

# GUJARAT TECHNOLOGICAL UNIVERSITY

## DIPLOMA IN PRINTING TECHNOLOGY

Semester: 4

**Subject Name PRACTICES IN OFFSET PRINT PRODUCTION**

<b>Sr.No</b>	<b>Course content (Description of Laboratory Experiences)</b>
1	Introduction to various multicolour sheet fed and web fed offset printing machine.
2	Pre make ready & make ready operations for sheet fed and web fed offset printing machines.
3	Setting of various units, press accessories and auxiliary units with Maintenance and Lubrication of multicolour sheet fed and web fed offset printing machines.
4	Single colour Offset printing of line work job .
5	Single colour Offset printing of half tone job .
6	Graph sheet printing & Registration practice in Offset Printing machine.
7	Single colour Offset printing of Solid Image Job .
8	Single colour Book publication Form Printing in Offset machine. (Half sheet work)
9	Single colour Book publication Form Printing in Offset machine. (Sheet work)
10	Two colour (Duo tone) Job printing with registration in Offset machine. (Calendar Printing,etc.)
11	Multi colour (Four colour) Job printing in Offset machine.
12	Industrial visit and Report. Demonstration of ( 1 ) Metal Decorating press (2 ) C.T.P. Technology. ( 3 ) Digital Printing Technology ( 4 ) Offset Pad Printing Technique.

### **NOTES :**

1. Term work report content of each experience should also include following.
  - a. Experience description / data and objectives.
  - b. Steps / Process description to execute experience.
  - c. Observations.
2. Term work content of industrial visit report should also include following.
  - a. Brief details of industry visited.
  - b. Type, location, products, rough layout, human resources, etc of industry.
  - c. Details, description and broad specifications of machineries / processes observed.
  - d. Safety norms and precautions observed.
  - e. Student's own observation on Industrial environment, culture and attitude.
  - f. Any other details / observations asked by accompanying faculty.

### **Reference Books:**

<b>Sr. No.</b>	<b>Name of Books</b>	<b>Author</b>	<b>Publication</b>
1.	Machine Printing	W.R. Durraut C. W. Meacock R. F. Whitworth	Focal Press London/ New York
2.	Lithographer`s Manual	Charles Sharpwers	G.A.T.F.
3.	A hand book of Printing and Packaging	Bishwanath Chakrawarty	Galgotia & sons New Delhi
4.	Advance Press Manship	C. W. Latham	G. A. T. F.
5.	Web offset press tech.	David & Crouaw	G. A. T. F.
6.	A hand book of Web Printer	W. R. Darrant	Focal Press London
7.	Lithographers manual	R. F. Reed	G. A. T. F
8.	Web offset press troubles	--do--	--do--
9.	A manual of Lithographic Press Operating	A.S. Porter	Lithographic Technical Services U.K.
10.	What the Lithographers should know about ink	R. F. Reed	G A T F. Pittsburg