RGPV (DIPLOMA WING) BHOPAL		OCB CURI COURSE	OCB CURRICULUM FOR THE COURSE		FORM	IAT- 3	Sheet No. 1/3
Branch	TEXTILE TE	CHNOLOGY		Semester	FIFTH		
Course Code	501	Course Name		SPINNING-II			
CourseOutcome 1	To understan spinning tech		doub	oling machine and pr	ocess of	Teach Hrs	Marks
Learning Outcome 1	To understand the concepts, principles and details of TFO machine 10					10	
CONTENT	The principles of two for one twisting, passage of material through the machine, important details and the production calculation of TFO						
Method of Assessment	Paper pen test						
Learning Outcome 2	To understand the concepts, principles and details of doubling machine and novelty yarns					10	
CONTENT	The principles of plied yarn and doubling, s and z twist, passage of material through the machine, important details and double yarn calculations						
Method of Assessment		Paper pen test					
CourseOutcome 2	To understan	·	res of	latest ring spinning			
Learning Outcome 1	To understand the key features of latest spinning preparatory					10	10
	machines						
CONTENT	Study of the processes and machines of latest spinning machines like Rieter's, LMW etc spinning preparation machines (blow room, carding, draw frame, comber and speed frame etc.						
Method of Assessment				Paper pen test			
Learning Outcome 2	To understand the attachments in latest spinning preparatory 10 10 machine					10	
CONTENT	Key features of all the latest spinning preparatory machines like blowroom, carding, drawframe, comber and speed frame, Auto levellers, dedusting machines, heavy part and metal sseperator, two way distributors, linking blow room and cards						
Method of Assessment	Paper pen test						

CourseOutcome 3	To understand the key features of latest ring spinning machines					
Learning Outcome 1	To understand the key features and attachments in latest spinning machine	10	10			
CONTENT	Details of Ring frame automation, details of latest ring frame and attachments like roving stop motion, end break aspirators, piecing devices, automatic doffing etc.					
Method of Assessment	Paper pen test					
Learning Outcome 2	To understand the processing parameters and spin plan preparation 10					
CONTENT	The process control in spinning including the material characteristics like twist, hank, speeds and waste extracted at different stages like lap, sliver, roving and yarn. The spin plan preparation and the number of spindles or machines required at each process.					
Method of Assessment	Paper pen test					
CourseOutcome 4	To understand the rotor spinning processes and machine details					
Learning Outcome 1 CONTENT	To understand the concepts, principles and details of rotor spinning machines Principle of rotor spinning, passage of material through OE spg machine, sliver preparation, fibre opening, fibre transfer, twist insertion,					
Method of Assessment	Paper pen test					
Learning Outcome 2	To understand the processing of material on rotor spinning machine					
CONTENT	Sliver preparation for OE yarn, yarn chatacteristics, calculations of twist and production of rotor spinning machine. Comparison of OE and RF yarn					
Method of Assessment	Paper pen test					
CourseOutcome 5	To understand the air jet spinning and friction spinning machines and processes					
Learning Outcome 1	To understand the principles and key features of air jet spinning machine	10	10			
CONTENT	Principle of operation, concept of high draft, passage of material, properties and uses of air jet spun yarn.					
Method of Assessment	Paper pen test					
Learning Outcome 2	To understand the principles and features of friction spinning machine					

CONTENT	Principle of operation, concept , passage of material, properties and uses of friction
	yarn. Comparison of airjet, rotor and friction yarn
Method of Assessment	Paper pen test

CO 1

LO 3 To sketch the passage of material and calculate the production and efficiency of the TFO machine

CO₂

LO 3 To sketch the passage of material and calculate the production, draft and efficiency of the ring spinning machines

CO 3

LO 3 To calculate the spin plan for thr given quanity and parameters of yarn like number of spindles/machine required at each stage, waste extracted, quantity of material required.

CO 4

LO 3 To sketch the passage of material and calculate the production, draft and efficiency of the rotor spinning machine

CO₅

LO 3 To sketch and discuss the processes and characteristic of rotor, airjet and friction spun yarn.