

**Course Structure of Diploma In Engineering Probidhan-2022 ( Mechanical Allied)**

**Name of Technology: RAC**

**RAC Technology(72)**

**1st Semester**

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	21011	Engineering Drawing	-	6	2	-	-	-	50	50	100	100
2	25711	Bangla-I	2	-	2	40	60	100	-	-	-	100
3	25712	English-I	2	-	2	40	60	100	-	-	-	100
4	25811	Social Science	2	-	2	40	60	100	-	-	-	100
5	25911	Mathematics -I	3	3	4	60	90	150	25	25	50	200
6	25912	Physics-I	3	3	4	60	90	150	25	25	50	200
7	27011	Basic Workshop Practice	-	3	1	-	-	-	25	25	50	50
8	27211	RAC Fundamental	2	3	3	40	60	100	25	25	50	150
<b>Total</b>			<b>14</b>	<b>18</b>	<b>20</b>	<b>280</b>	<b>420</b>	<b>700</b>	<b>150</b>	<b>150</b>	<b>300</b>	<b>1000</b>
<b>Total Period</b>					<b>32</b>							
<b>Theory:Practical (%)</b>			<b>43.8%</b>	<b>56.3%</b>								

**RAC Technology(72)**

**2nd Semester**

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	25721	Bangla -II	2	-	2	40	60	100	-	-	-	100
2	25722	English-II	2	-	2	40	60	100	-	-	-	100
3	25812	Physical Education & Life skills Development	-	3	1	-	-	-	25	25	50	50
4	25913	Chemistry	3	3	4	60	90	150	25	25	50	200
5	25921	Mathematics-II	3	3	4	60	90	150	25	25	50	200
6	26711	Basic Electricity	3	3	4	60	90	150	25	25	50	200
7	27021	Mechanical Engineering Drawing	1	6	3	20	30	50	50	50	100	150
8	27031	Mechanical Engineering Materials	2	-	2	40	60	100	-	-	-	100
<b>Total</b>			<b>16</b>	<b>18</b>	<b>22</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>150</b>	<b>150</b>	<b>300</b>	<b>1100</b>
<b>Total Period</b>					<b>34</b>							
<b>Theory:Practical (%)</b>			<b>47.1%</b>	<b>52.9%</b>								

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**3rd Semester**

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	25831	Business Communication	2	-	2	40	60	100	-	-	-	100
2	25922	Physics -II	3	3	4	60	90	150	25	25	50	200
3	25931	Mathematics-III	3	3	4	60	90	150	25	25	50	200
4	26211	Automobile Fundamentals	2	3	3	40	60	100	25	25	50	150
5	26811	Basic Electronics	2	3	3	40	60	100	25	25	50	150
6	27131	Engineering Thermodynamics	3	3	4	60	90	150	25	25	50	200
7	27231	RAC Cycles & Components	2	3	3	40	60	100	25	25	50	150
<b>Total</b>			<b>17</b>	<b>18</b>	<b>23</b>	<b>340</b>	<b>510</b>	<b>850</b>	<b>150</b>	<b>150</b>	<b>300</b>	<b>1150</b>
<b>Total Period</b>					<b>35</b>							
<b>Theory:Practical (%)</b>			<b>48.6%</b>	<b>51.4%</b>								

**RAC Technology(72)**

**4th Semester**

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	25841	Accounting	2	-	2	40	60	100	-	-	-	100
2	27012	Machine Shop Practice I	1	6	3	20	30	50	50	50	100	150
3	27041	Engineering Mechanics	2	3	3	40	60	100	25	25	50	150
4	27241	Circuits and Electrical Machine in RAC	2	3	3	40	60	100	25	25	50	150
5	27242	Transport RAC	2	3	3	40	60	100	25	25	50	150
6	29041	Environmental Studies	2	3	3	40	60	100	25	25	50	150
7	28511	Computer Office Application	-	6	2	-	-	-	50	50	100	100
<b>Total</b>			<b>11</b>	<b>24</b>	<b>19</b>	<b>220</b>	<b>330</b>	<b>550</b>	<b>200</b>	<b>200</b>	<b>400</b>	<b>950</b>
<b>Total Period</b>					<b>35</b>							
<b>Theory:Practical (%)</b>			<b>31.4%</b>	<b>68.6%</b>								

**Course Structure of Diploma In Engineering Probidhan-2022 ( Mechanical Allied)**

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**RAC Technology(72)**

**5th Semester**

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	25851	Principle of Marketing	2	-	2	40	60	100	-	-	-	100
2	27043	Metallurgy	2	3	3	40	60	100	25	25	50	150
3	27051	Fluid Mechanics & Machineries	3	3	4	60	90	150	25	25	50	200
4	27052	Mechanical Estimating & Costing	2	3	3	40	60	100	25	25	50	150
5	27251	Heating Ventilation & Air Conditioning (HVAC)	2	3	3	40	60	100	25	25	50	150
6	27252	Commercial & Industrial RAC	2	3	3	40	60	100	25	25	50	150
7	28567	Progammig in C	2	3	3	40	60	100	25	25	50	150
<b>Total</b>			<b>15</b>	<b>18</b>	<b>21</b>	<b>300</b>	<b>450</b>	<b>750</b>	<b>150</b>	<b>150</b>	<b>300</b>	<b>1050</b>
<b>Total Period</b>			<b>33</b>									
<b>Theory:Practical (%)</b>			<b>45.5%</b>	<b>54.5%</b>								

