PRINTERS' COSTING & ESTIMATING

Name of the Course: Diploma in Printing Technology			
Course Code:	Semester: Fifth		
Duration: 16 Weeks	Maximum Marks: 100		
Teaching Scheme	Examination Scheme		
Theory: 3 hrs/week	Internal Examination: 20		
Tutorial: NIL	Assignment & Attendance: 10		
Practical: NIL	End Semester Exam:70		
Credit: 2			

Aim:

Printing supervisors, owners of printing presses have to study costing for the purpose of cost recovery and cost control. The study of a scientific system of costing will give them proper guidance as to how the maximum utilization of the resources of the factory can be achieved and do away with waste of time and money.

In an extremely competitive market, scientific estimating can guarantee the meaningful survival of a printing organization by enabling it to forecast correctly and judiciously the estimated cost of jobs, the overhead expenditure of a business, and the amount of profit to be made from each job.

Objective: The students will be able to

- 1. Understand various Paper and Board sizes & Estimates, warehouse management & adhesive & other related materials, different finishing tools.
- 2. Appreciate styles of binding, layout of binding & finishing department.
- 3. Understand various types of binding, the detailed steps to be taken in each binding type.
- 4. Understand various cutting machines and other allied equipment.
- 5. Get an idea about various automation-taking places in binding & finishing.

Pre-Requisite: Elementary knowledge of Basic Printing , Pre-Press Repro Technique & Binding Finishing

Contents			
Group-A	COSTING	Hrs/unit	Marks
Unit 1	 1.0 Variable Cost 2.0 Names of Variable materials & services used in Printing Industries 3.0 Semi – Variable Cost 4.0 Name of the things included in Semi – Variable Costs in Printing 	15	10
Unit 2	5.0 Indirect Cost	15	15
	 6.0 Names of the things included in Fixed Costs in Printing Industries 7.0 Definition of Pricing 8.0 Different factors of Pricing 9.0 Brief overview on Bin Card, Job Ticket, Purchase Requisition and Depreciation 		
Unit 3	 10.0 Definition of Break – Even Point 11.0 Algebrical & Graphical representation of Break – Even Point 	10	10

Group-B	ESTIMATING			
Unit 4	12.0 Quality of 13.0 Good Co	05	10	
Unit 5		method to find out ink coverage in Printing Off calculation by En method	05	10
Unit 6	16.0 Calculation a stock a 17.0 To find a cost, inte	14	15	
Name of	Author	Title of the Book	Name of the Publisher	
	d Mills	 Estimating Methods & Cost Analysis for Printers Printers' Production Management The Printers Estimator A Primary Course in Printers' Costing 		Publication

INTERNAL ASSESSMENT: 06

TOTAL PERIODS: 70

Examination Scheme:

a) Internal Examination Marks: 20

b) End Semester Examination Marks: 70

c) Attendance + Assessment + Interaction: 10

Full Marks: 100

End Semester Examination Marks: 70

Group	Unit			Objective	Marks/Qs	Total
						Marks
			To be set	To be answered		
A	1, 2 & 3		12	Any 20Qs	01	20
В	4, 5 & 6		13	-		
		_				

Group	Unit		Subjective	Marks/Qs	Total
					Marks
A	1, 2 & 3	04	Any five Qs	10	05x10
			Taking atleast		=50
			One from each		
			Group		
В	4, 5 & 6	06	-	-	-

Note 1: Teachers' Assessment will be based on performance on given assignments.

SURFACE PREPARATION TECHNIQUE

Name of the Course: Diploma in Printing Technology			
Course Code:	Semester: Fifth		
Duration: 16 Weeks	Maximum Marks: 100		
Teaching Scheme	Examination Scheme		
Theory: 3 hrs/week	Internal Examination: 20		
Tutorial: nil	Assignment & Attendance: 10		
Practical: 4 hrs/week	End Semester Exam:70		
Credit: 3			

Aim:

In the recent past the pre-press operations have gone through sea changes. The advents of modern machinery are the main reason of it. So, we feel the necessity of upgrading the syllabus of this particular subject. We have not eliminated all the older techniques but have blended old and new judiciously. Before printing with the printing units all the printing elements should be processed systematically through Prepress Reproduction Technique and then through Prepress Surface Imaging Technique. The aim of this subject is to provide the students with the knowledge and skill of the preparation of image carrier on different surfaces.

Objective: The students will be able to

- 1. Appreciate the Surface Imaging concept.
- 2. Understand the Various Light-Sensitive Emulsion & processing on Litho-offset Plates.
- 3. Understand the various processing on Gravure Cylinders.
- 4. Understand the various processing on Metal Plates of Blocks.
- 5. Understand the Halftone & Line reproduction technique.
- 6. Understand the various processing on Silk Screen Surface Imaging.
- 7. Understand the various processing on Flexography, Decal and other Master Surface Imaging.
- 8. Understand equipment and allied.

Pre-Requisite: Elementary knowledge of Basic Printing & Pre-Press Repro Technique

Contents: Group-A Hrs/unit Marks 1.0 Appreciate the concept of Imaging on various surfaces of Unit 1 plate making. 15 10 1.1. Equipment used in Plate making department 1.2. Study of various metal for making image carriers 1.3. Study of Graining & Image transfer 1.4. Study of manual and automatic Plate processing technique. Unit 2 2.0 Engraving for Block making 15 15 2.3 Etching - line blocks 2.4 Halftone etching - on zinc & Copper **2.5** Powderless etching 2.6 Electronic engraving Unit 3 3.0 Flexography Surface preparation 3.1 Photopolymer relief plates 3.2 Rubber plates for flexo printing

	•					
Group-B Unit 4	4.0 Offset plater	making				
	4.2 P.S.	4.1 Deep etch – Gum and PVA 4.2 P.S. – Negative 4.3 P.S Positive				
		4.4 Automatic Plate Processing Technique				
Unit 5	5.0 Multi-metal	Offset plates				
	911 -1 11	1etal Plate 1etal Plate		10	10	
Unit 6	6.0 Other Plate 6.1 Electric 6.2 Laser 6.3 Dye-S					
Gro	oup-C					
Unit 7		nniques of screen printing Screen – Direct, Indirect, Direc	t Indirect			
	7.1Preparing a Capillary 7.2 Exposing Tec 7.3 Finishing		ı – indireci,	08	10	
Unit 8	8.0 Gravure Cyl 8.1 Carbon tissu etching solution a 8.2 Epoxy Resin					
Unit 9	8.3 Digital metho	od using diamond stylus • Plate (overview) – Thermal & Violet	: Plates	04	10	
Unit 10	10.0 Chemicals	used in Surface Preparation		02	05	
Name o	f Author	Title of the Book		Name of t Publisher	he	
1. MH	Bruno	Platemaking Department — M. H. Bruno		GATF		
2. JPC		2. Flexography Premier I & II Edin. — J. P. Crouch		GATF		
3. Albe	rt Kosloft :	3. Ceramic Screen Printing — Albert Kosloft		GATF		
	A Lither with and March at COATE		GATF			
6. Robe	5. Photoengraving — C. C. Ammonds			GATF		
7. PJH	artsuch	6. The Deep-Etch Process — Robert F. Reed				
		7. Chemistry for the Graphic Arts — P. J. Hartsuch		GATF		
				GATF		

GATF	Magazines:		
	GATF World, Focal Press, Printers' Voice Etc.		

