

**RAJIV GANDHI PROUDYOGIKI VISHVAVIDYALAYA (DIPLOMA WING)**

**BHOPAL T02 DIPLOMA IN TEXTILE TECHNOLOGY**

**PART A:- PROCESS OF CURRICULUM DEVELOPMENT**

**LIST OF IDENTIFIED PROFESSIONAL ROLES**

1. To apply knowledge of mathematics, science, and engineering.
2. To design and conduct experiments, as well as to analyze and interpret data.
3. To design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability.
4. To function on multidisciplinary teams.
5. To identify, formulate, and solve engineering problems.
6. To understand professional and ethical responsibility.
7. To communicate effectively.
8. To understand the impact of engineering solutions in a global, economic, environmental, and societal context.
9. To engage in lifelong learning.
10. To use the techniques, skills, and modern engineering tools necessary for engineering practice.

## **LOs FORMATION**

**COURSE NAME: - WEAVING- 1 (402)**

**(Total 100 Hrs. , Total 100 Marks)**

### **List of COs and Los**

**CO1: To understand the process of winding and warping (20Hrs, 20 marks)**

LO1: To understand the machines and process of winding. (10 Hrs., 10 Marks)

LO2: To understand the machines and processes of warping (10 Hrs., 10 Marks)

**CO2: To understand the processes of sizing and drawing-in. (20Hrs, 20 marks)**

LO1: To understand the machines and process of sizing. (10 Hrs., 10 Marks)

LO2: To understand the process and equipment of drawing-in and pirn winding. (10 Hrs., 10 Marks)

**CO3: To understand the process and attachments of shedding (dobby and jacquard)  
(20Hrs, 20 marks)**

LO1: To understand the process and attachment of Dobby shedding (10 Hrs., 10 Marks)

LO2: To understand the process and attachment of jacquard (10 Hrs., 10 Marks)

**CO4: To Understand the processes multiple box and warp stop motion.  
(20Hrs, 20 marks)**

LO1: To understand the processes of multiple Box motion. (10 Hrs., 10 Marks)

LO2: To understand the processes of warp stop motion and weft replenishing motion (10 Hrs., 10Marks)

**CO5: To understand the different calculation related to weaving.  
(20 Hrs, 20 marks)**

LO1: To understand the calculation related to warping and sizing  
(10 Hrs, 10 Marks)

LO2: To understand the calculation related to cloth and cloth settings (10Hrs,10 Marks)

**PART B:- CURRICULUM OF TEXTILE TECHNOLOGY**

RGPV (Diploma Wing ) Bhopal			COURSE PLAN				Format -2	Sheet No. 1/1	
Course Name		<b>WEAVING-1</b>				Semester		<b>FOURTH</b>	
Paper code-7402	TEXTILE TECHNOLOGY		Course Code/	402	No. of COs	05	No. of LOs	10	
Total Hrs. of Teaching Learning	100	Total Marks	100	Total no. of Assessments	10	Types of Assessments	No. of External Assessments	NIL	
DESCRIPTION OF OUTCOMES							T-L Hrs.	Max. Marks	
CO 01		To understand the process of winding and warping					22		
Los	T0240211	To understand the machines and process of winding.					06	10	
	T0240212	To understand the machines and processes of warping					08	10	
	T0240213	<b>To draw and explain the parameters of winding and warping motion(psychomotor domain )</b>					06	07	
CO 02		<b>To understand the processes of sizing and drawing-in.</b>					22	20	
Los	T0240221	To understand the machines and process of sizing.					06	10	
	T0240222	To understand the process and equipment of drawing-in and pirn winding					08	10	
	T0240223	To draw and explain the parameters of sizing, drawing-in and pirn winding motion(psychomotor domain )					06	07	
CO 03		<b>To understand the process and attachments of shedding (dobby and jacquard)</b>					22	20	
Los	T0240231	To understand the process and attachment of Dobby shedding					06	10	
	T0240232	To understand the process and attachment of jacquard					08	10	
	T0240233	To draw and explain the parameters of doobby and jacquard mechanism (psychomotor domain )					06	06	
CO 04		<b>To Understand the processes multiple box and warp stop motion.</b>					22		
Los	T0240241	To understand the processes of multiple Box motion					06	10	
	T0240242	To understand the processes of warp stop motion and weft replenishing motion					08	10	

	T0240243	To sketch and explain the mechanism of warp stop motion and weft replenishing motion	06	15
CO 05		<b>To understand the different calculation related to weaving.</b>	22	20
Los	T0240251	To understand the calculation related to warping and sizing	06	10
	TO240252	To understand the calculation related to cloth and cloth settings	08	10
	TO240253	To calculate the production, efficiency and parameters of warping, sizing and cloth. (psychomotor domain )	06	15

