

**DIPLOMA(ICD) IN MECHANICAL ENGINEERING
&
CERTIFICATE IN AIR CONDITIONING MECHANIC (CAC)**

Semester-I (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-111	Mathematics- I	4	1	0	5	5
2	PH -111	Physics-I	4	0	2	6	5
3	CY-111	Chemistry-I	4	0	2	6	5
4	HU-111	Communication Skills-I	2	0	0	2	2
5	WS-111	Workshop Practice-I	0	0	4	4	2
6	ME-111	Engineering Drawing	0	0	4	4	2
7	CS-111	Computer Fundamentals	3	0	2	5	4
Total			17	1	14	32	25
Semester-II (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-121	Mathematics- II	4	1	0	5	5
2	PH-121	Physics-II	4	0	2	6	5
3	CY-121	Chemistry-II	4	0	2	6	5
4	HU-121	Communication Skills-II	1	0	2	3	2
5	WS-121	Workshop Practice-II	0	0	4	4	2
6	ME-122	Machine Drawing	0	0	4	4	2
7	ME-123	Thermal Engineering	2	0	2	4	3
Total			15	1	16	32	24
Semester-III A (ICD)							
	TP-201	Two Weeks Practical Training during summer vacations				80	S/US
Semester-III B (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-211	Applied Mathematics	3	1	0	4	4
2	EE-211	Fundamental of Electrical Engineering	3	0	2	5	4
3	EC-211	Fundamentals of Electronics Engineering	3	0	2	5	4
4	ME-211	Manufacturing Process-I	3	0	2	5	4
5	ME-212 B	Refrigeration & Air Conditioning-I	2	0	2	4	3
6	ME-213	Engineering Materials & Metallurgy	2	0	2	4	3
7	ME-214 B	Installation & Servicing of RAC equipments	0	0	4	4	2
Total			16	1	14	31	24
Semester-IV (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ME-221 B	Refrigeration & Air Conditioning-II	3	0	2	5	4
2	ME-222 B	Fundamentals of Heat and Mass Transfer	2	0	4	6	4
3	ME-223	Metrology & Mechanical Measurements	3	0	2	5	4
4	ME-224	Estimation & Costing	2	0	0	2	2
5	ME-225	Manufacturing Process-II	3	0	2	5	4
6	ME-226	Engineering Mechanics	3	1	2	6	5
7	MC-221	Moral values and Professional ethics	1	0	0	1	0
Total			17	1	12	30	23
Semester-V A (ICD)							
	TP-301	Four Weeks Industrial Training during summer vacations				160	
Semester-VB (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ME-311	Power Plant Engineering	3	0	2	5	4
2	ME-312	Theory of Machines	2	1	4	7	5
3	ME-313	Fluid Mechanics	2	0	4	6	4
4	ME-314	Production Management	2	0	2	4	3
5	ME-315	Strength of Materials	2	1	2	5	4
6	ME-316	Industrial Engineering	2	0	2	4	3
7	TP-301E	Industrial Training (Evaluation only--S/US)					S/US
Total			13	2	16	31	23
Semester-VI (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HU-321	Entrepreneurship	2	0	0	2	2
2	MC-321	Environmental Studies	2	0	0	2	2
3	ME-321	Automobile & IC Engine	2	0	4	6	4
4	ME-322	CAD/CAM	2	0	4	6	4
5	ME-323	Design of Machine Elements	3	2	0	5	5
6	ME-324	Industrial Automation & Control	2	0	4	6	4
7	ME-325	Project	0	0	4	4	2
Total			13	2	16	31	23

