



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Part Time Diploma Programme in Instrumentation Engineering

Semester – I

Scheme of Studies:

S.No.	Board of Studies (BoS)	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	T	P	Credit L+T+(P/2)
1	Humanities	0000171(046)	Communication Skill-I	2	1	-	3
2	Applied Science	0000172(014)	Applied Maths-I	2	1	-	3
3	Applied Science	0000173(011)	Applied Chemistry	2	1	-	3
4	Computer Science and Engineering	0000174(022)	Computer Fundamentals & Applications	2	-	-	2
5	Applied Science	0000191(011)	Applied Chemistry (Lab)	-	-	2	1
6	Computer Science and Engineering	0000192(022)	Computer Fundamentals & Applications (Lab)	-	-	4	2
7	Electronics & Tele. Engineering	0000194(028)	Electronics Workshop Practice	-	-	2	1
8	Humanities	0000195(046)	Seminar & Technical Presentation (Listening, Reading & Speaking) Skills	-	-	2	1
Total				08	03	10	16

L-Lecture,

T-Tutorial,

P-Practical

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:- Syllabus of subject in Part Time Diploma course will be same as the syllabus of subject in regular Diploma course with same subject name but different subject code.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Part Time Diploma Programme in Instrumentation Engineering

Semester – I

Scheme of Examination:

S.No.	Board of Studies (BoS)	Course Code	Course Titles	Scheme of Examination					Total Marks
				Theory			Practical		
				ESE	CT	TA	ESE	TA	
1	Humanities	0000171(046)	Communication Skill-I	70	20	30	-	-	120
2	Applied Science	0000172(014)	Applied Maths-I	70	20	30	-	-	120
3	Applied Science	0000173(011)	Applied Chemistry	70	20	30	-	-	120
4	Computer Science and Engineering	0000174(022)	Computer Fundamentals & Applications	70	20	30	-	-	120
5	Applied Science	0000191(011)	Applied Chemistry (Lab)	-	-	-	30	50	80
6	Computer Science and Engineering	0000192(022)	Computer Fundamentals & Applications (Lab)	-	-	-	30	50	80
7	Electronics & Telecommunication Engineering	0000194(028)	Electronics Workshop Practice (Lab)	-	-	-	30	70	100
8	Humanities	0000195(046)	Seminar & Technical Presentation (Listening, Reading & Speaking) Skills	-	-	-	-	60	60
Total				280	80	120	90	230	800

ESE : End Semester Exam,

CT: Class Test,

TA: Teachers Assessment

- Note: i) TA in Theory includes Sessional work (SW) and Attendance (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.

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



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Part Time Diploma Programme in Instrumentation Engineering

Semester – II

Scheme of Studies:

S.No.	Board of Studies (BoS)	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	T	P	Credit L+T+(P/2)
1	Humanities	0000271(046)	Communication Skill-II	2	1	-	3
2	Applied Science	0000272(014)	Applied Maths-II	2	1	-	3
3	Applied Science	0000273(015)	Applied Physics	2	1	-	3
4	Electronics & Telecommunication Engineering	0000275(028)	Basic Electronics Engineering	2	1	-	3
5	Applied Science	0000290(015)	Applied Physics (Lab)	-	-	2	1
6	Electronics & Telecommunication Engineering	0000292(028)	Basic Electronics Engineering (Lab)	-	-	4	2
7	Humanities	0000293(046)	Seminar & Technical Presentation (Personality Development & Leadership) Skills	-	-	2	1
Total				08	04	08	16

L-Lecture,

T-Tutorial,

P-Practical

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:- Syllabus of subject in Part Time Diploma course will be same as the syllabus of subject in regular Diploma course with same subject name but different subject code.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Part Time Diploma Programme in Instrumentation Engineering

Semester – II

Scheme of Examination:

S.No.	Board of Studies (BoS)	Course Code	Course Titles	Scheme of Examination					Total Marks
				Theory			Practical		
				ESE	CT	TA	ESE	TA	
1	Humanities	0000271(046)	Communication Skill-II	70	20	30	-	-	120
2	Applied Science	0000272(014)	Applied Maths-II	70	20	30	-	-	120
3	Applied Science	0000273(015)	Applied Physics	70	20	30	-	-	120
4	Electronics & Telecommunication Engineering	0000275(028)	Basic Electronics Engineering	70	50	50	-	-	170
5	Applied Science	0000290(015)	Applied Physics (Lab)	-	-	-	30	50	80
6	Electronics & Telecommunication Engineering	0000292(028)	Basic Electronics Engineering (Lab)	-	-	-	30	70	100
8	Humanities	0000293(046)	Seminar & Technical Presentation (Personality Development & Leadership) Skills	-	-	-	-	70	70
Total				280	110	140	60	190	780

ESE : End Semester Exam,

CT: Class Test,

TA: Teachers Assessment

- Note: i) TA in Theory includes Sessional work (SW) and Attendance (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.

