

Department : **Mechanical**

Year : **2016-2017**

Group No: **15**

Guided By

**PROF. H. C. PATEL**

## **SMT. S. R. PATEL ENGINEERING COLLEGE, UNJHA**

### **Project Title**

### **DESIGN AND DEVELOPMENT HYDRAULIC TRAINING KIT**

#### **Abstract:**

In modern days, all area of industries and for study used in so we are creates the hydraulic kit our collage study for student. We are create the hydraulic with the help of collage funding and hydraulic kit used components is direction control valve, pressure relief valve, storage tank, compressor etc. and main motive development of hydraulic kit is the help of student for training.

The hydraulics trainer kit should contain all the hydraulic elements needed for simulating various hydraulics circuits, both simple and advanced. The training kit should be useful for imparting practical knowledge for the students about the fundamentals of hydraulic system, functioning of various hydraulic elements, different application circuits, design and function of a hydraulic system – both basic and advanced, design and function of valves, basic circuit diagram on practical applications, hydraulic controls with pilot operated valves, hydraulic reservoirs, flow distributors, commissioning and maintenance of hydraulic systems.

The kit should be supportable with textbook, exercises with solutions, transparencies videos, workbook with exercises, cutaway models, magnetic symbols etc.

The components should be capable of being mounted on an appropriate Profile plate/Mounting Board with grooves for secure and flexible positioning so that the components can be clamped firmly, quickly and safely. The components supplied should be industrial components.

All hydraulic components should be with self-closing, quick connector, safety clamping and quick plug-in locking system for Profile plate/Mounting Boards.

#### **Prepared By:**

<b>Sr. No.</b>	<b>Student Name</b>	<b>Enrollment No</b>
1	KINNARI KAPADIYA	120780119090
2	HARDIK BAROT	140783119002
3	HIREN PATEL	140783119036
4	RONAK PATEL	140783119038