**DIPLOMA (ICD) IN MECHANICAL ENGINEERING
&
CERTIFICATE IN AUTO AND FARM EQUIPMENT MECHANIC (CAF)**

Semester-I (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-111	Mathematics- I	4	1	0	5	5
2	PH -111	Physics-I	4	0	2	6	5
3	CY-111	Chemistry-I	4	0	2	6	5
4	HU-111	Communication Skills-I	2	0	0	2	2
5	WS-111	Workshop Practice-I	0	0	4	4	2
6	ME-111	Engineering Drawing	0	0	4	4	2
7	CS-111	Computer Fundamentals	3	0	2	5	4
Total			17	1	14	32	25
Semester-II (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-121	Mathematics- II	4	1	0	5	5
2	PH-121	Physics-II	4	0	2	6	5
3	CY-121	Chemistry-II	4	0	2	6	5
4	HU-121	Communication Skills-II	1	0	2	3	2
5	WS-121	Workshop Practice-II	0	0	4	4	2
6	ME-122	Machine Drawing	0	0	4	4	2
7	ME-123	Thermal Engineering	2	0	2	4	3
Total			15	1	16	32	24
Semester-III A (ICD)							
	TP-201	Two Weeks Practical Training during summer vacations				80	S/US
Semester-III B (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-211	Applied Mathematics	3	1	0	4	4
2	EE-211	Fundamental of Electrical Engineering	3	0	2	5	4
3	EC-211	Fundamentals of Electronics Engineering	3	0	2	5	4
4	ME-211	Manufacturing Process-I	3	0	2	5	4
5	ME-212 C	Farm Machinery-I	2	0	2	4	3
6	ME-213	Engineering Materials & Metallurgy	2	0	2	4	3
7	ME-214 C	Repair and Maintenance of Auto and Farm Equipments	0	0	4	4	2
Total			16	1	14	31	24
Semester-IV (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ME-221 C	Advanced Agricultural Equipments	3	0	2	5	4
2	ME-222 C	Farm machinery-II	2	0	4	6	4
3	ME-223	Metrology & Mechanical Measurements	3	0	2	5	4
4	ME-224	Estimation & Costing	2	0	0	2	2
5	ME-225	Manufacturing Process-II	3	0	2	5	4
6	ME-226	Engineering Mechanics	3	1	2	6	5
7	MC-221	Moral values and Professional ethics	1	0	0	1	0
Total			17	1	12	30	23
Semester-V A (ICD)							
	TP-301	Four Weeks Industrial Training during summer vacations				160	
Semester-V B (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ME-311	Power Plant Engineering	3	0	2	5	4
2	ME-312	Theory of Machines	2	1	4	7	5
3	ME-313	Fluid Mechanics	2	0	4	6	4
4	ME-314	Production Management	2	0	2	4	3
5	ME-315	Strength of Materials	2	1	2	5	4
6	ME-316	Industrial Engineering	2	0	2	4	3
7	TP-301E	Industrial Training (Evaluation only--S/US)					S/US
Total			13	2	16	31	23
Semester-VI (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HU-321	Entrepreneurship	2	0	0	2	2
2	MC-321	Environmental Studies	2	0	0	2	2
3	ME-321	Automobile & IC Engine	2	0	4	6	4
4	ME-322	CAD/CAM	2	0	4	6	4
5	ME-323	Design of Machine Elements	3	2	0	5	5
6	ME-324	Industrial Automation & Control	2	0	4	6	4
7	ME-325	Project	0	0	4	4	2
Total			13	2	16	31	23

**DIPLOMA (ICD) IN MECHANICAL ENGINEERING
&
CERTIFICATE IN FOUNDRY AND FORGING (CFF)**

Semester-I (ICD)							
S.No	Sub	Subject Name	L	T	P	Hrs.	Credits
1	AM-111	Mathematics- I	4	1	0	5	5
2	PH -111	Physics-I	4	0	2	6	5
3	CY-111	Chemistry-I	4	0	2	6	5
4	HU-111	Communication Skills-I	2	0	0	2	2
5	WS-111	Workshop Practice-I	0	0	4	4	2
6	ME-111	Engineering Drawing	0	0	4	4	2
7	CS-111	Computer Fundamentals	3	0	2	5	4
Total			17	1	14	32	25
Semester-II (ICD)							
S.No	Sub	Subject Name	L	T	P	Hrs.	Credits
1	AM-121	Mathematics- II	4	1	0	5	5
2	PH-121	Physics-II	4	0	2	6	5
3	CY-121	Chemistry-II	4	0	2	6	5
4	HU-121	Communication Skills-II	1	0	2	3	2
5	WS-121	Workshop Practice-II	0	0	4	4	2
6	ME-122	Machine Drawing	0	0	4	4	2
7	ME-123	Thermal Engineering	2	0	2	4	3
Total			15	1	16	32	24
Semester-III A (ICD)							
	TP-201	Two Weeks Practical Training during summer vacations				80	S/US
Semester-III B (ICD)							
S.No	Sub	Subject Name	L	T	P	Hrs.	Credits
1	AM-211	Applied Mathematics	3	1	0	4	4
2	EE-211	Fundamental of Electrical Engineering	3	0	2	5	4
3	EC-211	Fundamentals of Electronics Engineering	3	0	2	5	4
4	ME-211	Manufacturing Process-I	3	0	2	5	4
5	ME-212 E	Foundry Technology-I	2	0	2	4	3
6	ME-213	Engineering Materials & Metallurgy	2	0	2	4	3
7	ME-214 E	Pattern Drawing	0	0	4	4	2
Total			16	1	14	31	24
Semester-IV (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ME-221 E	Foundry Technology-II	3	0	2	5	4
2	ME-222 E	Forging Technology	2	0	4	6	4
3	ME-223	Metrology & Mechanical Measurements	3	0	2	5	4
4	ME-224	Estimation & Costing	2	0	0	2	2
5	ME-225	Manufacturing Process-II	3	0	2	5	4
6	ME-226	Engineering Mechanics	3	1	2	6	5
7	MC-221	Moral values and Professional ethics	1	0	0	1	0
Total			17	1	12	30	23
Semester-V A (ICD)							
	TP-301	Four Weeks Industrial Training during summer vacations				160	
Semester-V B (ICD)							
S.No	Sub	Subject Name	L	T	P	Hrs.	Credits
1	ME-311	Power Plant Engineering	3	0	2	5	4
2	ME-312	Theory of Machines	2	1	4	7	5
3	ME-313	Fluid Mechanics	2	0	4	6	4
4	ME-314	Production Management	2	0	2	4	3
5	ME-315	Strength of Materials	2	1	2	5	4
6	ME-316	Industrial Engineering	2	0	2	4	3
7	TP-301E	Industrial Training (Evaluation only--S/US)					S/US
Total			13	2	16	31	23
Semester-VI (ICD)							
S.No	Sub	Subject Name	L	T	P	Hrs.	Credits
1	HU-321	Entrepreneurship	2	0	0	2	2
2	MC-321	Environmental Studies	2	0	0	2	2
3	ME-321	Automobile & IC Engine	2	0	4	6	4
4	ME-322	CAD/CAM	2	0	4	6	4
5	ME-323	Design of Machine Elements	3	2	0	5	5
6	ME-324	Industrial Automation & Control	2	0	4	6	4
7	ME-325	Project	0	0	4	4	2
Total			13	2	16	31	23

