

**STUDY AND EVALUATION SCHEME FOR LATERAL ENTRY AND ITI PASSES STUDENTS**  
**Diploma in Mechanical Engineering (Production) (Six Semester)**  
**Semester: III**

| Sr. No.                           | SUBJECTS                                  | STUDY SCHEME<br>Periods/Week |   |    | Credits | MARKS IN EVALUATION SCHEME |     |     |                     |     |     |     |     |     | Total Marks of Internal & External | End Semester Exam Type |
|-----------------------------------|-------------------------------------------|------------------------------|---|----|---------|----------------------------|-----|-----|---------------------|-----|-----|-----|-----|-----|------------------------------------|------------------------|
|                                   |                                           |                              |   |    |         | INTERNAL ASSESSMENT        |     |     | EXTERNAL ASSESSMENT |     |     |     |     |     |                                    |                        |
|                                   |                                           | L                            | T | P  |         | Th                         | Pr  | Tot | Th                  | Hrs | Pr  | Hrs | Tot |     |                                    |                        |
| 1.                                | Thermal Engineering -I                    | 4                            | 0 | 0  | 3       | 40                         | -   | 40  | 60                  | 3   | -   | -   | 60  | 100 | Theory                             |                        |
| 2.                                | Fluid Mechanics & Hydraulic Machinery     | 4                            | 0 | 0  | 3       | 40                         | -   | 40  | 60                  | 3   | -   | -   | 60  | 100 | Theory                             |                        |
| 3.                                | Fluid Mechanics & Hydraulic Machinery Lab | 0                            | 0 | 4  | 2       | -                          | 60  | 60  | -                   | -   | 40  | 3   | 40  | 100 | Practical                          |                        |
| 4.                                | Workshop Practice                         | 0                            | 0 | 4  | 2       | -                          | 60  | 60  | -                   | -   | 40  | 3   | 40  | 100 | Practical                          |                        |
| 5.                                | Measurements & Metrology                  | 2                            | 0 | 3  | 3       | -                          | 40  | 40  | 60                  | 3   | -   | -   | 60  | 100 | Practicum                          |                        |
| 6.                                | Computer Aided Machine Drawing Practice   | 1                            | 0 | 6  | 4       | -                          | 60  | 60  | -                   | -   | 40  | 3   | 40  | 100 | Practicum                          |                        |
| 7.                                | Advance Skill Development OR              | -                            | - | -  | 2       | -                          | -   | -   | -                   | -   | -   | -   | -   | -   | *Qualifying                        |                        |
|                                   | *Open Elective-I                          | 2                            | - | -  |         | 50                         | -   | 50  | -                   | -   | -   | -   | -   |     |                                    |                        |
| 8.                                | MINOR PROJECT**                           | -                            | - | -  | 1       | -                          | 50  | 50  | -                   | -   | -   | -   | -   | -   |                                    |                        |
| #Student Centred Activities (SCA) |                                           | -                            | - | 6  | -       | -                          | 50  | 50  | -                   | -   | -   | -   | -   | 50  | Project                            |                        |
| Total                             |                                           | 13                           | 0 | 23 | 20      | 80                         | 320 | 400 | 180                 | -   | 120 | -   | 300 | 700 |                                    |                        |

#Student Centered Activities will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visit, Library, N.C.C., NSS, Cultural Activities and self-study etc.

\* **Qualifying paper** must have to pass, but the marks will not be added in awarded division or total marks.

\***Tata Tech. Based Open Elective-I** subject will be offered preferably at the centers established by Tata Tech.

\*\* Lateral entry students shall undertake a minor project and deliver a presentation on the same. This project will serve as an equivalent to summer internship-I for the

purpose of earning the associated credits and marks.

**The lecture allotted to SCA can also be utilized for the course completion of other subjects.**

Note -

- 1) Each period will be 60 minutes duration.
- 2) Each session will be of 16 weeks.
- 3) Effective teaching will be at least 14 weeks.

### **Open Elective-I**

- Material Handling Systems (AICTE)
- Energy Conservation & Audit (AICTE)
- Advanced Welding & Painting using Simulator (Tata Tech)
- Industrial Robotics & Automation (AICTE)
- Internet of Things (Tata Tech)
- Product Verification & Analysis (Tata Tech)

### **Advance Skill Development:**

To fulfill the requirements for Advanced Skill Development, a minimum of 20 hours of skill certification is necessary. This certification must be obtained from a recognized national or international agency or institute. The assessment and certification process will be conducted by the respective agency or institute. Students must present their certificate to earn 02 credits for this subject.

