



**SURIGAO STATE COLLEGE OF TECHNOLOGY**  
 Surigao City  
**COLLEGE OF INDUSTRIAL TECHNOLOGY**  
**BACHELOR IN MECHANICAL ENGINEERING TECHNOLOGY with concentration in**  
**RAC TECHNOLOGY**

**(Ladderized Education Program)**

Name: \_\_\_\_\_

A.Y. \_\_\_\_\_

Address: \_\_\_\_\_

**FIRST YEAR**

FIRST SEMESTER						SECOND SEMESTER					
GRADE	SUBJECT	DESCRIPTION	Lect	Lab	Units	GRADE	SUBJECT	DESCRIPTION	Lect	Lab	Units
	RACT 101	RAC Basic Shop Practice	2	6	4		RACT 103	Basic RAC Control	2	9	5
	RACT 102	Refrigeration Principle	2	6	4		RACT 104	Mechanical Refrigeration	1	6	3
	English 101	Communication Arts I	3	0	3		English 102	Communication Arts II	3	0	3
	Filipino 101	Komunikasyon sa Akademikong Filipino	3	0	3		Filipino 102	Pagbasa at Pagsulat Tungo sa Pananaliksik	3	0	3
	Math 101	College Algebra	3	0	3		Drawing 102	Advanced Project Design w/ CAD	0	6	2
	Nat Sci 101	General Chemistry	3	3	4		Math 102	Plane and Spherical Trigonometry	3	0	3
	ICT 1	Information & Comm. Tech.	2	3	3		Philo 1	Logic and Work Ethics	3	0	3
	Drawing 101	Fund. of Tech'l Sketchng/Drwng/BPR	0	6	2		P.E. 102	Rythmic Activities	2	0	2
	P.E. 101	Physical Fitness	2	0	2		NSTP 2	National Service Training Program	3	0	3
	NSTP 1	National Service Training Program	3	0	3		TOTAL		20	21	27
		<b>TOTAL</b>	<b>23</b>	<b>24</b>	<b>31</b>						

**SECOND YEAR**

FIRST SEMESTER						SECOND SEMESTER					
GRADE	SUBJECT	DESCRIPTION	Lect	Lab	Units	GRADE	SUBJECT	DESCRIPTION	Lect	Lab	Units
	RACT 201	Fundamentals of Air-conditioning	1	6	3		RACT 203	Operation/Preventive Maintenance and Installation	3	9	6
	RACT 202	RAC Control & Instrumentation	2	9	5		RACT 204	Auto Air Conditioning	2	6	4
	Soc Sci 201	Gen. Psychology inclndng Pop Ed	3	0	3		English 202	Technical Writing incld Fund. Of Research	3	0	3
	Engl 201	Speech and Oral Communication	3	0	3		Soc.Sci 202	Principle of Economics with TLR and Cooperative	3	0	3
	Physics 201	Mechanics and Waves	3	3	4		History 1	Philippine History, Roots and Development	3	0	3
	Math 201	Probability and Statistics	3	0	3		Soc.Sci 203	Politics, Governance & Phil. Constitution	3	0	3
	Lit 1	Philippine Literature	3	0	3		Physics 202	Heat, Electricity and Magnetism	3	3	4
	Rizal	Life, Works and Writing	3	0	3		P.E. 202	Team Sports	2	0	2
	P.E. 201	Individual/Dual Sports	2	0	2		TOTAL		22	18	28
		<b>TOTAL</b>	<b>23</b>	<b>18</b>	<b>29</b>						
						TVET EXIT POINT Qualification: RAC Mobile/Transport Airconditioning NC II : PACU/CRE NC II					

**THIRD YEAR**

FIRST SEMESTER						SECOND SEMESTER					
	RACT 301	Commercial/Industrial Airconditioning	2	9	5		RACT 304	Cold Storage System	1	9	4
	RACT 303	Air Handling System	1	6	3		RACT 306	Ancillary Equipments	1	3	2
	Soc Sci 301	New Labor Code	3	0	3		RACT 307	Seminar and Field Trips	0	0	1
	Mgmt 2	Industrial Organization and					Mgmt 6	Personnel Administration &			

	Mgmt 3	Production Management	3	0	3
	Mgmt 4	Technopreneurship			
		Management	3	0	3
		TOTAL	19	21	26
TVET EXIT POINT: Qualifications: Ice Plant Refrigeration Servicing NC III					

	Mgmt 7	Quality Management	3	0	3
	Mgmt 8	Marketing Management	3	0	3
	Research 1	Research w/ Special Project	3	0	3
		TOTAL	18	15	24

**FOURTH YEAR**

**FIRST SEMESTER**

GRADE	SUBJECT	DESCRIPTION	No. of Hrs	Units
	RACT 401	ON THE JOB TRAINING	750	15
		TOTAL	750	15

**SECOND SEMESTER**

GRADE	SUBJECT	DESCRIPTION	No. of Hrs.	Units
	RACT 402	ON THE JOB TRAINING	750	15
		TOTAL	750	15