

Uttaranchal University, Dehradun
STUDY AND EVALUATION SCHEME
Diploma in Engineering 1st Year (Common to all Diploma Programmes)
(Effective from the session: 2019-2020)
Year: I, Semester – I (Civil 001, EE-002, ME-003, CSE-004)

| SNo. | Code | Subject | L | T | P | EVALUATION SCHEME | | | | Total Marks |
|--------------|-----------------------|---|------------|------------|------------|--------------------------------|-----------|-----------------------------------|-----------|-------------|
| | | | Hrs/week | | | Internal Assessment(Sessional) | | External Assessment (Examination) | | |
| | | | | | | Theory | Practical | Written Paper | Practical | |
| | | | Max. Marks | Max. Marks | Max. Marks | Max. Marks | | | | |
| 1 | DTHM-101 | English and Communication Skills-I | 3 | 1 | 0 | 40 | - | 60 | - | 100 |
| 2 | DTMA-102 | Applied Mathematics-I | 3 | 1 | 0 | 40 | - | 60 | - | 100 |
| 3 | DTPH-103 | Applied Physics I | 3 | 0 | 0 | 40 | - | 60 | - | 100 |
| 4 | DTEC-104/ DTME-104 | Basic Electronics Engineering /Basic Mechanical Engineering | 3 | 0 | 0 | 40 | - | 60 | - | 100 |
| 5 | DTCS105/ DTEE105 | Fundamentals of Information Technology/Basic Electrical Engineering | 3 | 0 | 0 | 40 | - | 60 | - | 100 |
| 6 | DTES-108/ DTCY108 | Environmental Studies/ Applied Chemistry | 3 | 0 | 0 | 40 | - | 60 | - | 100 |
| 7 | DPPH-103 | Applied Physics I Lab | 0 | 0 | 2 | - | 25 | - | 25 | 50 |
| 8 | DPEC104/ DPME104 | Basic Electronics Engineering Lab /Basic Mechanical Engineering Lab | 0 | 0 | 2 | - | 25 | - | 25 | 50 |
| 9 | DPCS-105/ DPEE105 | Fundamentals of Information Technology Lab/Basic Electrical Engineering Lab | 0 | 0 | 2 | - | 25 | - | 25 | 50 |
| 10 | DPED-106 | Engineering Drawing-I | - | - | 4 | - | 50 | - | 50 | 100 |
| 11 | DPWS-107 | General Workshop Practice – I | - | - | 4 | - | 25 | - | 25 | 50 |
| 12 | DPES108/ DPCY108 | Environmental Studies Lab/ Applied Chemistry Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 13 | DGP-109 | Discipline & Student centered activities* | - | - | - | - | 50 | - | - | 50 |
| Total | | | 18 | 2 | 16 | - | - | - | - | 1000 |

* Student Centered Activities includes activities like co-curricular activities, sports & games, field visit, NCC, NSS and cultural activities etc.

Uttaranchal University, Dehradun
STUDY AND EVALUATION SCHEME
Diploma in Engineering 1st Year (Common to all Diploma Programmes)
(Effective from the session: 2019-2020)
Year: I, Semester – II (Civil 001, EE-002, ME-003, CSE-004)

| SNo. | Code | Subject | L | T | P | EVALUATION SCHEME | | | | Total Marks |
|--------------|-----------------------|--|----------|---|----|--------------------------------|------------|-----------------------------------|------------|-------------|
| | | | Hrs/week | | | Internal Assessment(Sessional) | | External Assessment (Examination) | | |
| | | | | | | Theory | Practical | Written Paper | Practical | |
| | | | | | | Max. Marks | Max. Marks | Max. Marks | Max. Marks | |
| 1 | DTHM-201 | English and Communication Skills-II | 3 | 1 | 0 | 40 | - | 60 | - | 100 |
| 2 | DTMA-202 | Applied Mathematics-II | 3 | 1 | 0 | 40 | - | 60 | - | 100 |
| 3 | DTPH-203 | Applied Physics II | 3 | 0 | 0 | 40 | - | 60 | - | 100 |
| 4 | DTME-204/ DTEC-204 | Basic Mechanical Engineering/ Basic Electronics Engineering | 3 | 0 | 0 | 40 | - | 60 | - | 100 |
| 5 | DTEE205/ DTCS205 | Basic Electrical Engineering/ Fundamentals of Information Technology | 3 | 0 | 0 | 40 | - | 60 | - | 100 |
| 6 | DTCY208/ DTES-208 | Applied Chemistry/ Environmental Studies | 3 | 0 | 0 | 40 | - | 60 | - | 100 |
| 7 | DPPH-203 | Applied Physics II Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 8 | DPME204/ DPEC204 | Basic Mechanical Engineering Lab/ Basic Electronics Engineering Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 9 | DPEE205/ DPCS-205 | Basic Electrical Engineering Lab/ Fundamentals of Information Technology Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 10 | DPED-206 | Engineering Drawing-II | - | - | 4 | - | 50 | - | 50 | 100 |
| 11 | DPWS-207 | General Workshop Practice – II | - | - | 4 | - | 25 | - | 25 | 50 |
| 12 | DPCY208/ DPES208 | Applied Chemistry Lab/ Environmental Studies Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 13 | DGP-209 | Discipline & Student centered activities* | - | - | - | - | 50 | - | - | 50 |
| Total | | | 18 | 2 | 16 | - | - | - | - | 1000 |