INTERNAL ASSESSMENT: 06

TOTAL PERIODS: 70

Examination Scheme:

a) Internal Examination Marks: 20

b) End Semester Examination Marks: 70

c) Attendance + Assessment + Interaction: 10

Full Marks: 100

End Semester Examination Marks: 70

Group	Unit		Objective	Marks/Qs	Total
					Marks
		To be set	To be answered		
A	1, 2 & 3	07	Any 20Qs	01	20
В	4, 5 & 6	08	-		
С	7, 8, 9 & 10	10	-		
Group	Unit		Subjective	Marks/Qs	Total
					Marks
A	1, 2 & 3	02	Any five Qs	10	05x10
			Taking atleast		=50
			One from each		
			Group		
В	4, 5 & 6	04	-	-	-
С	7, 8, 9 & 10	04	-	-	-

Note 1: Teachers' Assessment will be based on performance on given assignments.

Plano graphic Printing Technique I

Name of the Course: Diploma in Printing Technology			
Course Code:	Semester: Fifth		
Duration: 16 Weeks	Maximum Marks: 100		
Teaching Scheme	Examination Scheme		
Theory: 3 hrs/week	Internal Examination: 20		
Tutorial: nil	Assignment & Attendance: 10		
Practical: 4 hrs/week	End Semester Exam:70		
Credit: 3			
ā.			

Aim:

Among the wide spectrum of different printing processes the most versatile and popular process is Plano graphic process. A wide range of substrates can be printed by Plano graphic process. Continuous R and D are going on in this process into different printing machines manufacturing companies and allied trades. There are tremendous job opportunities for the printing students in this field. The rapid changes and development in the field of Plano graphic technology obviate certain very old methodology and claim inclusion of up to date concept. The present syllabus reflects this rationale.

Objective: The students will be able to

- 1) Understand the four units that make up any printing press.
- 2) Understanding the development of press design from platen presses to rotary presses.
- 3) Understanding the principle of offset printing
- 4) Understanding the feeding unit, registration unit, printing unit, inking unit, dampening unit and delivery unit operation of an offset lithographic press.
- 5) Understanding the basic steps in setting up and operating an offset lithographic press
- 6) Understanding the several quality control devices commonly used in offset printing.
- 7) Understanding the concept of offset blanket
- 8) Understanding the feeding, dampening and inking systems of offset presses.
- 9) Understanding the common press problems.
- 10) Understanding the different imposition schemes, precautionary measures in machine room.

Pre-Requisite: Elementary knowledge of Basic Printing & Pre-Press Repro Technique

Contents:						
Group-A	Group-A					
Unit 1	Introduction to Plano graphic Printing					
	 Introduction to Plano graphic Printing – Classification of Printing (Impact and Non-impact – Different Printing processes – Visual Characteristics. (Identification) of different printing processes. 	15	15			
	Plano graphic Printing – Discovery, Application and Development.					
Unit 2	Introduction to Web Offset Printing		15			
	 Elements of In feed section of Web Offset including Splicer, Unwinding unit, Web Tension Control, Guide Rollers Web Delivery – Roll to Roll, Roll to Fold, Roll to Sheet 					

	I		1	
Group-B Unit 3	Principles of Lit	hography & Offset Printing		
	1.0 Principle 2.0 Different	10	10	
Unit 4	Offset & Driogra	aphy		
	3.0 What Off 4.0 Driograp 5.0 Introduct 6.0 Substrat 7.0 Limitatio	10	10	
Grou	JD-C			
Unit 5	-			
	Dampening Sys	tem	10	10
	1. Dampen Blast, De rollers - solution - TDS.			
Unit 6	2. Problem Imposition Imposition Kinds of	04	10	
			T	
Name of		Title of the Book	Name of the Publisher	
1. David	Cumming	Hand Book Of Lithography Devid Committee	GATF	
	o and Beale	David CummingSolving Sheet Fed OffsetPress Problems - Cavuto	GATF	
3. GATF		And Beale(Gatf) 3. Sheetfed Offset Press	GATF	
5. lan Fa	ux	Operatig - Gatf 4. The Printing Industry	GATF	
6. GATF	5. Modern Lithography – Ian Faux – Macdonald And Evans		GATF	
7. GATF				
8. GATF	, •			
9. GATF		And Press 9. Web Offset Press Operating	GATF	
10. GATF		10. Hand Book Of Printing Processes		

INTERNAL ASSESSMENT: 06

TOTAL PERIODS: 70

Examination Scheme:

a) Internal Examination Marks: 20

b) End Semester Examination Marks: 70

c) Attendance + Assessment + Interaction: 10

Full Marks: 100

End Semester Examination Marks: 70

Group	Unit		Objective	Marks/Qs	Total
					Marks
		To be set	To be answered		
A	1, 2	10	Any 20Qs	01	20
В	3 & 4	08	-		
С	5, 6	07	-		
Group	Unit		Subjective	Marks/Qs	Total
					Marks
A	1, 2	03	Any five Qs	10	05x10
			Taking atleast		=50
			One from each		
			Group		
В	3 & 4	03	-	-	-
С	5, 6	04	-		-

Note 1: Teachers' Assessment will be based on performance on given assignments.

Printing Machine Maintenance I

Name of the Course: Diploma in Printing Technology				
Course Code:	Semester: Fifth			
Duration: 16 Weeks	Maximum Marks: 100			
Teaching Scheme	Examination Scheme			
Theory: 3 hrs/week	Internal Examination: 20			
Tutorial: nil	Assignment & Attendance: 10			
Practical: Nil	End Semester Exam:70			
Credit: 3				

Aim:

Maintenance of printing machines is important for many reasons. The delay in production for a equipment failure can create serious problem because printing is a service industry. Today's newspaper if supplied tomorrow is no longer news but history. Like other technological fields, new concepts and applications are developing continuously in maintenance also. This proposed syllabus is based on latest changes.

Objective: The students will be able to

4.2

4.3

Bearing failure

Advantages and maintenance.

- 1) Choose the right piece of printing equipment considering the end product requirement.
- 2) Understand the different lubricants and the importance of correct lubrication
- 3) Use different compressor in printing machines and do maintenance job.
- 4) Differentiate the various mechanical drives in the printing machines and work with them.
- 5) Select and maintain bearings in the printing machines.