**A. COMPULSORY SUBJECT OF I & II SEMESTER MECHANICAL ENGINEERING TO BE TAUGHT IN III Sem. TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS :**

TOOL & DIE MAKER(PRESS TOOLS, JIGS & FIXTURES), TOOL & DIE MAKER (DESIGN & MOULDS), MECHANIC MACHINE TOOLS MAINTENANCE), DRAUGHTMAN (MECHANICAL), MACHINIST, MACHINIST (GRINDER), FITTER, TURNER, MECHANIC(DOMESTIC COMMERCIAL, REFRIGERATION & AC), PRODUCTION & MANUFACTURING SECTOR, AUTOMOBILE SECTOR, REFRIGERATION AND AIRCONDITIONER SECTOR, FABRICATION (FITTING & WELDING), MECHANIC (MOTOR VEHICLE), MECHANIC (AGRICULTURE M/c)

| Sr.<br>No. | SUBJECTS                           | STUDY<br><br>SCHEME<br><br>Periods/Week |   |   |       | Credits | MARKS/INEVALUATION/SCHEME |     |     |                        |     |     |     |     |     | Total<br>Marks of<br>Internal&<br>External |
|------------|------------------------------------|-----------------------------------------|---|---|-------|---------|---------------------------|-----|-----|------------------------|-----|-----|-----|-----|-----|--------------------------------------------|
|            |                                    |                                         |   |   |       |         | INTERNAL<br>ASSESSMENT    |     |     | EXTERNAL<br>ASSESSMENT |     |     |     |     |     |                                            |
|            |                                    | L                                       | T | P | Total |         | Th                        | Pr  | Tot | Th                     | Hrs | Pr  | Hrs | Tot |     |                                            |
| 1.1        | *MATHEMATICS-I                     | 2                                       | 1 | - | 3     | 3       | 40                        | -   | 40  | 60                     | 3   | -   | -   | 60  | 100 |                                            |
| 1.2        | *APPLIEDPHYSICS-I                  | 3                                       | - | 2 | 5     | 4       | 40                        | 60  | 100 | 60                     | 3   | 40  | 3   | 100 | 200 |                                            |
| 1.3        | *APPLIEDCHEMISTRY                  | 3                                       | - | 2 | 5     | 4       | 40                        | 60  | 100 | 60                     | 3   | 40  | 3   | 100 | 200 |                                            |
| 1.4        | *COMMUNICATIONSKILLS<br>IN ENGLISH | 3                                       | - | 2 | 5     | 4       | 40                        | 60  | 100 | 60                     | 3   | 40  | 3   | 100 | 200 |                                            |
| TOTAL      |                                    | 11                                      | 1 | 6 | 18    | 15      | 160                       | 180 | 340 | 240                    |     | 120 |     | 360 | 700 |                                            |

\* Common with other diploma programmes

# Student Centred Activities will comprise of co-curricular activities like extension lectures, self study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

(\*) It is compulsory to appear & to pass in examination From III Semester To VI Semester, But credit/marks will not be included for division and percentage of obtained marks.

(\*) Four Semester (Two Years) of Extra Time will be given after diploma curriculum period (If Required) to pass the above paper (1.1 To 1.4 and 2.1 to 2.2) examination (As Per G. O. No. 2221/16-Pra. Shi.-3-2009 Dated 28-08-2009) & Revised G.O. No. 2704/16-Pra.Shi.-3-2013-46(8)/2002 Dated 09-01-2013 and B.T.E Order No. Pra.Shi.Pa/C.D.C./2022/872021 Dated 21.02.22

**STUDY AND EVALUATION SCHEME FOR LATERAL ENTRY AND ITI PASSES STUDENTS**  
**Diploma in Mechanical Engineering (Production) (Six Semester)**  
**Semester: IV**