**DIPLOMA (ICD) IN MECHANICAL ENGINEERING
&
CERTIFICATE IN TOOL AND DIE TECHNOLOGY (CTD)**

Semester-I							
S.No	Sub	Subject Name	L	T	P	Hrs.	Credits
1	AM-111	Mathematics- I	4	1	0	5	5
2	PH-111	Physics-I	4	0	2	6	5
3	CY-111	Chemistry-I	4	0	2	6	5
4	HU-111	Communication Skills-I	2	0	0	2	2
5	WS-111	Workshop Practice-I	0	0	4	4	2
6	ME-111	Engineering Drawing	0	0	4	4	2
7	CS-111	Computer Fundamentals	3	0	2	5	4
Total			17	1	14	32	25
Semester-II							
S.No	Sub	Subject Name	L	T	P	Hrs.	Credits
1	AM-121	Mathematics- II	4	1	0	5	5
2	PH-121	Physics-II	4	0	2	6	5
3	CY-121	Chemistry-II	4	0	2	6	5
4	HU-121	Communication Skills-II	1	0	2	3	2
5	WS-121	Workshop Practice-II	0	0	4	4	2
6	ME-122	Machine Drawing	0	0	4	4	2
7	ME-123	Thermal Engineering	2	0	2	4	3
Total			15	1	16	32	24
Semester-III A							
	TP-201	Two Weeks Practical Training during summer vacations				80	S/US
Semester-III B							
S.No	Sub	Subject Name	L	T	P	Hrs.	Credits
1	AM-211	Applied Mathematics	3	1	0	4	4
2	EE-211	Fundamental of Electrical Engineering	3	0	2	5	4
3	EC-211	Fundamentals of Electronics Engineering	3	0	2	5	4
4	ME-211	Manufacturing Process-I	3	0	2	5	4
5	ME-212 A	Tool Room Techniques-I	2	0	2	4	3
6	ME-213	Engineering Materials & Metallurgy	2	0	2	4	3
7	ME-214 A	Tool Drawing	0	0	4	4	2
Total			16	1	14	31	24
Semester-IV							
S.No	Sub	Subject Name	L	T	P	Hrs.	Credits
1	ME-221 A	Fundamentals of Tool and Die Design	3	0	2	5	4
2	ME-222 A	Tool Room Techniques-II	2	0	4	6	4
3	ME-223	Metrology & Mechanical Measurement	3	0	2	5	4
4	ME-224	Estimation & Costing	2	0	0	2	2
5	ME-225	Manufacturing Process-II	3	0	2	5	4
6	ME-226	Engineering Mechanics	3	1	2	6	5
7	MC-221	Moral values and Professional ethics	1	0	0	1	0
Total			17	1	12	30	23
Semester-V A							
	TP-301	Four Weeks Industrial Training during summer vacations				160	
Semester-V B							
S.No	Sub	Subject Name	L	T	P	Hrs.	Credits
1	ME-311	Power Plant Engineering	3	0	2	5	4
2	ME-312	Theory of Machines	2	1	4	7	5
3	ME-313	Fluid Mechanics	2	0	4	6	4
4	ME-314	Production Management	2	0	2	4	3
5	ME-315	Strength of Materials	2	1	2	5	4
6	ME-316	Industrial Engineering	2	0	2	4	3
7	TP-301E	Industrial Training (Evaluation only--S/US)					S/US
Total			13	2	16	31	23
Semester-VI							
S.No	Sub	Subject Name	L	T	P	Hrs.	Credits
1	HU-321	Entrepreneurship	2	0	0	2	2
2	MC-321	Environmental Studies	2	0	0	2	2
3	ME-321	Automobile & IC Engine	2	0	4	6	4
4	ME-322	CAD/CAM	2	0	4	6	4
5	ME-323	Design of Machine Elements	3	2	0	5	5
6	ME-324	Industrial Automation & Control	2	0	4	6	4
7	ME-325	Project	0	0	4	4	2
Total			13	2	16	31	23