Pre-Requisite: Elementary knowledge of Basic Printing & Pre-Press Repro Technique

Contents: Marks Group-A Hrs/unit **Printing Equipment Purchasing** Unit 1 1.0 Initial cost, installation of printing machines 1.1 12 10 1.2 Printing equipment design consideration. 1.3 Critical questions regarding printing equipment purchasing. Unit 2 2.0 Lubrication 2.1 Types of lubricants - Petroleum, animal and vegetable oils, grease, graphite (over-view only) 2.2 Purpose of lubrication - control of friction, control of 15 15 control of temperature, removal of contaminants, shock absorption. 2.3 Characteristic - wetting ability, surface tension, viscosity, adhesion. 2.4 Lubrication maintenance failure. **Group-B** 3.0 **Pneumatics in Printing** Unit 3 10 10 3.1 Reciprocating compressor in front separation feeder. 3.2 Rotary compressor (vanes-type) in back separation feeder. Compressor maintenance. 4.0 Unit 4 Bearing used to printing machines 12 4.1 Selection of bearing, different types of bearings used in printing machine, definition.

15

Gro	up-C				
Unit 5	T [*]				
	5.0	Mechani	15	20	
		5.2 E n p p 5.3 V v 5.4 C u	Chain – Roller chain and its application areas in printing, Sprocket-with hub and without hub and it application in printing. Maintenance of chains an approcket. Belt and pulleys – Definition, classification naintenance. Definition, application areas in printing. Cam, follower, an overview of theoretical curve working curve, base circle stroke and dwell. Gear terminology, material, different types of gear used in printing machines. No mathematical calculations included anywhere).	s d i, n	
Name of	f Author		Title of the Book	Name of	
1. (C. W. Lat	ham	Advanced Pressmanship – C. W. Latham	Publisher	
2. I	lan Faux		2. Modern Lithography – Ian		
3. 0	3. G.A.T.F.		Faux		
4. 6	4. G.A.T.F.		Web Offset Press Troubles – G.A.T.F.		
			4. Solving Sheet-fed Press Troubles – G.A.T.F.		
	L.T.F. Inc.		5. Method Of Conditioning Paper for Multicolour Offset Printing –		
8. E	Banks		Weber & Geib		
9. L	T.F. Inc.		6. Prevention of Occupational Dermatitis in Lithography – L.T.F. Inc.		
	/ictor Stra	auss	7. pH Control of Fountain Solution – L.T.F. Inc.		
11. 0	1. G.A.I.F.		8. Paper in the Printing		
	12. L.T.F. Inc. Processes – Banks		•		
	G.A.T.F.		9. Guides, Grippers & Insertion Devices for Litho- Offset Presses –		
	Durrant		L.T.F. Inc.		
	/ictor Stra	auss	10. Graphic Arts Management – Victor Strauss		
16. 6	G.A.T.F.		11. Safety Practices for the Graphic Arts – G.A.T.F.		
			12. Gauges and Instruments For		

Offset Lithography – L.T.F. Inc.
13. Lithographers Manual – G.A.T.F.
14. Machine Printing – Durrant
15. The Printing Industry – Victor Strauss
16. Safety Measures – G.A.T.F.

INTERNAL ASSESSMENT: 06

TOTAL PERIODS: 70

Examination Scheme:

a) Internal Examination Marks: 20

b) End Semester Examination Marks: 70

c) Attendance + Assessment + Interaction: 10

Full Marks: 100

End Semester Examination Marks: 70

Group	Unit		Objective	Marks/Qs	Total
					Marks
		To be set	To be answered		
A	1, 2	10	Any 20Qs	01	20
В	3 & 4	10	-		
С	5	05	-		
Group	Unit		Subjective	Marks/Qs	Total
					Marks
A	1, 2	03	Any five Qs	10	05x10
			Taking atleast		=50
			One from each		
			Group		
В	3 & 4	04	-	-	-
С	5	03	-	-	-

Note 1: Teachers' Assessment will be based on performance on given assignments.

BINDING & FINISHING

Name of the Course: Diploma in Printing Technology				
Course Code:	Semester: Fifth			
Duration: 16 Weeks	Maximum Marks: 100			
Teaching Scheme	Examination Scheme			
Theory: 2 hrs/week	Internal Examination: 20			
Tutorial: 1 hr/week	Assignment & Attendance: 10			
Practical: 3 hrs/week	End Semester Exam:70			
Credit: 2				

Aim:

Getting the output through Print Finishing Processes are the most important operations for completing the print production. This will enable the students to make judgement about the aspect of Binding & Print Finishing, particularly the selection of a particular process chosen for a specific print production.

Objective: The students will be able to

- 1. Understand various Paper and Board sizes & Estimates, warehouse management & adhesive & other related materials, different finishing tools.
- 2. Appreciate styles of binding, layout of binding & finishing department.
- 3. Understand various types of binding, the detailed steps to be taken in each binding type.
- 4. Understand various cutting machines and other allied equipment.
- 5. Get an idea about various automation-taking places in binding & finishing.
- 6. Understand various Paper and Board sizes & Estimates, warehouse management & adhesive & other related materials, different finishing tools.
- 7. Appreciate styles of binding, layout of binding department.
- 8. Understand various types of binding, the detailed steps to be taken in each binding type.
- 9. Understand various cutting machines and other allied equipment.
- 10. Get an idea about various automation-taking places in binding.

Pre-Requisite: Elementary knowledge of Basic Printing & Pre-Press Repro Technique

Contents: Group-A Hrs/unit Marks **Book Binding in Print Finishing** Unit 1 1.0 Definition, General description of a book, classification of 10 10 bookbinding & its operational divisions, main stages of Binding. 2.0 Paper and its sizes - GSM, relation between GSM and weight of a ream, Estimation for paper, board, cloth calculations. Paper consideration - Size, Grain, Weight, Squaring & Singling. 3.0 Styles of binding and covering materials. 4.0 Use of different boards and adhesives. Unit 2 Binding equipment & tools. 05 10 5.0 Cutting Machine - Single knife, three knives & five knives trimmer-Application of Air cushion table. 6.0 Binding & Finishing tools and equipment.

