# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Electronics & Telecommunication/Instrumentation/Computer Science & Engineering/Information Technology (Group-II)

## Semester-I

**Session-2020**

**Scheme of Studies :**

| S.No | Board of Study | Course Code | Course Titles | Scheme of Studies (Hours/Week) | | | |
|---|---|---|---|---|---|---|---|
| | | | | L | P | T | Credit L+T+(P/2) |
| 1 | Humanities | 2000171(046) | Communication Skills-I | 2 | - | 1 | 3 |
| 2 | Applied Science | 2000172(014) | Applied Maths-I | 2 | - | 1 | 3 |
| 3 | Applied Science | 2000174(015) | Applied Physics | 2 | - | 1 | 3 |
| 4 | Applied Science | 2000178(011) | Applied Chemistry | 2 | - | 1 | 3 |
| 5 | Computer Science and Engineering | 2000176(022) | Computer Fundamentals & Applications | 2 | - | 0 | 2 |
| 6 | Applied Science | 2000190(015) | Applied Physics (Lab) | - | 2 | - | 1 |
| 7 | Applied Science | 2000191(011) | Applied Chemistry (Lab) | - | 2 | - | 1 |
| 8 | Computer Science and Engineering | 2000193(022) | Computer Fundamentals & Applications (Lab) | - | 4 | - | 2 |
| 9 | Electronics & Telecommunication Engineering | 2000194(028) | Electronics Work Shop Practice | - | 2 | - | 1 |
| 10 | Humanities | 2000193(046) | Seminar & Technical Presentation (Listening, Reading & Speaking) Skills | - | 2 | - | 1 |
| 11 | - | - | Library | - | 2 | - | - |
| 12 | - | - | Co-curricular & Academic Activity Societies | - | 2 | - | - |
| **Total** | | | | **10** | **16** | **04** | **20** |

L - Lecture, T - Tutorial, P – Practical

**Legend:**

Lecture (L) → CI Classroom Instruction (Includes different instructional strategies i.e Lecture and others.)

Practical (P)→ LI Laboratory Instruction (Includes practical performances in Laboratory workshop, field or other locations using different instructional strategies).

Tutorial (T) → Includes sessional work (SW) (assignment, seminar, mini project etc), self Learning (SL)

**Note:** Leftover periods/week shall be utilized for Self Learning (SL) purpose.

# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Electronics & Telecommunication/Instrumentation/Computer Science & Engineering/Information Technology (Group-II)

## Semester-I

**Session-2020**

**Scheme of Examination:**

| S.No | Board of Study | Course Code | Course Titles | Scheme of Examination | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Theory | | | Practical | | Total Marks |
| | | | | ESE | CT | TA | ESE | TA | |
| 1 | Humanities | 2000171(046) | Communication Skills-I | 70 | 20 | 30 | - | - | 120 |
| 2 | Applied Science | 2000172(014) | Applied Maths-I | 70 | 20 | 30 | - | - | 120 |
| 3 | Applied Science | 2000174(015) | Applied Physics | 70 | 20 | 30 | - | - | 120 |
| 4 | Applied Science | 2000178(011) | Applied Chemistry | 70 | 20 | 30 | - | - | 120 |
| 5 | Computer Science and Engineering | 2000176(022) | Computer Fundamentals & Applications | 70 | 20 | 30 | - | - | 120 |
| 6 | Applied Science | 2000190(015) | Applied Physics (Lab) | - | - | - | 30 | 50 | 80 |
| 7 | Applied Science | 2000191(011) | Applied Chemistry (Lab) | - | - | - | 30 | 50 | 80 |
| 8 | Computer Science and Engineering | 2000193(022) | Computer Fundamentals & Applications (Lab) | - | - | - | 30 | 50 | 80 |
| 9 | Electronics & Telecommunication Engineering | 2000194(028) | Electronics Work Shop Practice | - | - | - | 30 | 70 | 100 |
| 10 | Humanities | 2000193(046) | Seminar & Technical Presentation (Listening, Reading & Speaking) Skills | - | - | - | - | 60 | 60 |
| **Total** | | | | **350** | **100** | **150** | **120** | **280** | **1000** |

ESE: End of Semester Exam, CT: Class Test, TA: Teachers Assessment

**Legend:** PRA: Process Assessment, PDA: Product Assessment

**Note :** i. TA in Theory includes Sessional work (SW) and Attandance (ATT) with weightage of 70% and 30% of total respectively.

ii. TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10% of total respectively.

iii. 85% attendance is essential in theory & Practical classes to appear in examination.

# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Electronics & Telecommunication/Instrumentation/Computer Science & Engineering/Information Technology (Group-II)

## Semester-II

**Scheme of Studies:** **Session-2020**

| S.No | Board of Study | Course Code | Course Titles | Scheme of Studies (Hours/Week) | | | |
|---|---|---|---|---|---|---|---|
| | | | | L | P | T | Credit L+T+(P/2) |
| 1 | Humanities | 2000271(046) | Communication Skills-II | 2 | - | 1 | 3 |
| 2 | Applied Science | 2000272(014) | Applied Maths-II | 2 | - | 1 | 3 |
| 3 | Civil Engineering | 2000273(020) | Environmental Engineering & Sustainable Development | 2 | - | 1 | 3 |
| 4 | Computer Science and Engineering | 2022274(022) | Programming in 'C' | 2 | - | 1 | 3 |
| 5 | Electronics & Telecommunication Engineering | 2028275(028) | Basic Electronics Engineering | 2 | - | 1 | 3 |
| 6 | Computer Science and Engineering | 2022290(022) | Programming in 'C' (Lab) | - | 4 | - | 2 |
| 7 | Electronics & Telecommunication Engineering | 2028291(028) | Basic Electronics Engineering (Lab) | - | 4 | - | 2 |
| 8 | Humanities | 2000292(046) | Seminar & Technical Presentation (Personality Development & Leadership) Skills | - | 2 | - | 1 |
| 9 | - | - | Library | - | 2 | - | - |
| 10 | - | - | Co-curricular & Academic Activity Societies | - | 2 | - | - |
| **Total** | | | | **10** | **14** | **05** | **20** |

L - Lecture, T - Tutorial, P – Practical

**Legend:**

Lecture (L) → CI Classroom Instruction (Includes different instructional strategies i.e Lecture and others.)

Practical (P)→ LI Laboratory Instruction (Includes practical performances in Laboratory workshop, field or other locations using different instructional strategies).

Tutorial (T) → Includes sessional work (SW) (assignment, seminar, mini project etc), self Learning (SL)

**Note:** Leftover periods/week shall be utilized for Self Learning (SL) purpose.

# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Electronics & Telecommunication/Instrumentation/Computer Science & Engineering/Information Technology (Group-II)

### Semester-II

**Scheme of Examinations:** **Session-2020**

| S.No | Board of Study | Course Code | Course Titles | Scheme of Examination | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Theory | | | Practical | | Total Marks |
| | | | | ESE | CT | TA | ESE | TA | |
| 1 | Humanities | 2000271(046) | Communication Skills-II | 70 | 20 | 30 | - | - | 120 |
| 2 | Applied Science | 2000272(014) | Applied Maths-II | 70 | 20 | 30 | - | - | 120 |
| 3 | Civil Engineering | 2000273(020) | Environmental Engineering & Sustainable Development | 70 | 50 | 30 | - | - | 150 |
| 4 | Computer Science and Engineering | 2022274(022) | Programming in 'C' | 70 | 50 | 50 | - | - | 170 |
| 5 | Electronics & Telecommunication Engineering | 2028275(028) | Basic Electronics Engineering | 70 | 50 | 50 | - | - | 170 |
| 6 | Computer Science and Engineering | 2022290(022) | Programming in 'C' (Lab) | - | - | - | 30 | 70 | 100 |
| 7 | Electronics & Telecommunication Engineering | 2028291(028) | Basic Electronics Engineering (Lab) | - | - | - | 30 | 70 | 100 |
| 8 | Humanities | 2000292(046) | Seminar & Technical Presentation (Personality Development & Leadership) Skills | - | - | - | - | 70 | 70 |
| **Total** | | | | **350** | **190** | **190** | **60** | **210** | **1000** |

ESE: End of Semester Exam, CT: Class Test, TA: Teachers Assessment

**Legend:** PRA: Process Assessment, PDA: Product Assessment

**Note :** i. TA in Theory includes Sessional work (SW) and Attandance (ATT) with weightage of 70% and 30% of total respectively.

ii. TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10% of total respectively.

iii. 85% attendance is essential in theory & Practical classes to appear in examination.

# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Instrumentation Engineering

## Semester – 3rd Sem

**Session-2020**

**Scheme of Studies :**

| S.No. | Board of Study | Course Code | Course Titles | Scheme of Studies (Hours/Week) | | | |
|---|---|---|---|---|---|---|---|
| | | | | L | P | T | Credit L+T+(P/2) |
| 1 | Instrumentation Engineering | 2034371 (034) | Industrial Instrumentation and Sensors | 2 | - | 1 | 3 |
| 2 | E & TC Engineering | 2028374 (028) | Digital Electronics | 2 | - | 1 | 3 |
| 3 | Electrical Engineering | 2024372 (024) | Electrical and Electronics Measurements | 2 | - | 1 | 3 |
| 4 | Electrical Engineering | 2034373 (024) | Fundamental of Electrical Machines | 2 | - | 1 | 3 |
| 5 | Electrical Engineering | 2034375 (024) | Basic Electrical and Network Theory | 2 | - | 1 | 3 |
| 6 | Instrumentation Engineering | 2034361 (034) | Industrial Instrumentation and Sensors (Lab) | - | 2 | - | 1 |
| 7 | E & TC Engineering | 2034362 (028) | Digital Electronics (Lab) | - | 2 | - | 1 |
| 8 | Electrical Engineering | 2034363 (024) | Electrical and Electronics Measurements (Lab) | - | 2 | - | 1 |
| 9 | Electrical Engineering | 2034364 (024) | Fundamental of Electrical Machines (Lab) | - | 2 | - | 1 |
| 10 | Electrical Engineering | 2034365 (024) | Basic Electrical and Network Theory (Lab) | - | 2 | - | 1 |
| 11 | Humanities | - | Health, Hygiene and Yoga (Non Credit Subject) | - | 2 | - | 0 |
| 12 | - | - | Library | - | 2 | - | 0 |
| **Total** | | | | **10** | **14** | **05** | **20** |
| | | | | | **29** | | |

**L**- Lecture, **T**- Tutorial, **P**- Practical,

Lecture (L)→ CL Classroom Instruction (Includes different instructional Strategies i.e Lecture and others.)

Practical (P)→LI Laboratory Instruction (Includes practical performances in Laboratory workshop, field or other locations using different instructional strategies).

Tutorial (T)→ Includes sessional work (SW) (assignment, seminar, mini project etc), Self Learning (SL)

# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Instrumentation Engineering

## Semester – 3rd Sem

**Scheme of Examination :** **Session-2020**

| S. No | Board of Study | Course Code | Course Titles | Scheme of Examination | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Theory | | | Practical (PRA+PDA+Viva) | | Total Marks |
| | | | | ESE | CT | TA | ESE | TA | |
| 1 | Instrumentation Engineering | 2034371 (034) | Industrial Instrumentation and Sensors | 70 | 20 | 30 | - | - | 120 |
| 2 | E & TC Engineering | 2028374 (028) | Digital Electronics | 70 | 20 | 30 | - | - | 120 |
| 3 | Electrical Engineering | 2024372 (024) | Electrical and Electronics Measurements | 70 | 20 | 30 | - | - | 120 |
| 4 | Electrical Engineering | 2034373 (024) | Fundamental of Electrical Machines | 70 | 20 | 30 | - | - | 120 |
| 5 | Electrical Engineering | 2034375 (024) | Basic Electrical and Network Theory | 70 | 20 | 30 | - | - | 120 |
| 6 | Instrumentation Engineering | 2034361 (034) | Industrial Instrumentation and Sensors (Lab) | - | - | - | 30 | 50 | 80 |
| 7 | E & TC Engineering | 2034362 (028) | Digital Electronics (Lab) | - | - | - | 30 | 50 | 80 |
| 8 | Electrical Engineering | 2034363 (024) | Electrical and Electronics Measurements (Lab) | - | - | - | 30 | 50 | 80 |
| 9 | Electrical Engineering | 2034364 (024) | Fundamental of Electrical Machines (Lab) | - | - | - | 30 | 50 | 80 |
| 10 | Electrical Engineering | 2034365 (024) | Basic Electrical and Network Theory (Lab) | - | - | - | 30 | 50 | 80 |
| 11 | Humanities | - | Health, Hygiene and Yoga (Non Credit Subject) | - | - | - | - | - | - |
| **Total** | | | | **350** | **100** | **150** | **150** | **250** | **1000** |

**ESE:** End of semester exam **CT:** Class Test **TA:** Teachers Assessment

**PRA:** Process Assessment, **PDA:** Product Assessment

**Note:** i. TA in Theory includes Sessional work (SW) and Attndance (ATT), with weightage of 70% and 30 % weightage of total respectively.

ii. TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10 % weightage of total respectively.

iii. 85 % attendance is essential in theory & practical classes to appear in examination.

# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Instrumentation Engineering

## Semester – 4th Sem

**Scheme of Studies :** **Session-2020**

| S. N. | Board of Study | Course Code | Course Titles | Scheme of Studies (Hours/Week) | | | |
|---|---|---|---|---|---|---|---|
| | | | | L | P | T | Credit L+T+(P/2) |
| 1 | E&TC Engineering | 2028471 (028) | Microcontroller and its Application | 3 | - | - | 3 |
| 2 | Instrumentation Engineering | 2034472 (034) | Analog Circuits & Application | 2 | - | 1 | 3 |
| 3 | Instrumentation Engineering | 2034473 (034) | Analytical Instrumentation | 2 | - | 1 | 3 |
| 4 | Instrumentation Engineering | 2034474 (034) | Basic Control System | 2 | - | 1 | 3 |
| 5 | Instrumentation Engineering | 2034475 (034) | Bio Medical Instrumentation | 2 | | 1 | 3 |
| 6 | E&TC Engineering | 2028461 (028) | Microcontroller and its Application (Lab) | - | 2 | - | 1 |
| 7 | Instrumentation Engineering | 2034462 (034) | Analog Circuits & Application (Lab) | - | 2 | - | 1 |
| 8 | Instrumentation Engineering | 2034463 (034) | Analytical Instrumentation (Lab) | - | 2 | - | 1 |
| 9 | Instrumentation Engineering | 2034464 (034) | Basic Control System (Lab) | - | 2 | - | 1 |
| 10 | Instrumentation Engineering | 2034465 (034) | Instrumentation Engineering Drawing (Lab) | - | 2 | - | 1 |
| 11 | - | - | Indian Constitution (Non Credit Subject) | - | 2 | - | - |
| 12 | - | - | Library | | 2 | | |
| **Total** | | | | **11** | **14** | **04** | **20** |
| | | | | | **29** | | |

**L**- Lecture, **T**- Tutorial, **P**- Practical,

Lecture (L)→ CL Classroom Instruction (Includes different instructional Strategies i.e Lecture and others.)

Practical (P)→LI Laboratory Instruction (Includes practical performances in Laboratory workshop, field or other locations using different instructional strategies).

Tutorial (T)→ Includes sessional work (SW) (assignment, seminar, mini project etc), Self Learning (SL)

**Note: Summer Internship (Industrial Training) of 4 weeks will be carried out in summer vacation after completion of 4th sem and evaluation will be done in 5th sem.**

# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Instrumentation Engineering

## Semester – 4th Sem

**Session-2020**

**Scheme of Examination :**

| S. N. | Board of Study | Course Code | Course Titles | Scheme of Examination | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Theory | | | Practical (PRA+PDA+Viva) | | Total Marks |
| | | | | ESE | CT | TA | ESE | TA | |
| 1 | E&TC Engineering | 2028471 (028) | Microcontroller and its Application | 70 | 20 | 30 | - | - | 120 |
| 2 | Instrumentation Engineering | 2034472 (034) | Analog Circuits & Application | 70 | 20 | 30 | - | - | 120 |
| 3 | Instrumentation Engineering | 2034473 (034) | Analytical Instrumentation | 70 | 20 | 30 | - | - | 120 |
| 4 | Instrumentation Engineering | 2034474 (034) | Basic Control System | 70 | 20 | 30 | - | - | 120 |
| 5 | Instrumentation Engineering | 2034475 (034) | Bio Medical Instrumentation | 70 | 20 | 30 | - | - | 120 |
| 6 | E&TC Engineering | 2028461 (028) | Microcontroller and its Application (Lab) | - | - | - | 30 | 50 | 80 |
| 7 | Instrumentation Engineering | 2034462 (034) | Analog Circuits & Application (Lab) | - | - | - | 30 | 50 | 80 |
| 8 | Instrumentation Engineering | 2034463 (034) | Analytical Instrumentation (Lab) | - | - | - | 30 | 50 | 80 |
| 9 | Instrumentation Engineering | 2034464 (034) | Basic Control System (Lab) | - | - | - | 30 | 50 | 80 |
| 10 | Instrumentation Engineering | 2034465 (034) | Instrumentation Engineering Drawing (Lab) | - | - | - | 30 | 50 | 80 |
| 11 | - | - | Indian Constitution (Non Credit Subject) | - | - | - | - | - | - |
| **Total** | | | | **350** | **100** | **150** | **150** | **250** | **1000** |

**ESE:** End of semester exam **CT:** Class Test **TA:** Teachers Assessment
**PRA:** Process Assessment, **PDA:** Product Assessment

**Note:** i. TA in Theory includes Sessional work (SW) and Attndance (ATT), with weightage of 70% and 30 % weightage of total respectively

ii. TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10 % weightage of total respectively.

iii. 85 % attendance is essential in theory & practical classes to appear in examination.

