



# Chhattisgarh Swami Vivekanand Technical University (CSVTU), Bhilai (CG)

## Scheme of Teaching and Examination

Courses of Study and Scheme of Examination of Diploma in Vocation (D.Voc.) in Refrigeration and Air conditioning (2019-20)

### Level 3 Semester-I

S. No.	Board of Studies (BoS)	Subject Code	Subject	Period per Week			Scheme of Examination	Total Marks	Credit
				L	T	P	ESE		
1.	Humanities	9106311(046)	Language	4	1	-	50	50	3
2.	Basic Sciences	9106312(014)	Applied Chemistry	4	1	-	50	50	3
3.	Basic Sciences	9106313(014)	Applied Physics	4	1	-	50	50	3
4.	Basic Sciences	9106314(014)	Applied Mathematics-I	4	1	-	50	50	3
5.	Basic Sciences	9106321(014)	Applied Chemistry (Lab)	-	-	3	50	50	1.5
6.	Basic Sciences	9106322(014)	Applied Physics (Lab)	-	-	3	50	50	1.5
<b>On-Job-Training (OJT)/Qualification Packs</b>									
1.	Mechanical Engineering	9106331(037)	Operator- Conventional Training	-	-	-	<b>Any One</b>	200	15
2.	Mechanical Engineering	9106332(037)	Fitter-Fabrication	-	-	-			
3.	Mechanical Engineering	9106333(037)	Assistant MMAW/SSAW Welder	-	-	-			

L-Lecture, T-Tutorial, P-Practical, ESE-End Semester Exam



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### Level 3 Semester-II

S. No.	Board of Studies(BoS)	Subject Code	Subject	Period per Week			Scheme of Examination	Total Marks	Credit
				L	T	P	ESE		
1.	Basic Science	9106351(014)	General Foundation Course	4	1	-	50	50	3
2.	Electrical Engineering	9106352(024)	Basic Electricity	4	1	-	50	50	3
3.	Electronics & Telecommunication Engineering	9106353(028)	Basic Electronics	4	1	-	50	50	3
4.	Basic Science	9106354(014)	Applied Mathematics-II	4	1	-	50	50	3
5.	Electrical Engineering	9106361(024)	Basic Electricity (Lab)	-	-	3	50	50	1.5
6.	Electronics & Telecommunication Engineering	9106362(028)	Basic Electronics (Lab)	-	-	3	50	50	1.5
<b>On-Job-Training (OJT)/Qualification Packs</b>									
1.	Mechanical Engineering	----	One more QP to be opted from the QPs mentioned in Semester-I	-	-	-	Any one	200	15

L-Lecture, T-Tutorial, P-Practical, ESE-End Semester Exam



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### Level 4 Semester-III

S. No.	Board of Studies (BoS)	Subject Code	Subject	Periods per week			Scheme of Examination	Total Marks	Credit
				L	T	P			
1.	Mechanical Engineering	9106411 (037)	Engineering Science	4	1	-	ESE 50	50	3
2.	Mechanical Engineering	9106412 (037)	Manufacturing Technology	4	1	-	50	50	3
3.	Mechanical Engineering	9106413 (037)	Basics of Applied Thermodynamics	4	1	-	50	50	3
4.	Electrical Engineering	9106414 (024)	Electrical Machines	4	1	-	50	50	3
5.	Mechanical Engineering	9106421 (037)	Engineering Science (Lab)	-	-	3	50	50	1.5
6.	Mechanical Engineering	9106422 (037)	Production Practice (Lab)	-	-	3	50	50	1.5
<b>On-Job-Training (OJT)/Qualification Packs</b>									
1.	Mechanical Engineering	9106431(037)	Fitter – Mechanical Assembly	-	-	-	<b>Any one</b>	200	15
2.	Mechanical Engineering	9106432(037)	Manual Soldering Technician	-	-	-			
3.	Mechanical Engineering	9106433(037)	Draftsman Mechanical	-	-	-			