| Sr. No.                           | SUBJECTS                                       | STUDY SCHEME<br>Periods/Week |   |    | Credits | MARKS IN EVALUATION SCHEME |     |     |                     |     |     |     |     |     | Total Marks of Internal & External | Exam Type |
|-----------------------------------|------------------------------------------------|------------------------------|---|----|---------|----------------------------|-----|-----|---------------------|-----|-----|-----|-----|-----|------------------------------------|-----------|
|                                   |                                                |                              |   |    |         | INTERNAL ASSESSMENT        |     |     | EXTERNAL ASSESSMENT |     |     |     |     |     |                                    |           |
|                                   |                                                | L                            | T | P  |         | Th                         | Pr  | Tot | Th                  | Hrs | Pr  | Hrs | Tot |     |                                    |           |
| 1.                                | Strength of Materials                          | 4                            | 0 | 0  | 3       | 40                         | -   | 40  | 60                  | 3   | -   | -   | 60  | 100 | Theory                             |           |
| 2.                                | Industrial Engineering & Management            | 4                            | 0 | 0  | 3       | 40                         | -   | 40  | 60                  | 3   | -   | -   | 60  | 100 | Theory                             |           |
| 3.                                | Strength of Materials Lab                      | 0                            | 0 | 6  | 3       | -                          | 60  | 60  | -                   | -   | 40  | 3   | 40  | 100 | Practical                          |           |
| 4.                                | Manufacturing Engineering                      | 2                            | 0 | 3  | 3       | -                          | 40  | 40  | 60                  | 3   | -   | -   | 60  | 100 | Practicum                          |           |
| 5.                                | Material Science & Engineering                 | 1                            | 0 | 4  | 3       | -                          | 60  | 60  | -                   | -   | 40  | 3   | 40  | 100 | Practicum                          |           |
| 6.                                | Thermal Engineering-II                         | 1                            | 0 | 4  | 3       | -                          | 60  | 60  | -                   | -   | 40  | 3   | 40  | 100 | Practicum                          |           |
| 7.                                | Advance Skill Development OR                   | -                            | - | -  | 2       | -                          | -   | -   | -                   | -   | -   | -   | -   | -   | *Qualifying                        |           |
|                                   | *Open Elective-II                              | 2                            | - | -  |         | 50                         | -   | 50  | -                   | -   | -   | -   | -   | -   |                                    |           |
| 8.                                | *Essence of Indian Knowledge and Tradition (Q) | 2                            | 0 | 0  | -       | 50                         | -   | 50  | -                   | -   | -   | -   | -   | -   | *Qualifying                        |           |
| #Student Centred Activities (SCA) |                                                | -                            | - | 3  | -       | -                          | 50  | 50  | -                   | -   | -   | -   | -   | 50  | -                                  |           |
| Total                             |                                                | 16                           | 0 | 20 | 20      | 80                         | 270 | 350 | 180                 | -   | 120 | -   | 300 | 650 | -                                  |           |

Industrial training of 4-6 weeks duration to be organized after 4<sup>th</sup> semester exam and will be evaluated in 5<sup>th</sup> sem.

# Student Centered Activities will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visit, Library, N.C.C., NSS, Cultural Activities and self-study etc.

\* **Qualifying paper** must have to pass, but the marks will not be added in awarded division or total marks.

\***Tata Tech. Based open elective-II** subject will be offered preferably at the centers established by Tata Tech.

**The lecture allotted to SCA can also be utilized for the course completion of other subjects.**

Note -

- 1) Each period will be 60 minutes duration.
- 2) Each session will be of 16 weeks.
- 3) Effective teaching will be at least 14 weeks.

### **Open Elective-II**

- Refrigeration & Air-conditioning
- Power Plant Engineering
- Disaster Management
- Inspection & Quality Control (Tata Tech)
- Advanced Automobile (Tata Tech)

### **Advance Skill Development:**

To fulfill the requirements for Advanced Skill Development, a minimum of 20 hours of skill certification is necessary. This certification must be obtained from a recognized national or international agency or institute. The assessment and certification process will be conducted by the respective agency or institute. Students must present their certificate to earn 02 credits for this subject.

**B. COMPULSORY SUBJECT OF I & II SEMESTER MECHANICAL ENGINEERING TO BE TAUGHT IN IV Sem. TO ITI PASSED STUDENTS OF TRADES ARE AS FOLLOWS :**