Group-B			
Unit 3	Binding & Finishing terms & Terminology	05	05
		03	05
	7.0 Binding & Finishing terms and terminology.		
	8.0 End papers – definition, classification and its purpose.		
Unit 4	9.0 General layout of a Binding & Finishing Department		
Onit 4	Folding & Assembling the folded material for binding 10.0 Folding – Manual & Mechanical, Folding to print – Folding to paper, Right angle folding and parallel folding, knife folder, buckle folder, Former folder (for newspaper), Spiral folder (continuous stationery/business forms)	12	10
	12.0 Assembling the folded material for binding – Gathering, Collating, Inserting, – Manual and mechanical version.		
Grou			
Unit 5	Binding Proper	07	10
	1.0 Binding Proper – Stitching, Methods of using staplers or wire stitching machine, Sewing (Hand and Machine version), and classification of sewing, Adhesive/perfect binding loose leaf and mechanical binding.		
	2.0 Case book binding work (Manual and Mechanical).		
Unit 6	Operational Sequences -	05	05
	Flush cut binding, Edition Binding, Library Binding, Account Book Binding, Re-binding – Prevention of Deterioration.		
Unit 7	Miscellaneous Supplementary and Finishing Processes – Ruling, Bronzing, Varnishing, Embossing, Stamping/Tooling, Lamination, Die – cutting & indexing, UV coating.	10	10
Unit 8	Converting & its importance -Purpose of packaging and	05	15
	packaging labels- Purpose of Package printing Environmental considerations for packaging — Concept of 4 Rs in Packaging Packaging Materials — flexible, rigid, non-rigid Packaging Types — 1 ⁰ , 2 ⁰ , 3 ⁰ , 4 ⁰ , 5 ⁰ , 6 ⁰ Packaging systems for extending shelf life- CAP, MAP, Retort Packaging, Aseptic packaging, Vacuum packaging, Blister packaging, Smart and Intelligent Packaging Types of closures — Cushioning Transport packaging symbols-flammable, explosive, fragile,		
	avoid water, Packaging symbols - vegetarian, non vegetarian, recyclable, radura Polymer symbols for packaging (APME)		

Name of Author	Title of the Book	Name of the Publisher
1. M P Kini	Book Binding For Students - M.P.Kini	GATF
2. Alen J Vaugha	2. Modern Book Binding – Alen. J. Vaugha	GATF
3. Lorence Thom	3. Book Binding By Hand - Lorence Thom	GATF
4. John Massa	4. Book Binding – John Masa 5. Book Binding For Beginers –	GATF
5. J Key6. E V Whicher7. J W Zachensden	J.Key 6. Practical Elementary Book Craft – E.V.Whicher 7. The Art Of Book Binding – J.W.Zachensden	GATF
8. A G Martin	8. Finishing Process In Printing – A.G.Martin	GATF
9. Victor Strauss	9. The Pinting Industry – Victor Strauss	GATF

INTERNAL ASSESSMENT: 06

TOTAL PERIODS: 70

Examination Scheme:

a) Internal Examination Marks: 20

b) End Semester Examination Marks: 70

c) Attendance + Assessment + Interaction: 10

Full Marks: 100

End Semester Examination Marks: 70

Group	Unit		Objective	Marks/Qs	Total
					Marks
		To be set	To be answered		
A	1, 2	07	Any 20Qs	01	20
В	3 & 4	08	-		
С	5, 6 ,7 & 8	10	-		
Group	Unit		Subjective	Marks/Qs	Total
					Marks
A	1, 2	03	Any five Qs	10	05x10
			Taking atleast		=50

			One from each		
			Group		
В	3 & 4	03	-	-	-
С	5, 6, 7 & 8	04	-	-	-

Note 1: Teachers' Assessment will be based on performance on given assignments.

