



Integral University, Lucknow
Department of Mechanical Engineering
Study and Evaluation Scheme

Program: Diploma in Engineering

Semester III

| S. No. | Course code | Course Title | Type of Paper | Period Per hr/week/sem | | | Evaluation Scheme | | | | Sub. Total | Credit | Total Credits | Attributes | | | | | | |
|------------------|-------------|-----------------------------------|---------------|------------------------|-----------|-----------|-------------------|----|-------|-----|------------|---------|---------------|---------------|------------------|-------------------|-----------------|------------------------------|-------------|---------------------|
| | | | | L | T | P | CT | TA | Total | ESE | | | | Employability | Entrepreneurship | Skill Development | Gender Equality | Environment & Sustainability | Human Value | Professional Ethics |
| THEORIES | | | | | | | | | | | | | | | | | | | | |
| 1 | DMA -301 | Applied Mathematics-II (A) | Core | 03 | 01 | 00 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | | √ | | | | |
| 2 | DME - 301 | Mechanics of Solid | Core | 03 | 01 | 00 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | | | |
| 3 | DME - 302 | Material Science - I | Core | 03 | 01 | 00 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | √ | | |
| 4 | DME - 303 | Thermal Engineering - I | Core | 03 | 01 | 00 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | √ | | |
| 5 | DME - 304 | Mechanical Engineering Drawing | Core | 01 | 03 | 00 | 40 | 20 | 60 | 40 | 100 | 1:3:0 | 4 | √ | √ | √ | | | | |
| 6 | DME - 305 | Basic Electrical Engineering | | 03 | 01 | 00 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | | √ | | | | |
| PRACTICAL | | | | | | | | | | | | | | | | | | | | |
| 7 | DME - 351 | Mechanics of Solids Lab. | Core | 00 | 00 | 03 | 40 | 20 | 60 | 40 | 100 | 0:0:1.5 | 1.5 | √ | √ | √ | | | | |
| 8 | DME - 353 | Thermal Engineering Lab. | Core | 00 | 00 | 03 | 40 | 20 | 60 | 40 | 100 | 0:0:1.5 | 1.5 | √ | √ | √ | | √ | | |
| 9 | DME - 355 | Basic Electrical Engineering Lab. | Core | 00 | 00 | 03 | 40 | 20 | 60 | 40 | 100 | 0:0:1.5 | 1.5 | √ | | √ | | | | |
| 10 | GP - 351 | General Proficiency | | | | | | | 60 | | 60 | | | | | | | | √ | √ |
| Total | | | | 18 | 06 | 09 | | | | | 960 | | 28.5 | | | | | | | |



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Semester IV

| S. No. | Course code | Course Title | Type of Paper | Period Per hr/week/sem | | | Evaluation Scheme | | | | Max. Marks | Credit | Total Credits | Attributes | | | | | | |
|------------------|-------------|-----------------------------------|---------------|------------------------|-----------|-----------|-------------------|----------|----------|----------|------------|---------|---------------|---------------|------------------|-------------------|-----------------|------------------------------|-------------|---------------------|
| | | | | L | T | P | CT | TA | Total | ESE | | | | Employability | Entrepreneurship | Skill Development | Gender Equality | Environment & Sustainability | Human Value | Professional Ethics |
| THEORIES | | | | | | | | | | | | | | | | | | | | |
| 1 | DMA - 401 | Applied Mathematics-II (B) | Core | 03 | 01 | 00 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | | √ | | | | |
| 2 | DME - 401 | Hydraulics & Hydraulic Machines | Core | 03 | 01 | 00 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | | √ | √ | | | √ | |
| 3 | DME - 402 | Material Science –II | Core | 03 | 01 | 00 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | | √ | √ | | | √ | |
| 4 | DME - 403 | Thermal Engineering - II | Core | 03 | 01 | 00 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | | √ | |
| 5 | DME - 404 | Manufacturing Process | Core | 03 | 01 | 00 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | | √ | |
| 6 | DME - 405 | Basic Electronics Engg. | Core | 03 | 01 | 00 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | | √ | | | | |
| PRACTICAL | | | | | | | | | | | | | | | | | | | | |
| 1. | DME - 451 | Hydraulics Lab. | Core | 00 | 00 | 03 | 40 | 20 | 60 | 40 | 100 | 0:0:1.5 | 1.5 | | √ | √ | | | √ | |
| 2. | DME - 452 | Workshop (Manufacturing Process) | Core | 00 | 00 | 03 | 40 | 20 | 60 | 40 | 100 | 0:0:1.5 | 1.5 | √ | √ | √ | | | √ | |
| 3. | DME - 455 | Basic Electronics Engg.. Lab | Core | 00 | 00 | 03 | 40 | 20 | 60 | 40 | 100 | 0:0:1.5 | 1.5 | √ | | √ | | | | |
| 4. | GP- 451 | General Proficiency | | - | - | - | - | - | 60 | - | 60 | | | | | | | | √ | |
| Total | | | | 18 | 06 | 09 | - | - | - | - | 960 | | 28.5 | | | | | | | |



Integral University, Lucknow
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Semester VI

| S. No. | Course code | Course Title | Type of Paper | Period Per hr/week/sem | | | Evaluation Scheme | | | | Max. Marks | Credit | Total Credits | Attributes | | | | | | |
|------------------|-------------|--|---------------|------------------------|-----------|-----------|-------------------|----------|----------|----------|-------------|--------|---------------|---------------|------------------|-------------------|-----------------|------------------------------|-------------|---------------------|
| | | | | L | T | P | CT | TA | Total | ESE | | | | Employability | Entrepreneurship | Skill Development | Gender Equality | Environment & Sustainability | Human Value | Professional Ethics |
| THEORIES | | | | | | | | | | | | | | | | | | | | |
| 1 | DME -601 | Dynamics of Machine | Core | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | | √ | |
| 2 | DME -602 | Refrigeration & Air Conditioning | Core | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | √ | √ | |
| 3 | DME-604 | Industrial Engineering & Safety | Core | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | √ | √ | |
| 4 | DME-607 | Metrology & Quality Control | Core | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | | √ | | | √ | |
| 5 | DIM-601 | Industrial Management & Entrepreneurship Development | Core | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | √ | | | √ | |
| 6 | DEV-601 | Environmental Education & Disaster Management | Core | 3 | 1 | 0 | 40 | 20 | 60 | 40 | 100 | 3:1:0 | 4 | √ | √ | | | √ | √ | |
| PRACTICAL | | | | | | | | | | | | | | | | | | | | |
| 1. | DME-652 | Refrigeration & Air Conditioning Lab | Core | 0 | 0 | 2 | 40 | 20 | 60 | 40 | 100 | 0:0:1 | 1 | √ | √ | √ | | √ | √ | |
| 2. | DME-653 | Metrology. Lab | Core | 0 | 0 | 2 | 40 | 20 | 60 | 40 | 100 | 0:0:1 | 1 | √ | | √ | | | √ | |
| 3. | DME-656 | Project | Core | 0 | 0 | 2 | -- | 120 | 120 | 80 | 200 | 0:0:1 | 1 | √ | √ | √ | | √ | √ | |
| 4. | DGP-651 | General Proficiency | | - | - | - | -- | -- | 60 | -- | 60 | | | | | | | √ | √ | |
| Total | | | | 18 | 06 | 06 | - | - | - | - | 1060 | | 27 | | | | | | | |