* Student Centered Activities includes activities like co-curricular activities, sports & games, field visit, NCC, NSS and cultural activities etc.

Uttaranchal University, Dehradun
STUDY AND EVALUATION SCHEME
Diploma in Engineering 2nd Year, Branch-Mechanical Engineering
(Effective from the session: 2018-2019)
Year: II, Semester – III(ME-003)

| S. No. | Code | Subject | L | T | P | EVALUATION SCHEME | | | | Total Marks |
|--------------|----------|-------------------------------|----------|---|----|---------------------|------------|-----------------------------------|------------|-------------|
| | | | Hrs/week | | | Internal Assessment | | External Assessment (Examination) | | |
| | | | | | | Theory | Practical | Written Paper | Practical | |
| | | | | | | Max. Marks | Max. Marks | Max. Marks | Max. Marks | |
| 1 | DTME-301 | Applied Mechanics | 3 | 1 | 0 | 40 | - | 60 | - | 100 |
| 2 | DTME-302 | Material Science & Metallurgy | 3 | 1 | 0 | 40 | - | 60 | - | 100 |
| 3 | DTME-303 | Workshop Technology-I | 3 | 1 | 0 | 40 | - | 60 | - | 100 |
| 4 | DTME-305 | Engg. Thermodynamics | 3 | 1 | 0 | 40 | - | 60 | - | 100 |
| 5 | DPME-301 | Applied Mechanics Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 6 | DPME-303 | Workshop Technology-I Lab | - | - | 4 | - | 50 | - | 50 | 100 |
| 7 | DPME-304 | Machine Drawing | 0 | 0 | 4 | - | 100 | - | 100 | 200 |
| 8 | DPME-305 | Engg. Thermodynamics Lab | 0 | 0 | 2 | - | 50 | - | 50 | 50 |
| 9 | DPME-306 | Industrial Exposure | - | - | 2 | - | 50 | - | - | 50 |
| 10 | DPME-307 | General Proficiency | - | - | - | - | 50 | - | - | 50 |
| Total | | | 12 | 4 | 14 | | | | | 900 |

Uttaranchal University, Dehradun
STUDY AND EVALUATION SCHEME
Diploma in Engineering 2nd Year, Branch-Mechanical Engineering
(Effective from the session: 2018-19)
Year: II, Semester – IV(ME-003)

| S. No. | Code | Subject | L | T | P | EVALUATION SCHEME | | | | Total Marks |
|--------------|----------|-------------------------------------|------------|------------|------------|---------------------|-----------|-----------------------------------|-----------|-------------|
| | | | Hrs/week | | | Internal Assessment | | External Assessment (Examination) | | |
| | | | | | | Theory | Practical | Written Paper | Practical | |
| | | | Max. Marks | Max. Marks | Max. Marks | Max. Marks | | | | |
| 1 | DTME-401 | Strength of Materials | 3 | 0 | 0 | 40 | - | 60 | - | 100 |
| 2 | DTME-402 | Applied Thermal Engineering | 3 | 1 | 0 | 40 | - | 60 | - | 100 |
| 3 | DTME-403 | Workshop Technology-II | 3 | 0 | - | 40 | - | 60 | - | 100 |
| 4 | DTME-404 | Hydraulics & Hydraulic Machines | 4 | 1 | 0 | 40 | - | 60 | - | 100 |
| 5 | DTCE-405 | Basic Civil Engineering | 3 | 0 | 0 | 40 | - | 60 | - | 100 |
| 6 | DPME-401 | Strength of Materials Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 7 | DPME-402 | Applied Thermal Engineering Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 8 | DPME-403 | Workshop Technology-II Lab | - | - | 2 | - | 50 | - | 50 | 100 |
| 9 | DPME-404 | Hydraulics & Hydraulic Machines Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 10 | DPCE-405 | Basic Civil Engineering Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 11 | DPME-406 | Industrial Exposure | - | - | 2 | - | 50 | - | - | 50 |
| 12 | DPME-407 | General Proficiency | - | - | - | - | 50 | - | - | 50 |
| Total | | | 16 | 2 | 12 | | | | | 900 |