**DIPLOMA (ICD) IN MECHANICAL ENGINEERING
&
CERTIFICATE IN WELDING (CWG)**

Semester-I							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-111	Mathematics- I	4	1	0	5	5
2	PH -111	Physics-I	4	0	2	6	5
3	CY-111	Chemistry-I	4	0	2	6	5
4	HU-111	Communication Skills-I	2	0	0	2	2
5	WS-111	Workshop Practice-I	0	0	4	4	2
6	ME-111	Engineering Drawing	0	0	4	4	2
7	CS-111	Computer Fundamentals	3	0	2	5	4
Total			17	1	14	32	25
Semester-II							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-121	Mathematics- II	4	1	0	5	5
2	PH-121	Physics-II	4	0	2	6	5
3	CY-121	Chemistry-II	4	0	2	6	5
4	HU-121	Communication Skills-II	1	0	2	3	2
5	WS-121	Workshop Practice-II	0	0	4	4	2
6	ME-122	Machine Drawing	0	0	4	4	2
7	ME-123	Thermal Engineering	2	0	2	4	3
Total			15	1	16	32	24
Semester-III A							
	TP-201	Two Weeks Practical Training during summer vacations				80	S/US
Semester-III B							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-211	Applied Mathematics	3	1	0	4	4
2	EE-211	Fundamental of Electrical Engineering	3	0	2	5	4
3	EC-211	Fundamentals of Electronics Engineering	3	0	2	5	4
4	ME-211	Manufacturing Processes-I	3	0	2	5	4
5	ME-212 D	Welding Technology-I	2	0	2	4	3
6	ME-213	Engineering Materials & Metallurgy	2	0	2	4	3
7	ME-214 D	Welding Practices	0	0	4	4	2
Total			16	1	14	31	24
Semester-IV							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ME-221 D	Inspection and Testing of weldments	3	0	2	5	4
2	ME-222 D	Welding Technology-II	2	0	4	6	4
3	ME-223	Metrology & Mechanical Measurements	3	0	2	5	4
4	ME-224	Estimation & Costing	2	0	0	2	2
5	ME-225	Manufacturing Process-II	3	0	2	5	4
6	ME-226	Engineering Mechanics	3	1	2	6	5
7	MC-221	Moral values and Professional ethics	1	0	0	1	0
Total			17	1	12	30	23
Semester-V A							
	TP-301	Four Weeks Industrial Training during summer vacations				160	
Semester-V B							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	ME-311	Power Plant Engineering	3	0	2	5	4
2	ME-312	Theory of Machines	2	1	4	7	5
3	ME-313	Fluid Mechanics	2	0	4	6	4
4	ME-314	Production Management	2	0	2	4	3
5	ME-315	Strength of Materials	2	1	2	5	4
6	ME-316	Industrial Engineering	2	0	2	4	3
7	TP-301E	Industrial Training (Evaluation only--S/US)					S/US
Total			13	2	16	31	23
Semester-VI							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	HU-321	Entrepreneurship	2	0	0	2	2
2	MC-321	Environmental Studies	2	0	0	2	2
3	ME-321	Automobile & IC Engines	2	0	4	6	4
4	ME-322	CAD/CAM	2	0	4	6	4
5	ME-323	Design of Machine Elements	3	2	0	5	5
6	ME-324	Industrial Automation & Control	2	0	4	6	4
7	ME-325	Project	0	0	4	4	2
Total			13	2	16	31	23