

VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR

TEACHING AND EXAMINATION SCHEME FOR MASTER OF TECHNOLOGY (THERMAL ENGINEERING)

I SEMESTER

| Sr. No. | Subject Code | Subject Title | Teaching Hours | | | Credit |
|---------|--------------|---|----------------|----------|-----------|--------|
| | | | Theory | Tutorial | Practical | |
| 1 | MTH 101 | RESEARCH METHODOLOGY | 3 | 0 | 0 | 3 |
| 2 | MTH 102 | ADVANCED THERMODYNAMICS | 3 | 0 | 0 | 3 |
| 3 | MTH 103 | ADVANCED HEAT TRANSFER | 3 | 1 | 0 | 3.5 |
| 4 | MTH 104 | ADVANCED NUMERICAL METHODS AND ANALYSIS | 3 | 1 | 0 | 3.5 |
| 5 | | ELECTIVE –I | 3 | 0 | 0 | 3 |
| 6 | MTH 109 | ADVANCED HEAT TRANSFER LAB. | 0 | 0 | 4 | 2 |
| 7 | MTH 110 | ADVANCED THERMODYNAMICS LAB. | 0 | 0 | 4 | 2 |
| Total | | | 15 | 2 | 8 | 20 |

ELECTIVE –I

1. MTH 105 : DESIGN OF REFRIGERATION SYSTEMS
2. MTH 106 : THEORY AND DESIGN OF HEAT EXCHANGER
3. MTH 107 : FUEL CELL TECHNOLOGY
4. MTH 108 : EXPLOSION AND SAFETY

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II SEMESTER

| Sr. No. | Subject Code | Subject Title | Teaching Hours | | | Credit |
|---------|--------------|--|----------------|----------|-----------|--------|
| | | | Theory | Tutorial | Practical | |
| 1 | MTH 201 | COMPUTATIONAL FLUID DYNAMICS | 3 | 1 | 0 | 3.5 |
| 2 | MTH 202 | ADVANCED FLUID MECHANICS | 3 | 1 | 0 | 3.5 |
| 3 | MTH 203 | I.C.ENGINE & EMISSION CONTROL | 3 | 0 | 0 | 3 |
| 4 | MTH 204 | APPLICATION OF NANO MATERIALS IN ENERGY CONVERSION PROCESS | 3 | 0 | 0 | 3 |
| 5 | | ELECTIVE –II | 3 | 0 | 0 | 3 |
| 6 | MTH 209 | SIMULATION LAB. | 0 | 0 | 4 | 2 |
| 7 | MTH 210 | ADVANCED FLUID MECHANICS LAB. | 0 | 0 | 4 | 2 |
| Total | | | 15 | 2 | 8 | 20 |

ELECTIVE –II

1. MTH 205 DESIGN OF THERMAL SYSTEM
2. MTH 206 CONVECTION
3. MTH 207 NUMERICAL METHODS IN CONDUCTION
4. MTH 208 ADVANCED GAS TURBINE AND ENGINE

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III SEMESTER

| Sr. No. | Subject Code | Subject Title | Teaching Hours | | | Credit |
|---------|--------------|--|----------------|----------|-----------|--------|
| | | | Theory | Tutorial | Practical | |
| 1 | MTH 301 | SEMINAR | - | - | - | 2 |
| 2 | MTH 302 | DISSERTATION PART- I | - | - | - | 8 |
| 3 | MTH 303 | Library (<i>Review of Literature for Research</i>) | - | - | - | 4 |
| Total | | | | | | 14 |

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IV SEMESTER

| Sr. No. | Subject Code | Subject Title | Teaching Hours | | | Credit |
|------------|--------------|-----------------------|----------------|----------|-----------|--------|
| | | | Theory | Tutorial | Practical | |
| 1 | MTH 401 | DISSERTATION PART- II | - | - | - | 16 |
| Total | | | | | | 16 |