



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.



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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).

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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.
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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

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T-Tutorial,

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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 – 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

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CT: Class Test,

TA: Teachers Assessment

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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

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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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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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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

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