVE-IV) Mechanics and Manufacturing Methods of Composites | 3 | 1 | - | 3 | 40 | 60 | 100 |
| | Materials Technology | | | | | | | |
| | Intelligent Manufacturing Systems | | | | | | | |
| 7 | Modeling and Analysis of Manufacturing Processes Lab | -- | -- | 3 | 2 | 40 | 60 | 100 |
| | | 18 | 6 | 3 | 20 | 280 | 420 | 700 |

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Alessano Pel Dre Durden Oles Re
11.3.18 B. Sylt St



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M. Tech – III SEMESTER

| S. No. | Subject Title | L | T | P | C |
|--------|-------------------------|---|---|---|----|
| 1 | Comprehensive Viva-Voce | | | | 2 |
| 2 | Seminar - I | - | - | - | 2 |
| 3 | Project work - I | - | - | - | 16 |
| | Total | - | - | - | 20 |

M. Tech – IV SEMESTER

| S. No. | Subject Title | L | T | P | C |
|--------|-------------------|---|---|---|----|
| 1 | Seminar - II | - | - | - | 2 |
| 2 | Project work - II | - | - | - | 18 |
| | Total | - | - | - | 20 |

J. D. M.
J. D. M.
11/3/19
B. Taylor
D. C. D. C.
T. H. Shabot
H. F. F.