Syllabus for SURFACE PREPARATION TECHNIQUE W/SHOP – I

THROUGHOUT THE SEMESTER WHERE MARKS ALLOTTED FOR ASSESSMENT OF SESSIONAL WORK UNDERTAKEN IN EACH SEMESTER IS 25. DISTRIBUTION OF MARKS IN 3 RD SEMESTER: PERFORMANCE OF JOB- 10; LABORATORY NOTEBOOK - 10, & ATTENDANCE - 05. EXTERNAL ASSESSMENT (END SEMESTER EXAM) OF 50 MARKS SHALL BE HELD AT THE END OF THE THIRD SEMESTER ON THE ENTIRE SYLLABI OF . ONE JOB PER STUDENT FROM ANY ONE OF THE JOBS DONE IS TO BE PERFORMED. JOB IS TO BE SET BY LOTTERY SYSTEM. DISTRIBUTION OF MARKS: ON SPOT JOB - 20; VIVA-VOCE - 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	Name o	Name of the Course: Diploma in Printing Technology					
Teaching Scheme Theory: Nil hrs./week Tutorial: Nil hrs./week Tutorial: Nil hrs./week Attendance & Teacher's Assessment: 50 Marks Fractical: 4 hrs./week Practical: 4 hrs./week End Semester Exam:: 50Marks Credit: 3 Aim: To impart practical knowledge in Work Shop/Lab related with course of study. Objective: Student will able to SI. No. 1. Know basic Surface Preparation Processes. 2. Read and interpret Print Production Planning. 3. Identify, select, & use of various tools, equipment & software. 4. Operate, control different machines & equipment. 5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of Sessional work undertaken in THROUGHOUT THE SEMESTER WHERE MARKS ALLOTTED FOR ASSESSMENT OF SESSIONAL WORK UNDERTAKEN IN THROUGHOUT THE SEMESTER WHERE MARKS ALLOTTED FOR ASSESSMENT OF SESSIONAL WORK UNDERTAKEN IN THROUGHOUT THE SEMESTER WHERE MARKS ALLOTTED FOR ASSESSMENT OF SESSIONAL WORK UNDERTAKEN IN THROUGHOUT THE SEMESTER WHERE MARKS ALLOTTED FOR ASSESSMENT OF SESSIONAL WORK UNDERTAKEN IN THE THROUGHOUT THE SEMESTER WHERE MARKS ALLOTTED FOR ASSESSMENT OF SESSIONAL WORK UNDERTAKEN IN THE THROUGHOUT THE SEMESTER WHERE MARKS ALLOTTED FOR ASSESSMENT OF SESSIONAL WORK UNDERTAKEN IN THE THROUGHOUT OF THE SEMESTER WHERE MARKS ON SPOT JOB - 20; VIVA-VOCE - 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	Course Code:			Semester: Fifth			
Theory: Nil hrs./week Tutorial: Nil hrs./week Practical: 4 hrs./week Practical: 4 hrs./week Attendance & Teacher's Assessment: 50 Marks End Semester Exam: 50Marks End Semester Exam: 50Marks End Semester Exam: 50Marks Fractical: 4 hrs./week Attendance & Teacher's Assessment: 50 Marks End Semester Exam: 50Marks Fractical: 4 hrs./week Attendance & Teacher's Assessment: 50 Marks End Semester Exam: 50Marks End Semester Exam: 50Marks End Semester Exam: 50Marks End Semester Exam: 50 Marks End Semester Exam: 50 Marks In 50	Duration: : Seventeen weeks/Semester Maxi		Maximum Marks: 100				
Tutorial: Nil hrs./week Practical: 4 hrs./week Practical: 4 hrs./week Credit: 3 Aim: To impart practical knowledge in Work Shop/Lab related with course of study. Objective: Student will able to SI. No. 1. Know basic Surface Preparation Processes. 2. Read and interpret Print Production Planning. 3. Identify, select, & use of various tools, equipment & software. 4. Operate, control different machines & equipment. 5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the Teachers in 14/Unit 1 25 and 14 and 14 and 15 and 14 and 15 and 14 and 15 and 16 an	Teaching Scheme Examination Scheme: Continuous Evaluation				tion		
Practical: 4 hrs./week Credit: 3 Aim: To impart practical knowledge in Work Shop/Lab related with course of study. Objective: Student will able to SI. No. 1. Know basic Surface Preparation Processes. 2. Read and interpret Print Production Planning. 3. Identify, select, & use of various tools, equipment & software. 4. Operate, control different machines & equipment. 5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the Teachers in 14/Unit 1 processes in 14/Unit 1 processes in 15. Distribution of Marks in 3º0 Semester: Performance of Job- 10; Laboratory Notebook - 10, & Attendance - 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the end of the Third Semester of Of-Unit 4 on the entire Syllabiof. One Job Per Student from Any One of the Jobs Done is to be Performed. Job is to be set by Lotters yets Em. Distribution of Marks: On Spot Job - 20; Viva-Voce - 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	Theory:	Nil hrs./week		Mid Semester Exam.: Nil			
Aim: To impart practical knowledge in Work Shop/Lab related with course of study. Objective: Student will able to Sl. No. 1. Know basic Surface Preparation Processes. 2. Read and interpret Print Production Planning. 3. Identify, select, & use of various tools, equipment & software. 4. Operate, control different machines & equipment. 5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: Sl. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers Hrs./Unit 1 HADUGHOUT the Semestrer with 14/Unit 1 25 05/Unit 2 05/Unit 2 05/Unit 3 05/Unit 4 00/Unit 12,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	Tutorial	: Nil hrs./week		Attendance & Teacher's Assessment: 50 M	Marks		
Aim: To impart practical knowledge in Work Shop/Lab related with course of study. Objective: Student will able to SI. No. 1. Know basic Surface Preparation Processes. 2. Read and interpret Print Production Planning. 3. Identify, select, & use of various tools, equipment & software. 4. Operate, control different machines & equipment. 5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers in the poly of the semister where warks Allotted for Assessment of Sessional work undertaken in Each semester is 25. Distribution of Marks in 3% Semester: Performance of Job- 10; Laboratory NoteBook - 10, & Attendance - 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the end of the Third Semester Of Schulit 2 Of Schulit 3 Of Schulit 2 Of Schulit 4 Of Schulit 2 Of Schulit 4 Of Schulit 2 Of Schulit 4 Of	Practica	l: 4 hrs./week		End Semester Exam: 50Marks			
Objective: Student will able to SI. No. 1. Know basic Surface Preparation Processes. 2. Read and interpret Print Production Planning. 3. Identify, select, & use of various tools, equipment & software. 4. Operate, control different machines & equipment. 5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers Hrs./Unit 1 name of the semseter is 25. Distribution of Marks in 3.00 Semester: Performance of Joba 10; Laboratory Notebook – 10, & Attendance – 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the lods of the Entire Syllabi of One Job Per Student From Any One of the Jobs Done is to be performed. Job is to be set by Lottery System. Distribution of Marks: On Spot Job – 20; Viva-Voce – 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	Credit: 3	3					
SI. No. 1. Know basic Surface Preparation Processes. 2. Read and interpret Print Production Planning. 3. Identify, select, & use of various tools, equipment & software. 4. Operate, control different machines & equipment. 5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers in 14/Unit 1 25 and 15/Unit 2 25 and 15/Unit 3 and 15/Unit 4 and 15/	Aim: To	impart practical know	ledge in Work Sh	op/Lab related with course of study.			
1. Know basic Surface Preparation Processes. 2. Read and interpret Print Production Planning. 3. Identify, select, & use of various tools, equipment & software. 4. Operate, control different machines & equipment. 5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers throughout the semester where Marks allotted for assessment of Sessional work undertaken in 14/Unit 1 25 and 15 and 16 and 1	Objectiv	ve: Student will able to					
2. Read and interpret Print Production Planning. 3. Identify, select, & use of various tools, equipment & software. 4. Operate, control different machines & equipment. 5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the Teachers throughout the semester where marks allotted for assessment of Sessional work undertaken in 14/Unit 1 05/Unit 2 05/Uni	Sl. No.						
3. Identify, select, & use of various tools, equipment & software. 4. Operate, control different machines & equipment. 5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the Teachers throughout the semester where Marks allotted for assessment of Sessional work undertaken in 14/Unit 1 05/Unit 2 25 Notebook – 10, & Attendance – 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the End of the Third Semester Of-Junit 3 40/Unit 4 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.	Know basic Surface P	reparation Proces	sses.			
4. Operate, control different machines & equipment. 5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 marks is to be carried out by the teachers Hrs./Unit 14/Unit 1 25 and the semester where marks allotted for assessment of Sessional work undertaken in Each semester is 25. Distribution of Marks in 3® Semester: Performance of Job- 10; Laboratory Notebook – 10, & Attendance – 05. External Assessment (End Semester Exam) of 50 marks shall be held at the end of the Third Semester Of-/unit 3 25 of-/unit 3 25 of-/unit 3 30 is to be set by lottery system. Distribution of Marks: On Spot Job – 20; Viva-Voce – 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	2.	Read and interpret Print Production Planning.					