TOOL & DIE MAKER(PRESS TOOLS, JIGS & FIXTURES), TOOL & DIE MAKER (DESIGN & MOULDS), MECHANIC MACHINE TOOLS MAINTENANCE), DRAUGHTSMAN (MECHANICAL), MACHINIST, MACHINIST (GRINDER), FITTER, TURNER, MECHANIC(DOMESTIC COMMERCIAL, REFRIGERATION & AC), PRODUCTION& MANUFACTURING SECTOR, AUTOMOBILE SECTOR, REFRIGERATION AND AIRCONDITIONER SECTOR, FABRICATION (FITTING & WELDING), MECHANIC (MOTOR VEHICLE), MECHANIC (AGRICULTURE M/c)

| Sr.<br>No. | SUBJECTS            | STUDY<br><br>SCHEME<br><br>Periods/Week |   |   |       | Credits | MARKS IN EVALUATION SCHEME |    |     |                        |     |    |     |     |     |  | TOTAL<br>MARKS OF<br>INTERNAL<br>& EXTERNAL |
|------------|---------------------|-----------------------------------------|---|---|-------|---------|----------------------------|----|-----|------------------------|-----|----|-----|-----|-----|--|---------------------------------------------|
|            |                     |                                         |   |   |       |         | INTERNAL<br>ASSESSMENT     |    |     | EXTERNAL<br>ASSESSMENT |     |    |     |     |     |  |                                             |
|            |                     | L                                       | T | P | Total |         | Th                         | Pr | Tot | Th                     | Hrs | Pr | Hrs | Tot |     |  |                                             |
| 2.1        | *MATHEMATICS-II     | 3                                       | 1 | - | 4     | 4       | 40                         | -  | 40  | 60                     | 3   | -  | -   | 60  | 100 |  |                                             |
| 2.2        | *APPLIED PHYSICS-II | 3                                       | - | 2 | 5     | 4       | 40                         | 60 | 100 | 60                     | 3   | 40 | 3   | 100 | 200 |  |                                             |
| Total      |                     | 6                                       | 1 | 2 | 9     | 8       | 80                         | 60 | 140 | 120                    |     | 40 |     | 160 | 300 |  |                                             |

\* Common with other diploma programme

# Student Centred Activities will comprise of co-curricular activities like extension lectures, self-study, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visits, N.C.C., NSS, Cultural Activities, disaster management and safety etc.

Summer Internship (Industrial training) of 4 weeks duration to be organised after 4th semester exams

(\*) It is compulsory to appear & to pass in examination From III Semester To VI Semester, But credit/marks will not be included for division and percentage of obtained marks.

(\*) Four Semester (Two Years) of Extra Time will be given after diploma curriculum period (If Required) to pass the above paper (1.1 To 1.4 and 2.1 to 2.2) examination (As Per G. O. No. 2221/16-Pra. Shi.-3-2009 Dated 28-08-2009) & Revised G.O. No. 2704/16-Pra.Shi.-3- 2013-46(8)/2002 Dated 09-01-2013 and B.T.E Order No. Pra.Shi.Pa/C.D.C./2022/872021 Dated 21.02.22

**Semester: V**

| Sr. No.                           | SUBJECTS                                                                   | STUDY SCHEME<br>Periods/Week |   |    | Credit | MARKS IN EVALUATION SCHEME |     |     |                     |     |    |     |     |     | Total Marks of Internal & External | Exam Type |
|-----------------------------------|----------------------------------------------------------------------------|------------------------------|---|----|--------|----------------------------|-----|-----|---------------------|-----|----|-----|-----|-----|------------------------------------|-----------|
|                                   |                                                                            | L                            | T | P  |        | INTERNAL ASSESSMENT        |     |     | EXTERNAL ASSESSMENT |     |    |     |     |     |                                    |           |
|                                   |                                                                            |                              |   |    |        | Th                         | Pr  | Tot | Th                  | Hrs | Pr | Hrs | Tot |     |                                    |           |
| 1.                                | Summer Internship-II (4-6 Weeks)                                           | -                            | - | -  | 2      | -                          | 60  | 60  | -                   | -   | 40 | 3   | 40  | 100 | Practical                          |           |
| 2.                                | Theory of Machines & Mechanisms                                            | 4                            | 0 | 0  | 4      | 40                         | -   | 40  | 60                  | 3   | -  | -   | 60  | 100 | Theory                             |           |
| 3.                                | Design of Machine Elements                                                 | 4                            | 0 | 0  | 4      | 40                         | -   | 40  | 60                  | 3   | -  | -   | 60  | 100 | Theory                             |           |
| 4.                                | Minor Project                                                              | 0                            | 0 | 8  | 4      | -                          | 60  | 60  | -                   | -   | 40 | 3   | 40  | 100 | Practical                          |           |
| 5.                                | Program Specific Subject (Practicum)<br>• Advanced Manufacturing Processes | 3                            | 0 | 3  | 4      | -                          | 40  | 40  | 60                  | 3   | -  | -   | 60  | 100 | Practicum                          |           |
| 6.                                | Advance Skill Development OR Open Elective-III (Anyone from the list)      | 2                            | 0 | -  | 2      | 50                         | -   | 50  | -                   | -   | -  | -   | -   | -   | Qualifying                         |           |
| 7.                                | Indian Constitution                                                        | 2                            | 0 | 0  | 0      | 50                         | -   | 50  | -                   | -   | -  | -   | -   | -   | Qualifying                         |           |
| #Student Centred Activities (SCA) |                                                                            | -                            | - | 10 | -      | -                          | 50  | 50  | -                   | -   | -  | -   | -   | 50  | -                                  |           |
| Total                             |                                                                            | 15                           | 0 | 21 | 20     | 80                         | 210 | 290 | 180                 | -   | 80 | -   | 260 | 550 | -                                  |           |