L-Lecture, T-Tutorial, P-Practical, ESE-End Semester Exam



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## Scheme of Teaching and Examination

Courses of Study and Scheme of Examination of Diploma in Vocation (D.Voc.) in Refrigeration and Air conditioning (2019-20)

### Level 4 Semester-IV

S. No.	Board of Studies (BoS)	Subject Code	Subject	Periods per week			Scheme of Examination	Total Marks	Credit
				L	T	P			
1.	Mechanical Engineering	9106451(037)	Basics of Refrigeration	4	1	-	ESE 50	50	3
2.	Mechanical Engineering	9106452(037)	Basics of Air Conditioning	4	1	-	50	50	3
3.	Mechanical Engineering	9106453(037)	Engineering Materials	4	1	-	50	50	3
4.	Mechanical Engineering	9106454(037)	Basics of Heat Transfer	4	1	-	50	50	3
5.	Mechanical Engineering	9106461(037)	Metrology and Measuring Instruments (Lab)	-	-	3	50	50	1.5
6.	Mechanical Engineering	9106462(037)	Heat Transfer (Lab)	-	-	3	50	50	1.5
<b>On-Job-Training (OJT)/Qualification Packs</b>									
1.	Mechanical Engineering	----	One more QP to be opted from the QPs mentioned in Semester - III	-	-	-	Any one	200	15

L-Lecture, T-Tutorial, P-Practical, ESE-End Semester Exam



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## Scheme of Teaching and Examination

Courses of Study and Scheme of Examination of Diploma in Vocation (D.Voc.) in Refrigeration and Air conditioning (2019-20)

### Level 5 Semester-V

S. No.	Board of Studies (BoS)	Subject Code	Subject	Periods per week			Scheme of Examination	Total Marks	Credit
				L	T	P	ESE		
1.	Mechanical Engineering	9106511(037)	Refrigeration & Air Conditioning Applications	4	1	-	50	50	3
2.	Mechanical Engineering	9106512(037)	Refrigeration & Air-conditioning Materials	4	1	-	50	50	3
3.	Mechanical Engineering	9106513(037)	Refrigerants	4	1	-	50	50	3
4.	Mechanical Engineering	9106514(037)	RAC Piping Systems	4	1	-	50	50	3
5.	Mechanical Engineering	9106521(037)	RAC Piping Systems (Lab)	-	-	3	50	50	1.5
6.	Mechanical Engineering	9106522(037)	RAC Material (Lab)	-	-	3	50	50	1.5
<b>On-Job-Training (OJT)/Qualification Packs</b>									
1.	Mechanical Engineering	9106531(037)	Field Technician-Refrigeration	-	-	-	<b>Any one</b>	200	15
2.	Mechanical Engineering	9106532(037)	Field Technician- AC	-	-	-			
3.	Mechanical Engineering	9106533(037)	Functional Tester - RAC	-	-	-			

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### Level 5 Semester-VI

S. No.	Board of Studies (BoS)	Subject Code	Subject	Periods per week			Scheme of Examination	Total Marks	Credit
				L	T	P	ESE		
1.	Mechanical Engineering	9106551(037)	RAC Standards	4	1	-	50	50	3
2.	Mechanical Engineering	9106552(037)	RAC Maintenance	4	1	-	50	50	3
3.	Mechanical Engineering	9106553(037)	RAC Installation Techniques	4	1	-	50	50	3
4.	Mechanical Engineering	9106554(037)	Automobile Air conditioning & Non-conventional Refrigerating System	4	1	-	50	50	3
5.	Mechanical Engineering	9106561(037)	RAC Systems Installation and Maintenance (Lab)	-	-	3	50	50	1.5
6.	Mechanical Engineering	9106562(037)	Project	-	-	3	50	50	1.5
<b>On-Job-Training (OJT)/Qualification Packs</b>									
1.	Mechanical Engineering	----	One more QP to be opted from the QPs mentioned in Semester-V	-	-	-	Any one	200	15

L-Lecture, T-Tutorial, P-Practical, ESE-End Semester Exam