5. Inspect the job for specified dimensions. 6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the Teachers throughout the semester where marks allotted for assessment of Sessional work undertaken in Each semester is 25. Distribution of Marks in 3 RD Semester: Performance of Job– 10; Laboratory Notebook – 10, & Attendance – 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the end of the Third Semester on the entire syllabil of . One Job Per Student from any one Of the Jobs done is to be performed. Job is to be set by Lottery system. Distribution of Marks: On Spot Job – 20; Viva-Voce – 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	3.	Identify, select, & use of various tools, equipment & software.					
6. Produce jobs as per specified dimensions. 7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers throughout the semester where marks allotted for assessment of Sessional work undertaken in Each semester is 25. Distribution of Marks in 3 ^{®®} Semester: Performance of Job− 10; Laboratory Notebook − 10, & Attendance − 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the end of the Third Semester of John the Entire Syllabiof. One Job per student from any one of the Jobs Done is to be Performed. Job is to be set by Lottery System. Distribution of Marks: On Spot Job − 20; Viva-Voce − 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	4.	Operate, control different machines & equipment.					
7. Adopt safety practices (tools, jobs & personal) while working on various machines. 8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers Throughout the semester where Marks Allotted for assessment of Sessional work undertaken in 14/Unit 1 25 EACH SEMESTER IS 25. DISTRIBUTION Of Marks in 3 ^{RO} SEMESTER: Performance of Job 10; Laboratory Notebook – 10, & Attendance – 05. EXTERNAL ASSESSMENT (END SEMESTER EXAM) of 50 Marks shall be held at the end of the Third Semester On the entire syllabi of . One Job per student from any one of the Jobs Done is to be performed. Job is to be set by Lottery system. Distribution of Marks: On Spot Job – 20; Viva-Voce – 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	5.	Inspect the job for specified dimensions.					
8. Acquaint with the chronological operational processes involving in the jobs. 9. Care & maintenance of the tools & machines. Pre-Requisite: Sl. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers throughout the semester where marks allotted for assessment of Sessional work undertaken in Each semester is 25. Distribution of Marks in 3 RD Semester: Performance of Job- 10; Laboratory Notebook – 10, & Attendance – 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the end of the Third Semester On the Entire Syllabi of . One Job per student from Any one of the Jobs Done is to be Performed. Job is to be set by Lottery System. Distribution of Marks: On Spot Job – 20; Viva-Voce – 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	6.	Produce jobs as per specified dimensions.					
9. Care & maintenance of the tools & machines. Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers throughout the semester where marks allotted for assessment of Sessional work undertaken in 14/Unit 1 25 25 Notebook – 10, & Attendance – 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the end of the Third Semester On the Entire Syllabi of . One Job per student from any one of the Jobs Done is to be Performed. Job is to be Set by Lottery System. Distribution of Marks: On Spot Job – 20; Viva-Voce – 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	7.	Adopt safety practices (tools, jobs & personal) while working on various machines.					
Pre-Requisite: SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers throughout the semester where Marks allotted for assessment of Sessional work undertaken in Each semester is 25. Distribution of Marks in 3 ⁸⁰ Semester: Performance of Job- 10; Laboratory Notebook - 10, & Attendance - 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the end of the Third Semester On the entire syllabil of . One Job per student from any one of the jobs done is to be performed. Job is to be set by lottery system. Distribution of Marks: On Spot Job - 20; Viva-Voce - 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	8.	Acquaint with the chronological operational processes involving in the jobs.					
SI. No. 1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers throughout the semester where Marks allotted for assessment of Sessional work undertaken in 14/Unit 1 25 25 25 25 Notebook – 10, & Attendance – 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the end of the Third Semester on the entire syllabi of . One job per student from any one of the jobs done is to be performed. Job is to be set by lottery system. Distribution of Marks: On Spot Job – 20; Viva-Voce – 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	9.	Care & maintenance	of the tools & mad	chines.			
1. Elementary knowledge of Basic Printing 2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers Throughout the semester where marks allotted for assessment of Sessional work undertaken in Each semester is 25. Distribution of Marks in 3 RD Semester: Performance of Job- 10; Laboratory Notebook - 10, & Attendance - 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the end of the Third Semester On the entire syllabi of . One Job Per student from any one of the Jobs Done is to be Performed. Job is to be set by Lottery system. Distribution of Marks: On Spot Job - 20; Viva-Voce - 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	Pre-Req	uisite:					
2. Process Camera, Block & Plate, Color Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers throughout the semester where marks allotted for assessment of Sessional work undertaken in Each semester is 25. Distribution of Marks in 3 RD Semester: Performance of Job- 10; Laboratory 05/Unit 2 05/Unit 2 05/Unit 3 External Assessment (End Semester Exam) of 50 Marks shall be held at the end of the Third Semester 05/Unit 3 40/Unit 4 ON THE ENTIRE SYLLABI OF . ONE JOB PER STUDENT FROM ANY ONE OF THE JOBS DONE IS TO BE PERFORMED. JOB IS TO BE SET BY LOTTERY SYSTEM. Distribution of Marks: On Spot Job - 20; Viva-Voce - 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	Sl. No.						
Contents: Continuous Internal Assessment of 50 Marks is to be carried out by the teachers Throughout the semester where marks allotted for assessment of Sessional work undertaken in Each semester is 25. Distribution of Marks in 3 RD Semester: Performance of Job- 10; Laboratory Notebook - 10, & Attendance - 05. External Assessment (End Semester Exam) of 50 Marks shall be held at the end of the Third Semester On the entire syllabi of . One Job per student from any one of the Jobs done is to be performed. Job is to be set by lottery system. Distribution of Marks: On Spot Job - 20; Viva-Voce - 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	1.	·		g			
THROUGHOUT THE SEMESTER WHERE MARKS ALLOTTED FOR ASSESSMENT OF SESSIONAL WORK UNDERTAKEN IN EACH SEMESTER IS 25. DISTRIBUTION OF MARKS IN 3 RD SEMESTER: PERFORMANCE OF JOB- 10; LABORATORY NOTEBOOK - 10, & ATTENDANCE - 05. EXTERNAL ASSESSMENT (END SEMESTER EXAM) OF 50 MARKS SHALL BE HELD AT THE END OF THE THIRD SEMESTER ON THE ENTIRE SYLLABI OF . ONE JOB PER STUDENT FROM ANY ONE OF THE JOBS DONE IS TO BE PERFORMED. JOB IS TO BE SET BY LOTTERY SYSTEM. DISTRIBUTION OF MARKS: ON SPOT JOB - 20; VIVA-VOCE - 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	2.	Process Camera, Bloc	k & Plate, Color				
EACH SEMESTER IS 25. DISTRIBUTION OF MARKS IN 3 RD SEMESTER: PERFORMANCE OF JOB- 10; LABORATORY NOTEBOOK - 10, & ATTENDANCE - 05. EXTERNAL ASSESSMENT (END SEMESTER EXAM) OF 50 MARKS SHALL BE HELD AT THE END OF THE THIRD SEMESTER ON THE ENTIRE SYLLABI OF . ONE JOB PER STUDENT FROM ANY ONE OF THE JOBS DONE IS TO BE PERFORMED. JOB IS TO BE SET BY LOTTERY SYSTEM. DISTRIBUTION OF MARKS: ON SPOT JOB - 20; VIVA-VOCE - 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)					-	Marks	
NOTEBOOK – 10, & ATTENDANCE – 05. EXTERNAL ASSESSMENT (END SEMESTER EXAM) OF 50 MARKS SHALL BE HELD AT THE END OF THE THIRD SEMESTER ON THE ENTIRE SYLLABI OF . ONE JOB PER STUDENT FROM ANY ONE OF THE JOBS DONE IS TO BE PERFORMED. JOB IS TO BE SET BY LOTTERY SYSTEM. DISTRIBUTION OF MARKS: ON SPOT JOB – 20; VIVA-VOCE – 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)					•	_	
EXTERNAL ASSESSMENT (END SEMESTER EXAM) OF 50 MARKS SHALL BE HELD AT THE END OF THE THIRD SEMESTER ON THE ENTIRE SYLLABI OF . ONE JOB PER STUDENT FROM ANY ONE OF THE JOBS DONE IS TO BE PERFORMED. JOB IS TO BE SET BY LOTTERY SYSTEM. DISTRIBUTION OF MARKS: ON SPOT JOB – 20; VIVA-VOCE – 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)							
ON THE ENTIRE SYLLABI OF . ONE JOB PER STUDENT FROM ANY ONE OF THE JOBS DONE IS TO BE PERFORMED. JOB IS TO BE SET BY LOTTERY SYSTEM. DISTRIBUTION OF MARKS: ON SPOT JOB – 20; VIVA-VOCE – 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)	EVERNAL ACCREMENT (END SEMECTED EVAN) OF 50 MARKS CHALL BE HELD AT THE END OF THE THROUGH CONFIDENCE			-			
JOB IS TO BE SET BY LOTTERY SYSTEM. DISTRIBUTION OF MARKS: ON SPOT JOB – 20; VIVA-VOCE – 30 Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)					40/01111 4		
Unit: 1,2,3 &4 TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)							
TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)		DISTRIBUTION		•			
		• •					
Practical Class – 64 hrs/16 weeks & Evaluation 4 hrs/1 week		Practical Class – 64 hrs/16 weeks & Evaluation 4 hrs/1 week					
64 Hrs 100		actical class	5 . III 5/ 10 WCCR3	a randon a more week	64 Hrs	100	