# Student Centered Activities will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visit, Library, N.C.C., NSS, Cultural Activities and self-study etc.

Note -

- 1) Each period will be 60 minutes duration.
- 2) Each session will be of 16 weeks.
- 3) Effective teaching will be at least 14 weeks.

**Open Elective-III (Any one) :**

| SR. NO. | SUBJECT NAME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | Computer Aided Design & manufacturing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 1.      | Reverse Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 2.      | Artificial Intelligence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 3.      | Automobile Engineering                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|         | Any Course Of Minimum 02 Credit From (Advance Skill Development) <ul style="list-style-type: none"><li>• NPTEL</li><li>• MOOCS THROUGH SWAYAM</li><li>• AICTE-ELIS AND CENTRALLY FUNDED TECHNICAL INSTITUTES</li><li>• C-DAC</li><li>• CERTIFICATES CONDUCTED BY THE INSTITUTE OF NATIONAL IMPORTANCE (IIT, NIT, IIT ETC.)</li><li>• ISRO E-LEARNING</li><li>• COURSES OFFERED BY TATA TECHNOLOGY (Annexure-1) OR OTHER REPUTED ORGNISATION.<ul style="list-style-type: none"><li>o Electric Vehicle (Tata Tech)</li><li>o Fundamentals of Innovation &amp; Design Thinking (Tata Tech)</li></ul></li></ul> |

\* **Qualifying paper** must have to pass, but the marks will not be added in awarded division or total marks.

\* **Practicum subjects** are to be evaluated by theory or practical examinations as mentioned in above scheme.

\***Tata Tech. Based** Open Elective-I subject will be offered preferably at the centers established by Tata Tech.

The lecture allotted to SCA can also be utilized for the course completion of other subjects.

**Advance Skill Development:**

To fulfill the requirements for Advanced Skill Development, a minimum of 20 hours of skill certification is necessary. This certification must be obtained from a recognized national or international agency or institute. The assessment and certification process will be conducted by the respective agency or institute. Students must present their certificate to earn 02 credits for this subject.

**Semester: VI**  
**A: Normal Pathways**

| Sr. No .                          | SUBJECTS                                                                                                                                                                   | STUDY SCHEME<br>Periods/Week |   |    | Credit | MARKS IN EVALUATION SCHEME |     |     |                     |     |     |     |     |     | Total Marks of Internal & External | Exam type |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---|----|--------|----------------------------|-----|-----|---------------------|-----|-----|-----|-----|-----|------------------------------------|-----------|
|                                   |                                                                                                                                                                            |                              |   |    |        | INTERNAL ASSESSMENT        |     |     | EXTERNAL ASSESSMENT |     |     |     |     |     |                                    |           |
|                                   |                                                                                                                                                                            | L                            | T | P  |        | Th                         | Pr  | Tot | Th                  | Hrs | Pr  | Hrs | Tot |     |                                    |           |
| 1                                 | Project                                                                                                                                                                    | -                            | - | 24 | 12     | -                          | 240 | 240 | -                   | -   | 160 | 3   | 160 | 400 | Practical                          |           |
| 1. 2                              | Entrepreneurship and Start-ups **                                                                                                                                          | 2                            | 0 | 0  | 2      | 40                         | -   | 40  | 60                  | 3   | -   | -   | 60  | 100 | Practical                          |           |
| 2. 3                              | <b>Elective Pathway: (Any One)</b><br>• Advanced Engineering Mathematics<br>• Additive Manufacturing<br>• Project Management<br>• Finance Fundamentals<br>• Industry 4.0   | 3                            | 0 | 0  | 3      | 40                         | -   | 40  | 60                  | 3   | -   | -   | 60  | 100 | Theory                             |           |
| 3. 4                              | <b>Elective Specialization (Any One):</b><br>• Green Energy & Engineering<br>• Maintenance of Machine Tools<br>• Non-Destructive Testing<br>• Product Design & Development | 3                            | 0 | 0  | 3      | 40                         | -   | 40  | 60                  | 3   | -   | -   | 60  | 100 | Theory                             |           |
| #Student Centred Activities (SCA) |                                                                                                                                                                            | -                            | - | 4  | -      | -                          | 50  | 50  | -                   | -   | -   | -   | -   | 50  | -                                  |           |
| Total                             |                                                                                                                                                                            | 08                           | 0 | 28 | 20     | 120                        | 290 | 410 | 180                 | -   | 160 | -   | 340 | 750 | -                                  |           |

