

I SEMESTER

STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME UNIVERSITY POLYTECHNIC, A.M.U.,ALIGARH

Name of the Branch (es):- Mechanical / Production / RAC / Plastic Tech

Semester :- **First**

THEORY COURSES:

S.No	Course No	Course Title	Study Scheme Pds./ wk		Evaluation Scheme				
			L	P	Duration of end sem exam Hrs.	Max Marks			
						Course Work	Mid Sem Exam	End Sem Exam	Total
1	BMA-101	Applied Maths-I	5	0	3	10	15	75	100
2	BPH-101	Applied Physics-I	2	0	2	5	10	35	50
3	BCH-101	Applied Chemistry-I	2	0	2	5	10	35	50
4	BEE-103	Electrical Engg	3	0	3	10	15	75	100
5	BME-101	Production Engg-I	4	0	3	10	15	75	100
6	BME-102	Engg. Drawing-I	0	6	3	50	15	35	100
Total			16	6		90	80	330	500

PRACTICAL COURSES:

1	BME-191	Workshop Practice-I	0	6	3	100	--	50	150
2	BPH-191	Applied Physics Lab-I	0	2	3	30	--	20	50
3	BCH-191	Applied Chemistry Lab-I	0	2	3	30	--	20	50
4	BEE-192	Electrical Engg Lab.	0	2	3	30	--	20	50
Total			0	12		190	---	110	300
Grant Total			16	18		280	80	440	800

Period per week= 16+18= 34

★ Note:- Definition

Course Work :- Theory Courses : Assignment & Class Work

Lab Courses : Punctuality, Class Work Practical Report & Viva-Voce.

End Sem Exam :- Lab Course : Viva-Voce & Practical Performance

II SEMESTER

STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME UNIVERSITY POLYTECHNIC, A.M.U.,ALIGARH

Name of the Branch (es):- Mechanical / Production / RAC

Semester :- **Second**

THEORY COURSES:

S.No	Course No	Course Title	Study Scheme Pds./ wk		Evaluation Scheme				
			L	P	Duration of end sem exam Hrs.	Max Marks			Total
						Course Work	Mid Sem Exam	End Sem Exam	
1	BMA-201	Applied. Maths-II	5	0	3	10	15	75	100
2	BPH-201	Applied Physics-II	2	0	2	5	10	35	50
3	BCH-201	Applied Chemistry-II	2	0	2	5	10	35	50
4	BEN-201	English Communications Skills	4	0	3	10	15	75	100
5	BME-201	Applied Mechanics	4	0	3	10	15	75	100
6	BME-202	Engg. Drawing -II	0	6	3	50	15	35	100
Total			17	6		90	80	330	500

PRACTICAL COURSES:

1	BME-291	Workshop Practice -II	0	6	3	100	--	50	150
2	BPH-291	Applied Physics Lab-II	0	2	3	30	--	20	50
3	BCH-291	Applied Chemistry Lab-II	0	2	3	30	--	20	50
4	BME-292	Applied Mechanics Lab	0	2	3	30	--	20	50
Total			0	12		190	--	110	300
Grant Total			17	18		280	80	440	800

Period per week:17+18=35

III SEMESTER

STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME UNIVERSITY POLYTECHNIC, A.M.U.,ALIGARH

Name of the Branch (es) :- Production / RAC

Semester :- **Third**

THEORY COURSES:

S.No	Course No	Course Title	Study Scheme Pds./ wk		Evaluation Scheme				
			L	P	Duration of end sem exam Hrs.	Max Marks			Total
						Course Work	Mid Sem Exam	End Sem Exam	
1	BMA-301	Applied Maths-III	4	0	3	10	15	75	100
2	BME-301	Metrology & Quality	4	0	3	10	15	75	100
3	BME-303	Production Tech-II	4	0	3	10	15	75	100
4	BME-304	Machine Drawing-I	0	6	3	50	15	35	100
5	BME-306	Applied Thermal Engg.	4	0	3	10	15	75	100
6.	BCE-306	Environmental Studies	2	0	2	5	10	35	50
Total			18	6		95	85	370	550

PRACTICAL COURSES:

1	BME- 391	Workshop Practice-III	0	4	3	60	--	40	100
2	BME-392	Thermodynamics & Heat Transfer	0	2	3	30	--	20	50
3	BME-393	Metrology Lab	0	4 (2*2)	3	60	--	40	100
Total			0	10		150		100	250
Grant Total			18	16		245	85	470	800