**RAC Technology(72)**

**6th Semester**

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	25852	Industrial Management	2	-	2	40	60	100	-	-	-	100
2	27055	Manufacturing Process	3	-	3	60	90	150	-	-	-	150
3	27061	Strength of Materials	3	3	4	60	90	150	25	25	50	200
4	27063	CAD & CAM	1	6	3	20	30	50	50	50	100	150
5	27065	Plant Engineering & Maintainance	2	3	3	40	60	100	25	25	50	150
6	27261	Cooling &Heating Load Calculation	3	3	4	60	90	150	25	25	50	200
7	27262	RAC Plant Installation Maintenance & Operation	2	3	3	40	60	100	25	25	50	150
<b>Total</b>			<b>16</b>	<b>18</b>	<b>22</b>	<b>320</b>	<b>480</b>	<b>800</b>	<b>150</b>	<b>150</b>	<b>300</b>	<b>1100</b>
<b>Total Period</b>			<b>34</b>									
<b>Theory:Practical (%)</b>			<b>47.1%</b>	<b>52.9%</b>								

**Course Structure of Diploma In Engineering Probidhan-2022 ( Mechanical Allied)**

**Name of Technology: RAC**

**RAC Technology(72)**

**7th Semester**

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	25853	Innovation & Entrepreneurship	2	-	2	40	60	100	-	-	-	100
2	27075	Production Planning & Control	3	-	3	60	90	150	-	-	-	150
3	27271	RAC System Analysis	2	3	3	40	60	100	25	25	50	150
4	27272	RAC Project	-	6	2	-	-	-	50	50	100	100
5	27273	Advance RAC	3	3	4	60	90	150	25	25	50	200
6	27274	RAC for Food Preservation	2	3	3	40	60	100	25	25	50	150
7	29231	Mechatronics & PLC	3	3	4	60	90	150	25	25	50	200
<b>Total</b>			<b>15</b>	<b>18</b>	<b>21</b>	<b>300</b>	<b>450</b>	<b>750</b>	<b>150</b>	<b>150</b>	<b>300</b>	<b>1050</b>
<b>Total Period</b>					<b>33</b>							
<b>Theory:Practical (%)</b>			<b>45.5%</b>	<b>54.5%</b>								

**RAC Technology(72)**

**8th Semester**

Sl. No.	Subject Code & Name		Period Per Week		Credit	Marks Distribution						
						Theory Assessment			Practical Assessment			Grand Total
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	
1	27081	Industrial Attachement	-	24	8	-	-	-	200	200	400	400
2		Project Presentation	-	12	4	-	-	-	100	100	200	200
<b>Total</b>			<b>-</b>	<b>36</b>	<b>12</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>300</b>	<b>300</b>	<b>600</b>	<b>600</b>
<b>Total Period</b>					<b>36</b>							
<b>Theory:Practical (%)</b>			<b>0.0%</b>	<b>100.0%</b>								

**Course Structure of Diploma In Engineering Probidhan-2022 ( Mechanical Allied)**

**Name of Technology: RAC**

**RAC Technology(72)**

**Summary Structure (All Semester)**

Sl. No.	Semester	Period Per Week		Credit	Marks Distribution						
		Theory	Practical		Theory Assessment			Practical Assessment			Grand Total
					Continuous	Final	Total	Continuous	Final	Total	
1	1st Semester	14	18	20	280	420	700	150	150	300	1000
2	2nd Semester	16	18	22	320	480	800	150	150	300	1100
3	3rd Semester	17	18	23	340	510	850	150	150	300	1150
4	4th Semester	11	24	19	220	330	550	200	200	400	950
5	5th Semester	15	18	21	300	450	750	150	150	300	1050
6	6th Semester	16	18	22	320	480	800	150	150	300	1100
7	7th Semester	15	18	21	300	450	750	150	150	300	1050
8	8th Semester	-	36	12	-	-	-	300	300	600	600
<b>Total</b>		<b>104</b>	<b>168</b>	<b>160</b>	<b>2,080</b>	<b>3,120</b>	<b>5,200</b>	<b>1,400</b>	<b>1,400</b>	<b>2,800</b>	<b>8000</b>
<b>Total Period</b>				<b>272</b>							
<b>Theory:Practical (%)</b>		<b>38.2%</b>	<b>61.8%</b>								