RGPV (DIPLOMA WING) BHOPAL		OCB CURRICULUM FOR THE COURSE		FORMAT- 3	Sheet No. 1/3
Branch	TEXTILE TECHNOLOGY		Semester	FOURTH	
Course Code/Paper Code-7402	402	Course Name	WEAVING-1		
Course Outcome 1	Student will be able to explain process of winding and warping			Teach Hrs	Marks
Learning Outcome T0240211	Student will be able to explain the working of machines and process of winding.			06	10
CONTENT	Functions , parts, passage of winding machines and auto coner. Splicer, auto doffing system and clearer				
Method of Assessment	Internal -Paper pen test				
Learning Outcome T0240212	Student will be able to explain the working of the machines and processes of warping			08	10
CONTENT	Objects and typres of warping machines. HS beam warping machine, modern sectional warping machine				
Method of Assessment	External -Paper pen test				
Learning Outcome T0240213	Student will be able to manipulate the parameters of winding and warping motion(psycho motor domain )			6	07
CONTENT	Demonstration of machinery				
Method of Assessment	Internal – lab assessment				
Course Outcome 2	Student will be able to demonstrate sizing and drawing-in.				
Learning Outcome T0240221	Student will be able to demonstrate the working of machines and process of sizing.			06	10
CONTENT	The study of hank sizing and mulicylidrical sizing machine, size box, drawing unit, measuring and marking unit and sizing ingredients				
Method of Assessment	External -Paper pen test				
Learning Outcome T0240222	Student will be able to explain the working of equipment of drawing-in and pirn winding			06	10
CONTENT	Manual drawing-in, semi automatic and automatic reaching in and warp tying process. Study of weft prepreation and advantages of rewound weft				

Method of Assessment	Internal -Paper pen test		
Learning Outcome T0240223	To draw and explain the parameters of sizing, drawing-in and pirn winding motion(psycho motor domain )	06	07
CONTENT	Demonstration of machinery		
Method of Assessment	Internal – lab assessment		
Course Outcome 3	Student will be able to explain the process and attachments of shedding (dobby and jacquard)		
Learning Outcome T0240231	Student will be able to describe the working of the process and attachment of Dobby shedding	6	10
CONTENT	Study of doobby, scope , types, classification and mechanism, climax, paper doobby and causes of Jack missing		
Method of Assessment	Internal -Paper pen test		
Learning Outcome T0240232	Student will be able to explain the process and attachment of jacquard	8	10
CONTENT	Types, capacity and study of jacquard. Study of electronic jacquard		
Method of Assessment	External -Paper pen test		
Learning Outcome T0240233	Student will be able to manipulate parameters of doobby and jacquard mechanism (psycho motor domain)	6	6
CONTENT	Demonstration of machinery		
Method of Assessment	Internal – lab assessment		
Course Outcome 4	Student will be able to describe processes multiple box and warp stop motion.		
Learning Outcome T0240241	Student will be able to describe processes of multiple Box motion		10
CONTENT	Importance and types of multiple box motion,Eccle's Box motion and card saving device		
Method of Assessment	External -Paper pen test		
Learning Outcome T0240242	Student will be able to describe of warp stop motion and weft replenishing motion	8	10

CONTENT	Study of warp stop motion and drop wires. Study of weft replinishing motion, weft cutter and weft fork motion		
Method of Assessment	External -Paper pen test		
Learning Outcome T0240243	Student will be able to sketch and explain the mechanism of warp stop motion and weft replinishing motion	6	15
CONTENT	Demonstration of machinery		
Method of Assessment	External – laboratory assessment		
Course Outcome 5	Student will be able to <b>calculate different parameters related to weaving.</b>		
Learning Outcome T0240251	Student will be able to <b>calculate parameters related to</b> warping and sizing	06	10
CONTENT	calculation related to warping and sizing like production, efficiency, beam count, number of beams required,section width , section length, size percentage, tape length, count of size etc.		
Method of Assessment	External-Paper pen test		
Learning Outcome T0240252	Student will be able to <b>calculate parameters related to</b> cloth and cloth settings	08	10
CONTENT	Calculations related to cloth like- warp weight, weft weight, gsm, cost of cloth, cloth settings etc		
Method of Assessment	External -Paper pen test		
Learning Outcome T0240253	To Student will be able to <b>calculate to</b> the quantity of warp and weft required for a cloth with given parameters (psycho motor domain )	6	15
CONTENT	Demonstration of machinery		
Method of Assessment	External – laboratory assessment		

