

**GUJARAT TECHNOLOGICAL UNIVERSITY****Syllabus for Bachelor of Vocation (B.Voc), 4th Semester****Branch: Automobile Servicing****Subject Name: Automotive RAC Lab.****Subject Code: 1140105****With effective
from academic
year 2018-19**

Teaching Scheme			Credits	Examination Marks				Total Marks
L	P	OJT		Theory		Tutorial/ Practical		
			University exams (ESE)	Progressive Assessment (PA)	External Practical /viva Exam(ESE)	Internal evaluation Practical /viva Exam(PA)		
-	2	-	2	0	-	30	20	50

Course Content: Practical

Sr. No.	Content	Hours
1.	Test on vapor compression test rig.	4
2.	Test on air conditioning test rig.	4
3.	Study of various methods of transport refrigeration systems.	4
4.	Study and demonstration on car and bus air conditioning system.	4
5.	Study of latest trends in automotive refrigeration systems.	4
6.	Study and demonstration of controls in refrigeration.	4
7.	Study of different components with the help of cut sections/models/charts- Compressor, Condenser, Evaporators, Expansion device, Blower fans, Hating systems etc.	4
8.	Study of installation/operations/maintenance practices for refrigeration systems.	4
9.	Study of leak testing and leak detection methods.	4
10.	Visit to maintenance shop of automotive air conditioning and writing report on it.	6
	Total Hours	42