

DEPARTMENT OF ELECTRICAL AND INSTRUMENTATION ENGINEERING							
THREE YEAR INTEGRATED CERTIFICATE DIPLOMA PROGRAM							
CERTIFICATE IN ELECTRICIAN, DIPLOMA IN ELECTRICAL ENGINEERING							
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	EE-111	Basic Electrical Engineering	3	0	2	5	4
6	EE-112	Electrical Workshop Practice-I	0	0	4	4	2
7	ME-111	Engineering Drawing	0	0	4	4	2
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-122	Workshop Technology & Practice	0	0	3	4	2
6	CS-121	Computer Fundamentals	3	0	2	5	4
7	EE-121	Electrical Engineering Drawing	0	0	4	4	2
Total			16	1	15	33	25
Semester-III A (ICD)							
	TP-201	Two Weeks Practical Training during summer vacations			5	80	S/US
Semester-III B (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	EE-212	D.C. Machines and Transformer	3	1	2	6	5
2	EE-213	Electrical Measurements	3	0	2	5	4
3	EE-214	Transmission & Distribution of Power	3	1	0	4	4
4	EC-211	Fundamentals of Electronics Engineering	3	0	2	5	4
5	EE-215	Electrical Estimation & Costing	3	1	0	4	4
6	EE-216	Maintenance & Repair of Electrical Equipments	2	0	2	4	3
7	MC-211	Moral values and Professional Ethics	1	0	0	1	0
Total			18	3	8	29	24
Semester-IV (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	AM-221	Applied Mathematics	3	1	0	4	4
2	EE-222	Sensor and Transducer	3	0	2	5	4
3	EE-223	Electrical Workshop Practice-II	0	0	4	4	2
4	EE-224	Testing & Maintenance of Electrical Machines	0	0	4	4	2
5	EE-225	Utilization of Electrical Energy	3	0	0	3	3
6	EE-226	A.C. machines	3	0	2	5	4
7	EE-227	Electrical Power Generation	3	0	0	3	3

		Total	15	1	12	28	22
Semester-V A (ICD)							
	TP301	Four Weeks Industrial Training during summer vacations			10	160	
Semester-VB (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	MC-311	Environmental Studies	2	0	0	2	2
2	HU311	Entrepreneurship	2	0	0	2	2
3	EE-311	Electrical Circuit Theory	3	1	2	6	5
4	EE-312	Digital Electronics	3	0	2	5	4
5	EE-313	Control Engineering	3	0	2	5	4
6	EE-314	Electrical Engineering Materials	3	0	0	3	3
7	EE-315	Computer Programming	3	0	2	5	4
8	TP-301E	Industrial Training (Evaluation only)					S/US
Total			19	1	8	28	24
Semester-VI (ICD)							
S.No	Sub Code	Subject Name	L	T	P	Hrs.	Credits
1	EE-321	Microprocessors	2	0	0	2	2
2	EE-322	Industrial Electronics	3	0	2	5	4
3	EE-323	Energy Conservation Practice	3	0	0	3	3
4	EE-324	Switchgear and Protection	3	0	2	5	4
5	EE-325	Industrial Automation	3	0	2	5	4
6	EE-326	Non Conventional Energy Sources	3	0	0	3	3
7	EE-327	Project	0	0	4	4	2
Total			17	0	10	27	22
Note:		The required credits for certificate programme					96
		The required credits for ICD programme					142
		Maximum courses in one semester					7
		Maximum Contact Hrs.					32
		The common courses and their credits are fixed for all ICD programmes					