# Student Centered Activities will comprise of co-curricular activities like extension lectures, games, hobby clubs e.g. photography etc., seminars, declamation contests, educational field visit, Library, N.C.C., NSS, Cultural Activities and self-study etc.

Note -

- 1) Each period will be 60 minutes duration.
- 2) Each session will be of 16 weeks.
- 3) Effective teaching will be at least 14 weeks.

\*\* Common with other Engineering diploma courses

**Elective Pathway: (Any One)**

- Advanced Engineering Mathematics
- Additive Manufacturing
- Project Management
- Finance Fundamentals
- Industry 4.0

**Elective Specialization (Any One):**

- Green Energy & Engineering
- Maintenance of Machine Tools
- Non-Destructive Testing
- Product Design & Development

\* **Qualifying paper** must have to pass, but the marks will not be added in awarded division or total marks.

\* **Practicum subjects** are to be evaluated by theory or practical examinations as mentioned in above scheme.

\***Tata Tech. Based** Open Elective-I subject will be offered preferably at the centers established by Tata Tech.  
The lecture allotted to SCA can also be utilized for the course completion of other subjects.

**Semester: VI**  
**B: Internship Pathway**

| Sr. No. | SUBJECTS                                       | STUDY SCHEME<br>Periods/Week |   |   | Credits | MARKS IN EVALUATION SCHEME |     |     |                     |     |    |     |     |     | Total Marks of Internal & External | Exam Type |
|---------|------------------------------------------------|------------------------------|---|---|---------|----------------------------|-----|-----|---------------------|-----|----|-----|-----|-----|------------------------------------|-----------|
|         |                                                |                              |   |   |         | INTERNAL ASSESSMENT        |     |     | EXTERNAL ASSESSMENT |     |    |     |     |     |                                    |           |
|         |                                                | L                            | T | P |         | Th                         | Pr  | Tot | Th                  | Hrs | Pr | Hrs | Tot |     |                                    |           |
| 6.1     | **Entrepreneurship And Start-Ups (Online Mode) | -                            | - | - | 2       | -                          | -   | -   | 100                 | 3   | -  | -   | 100 | 100 | Theory                             |           |
| 6.2     | Industry Hands on Practice                     | -                            | - | - | 4       | -                          | -   | -   | -                   | -   | -  | -   | -   | 350 | -                                  |           |
|         | Industrial Project                             | -                            | - | - | 12      | -                          | -   | -   | -                   | -   | -  | -   | -   | 200 | -                                  |           |
|         | Seminar (In Institute)                         | -                            | - | - | 2       | -                          | 100 | 100 | -                   | -   | -  | -   | -   | 100 | Seminar                            |           |
| Total   |                                                | -                            | - | - | 20      | -                          | 100 | 100 | 100                 | -   | -  | -   | 100 | 750 | -                                  |           |

\*\* Common with another diploma programme

**NOTE:**

1. The Industrial training tenure should not be less than 4 months.
2. Industry must be registered with MSME / Directorate of industries/Limited Organization/ State/Central Government establishments.
3. Monthly progress reports of Intern/ Trainee should be attested and forwarded by industrial supervisor (allotted to Intern/Trainee) during industrial Internship/Training.
4. The Industrial unit/organisation must evaluate students using the format provided by polytechnic in the form of marks.
5. The Industrial Hands on Practice, Industrial Project and seminar must be evaluated on the basis of the BTE Internship / Training Policy -2025.
6. "Entrepreneurship and Start-up" course is also mandatory in Industrial internship/training mode. It will be conducted online mode by his/her polytechnic institute. After completing the online course, students must appear for exam conducted by the Board of Technical Education, Lucknow.