OP – I

Sylla	<u>abus f</u>	or SURFACE PREPARATION TECHNIQUE W/SH				
UNIT: 1						
1.0	Line etching, viz					
	1.1	Metal printing and Burning in				
	1.2	Make-ready and Retouching				
	1.3	First etching and powdering				
2.0	Finishing and Mounting for the production of line block					
Unit: 2						
3.0	Finishi	ng and Mounting for the production of line block				
4.0	Making	half-tone print on metal and half-tone etching				
Unit: 3						

- 5.0 Finishing and Mounting for the production of half-tone block
- 6.0 Production of combination block (line and half-tone)

Unit: 4

- 7.0 Production of colour line block (two colour)
- 8.0 Preparation of key drawing and chart making
- 9.0 Photo-polymer plate making by using photo polymer process

Syllabus for PLANOGRAPHIC PRINTING TECHNIQUE W/SHOP - I

Name of the Course: Diploma in Printing Technology						
Course Code:			Semester: Fifth			
Duratio	Duration: : Seventeen weeks/Semester		Maximum Marks: 100			
Teachin	Teaching Scheme Examination Scheme: Continuous Evaluati			tion		
Theory:	Theory: Nil hrs./week Mid Semester Exam.: Nil					
Tutorial	: Nil hrs./week		Attendance & Teacher's Assessment : 50 Marks			
Practica	l: 4 hrs./week		End Semester Exam: 50Marks			
Credit: 3	3					
Aim: To	impart practical know	ledge in Work S	hop/Lab related with course of study.			
Objectiv	ve: Student will able to					
Sl. No.						
1.	Know basic Offset Pri	nting Processes.				
2.	Read and interpret Pr					
3.	Identify, select, & use of various tools, equipment & software.					
4.	Operate, control different machines & equipment.					
5.	Inspect the job for sp	ecified dimensio	ns.			
6.	Produce jobs as per specified dimensions.					
7.	Adopt safety practices (tools, jobs & personal) while working on various machines.					
8.	Acquaint with the chronological operational processes involving in the jobs.					
9.	Care & maintenance	of the tools & ma	achines.			
Pre-Req	uisite:					
Sl. No.						
1.	Elementary knowledg	ge of Basic Printir	ng			
2.	Image Carrier, Ink, &			T	,	
Content			F 50 MARKS IS TO BE CARRIED OUT BY THE TEACHERS	Hrs./Unit	Marks	
			R ASSESSMENT OF SESSIONAL WORK UNDERTAKEN IN EMESTER: PERFORMANCE OF JOB- 10; LABORATORY	14/Unit 1	25	
	K – 10, & ATTENDANCE – 05.	OF WARKS IN 3.ºº SE	EMESTER. PERFORMANCE OF JOB- 10, LABORATORY	05/Unit 2	25	
			05/Unit 3	25 25		
EXTERNAL ASSESSMENT (END SEMESTER EXAM) OF 50 MARKS SHALL BE HELD AT THE END OF THE THIRD SEMESTER ON THE ENTIRE SYLLABI OF . ONE JOB PER STUDENT FROM ANY ONE OF THE JOBS DONE IS TO BE PERFORMED.				40/Unit 4	23	
JOB IS TO BE SET BY LOTTERY SYSTEM.						
	DISTRIBUTION OF MARKS: On Spot Job – 20; VIVA-VOCE – 30					
	Unit: 1,2,3 &4					
TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks)						
Practical Class – 64 hrs/16 weeks & Evaluation 4 hrs/1 week						
				64 Hrs	100	

Syllabus for **PLANOGRAPHIC PRINTING TECHNIQUE W/SHOP** – I

UNIT: 1

- 1.0 Demonstration of Single color sheet-fed offset press arrangements.
- 2.0 Functions of different units of a sheet-fed offset machine.

Unit: 2

- 3.0 Application of different chemicals used in offset press.
- 4.0 Preparation of Fountain solution.

Unit: 3

- 5.0 Mounting plate on plate cylinder with properly adjusted packing.
- 6.0 Fitting of offset blanket checking the levelness of the blanket preparing it for blanket.

Unit: 4

- 7.0 Setting of Dampening (Water Form) rollers.
- 8.0 Setting of Ink Form rollers.

