

CONTENTS

SR.NO.	PARTICULARS	PAGE NO.
-	Preface	(i)
-	Acknowledgements	(ii)
1.	Salient Features of the Diploma Programme	1
2.	Employment Opportunities	2
3.	Competency Profile	4
4.	Deriving Curriculum Areas from Competency Profile	6
5.	Abstract of Curriculum Areas	8
6.	Horizontal and Vertical Organization of the Subject	10
7.	Study and Evaluation Scheme	11
8.	Guidelines for Assessment of Student Centred Activities and Internal Assessment	17
9.	Detailed Contents of various Subjects	

FIRST SEMESTER

1.1	Communication Skills -I	18
1.2	Applied Mathematics-I	20
1.3	Applied Physics – I	22
1.4	Applied Chemistry – I	26
1.5	Basics of Information Technology	30
1.6	Engineering Drawing-I	35
1.7	General Workshop Practice - I	38

SECOND SEMESTER

2.1	Communication Skills –II	43
2.2	Applied Mathematics-II	46
2.3	Applied Physics – II	48
2.4.	Applied Chemistry – II	51
2.5	Basic Electrical Engineering	55
2.6	Analog Electronics - I	59
2.7	General Workshop Practice-II	63

THIRD SEMESTER

3.1	Analog Electronics – II	67
3.2	Computer Programming and Applications	71
3.3	Anatomy and Physiology	74
3.4	Digital Electronics – I	77
3.5	Electronic Instruments and Measurement	81
3.6	Biomedical Instrumentation	84

FOURTH SEMESTER

4.1	Hospital Management and Clinical Practices	86
4.2	Physiotherapy and Operation Theatre Equipment	88
4.3	Microprocessor and Peripheral Devices	90
4.4	Digital Electronics - II	93
4.5	Medical Laboratory Instruments	96
4.6	Instrumentation	99
	HIV and AIDS Awareness Camp	102

FIFTH SEMESTER

5.1	Employability Skills - I	103
5.2	Electrical Machines	104
5.3	Environmental Education	107
5.4	Microcontrollers and Embedded System	109
5.5	SUPERVISED PRACTICAL TRAINING	111
	Personality Development Camp	113

SIXTH SEMESTER

6.1	Employability Skills - II	114
6.2	Installation and Maintenance of Medical Equipment	115
6.3	Radiology and Imaging	118
6.4	Communication System and Telemetry	121
6.5	Entrepreneurship Development and Management	124
6.6	Major Project Work	128

10.	Resource Requirements	132
11.	Evaluation Strategy	137
12.	Recommendations for Effective Implementation of Curriculum	140
13.	List of Participants	142