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



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Part Time Diploma Programme in Instrumentation Engineering

Semester – III

Scheme of Studies:

S.No.	Board of Studies (BoS)	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	T	P	Credit L+T+(P/2)
1	Electrical Engineering	0034371(024)	Fundamental of Electrical Machines	2	1	-	3
2	Civil Engineering	0000373(020)	Environmental Engineering & Sustainable Development	2	1	-	3
3	E & TC Engineering	0034372(028)	Digital Electronics	2	1	-	3
4	Electrical Engineering	0034374(024)	Basic Electrical and Network Theory	2	1	-	3
5	Electrical Engineering	0034390(024)	Fundamental of Electrical Machines (Lab)	-	-	2	1
6	E & TC Engineering	0034391(028)	Digital Electronics (Lab)	-	-	2	1
7	Electrical Engineering	0034392(024)	Basic Electrical and Network Theory (Lab)	-	-	2	1
Total				08	04	06	15

L-Lecture,

T-Tutorial,

P-Practical

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).

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Chhattisgarh Swami Vivekanand Technical University, Bhilai

Part Time Diploma Programme in Instrumentation Engineering Semester – III

Scheme of Examination:

S.No.	Board of Studies (BoS)	Course Code	Course	Scheme of Examination					Total Marks
				Theory			Practical		
				ESE	CT	TA	ESE	TA	
1	Electrical Engineering	0034371(024)	Fundamental of Electrical Machines	70	20	30	-	-	120
2	Civil Engineering	0000373(020)	Environmental Engineering & Sustainable Development	70	50	30	-	-	150
3	E & TC Engineering	0034372(028)	Digital Electronics	70	20	30	-	-	120
4	Electrical Engineering	0034374(024)	Basic Electrical and Network Theory	70	20	30	-	-	120
5	Electrical Engineering	0034390(024)	Fundamental of Electrical Machines (Lab)	-	-	-	30	50	80
6	E & TC Engineering	0034391(028)	Digital Electronics (Lab)	-	-	-	30	50	80
7	Electrical Engineering	0034392(024)	Basic Electrical and Network Theory (Lab)	-	-	-	30	50	80
Total				280	110	120	90	150	750

ESE : End Semester Exam,

CT: Class Test,

TA: Teachers Assessment

- Note: i) TA in Theory includes Sessional work (SW) and Attendance (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.
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Chhattisgarh Swami Vivekanand Technical University, Bhilai

Part Time Diploma Programme in Instrumentation Engineering

Semester – IV

Scheme of Studies:

S.No.	Board of Studies (BoS)	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	T	P	Credit L+T+(P/2)
1	E & TC Engineering	0034471(028)	Microcontroller and Its Application	3	-	-	3
2	Instrumentation Engineering	0034473(034)	Industrial Instrumentation and Sensors	2	1	-	3
3	Electrical Engineering	0024472(024)	Electrical and Electronics Measurements	2	1	-	3
4	Computer Science and Engineering	0034474(022)	Programming in 'C'	2	1	-	3
5	E & TC Engineering	0034490(028)	Microcontroller and Its Application (Lab)	-	-	2	1
6	Instrumentation Engineering	0034491(034)	Industrial Instrumentation and Sensors (Lab)	-	-	2	1
7	Electrical Engineering	0034492(024)	Electrical and Electronics Measurements (Lab)	-	-	2	1
8	Computer Science and Engineering	0034493(022)	Programming in 'C' (Lab)	-	-	4	2
Total				09	03	10	17

L-Lecture,

T-Tutorial,

P-Practical

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).

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Chhattisgarh Swami Vivekanand Technical University, Bhilai

Part Time Diploma Programme in Instrumentation Engineering

Semester – IV

Scheme of Examination:

S.No.	Board of Studies (BoS)	Course Code	Course Titles	Scheme of Examination					Total Marks
				Theory			Practical		
				ESE	CT	TA	ESE	TA	
1	E & TC Engineering	0034471(028)	Microcontroller and Its Application	70	20	30	-	-	120
2	Instrumentation Engineering	0034473(034)	Industrial Instrumentation and Sensors	70	20	30	-	-	120
3	Electrical Engineering	0024472(024)	Electrical and Electronics Measurements	70	20	30	-	-	120
4	Computer Science and Engineering	0034474(022)	Programming in 'C'	70	50	50	-	-	170
5	E & TC Engineering	0034490(028)	Microcontroller and Its Application (Lab)	-	-	-	30	50	80
6	Instrumentation Engineering	0034491(034)	Industrial Instrumentation and Sensors (Lab)	-	-	-	30	50	80
7	Electrical Engineering	0034492(024)	Electrical and Electronics Measurements (Lab)	-	-	-	30	50	80
8	Computer Science and Engineering	0034493(022)	Programming in 'C' (Lab)	-	-	-	30	70	100
Total				280	110	140	120	220	870

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CT: Class Test,

TA: Teachers Assessment

- Note: i) TA in Theory includes Sessional work (SW) and Attendance (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.

