CONTENTS

SR.N	O. PARTICULARS	PAGE NO.
-	Preface	(i)
-	Acknowledgements	(ii)
1.	Salient Features of the Diploma Programme	1
2.	Employment Opportunities	2
3.	Competency Profile	3

-	Acknowledgements	(11)
1.	Salient Features of the Diploma Programme	1
2.	Employment Opportunities	2
3.	Competency Profile	3
4.	Deriving Curriculum Areas from Competency Profile	4
5.	Abstract of Curriculum Areas	6
6.	Horizontal and Vertical Organisation of the Subject	7
7.	Study and Evaluation Scheme	8
8.	Guidelines for Assessment of Student Centred Activities and Internal	14
	Assessment	
9.	Detailed Contents of various Subjects	

FIRST SEMESTER

1.1	Communication Skills - I	15
1.2	Applied Mathematics - I	17
1.3	Applied Physics – I	19
1.4	Applied Chemistry – I	23
1.5	Basics of Information Technology	27
1.6	Engineering Drawing-I	32
1.7	General Workshop Practice - I	35

SECOND SEMESTER

2.1	Communication Skills – II	40
2.2	Applied Mathematics - II	43
2.3	Applied Physics – II	45
2.4	Applied Chemistry – II	48
2.5	Applied Mechanics	52
2.6	Engineering Drawing - II	55
2.7	General Workshop Practice - II	58

THIRD SEMESTER

3.1	Engineering Fundamentals	63
3.2	Paint Technology – I	67
3.3	Fluid Flow	69
3.4	Polymer Science	71
3.5	Chemical Process Calculations	73
3.6	Mechanical Operations	75
3.7	Computer Aided Drafting	77

FOURTH SEMESTER

4.1	Resin Technology - I	79
4.2	Paint Technology - II	81
4.3	Heat Transfer	84
4.4	Mass Transfer	87
4.5	Chemical Engineering Thermodynamics	90
4.6	Pigment Technology	92
	Industrial Training	94

FIFTH SEMESTER

5.1	Resin Technology – II	95
5.2	Quality Control and Testing of Coatings	97
5.3	Chemical Reaction Engineering	99
5.4	Adhesives and Surface Coatings - I	101
5.5	Employability Skills - I	103
5.6	Environmental Education	104

SIXTH SEMESTER

6.1	Process Plant Utilities	106
6.2	Corrosion Engineering	108
6.3	Adhesives and Surface Coatings - II	110
6.4	Process Instrumentation and Control	112
6.5	Employability Skills - II	114
6.6	Entrepreneurship Development and Management	115
6.7	Project Work	119

10.	Resource Requirements	121
11.	Evaluation Strategy	126
12.	Recommendations for Effective Implementation of Curriculum	128
13.	List of Participants	131