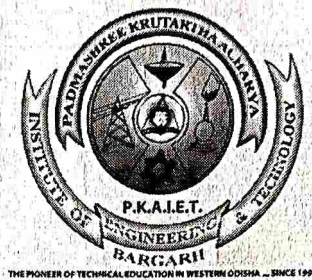


PADMASHREE KRUTARTHA ACHARYA INSTITUTE OF ENGINEERING & TECHNOLOGY, BARGARH



PROGRESS REGISTER Session-2022-2023

Discipline: Mechanical Engg.

Semester: 5th Subject: RAC (A)

Name of the Teaching Faculty: Santosh panda

Subject: RAC (A) No. of Days/per week class allotted 4

Semester From Date: 10/9/22 To Date: 21/3/23 No. of Weeks: 18

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
16/9/22	Introduction to RAC	Introduction to RAC	Definition & unit of Refrigeration.	Sar
19/9/22	COP & R.E	COP & R.E	Refrigeration Effect.	Sar
21/9/22	Open & closed Air system	Open & closed Air system	Open & closed Air system.	Sar
23/9/22	Bell-Coleman cycle	Bell-Coleman cycle	COP of cycle.	Sar
24/9/22	Numerical practice	Numerical practice	Numerical practice.	Sar
26/9/22	S.V.R.S	S.V.R.S	S.V.R.S	Sar
28/9/22	Types of V.R.S	Types of V.R.S	Types of V.R.S	Sar
30/9/22	Dry saturated vapour after comp.	9/13 cycle & figure	9/13 COP.	Sar
1/10/22	Wet vapour of compress.	9/13 cycle & figure	9/13 COP.	Sar
10/10/22	Superheated vapour after comp.	9/13 cycle & figure	9/13 COP.	Sar
12/10/22	Sub cooling of Refn.	Sub-cooling of Refn	Graph & figure.	Sar

Subject: RAE (A) No. of Days/per week class allotted 4

Semester From Date: 10/9/22 To Date: 21/1/23 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
14/10/22	Problem on above topic	Problem on above topic	Problem practice.	Sar
15/10/22	T-S & P-h of Graph.	T-S & P-h of Graph	T-S & P-h of Graph.	Sar
17/10/22	COP & MFR	COP & MFR	COP & MFR	Sar
19/10/22	Question practice	Question practice	Question practice.	Sar
21/10/22	Introduction to S.V.A.S	Introduction to S.V.A.S	Introduction to S.V.A.S	Sar
22/10/22	Figure of S.V.A.S	Figure of S.V.A.S	Figure of S.V.A.S	Sar
26/10/22	Practical V.A.S	Practical V.A.S	Practical V.A.S	Sar
28/10/22	S.V.A.S vs P.V.A.S	SVAS vs PVAS	SVAS vs PVAS	Sar
29/10/22	COP of above cycle	COP of above cycle	COP of above cycle.	Sar
31/10/22	COP of ideal VAS	COP of ideal VAS	COP of ideal VAS.	Sar
2/11/22	Question practice	Question practice	Question practice.	Sar

Subject: RAC (A) No. of Days/per week class allotted 4

Semester From Date: 10/9/22 To Date: 21/1/23 No. of Weeks: 18

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
4/11/22	RC & Rotary comp.	RC & Rotary comp.	RC & Rotary comp.	Sar
5/11/22	Principle of centrifugal pump	Prin of C.P	Centrifugal pump.	Sar
7/11/22	Working of C.P	working of C.P	Working of C.P	Sar
9/11/22	Hermittals sealed compressor	H.S.C	H.S.C	Sar
11/11/22	Question Practice	Question Practice	Question Practice.	Sar
12/11/22	Expansion valve	Expansion valve	Expansion valve.	Sar
14/11/22	Capillary tube & tubes	capillary tube & tubes	capillary tube & tubes.	Sar
18/11/22	Automatic Expansion valve	A.E.V	A.E.V	Sar
19/11/22	Thermostatic Expansion valve	T.E.V	T.E.V	Sar
21/11/22	Refrigerant Classification	Refrigerant Classification	Types.	Sar
23/11/22	Properties of Ideal Refn	Properties of Ideal Refn	Thermal & chemical	Sar

Subject: RAC (A) No. of Days/per week class allotted 4

Semester From Date: 10/11/22 To Date: 21/1/23 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
25/11/22	Thermal Properties of Refn	T.P of Refrigerant	T.P of Refn.	Sar
26/11/22	Cold Storage	Cold Storage	Cold Storage.	Sar
28/11/22	Dairy Refn	Dairy Refn	Dairy Refn	Sar
30/11/22	Ice Plant	Ice Plant	Ice Plant.	Sar
2/12/22	Question Practice	Question Practice	Question Practice.	Sar
3/12/22	Numerical Practice	Numerical Practice	Numerical Practice.	Sar
5/12/22	Psychometric terms	Psychometric terms	Psychometric terms.	Sar
7/12/22	Chart & uses	Chart & uses	Chart & uses.	Sar
9/12/22	Psychometric Process	Psychometric Process	Psychometric Process.	Sar
10/12/22	S.H & S.C	S.H & S.C	S.H & S.C	Sar
12/12/22	Question Practice	Question Practice	Question Practice.	Sar





Subject: RAC (A) No. of Days/per week class allotted 4

Semester From Date: 15/9/22 To Date: 21/1/23 No. of Weeks: 18

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
14/12/22	Heating & Humidification	Heating & Humidification	Heating & Humidification	Sar
16/12/22	Adiabatic cooling & Humidification	Adiabatic cooling & Humidification	Adiabatic cooling & Humidification	Sar
17/12/22	T.C of a cooling process	T.C of a cooling process	Total cooling of a cooling process	Sar
19/12/22	Adiabatic Mixing	Adiabatic Mixing	Adiabatic Mixing	Sar
21/12/22	COMFORT Chart	COMFORT Chart	COMFORT Chart	Sar
23/12/22	COMFORT Air conditioning	COMFORT Air conditioning	COMFORT Air conditioning	Sar
24/12/22	Factor that affect CAC	Factor that affect CAC	Factor that affect C.A.C.	Sar
26/12/22	Details of AC	AC Details	AC Details	Sar
28/12/22	Parts in AC	Parts in AC	Parts in AC.	Sar
30/12/22	Question Practice	Question Practice	Question Practice	Sar
31/12/22	- do -	- do -	- do -	Sar

Subject: RAC (A) No. of Days/per week class allotted 4

Semester From Date: 10/9/22 To Date: 4/1/23 No. of Weeks: 15

Date	Topics to be covered as per Lesson Plan	Topics actually covered	Points/contents Discussed (in brief)	Signature of Teacher
4/1/23	Types of RAC	Types of RAC	Types of RAC	
6/1/23	W.A.C	W.A.C	W.A.C	
9/1/23	S.A.C	S.A.C	S.A.C	
11/1/23	Pr. yr question practice	Pr. yr question practice	Pr. yr question practice	
13/1/23	- do -	- do -	- do -	