Period per week:18+16=34

IV SEMESTER

STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME UNIVERSITY POLYTECHNIC,
A.M.U.,ALIGARH

Name of the Branch (es) :- Mechanical / Production / RAC

Semester :- **Fourth**

THEORY COURSES:

S.No	Course No	Course Title	Study Scheme		Evaluation Scheme				
			Pds./ wk		Duration of end sem exam Hrs.	Max Marks			
			L	P		Course Work	Mid Sem Exam	End Sem Exam	Total
1	BME-401	Strength of Materials	4	0	3	10	15	75	100
2	BME-402	Materials Science	4	0	3	10	15	75	100
3	BME-403	Theory of Machines	4	0	3	10	15	75	100
4	BME-404	Machine Drawing-II	0	6	3	50	15	35	100
5	BEE-405	Industrial Electronics & Instrumentation	3	0	3	10	15	75	100
		Total	15	6		90	75	335	500

PRACTICAL COURSES:

1	BME-491	Workshop Practice-IV	0	4	3	80	--	40	120
2	BME-492	CAD Lab-I	0	2	3	40	--	20	60
3	BME-493	Strength of Materials Lab	0	2	3	40	--	20	60
4	BEE-495	Electronics Lab.	0	2	3	40	--	20	60
		Total	0	10		200	--	100	300
		Grant Total	15	16		290	75	435	800

Period per week: 15+16=31

V SEMESTER

STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME UNIVERSITY POLYTECHNIC, A.M.U.,ALIGARH

Name of the Branch (es) :- REFRIGERATION & AIR CONDITIONING

Semester:- **Fifth**

THEORY COURSES:

S.No	Course No	Course Title	Study Scheme		Evaluation Scheme				
			Pds./ wk		Duration of end sem exam Hrs.	Max Marks			
			L	P		Course Work	Mid Sem Exam	End Sem Exam	Total
1	BME-501	Industrial Engineering	4	0	3	10	15	75	100
2	BME-502	Hydraulics & Pneumatics	4	0	3	10	15	75	100
3	BME-503	Applied Thermodynamics	4	0	3	10	15	75	100
4	BRA-504	Refrigeration & Air Conditioning-I	4	0	3	10	15	75	100
5	BME-505	Production Technology -III	4	0	3	10	15	75	100
Total			20	0		50	75	375	500

PRACTICAL COURSES:

1	BME-591	Workshop Practice -V	0	6	3	80	--	40	120
2	BRA-591	Refrigeration & Air Conditioning Lab-I	0	3	3	50	--	30	80
3	BME-594	Project	0	3	3	80	--	40	120
4	BME-595	Hydraulics Lab	0	2	3	50	--	30	80
Total			0	14		260	--	140	400
Grant Total			20	14		310	75	515	900

Period per week: 20+14=34

VI SEMESTER

STUDY AND EVALUATION SCHEME FOR DIPLOMA PROGRAMME UNIVERSITY POLYTECHNIC, A.M.U.,ALIGARH

Name of the Branch (es) :- REFRIGERATION & AIR CONDITIONING

Semester:- **Sixth**

THEORY COURSES:

S.No	Course No	Course Title	Study Scheme Pds./ wk		Evaluation Scheme				
			L	P	Duration of end Sem Exam Hrs.	Max Marks			
						Course Work	Mid Sem Exam	End Sem Exam	Total
1	BME-601	Industrial Management &	4	0	3	10	15	75	100
2	BME-602	Machine Design	4	0	3	10	15	75	100
3	BRA-601	Refrigeration & Air Conditioning-II	4	0	3	10	15	75	100
4	BRA-602	Erection, Servicing & Maintenance	4	0	3	10	15	75	100
5	BME-605	* Elective	3	0	3	10	15	75	100
Total			19	0		50	75	375	500

PRACTICAL COURSES:

1	BRA-691	Refrigeration & Air	0	3	3	60	--	40	100
2	BRA-692	Erection, Servicing &	0	3	3	60	--	40	100
3	BRA-694	Project	0	3	3	80	--	40	120
4	BME-695	CAD LAB-II	0	2	3	50	--	30	80
Total			0	11		250	--	150	400
Grant Total			19	11		300	75	525	900

Period per week: 19+11=30

- * Electives:-
1. Environmental Science & Management
 2. Non- Conventional Energy Sources
 3. Total Quality Management