Syllabus for BINDING & FINISHING W/SHOP

Name o	Name of the Course: Diploma in Printing Technology					
Course Code:		S	Semester: Fifth			
Duratio	Duration: : Seventeen weeks/Semester		Maximum Marks: 100			
Teaching Scheme Examination Scheme: Continuous Evaluation			ion			
Theory:	Theory: Nil hrs./week Mid Semester Exam.: Nil					
Tutorial	: Nil hrs./week	Α	Attendance & Teacher's Assessment : 50 N	∕Iarks		
Practica	l: 3 hrs./week	E	nd Semester Exam: 50Marks			
Credit: 2	2					
Aim: To	impart practical know	ledge in Work Sho	pp/Lab related with course of study.			
Objectiv	ve: Student will able to					
Sl. No.						
1.	Know basic Impositio	n/Planning & Post	Press Technology.			
2.	Read and interpret Pi	int Production Pla	nning.			
3.	Identify, select, & use of various tools, equipment & software.					
4.	Operate, control different machines & equipment.					
5.	Inspect the job for sp	ecified dimensions	S.			
6.	Produce jobs as per specified dimensions.					
7.	Adopt safety practices (tools, jobs & personal) while working on various machines.					
8.	Acquaint with the chronological operational processes involving in the jobs.					
9.	9. Care & maintenance of the tools & machines.					
Pre-Req	uisite:					
Sl. No.						
1.	Elementary knowleds	ge of Basic Printing				
2.	Planning & Imposition	1				
Contents: Continuous Internal Assessment of 50 marks is to be carried out by the teachers throughout the semester where marks allotted for assessment of Sessional work undertaken in each semester is 25. Distribution of Marks in 3 RD Semester: Performance of Job- 10; Laboratory Notebook - 10, & Attendance - 05.			Hrs./Unit 1 14/Unit 1 05/Unit 2 05/Unit 3	Marks 25 25 25		
	EXTERNAL ASSESSMENT (END SEMESTER EXAM) OF 50 MARKS SHALL BE HELD AT THE END OF THE THIRD SEMESTER ON THE ENTIRE SYLLABI OF . ONE JOB PER STUDENT FROM ANY ONE OF THE JOBS DONE IS TO BE PERFORMED. JOB IS TO BE SET BY LOTTERY SYSTEM. DISTRIBUTION OF MARKS: ON SPOT JOB – 20; VIVA-VOCE – 30			40/Unit 4	25	
		Unit: 1,2,3 8				
TOTAL PERIODS: 64 (16 Weeks) + 4 (1 Week) = 68 (17 Weeks) Practical Class – 64 hrs/16 weeks & Evaluation 4 hrs/1 week						
	Practical Class –	b4 nrs/16 weeks 8	k Evaluation 4 nrs/1 week	CALICA	100	
I				64 Hrs	100	

Syllabus for **BINDING & FINISHING W/SHOP**

Unit: 1

- 1. Acquaintance with the tools and equipment and their uses
- 2. Performing operations like Counting, Jogging
- 3. Folding by hand
- 4. Acquaintance with the plan of Sewing machine
- 5. Sewing by hand
- 6. Wire Stitching

Unit: 2

- 7. Acquaintance with different styles of Binding
- 8. Preparing a quarter bound book cut flush
- 9. Demo on different kind of end papers
- 10. Case Binding
- 11. Document Binding

Unit: 3

- 12. Preparing a Writing Pad
- 13. Exercise on stitching and cutting machine
- 14. Demo on various Finishing operations such as Ruling, Numbering, Laminating (dry table top) -Miscellaneous operations such as Perforation, Eye-letting, Numbering.
- 15. Demo on Account Book Binding

Unit: 4

- 16. Demo on the Folding machine
- 17. Acquaintance with Die cutting, Scoring, Rotary board cutter.
- 18. Demo on Adhesive/Perfect binding
- 19. Demo on Saddle stitcher cum three knife trimmer complete Binding & Finishing m/c for magazine work

Syllabus for: Professional Practice III(Offset Printing machine Maintenance)

Course Code:		Semester: Fifth	Semester: Fifth			
Duration: : Eight weeks/Semester		ster Maximum Marks: 50	Maximum Marks: 50			
Teaching Scheme Examination Scheme: Continuous Evaluati			ion			
Theory:	: Nil hrs./week	Mid Semester Exam.: Nil				
Tutoria	l: Nil hrs./week	Attendance & Teacher's Assessment : 25 M	Attendance & Teacher's Assessment : 25 Marks			
Practica	al: 3 hrs./week	End Semester Exam:25 Marks				
Credit:	2					
Aim: To	impart practical know	ledge in Work Shop/Lab related with course of study.				
Objecti	ve: Student will able to					
Sl. No.						
1.	Know basic setting of	Feeder, Pneumatic Control.				
2.	Read and interpret O	ffset Printing machine Maintenance & Planning.				
3.	Identify, select, & use of various tools, equipment & software.					
4.	Operate, control diffe	rent machines & equipment.				
5.	Inspect the job for specified dimensions.					
6.	Produce jobs as per specified dimensions.					
7.	Adopt safety practices (tools, jobs & personal) while working on various machines.					
8.	Acquaint with the chronological operational processes involving in the jobs.					
9.	Care & maintenance	of the tools & machines.				
Pre-Rec	quisite:					
SI. No.						
1.	Elementary knowledg	e of Offset Printing Machine Sheet Fed				
2.	Knowledge of Mecha	nical Drives				
Conten	ts: Continuous Inter	RNAL ASSESSMENT OF 25 MARKS IS TO BE CARRIED OUT BY THE TEACHERS	Hrs./Unit	Marks		
		MARKS ALLOTTED FOR ASSESSMENT OF SESSIONAL WORK UNDERTAKEN IN	4/Unit 1	10		
	MESTER IS 25. DISTRIBUTION (OK – 10, & ATTENDANCE – 05.	OF MARKS IN 4TH SEMESTER: PERFORMANCE OF JOB- 10; LABORATORY	4/Unit 2	10		
NOTEBOOK - 10, & ATTENDANCE - 03.				10		
EXTERNAL ASSESSMENT (END SEMESTER EXAM) OF 25 MARKS SHALL BE HELD AT THE END OF THE THIRD			4/Unit 4	10 05		
SEMESTER ON THE ENTIRE SYLLABI OF . ONE JOB PER STUDENT FROM ANY ONE OF THE JOBS DONE IS TO BE			4/Unit5	05		
	PERFORMED. JOB IS TO BE SET BY LOTTERY SYSTEM.					
		OF MARKS: ON SPOT JOB – 10; VIVA-VOCE – 15				
	2.5.11.2511011	Unit: 1,2,3 &4				
	TOTAL PERIODS	s: 24 (8 Weeks) + 3 (1 Week) = 27 (9 Weeks)				
		24 hrs/8 weeks & Evaluation 3 hrs/1 week				
			24 Hrs	50		

Syllabus for: Professional Practice III(Offset Printing machine Maintenance)

PRACTICE ON OFFSET PRINTING MACHINE MAINTENANCE UNIT:

- Setting of Feeder Pneumatic Control, Setting Feeder Ramp, Setting Side Lay,
 Adjusting Detectors, and Front Lay alignment Problems & Solution.
- 2. Cylinder Parallelism, Thumb test, and Filler Gauge Test.
- Roller Setting Form roller with plate (ink band test), Form roller with oscillating (Filler gauge test) – setting of Ductor roller, Connection with toggle mechanism, drive cam, wobble gear.
- 4. Roller setting dampening rollers, motorised dampening.
- 5. Pile Lifting System problems & remedies.
- 6. Impression on/off systems, problem & remedies.
- 7. Pneumatic insertion device and transfer point.
- 8. Delivery gripper setting and transfer point.
- 9. Jogger problems and remedies, delivery pile lowering mechanism.
- 10. Lubrication system.
- 11. Machine timing.