



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Instrumentation Engineering

Semester – 3rd Sem

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	2034351 (034)	Industrial Instrumentation and Sensors	2	-	1	3
2	E & TC Engineering	2028354 (028)	Digital Electronics	2	-	1	3
3	Electrical Engineering	2024352 (024)	Electrical and Electronics Measurements	2	-	1	3
4	Electrical Engineering	2034353 (024)	Fundamental of Electrical Machines	2	-	1	3
5	Electrical Engineering	2034355 (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 :

S. No	Board of Study	Course Code	Course Titles	Scheme of Examination					Total Marks
				Theory			Practical (PRA+PDA+Viva)		
				ESE	CT	TA	ESE	TA	
1	Instrumentation Engineering	2034351 (034)	Industrial Instrumentation and Sensors	70	20	30	-	-	120
2	E & TC Engineering	2028354 (028)	Digital Electronics	70	20	30	-	-	120
3	Electrical Engineering	2024352 (024)	Electrical and Electronics Measurements	70	20	30	-	-	120
4	Electrical Engineering	2034353 (024)	Fundamental of Electrical Machines	70	20	30	-	-	120
5	Electrical Engineering	2034355 (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				500	100	150	160	90	1000

ESE: End of semester exam

CT: Class Test

TA: Teachers Assessment

PRA: Process Assessment,

PDA: Product 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.



Chhattisgarh Swami Vivekanand Technical University, Bhilai

Diploma in Instrumentation Engineering

Semester – 4th Sem

Scheme of Studies :

S. N.	Board of Study	Course Code	Course Titles	Scheme of Studies (Hours/Week)			
				L	P	T	Credit L+T+(P/2)
1	Instrumentation Engineering	2000451 (034)	Principles of Data Communication & Networking	2	-	1	3
2	Instrumentation Engineering	2000452 (034)	Analog Circuits & Application	2	-	1	3
3	Instrumentation Engineering	2000453 (034)	Analytical Instrumentation	2	-	1	3
4	Instrumentation Engineering	2000454 (034)	Basic Control System	2	-	1	3
5	Instrumentation Engineering	2000455 (034)	Bio Medical Instrumentation	2		1	3
6	Instrumentation Engineering	2000461 (034)	Principles of Data Communication & Networking (Lab)	-	2	-	1
7	Instrumentation Engineering	2000462 (034)	Analog Circuits & Application (Lab)	-	2	-	1
8	Instrumentation Engineering	2000463 (034)	Analytical Instrumentation (Lab)	-	2	-	1
9	Instrumentation Engineering	2000464 (034)	Basic Control System (Lab)	-	2	-	1
10	Instrumentation Engineering	2000465 (034)	Instrumentation Engineering Drawing (Lab)	-	2	-	1
11	-	-	Indian Constitution (Non Credit Subject)	-	2	-	0
12	-	-	Library		2		
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)

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

Scheme of Examination :

S. N.	Board of Study	Course Code	Course Titles	Scheme of Examination					Total Marks
				Theory			Practical (PRA+PDA+Viva)		
				ESE	CT	TA	ESE	TA	
1	Instrumentation Engineering	2000451 (034)	Principles of Data Communication & Networking	70	20	30	-	-	120
2	Instrumentation Engineering	2000452 (034)	Analog Circuits & Application	70	20	30	-	-	120
3	Instrumentation Engineering	2000453 (034)	Analytical Instrumentation	70	20	30	-	-	120
4	Instrumentation Engineering	2000454 (034)	Basic Control System	70	20	30	-	-	120
5	Instrumentation Engineering	2000455 (034)	Bio Medical Instrumentation	70	20	30	-	-	120
6	Instrumentation Engineering	2000461 (034)	Principles of Data Communication & Networking (Lab)	-	-	-	30	50	80
7	Instrumentation Engineering	2000462 (034)	Analog Circuits & Application (Lab)	-	-	-	30	50	80
8	Instrumentation Engineering	2000463 (034)	Analytical Instrumentation (Lab)	-	-	-	30	50	80
9	Instrumentation Engineering	2000464 (034)	Basic Control System (Lab)	-	-	-	30	50	80
10	Instrumentation Engineering	2000465 (034)	Instrumentation Engineering Drawing (Lab)	-	-	-	30	50	80
11	-	-	Indian Constitution (Non Credit Subject)	-	-	-	-	-	-
Total				500	100	150	160	90	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.

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.