

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA IN PRINTING TECHNOLOGY

Semester: 4

Subject Name **BINDING & FINISHING PROCESSES**

Sr.No	Course content0
1.	EQUIPMENT AND MACHINES. 1.1 Introduction to the binding. 1.2 Equipment and their uses. 1.3 Working principle of various binding machines.
2.	BINDING MATERIALS. 2.1 Materials and their uses 2.2 Materials handling
3	ADHESIVES. 3.1 Adhesives and their uses 3.2 Adhesives preparation. 3.3 Application according to job.
4	SECURING OPERATIONS. 4.1 Introduction. 4.2 Classification of thread securing 4.3 Securing methods for various job 4.4 Different work testing 4.5 Machines for Securing operations 4.6 Interpret various securing operations for various jobs.
5	VARIOUS BINDING JOBS 5.1 Various categories of binding 5.2 Interpret binding types for various jobs.
6	WARE HOUSE OPERATIONS AND MAINTENANCE 6.1 Classifications 6.2 Importance and operations 6.3 Care during each operation
7	FORWARDING OPERATIONS 7.1 Introduction : Inboard and Outboard forwarding. 7.2 Various forwarding operations including covering. 7.3 Care during each operation.
8	DECORATIVE PROCESSES 8.1 Introduction. 8.2 Various types of decorations. 8.3 Execute decorative processes for various jobs.

9	MISCELLANEOUS BINDING 9.1 Various categories of binding jobs. 9.2 Introduction to loose leaf binding. 9.3 Adhesive binding.
10	STATIONARY BINDING 10.1 Introduction, importance and comparison. 10.2 Interpret various operations.
11	REBINDING. 11.1 Introduction and importance. 11.2 Care during operations. 11.3 Binding calculations and comparison of materials.
12	COATING. 12.1 Categories of coatings 12.2 Importance of coatings. 12.3 Waxing – varnishing and laminating etc.

LABORATORY EXPERIENCES

1. Study of tools, machinery, materials used in binding / finishing section, their uses and care in handling.
2. Exercise on jogging, knocking, counting, folding and other warehouse operations.
3. Prepare paste and glue in the workshop.
4. Exercise on various securing operations, stitching, sewing, etc.
5. Preparation of Quarter, Half and Full, bound books, using cloth, rexine & leather (as covering) : covering all important binding operations.
6. Exercise on various finishing techniques : Lettering, Tooling, Blocking, etc.
7. Exercise on various edge decorations. (at least 2)
8. Working on perforators, wire stitching, folding, board cutter, cutting machines etc.
9. Preparation of tear-off pads etc.
10. Prepare ledger Register having spring Back.
11. Exercises on Various types of index cuttings (at least 3)
12. Exercises on various coatings e.g. waxing, varnishing, lamination, hologram etc.
13. Re-binding of old and damaged book, including all operations of “Pulling-to-pieces.”
14. Understand flow-plan of automation / processes line in workshop.

Reference Books:

Sr. No.	Name of Books	Author	Publisher
1.	Practice printing & Binding	Odham	ABC Publication London.
2.	Mudran shastra	P. T. Thakkar, A. J. Patel	Uni. Granth Nirman Board Ahmedabad

3.	Book Binding by Hand	Lawrance Tom	Fabre & Fabre co.
4.	Basic Book Binding	A. W. Lodi	Dover Publication New york
5.	Materials in Printing Process	L. C. Young	Focal Press London New york
6.	Book binding for students	M. P. Kini	Regional Institute of printing, Chennai
7.	Finishing processes in ptg	A. G. Martin	Focal press London / New york.
8.	Binding and Finishing	B. D. Mendiratta	Printek Publication New Delhi 55
9.	Book Binding	Arther V Johnson	Cox & Wyma USA
10.	A Hand Book of printing and packaging Technology	Bishwanath Chakravarty	Galgotia Publication Pvt. Ltd.