Uttaranchal University, Dehradun
STUDY AND EVALUATION SCHEME
Diploma in Engineering 3rd Year, Branch-Mechanical Engineering
(Effective from the session: 2018-2019)
Year: III, Semester – V(ME-003)

| S.No. | Code | Subject | L | T | P | EVALUATION SCHEME | | | | Total Marks |
|--------------|----------|---|----------|---|----|---------------------|------------|-----------------------------------|------------|-------------|
| | | | Hrs/week | | | Internal Assessment | | External Assessment (Examination) | | |
| | | | | | | Theory | Practical | Written Paper | Practical | |
| | | | | | | Max. Marks | Max. Marks | Max. Marks | Max. Marks | |
| 1 | DTME-501 | Production Technology - I | 3 | - | - | 40 | - | 60 | - | 100 |
| 2 | DTME-502 | Theory of Machine | 3 | - | - | 40 | - | 60 | - | 100 |
| 3 | DTME-503 | Machine Element Design | 3 | 1 | - | 40 | - | 60 | - | 100 |
| 4 | DTME-504 | Metrology | 3 | - | - | 40 | - | 60 | - | 100 |
| 5 | DTME-505 | CNC Machines & Automation | 3 | - | - | 40 | - | 60 | - | 100 |
| 6 | DPME-501 | Production Technology – I Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 7 | DPME-502 | Theory of Machine Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 8 | DPME-503 | Machine Element Design Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 9 | DPME-504 | Metrology Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 10 | DPME-505 | CNC Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 11 | DPME-506 | Industrial Training | - | - | 2 | - | 50 | - | - | 50 |
| 12 | DPME-507 | Computer application in Mechanical Drafting Design and Analysis | - | - | 2 | - | 50 | - | - | 50 |
| 13 | DPME-508 | Minor Project | - | - | - | - | 50 | - | - | 50 |
| Total | | | 15 | 1 | 14 | - | - | - | - | 900 |

Industrial training will be done after 4th semester and its evaluation will be done in 5th semester.

Uttaranchal University, Dehradun
STUDY AND EVALUATION SCHEME
Diploma in Engineering 3rd Year, Branch-Mechanical Engineering
(Effective from the session: 2018-2019)
Year: III, Semester – VI(ME-003)

| S. No. | Code | Subject | L | T | P | EVALUATION SCHEME | | | | Total Marks |
|--------------|----------|---|----------|---|----|---------------------|------------|-----------------------------------|------------|-------------|
| | | | Hrs/week | | | Internal Assessment | | External Assessment (Examination) | | |
| | | | | | | Theory | Practical | Written Paper | Practical | |
| | | | | | | Max. Marks | Max. Marks | Max. Marks | Max. Marks | |
| 1 | DTME-601 | Production Technology - II | 3 | 1 | - | 40 | - | 60 | - | 100 |
| 2 | DTME-602 | Automobile Engineering | 3 | - | - | 40 | - | 60 | - | 100 |
| 3 | | Departmental Elective | 3 | 1 | - | 40 | - | 60 | - | 100 |
| 4 | DTHU-604 | Entrepreneurship Development & Management | 3 | - | - | 40 | - | 60 | - | 100 |
| 5 | DPME-601 | Production Technology – II Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 6 | DPME-602 | Automobile Engineering Lab | - | - | 2 | - | 25 | - | 25 | 50 |
| 7 | DPME-606 | Project | - | - | 2 | - | 150 | - | 150 | 300 |
| 8 | DPME-607 | Industrial Exposure | - | - | 2 | - | 50 | - | - | 50 |
| 9 | DPME-608 | Employable Skills | - | - | 2 | - | 50 | - | - | 50 |
| Total | | | 12 | 1 | 10 | | | | | 900 |

Professional practice/Industrial/ Field Internship/Extension activities (1000 marks) may be opted for, in lieu of Semester VI coursework at the discretion of university authorities.

List of Departmental Electives (i) Maintenance Engineering (DTME-651)

(ii) Power Plant Engineering (DTME-652)

(iii) Mechatronics (DTME-653)