Course Type	Course Code	Name of Course	L	Т	Р	Credit
DP	MMC210	HYDRAULICS & PNEUMATICS LAB	0	0	2	02

1	To study the construction and operation of different hydraulic components mentioned			
	below: Gear pump, Piston pump and Vane pump; Direction control valve (DCV), Flow			
	control valve and Pressure control valve			
2	To understand the making of different hydraulic circuits in the hydraulic trainer			
3	To develop the hydraulic regenerative system on hydraulic trainer and estimate the			
	effectiveness of regeneration.			
4	To develop the sequential circuit and study its operation limited by clamping pressure.			
5	To perform extension and retraction of the cylinder upon the operation of push-button			
	with and without latching.			
6	To perform limited extension and retraction of cylinder using proximity switch.			
7	To perform rapid advance cum meter-out extension and uniform retraction using two			
	proximity sensor.			
8	To develop a hydraulic sequential system using proximity and pressure switch.			
9	To perform rapid advance cum meter-out extension and uniform retraction using two			
	proximity sensors.			
10	To develop a hydraulic system using an accumulator and study it's functioning.			
11	To develop a pneumatic system using FR unit, DCVs, bypass throttle valve, quick			
	exhaust valve, time delay valve, and Pneumatic cylinder.			
12	Demonstration of operation of different hydraulic transmission systems used in			
	industries.			