**Note: Summer Internship (Industrial Training) of 4 weeks will be carried out in summer vacation after completion of 4th sem and evaluation will be done in 5th sem.**

# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Instrumentation Engineering

## Semester – 5th Sem

**Scheme of Studies:** **Session-2020**

| S.N | Board of Study | Course Code | Course Titles | Scheme of Studies (Hours/Week) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | L | P | T | *SL | Credit L+T+(P/2) |
| 1 | Instrumentation Engineering | 2034572 (034) | Principles of Data Communication & Networking | 3 | - | 1 | 2 | 4 |
| 2 | Electrical Engineering | 2024571 (024) | **Power Electronics** | 3 | - | 1 | 2 | 4 |
| 3 | E & TC Engineering | 2034573 (028) | Optical Fiber Communications | 3 | - | 1 | 2 | 4 |
| 4 | Instrumentation Engineering | 2034574 (034) | Industrial Safety Equipment and Instrument | 3 | - | 1 | 2 | 4 |
| 5 | Instrumentation Engineering | 2034562 (034) | Principles of Data Communication & Networking (Lab) | - | 2 | - | 1 | 1 |
| 6 | Electrical Engineering | 2034561 (024) | **Power Electronics (Lab)** | - | 2 | - | 1 | 1 |
| 7 | E & TC Engineering | 2034563 (028) | Optical Fiber Communications (Lab) | - | 2 | - | 1 | 1 |
| 8 | Instrumentation Engineering | 2034564 (034) | Industrial Training (Lab) | - | 2 | - | - | 1 |
| 9 | Humanities | -- | Library | - | - | - | 1 | - |
| **Total** | | | | **12** | **08** | **04** | **12** | **20** |
| | | | | **36 Hrs** | | | | |

**L**- Lecture, **T**- Tutorial, **P**- Practical,

Lecture (L)→ CL Classroom Instruction (Includes different instructional Strategies i.e. Lecture and others).

Practical (P)→ LI Laboratory Instruction (Includes practical performances in Laboratory workshop, field or other locations using different instructional strategies).

Tutorial (T)→ Includes sessional work (SW) (assignment, seminar, mini project etc), Self Learning (SL) .

**Note: *SL : Leftover periods/week shall be utilized for self learning purpose to make up 36 periods/week.**

# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Instrumentation Engineering

## Semester – 5th Sem

**Scheme of Examination:** **Session-2020**

| S. No | Board of Study | Course Code | Course Titles | Scheme of Examination | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Theory | | | Practical (PRA+PDA+Viva) | | Total Marks |
| | | | | ESE | CT | TA | ESE | TA | |
| 1 | Instrumentation Engineering | 2034572 (034) | Principles of Data Communication & Networking | 70 | 20 | 30 | - | - | 120 |
| 2 | Electrical Engineering | 2024571 (024) | **Power Electronics** | **70** | **20** | **30** | **-** | **-** | **120** |
| 3 | E & TC Engineering | 2034573 (028) | Optical Fiber Communications | 70 | 20 | 30 | - | - | 120 |
| 4 | Instrumentation Engineering | 2034574 (034) | Industrial Safety Equipment and Instrument | 70 | 20 | 30 | - | - | 120 |
| 5 | Instrumentation Engineering | 2034562 (034) | Principles of Data Communication & Networking (Lab) | - | - | - | 50 | 70 | 120 |
| 6 | Electrical Engineering | 2034561 (024) | **Power Electronics (Lab)** | **-** | **-** | **-** | **40** | **50** | **90** |
| 7 | E & TC Engineering | 2034563 (028) | Optical Fiber Communications (Lab) | - | - | - | 50 | 70 | 120 |
| 8 | Instrumentation Engineering | 2034564 (034) | Industrial Training (Lab) | - | - | - | 90 | 100 | 190 |
| 9 | Humanities | -- | Library | - | - | - | - | - | - |
| **Total** | | | | **280** | **80** | **120** | **230** | **290** | **1000** |

**ESE:** End of semester exam **CT:** Class Test **TA:** Teachers Assessment

**PRA:** Process Assessment, **PDA:** Product Assessment

**Note:** i. TA in Theory includes Sessional work (SW) and Attendance (ATT), with weightage of 70% and 30 % weightage of total respectively.

ii. TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10 % weightage of total respectively.

iii. 85 % attendance is essential in theory & practical classes to appear in examination.

# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Instrumentation Engineering

## Semester – 6th Sem

**Session-2020**

**Scheme of Studies :**

| S.No. | Board of Study | Course Code | Course Titles | Scheme of Studies (Hours/Week) | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | **L** | **P** | **T** | ***SL** | **Credit L+T+(P/2)** |
| 1 | Instrumentation Engineering | 2034671 (034) | Process Instrumentation | 3 | - | 1 | 2 | 4 |
| 2 | Instrumentation Engineering | 2034672 (034) | Distributed Control Systems | 3 | - | 1 | 2 | 4 |
| 3 | Mechanical Engineering | 2000673 (037) | Entrepreneurship Development and Management | 2 | - | 1 | 1 | 3 |
| 4 | Electrical Engineering | 2034674 (024) | Wind, Solar and Hydro Power Technologies | 2 | - | 1 | 1 | 3 |
| 5 | Instrumentation Engineering | 2034661 (034) | Process Instrumentation (Lab) | - | 2 | - | - | 1 |
| 6 | Instrumentation Engineering | 2034662 (034) | Distributed Control Systems (Lab) | - | 2 | - | - | 1 |
| 7 | **E&TC Engineering** | 2034663 (028) | **Electronics Simulation (Lab)** | **-** | **4** | **-** | **2** | **2** |
| 8 | Instrumentation Engineering | 2034664 (034) | Major Project | - | 4 | - | 2 | 2 |
| 9 | Instrumentation Engineering | -- | Library | - | - | - | | - |
| **Total** | | | | **10** | **12** | **04** | **10** | **20** |
| | | | | **36 Hrs** | | | | |

**L**- Lecture, **T**- Tutorial, **P**- Practical,

Lecture (L)→ CL Classroom Instruction (Includes different instructional Strategies i.e Lecture and others.)

Practical (P)→LI Laboratory Instruction (Includes practical performances in Laboratory workshop, field or other locations using different instructional strategies).

Tutorial (T)→ Includes sessional work (SW) (assignment, seminar, mini project etc), Self Learning (SL)

**Note: *SL : Leftover periods/week shall be utilized for self learning purpose to make up 36 periods/week.**

# Chhattisgarh Swami Vivekanand Technical University, Bhilai

## Diploma in Instrumentation Engineering

## Semester – 6th Sem

**Scheme of Examination :** **Session-2020**

| S. No | Board of Study | Course Code | Course Titles | Scheme of Examination | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | Theory | | | Practical (PRA+PDA+Viva) | | Total Marks |
| | | | | ESE | CT | TA | ESE | TA | |
| 1 | Instrumentation Engineering | 2034671 (034) | Process Instrumentation | 70 | 20 | 30 | - | - | 120 |
| 2 | Instrumentation Engineering | 2034672 (034) | Distributed Control Systems | 70 | 20 | 30 | - | - | 120 |
| 3 | Mechanical Engineering | 2000673 (037) | Entrepreneurship Development and Management | 70 | 20 | 30 | - | - | 120 |
| 4 | Electrical Engineering | 2034674 (024) | Wind, Solar and Hydro Power Technologies | 70 | 20 | 30 | - | - | 120 |
| 5 | Instrumentation Engineering | 2034661 (034) | Process Instrumentation (Lab) | - | - | - | 50 | 70 | 120 |
| 6 | Instrumentation Engineering | 2034662 (034) | Distributed Control Systems (Lab) | - | - | - | 50 | 70 | 120 |
| 7 | **E&TC Engineering** | 2034663 (028) | **Electronics Simulation (Lab)** | - | - | - | **30** | **50** | **80** |
| 8 | Instrumentation Engineering | 2034664 (034) | Major Project | - | - | - | 100 | 100 | 200 |
| 9 | Instrumentation Engineering | -- | Library | - | - | - | - | - | - |
| **Total** | | | | **280** | **80** | **120** | **230** | **290** | **1000** |

**ESE:** End of semester exam **CT:** Class Test **TA:** Teachers Assessment

**PRA:** Process Assessment, **PDA:** Product Assessment

**Note:** i. TA in Theory includes Sessional work (SW) and Attendance (ATT), with weightage of 70% and 30 % weightage of total respectively.

ii. TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10 % weightage of total respectively.

iii. 85 % attendance is essential in theory & practical classes to appear in examination.