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Chhattisgarh Swami Vivekanand Technical University, Bhilai

Part Time Diploma Programme in Instrumentation Engineering Semester – V

Scheme of Studies:

S.No.	Board of Studies (BoS)	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	T	P	Credit L+T+(P/2)
1	Instrumentation Engg.	0034571 (034)	Analog Circuits & Application	2	-	1	3
2	Instrumentation Engg.	0034572 (034)	Analytical Instrumentation	2	-	1	3
3	Instrumentation Engg.	0034573 (034)	Basic Control System	2	-	1	3
4	Instrumentation Engg.	0034574 (034)	Bio Medical Instrumentation	2	-	1	3
5	Instrumentation Engg.	0034591 (034)	Analog Circuits & Application (Lab)	-	2	-	1
6	Instrumentation Engg.	0034592 (034)	Analytical Instrumentation (Lab)	-	2	-	1
7	Instrumentation Engg.	0034593 (034)	Basic Control System (Lab)	-	2	-	1
8	Humanities	-	Indian Constitution (Non Credit Subject)	-	2	-	-
9	Humanities	-	Library & Self Learning	-	4	-	-
Total				08	12	04	15

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T-Tutorial,

P-Practical

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

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Chhattisgarh Swami Vivekanand Technical University, Bhilai

Part Time Diploma Programme in Instrumentation Engineering Semester – V

Scheme of Examination:

S.No.	Board of Studies (BoS)	Course Code	Course Titles	Scheme of Examination					Total Marks
				Theory			Practical		
				ESE	CT	TA	ESE	TA	
1	Instrumentation Engg.	0034571(034)	Analog Circuits & Application	70	20	30	-	-	120
2	Instrumentation Engg.	0034572(034)	Analytical Instrumentation	70	20	30	-	-	120
3	Instrumentation Engg.	0034573(034)	Basic Control System	70	20	30	-	-	120
4	Instrumentation Engg.	0034574(034)	Bio Medical Instrumentation	70	20	30	-	-	120
5	Instrumentation Engg.	0034591(034)	Analog Circuits & Application (Lab)	-	-	-	30	50	80
6	Instrumentation Engg.	0034592(034)	Analytical Instrumentation (Lab)	-	-	-	30	50	80
7	Instrumentation Engg.	0034593(034)	Basic Control System (Lab)	-	-	-	30	50	80
8	Humanities	-	Indian Constitution (Non Credit Subject)	-	-	-	-	-	-
9	Humanities	-	Library & Self Learning	-	-	-	-	-	-
Total				280	80	120	90	150	720

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CT: Class Test,

TA: Teachers Assessment

- Note: i) TA in Theory includes Sessional work (SW) and Attendance (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.
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Chhattisgarh Swami Vivekanand Technical University, Bhilai

Part Time Diploma Programme in Instrumentation Engineering Semester – VI

Scheme of Studies:

S.No.	Board of Studies (BoS)	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	T	P	Credit L+T+(P/2)
1	Instrumentation Engineering	0034671(034)	Principles of Data Communication & Networking	3	1	-	4
2	Electrical Engineering	0024673(024)	Power Electronics	3	1	-	4
3	Instrumentation Engineering	0034672(034)	Industrial Safety Equipment and Instrument	3	1	-	4
4	Instrumentation Engineering	0034691(034)	Principles of Data Communication & Networking (Lab)	-	-	2	1
5	Electrical Engineering	0034692(024)	Power Electronics (Lab)	-	-	2	1
6	Instrumentation Engineering	0034693(034)	Instrumentation Engineering Drawing (Lab)	-	-	2	1
7	Humanities	-	Library & Self Learning	-	-	6	-
Total				09	03	12	15
				24			

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T-Tutorial,

P-Practical

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

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Part Time Diploma Programme in Instrumentation Engineering Semester – VI

Scheme of Examination:

S.No.	Board of Studies (BoS)	Course Code	Course Titles	Scheme of Examination					Total Marks
				Theory			Practical (PRA+PDA+Viva)		
				ESE	CT	TA	ESE	TA	
1	Instrumentation Engineering	0034671(034)	Principles of Data Communication & Networking	70	20	30	-	-	120
2	Electrical Engineering	0024673(024)	Power Electronics	70	20	30	-	-	120
3	Instrumentation Engineering	0034672(034)	Industrial Safety Equipment and Instrument	70	20	30	-	-	120
4	Instrumentation Engineering	0034691(034)	Principles of Data Communication & Networking (lab)	-	-	-	50	70	120
5	Electrical Engineering	0034692(024)	Power Electronics (Lab)	-	-	-	40	50	90
6	Instrumentation Engineering	0034693(034)	Instrumentation Engineering Drawing (Lab)	-	-	-	30	50	80
7	Humanities	-	Library & Self Learning	-	-	-	-	-	-
Total				210	60	90	120	170	650

ESE : End Semester Exam,

CT: Class Test,

TA: Teachers Assessment

- Note:-**
- TA in Theory includes Sessional work (SW) and Attendance (ATT), with weightage of 70% and 30% weightage of total respectively
 - TA in Practical includes performance of PRA, PDA and Viva-Voce with weightage of 50%, 40% and 10% weightage of total respectively.
 - 85 % attendance is essential in theory & practical classes to appear in examination.

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