

**Department of
Mechanical
Engineering**



Hands on Training-Summer School:
Summary Report with Outcome

All students of Second year and Third year Mechanical Engineering Department were offered a summer school (**Hands-on Training Programme**) for 4 weeks that is usually be scheduled just after University exams. This programme is very much beneficial for each student from practical learning point of view as participants perform operations, assemble and disassemble of machines by themselves. This programme was considered as the four weeks summer training and participants were awarded by certificates.

After completion of this training programme students will be able to:

1. Assemble and disassemble different parts of lathe machine to understand working of the components.
2. Perform different machining operation on Lathe Machine, Milling Machine, Drilling Machine, Grinding Machine, Shaping and Slotting Machine.
3. Understand types and specification of Machine Tools
4. Understand Different types of welding
5. Perform different welding operations.
6. Perform different types of testing on specimen.
7. Understand Basic concept of IC Engines.
8. Testing of different types of engines using alternative fuels engines.
9. Maintenance of different parts of engines.
10. Perform assembly of different parts of an IC Engine.
11. Understand technical drawing codes.
12. Draw Orthographic projection and Isometric views and Assembly drawing of mechanical components.

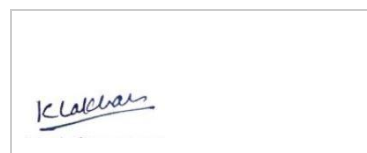
K. L. A. Khan

Dr. K. L. A. Khan
HOD (ME)

SUMMER SCHOOL 2018

LIST OF STUDENTS of HANDS-ON TRAINING PROGRAMME

S. No	Name of Student	Roll No.	Year	Receipt No.	Course fee
1	Vinayak Rao	1502940182	3	46135	1000/-
2	Ankit Singh	1602940025	2	46136	1000/-
3	Ashish kr. Dubey	1602940035	2	46137	1000/-
4	Mayank Chaudhary	1602940071	2	46138	1000/-
5	Vishal Razoria	1502940184	3	46139	1000/-
6	Krishna Swarup	1502940080	3	46140	1000/-
7	Ashish Jaiswal	1502900032	3	46141	1000/-
8	Manish Kumar	1602940069	2	46142	1000/-
9	Rishabh Raj	1602940123	2	46143	1000/-
10	Ashish Kr. Singh	1602940036	2	46144	1000/-
11	Prateek Verma	1602940101	2	46145	1000/-
12	Shivam Yadav	1602940156	2	46146	1000/-
13	Shubham Sharma	1602940161	2	46147	1000/-
14	Shiv Shanker Seth	1602940158	2	46148	1000/-
15	Nikunj Goel	1502940098	3	46149	1000/-
16	Sagar Goel	1502940132	3	46150	1000/-
17	Rishabh Upadhyay	1502940122	3	46151	1000/-
18	Manish Kumar	1502940088	3	46152	1000/-
19	Pulkit Agrawal	1602940106	2	46153	1000/-
20	Manish Singh	1502940090	3	46154	1000/-
21	Harshita	1502940062	3	46155	1000/-
22	Gaurav Varshney	1702940908	2	46156	1000/-
23	Lakhan Pratap	1702940913	2	46157	1000/-
24	Nitin Sharma	1702940918	2	46158	1000/-
25	Kartikey Kumar	1602940055	2	46159	1000/-
26	Hardik Tyagi	1602940049	2	46160	1000/-
27	Chandan Soni	1502940069	3	46161	1000/-
28	Krishnan	1502940081	3	46162	1000/-
29	Harsh Kumar	1602940052	2	46163	1000/-



Dr. K.L.A. Khan, HOD-ME



Summer School on Pneumatics: **Summary Report with Outcome**

INTRODUCTION

A pneumatic system is a collection of interconnected components using compressed air to do work for automated equipment. Examples can be found in industrial manufacturing, a home garage or a dentist office. This work is produced in the form of linear or rotary motion. The compressed air or pressurized gas is usually filtered and dried to protect the cylinders, actuators, tools and bladders performing the work. Some applications require a lubrication device that adds an oil mist to the closed pressurized system

COURSE CONTENTS

1. Properties of compressed air and its areas of application.
2. Basic pneumatics system and compressed air theory.
3. Compressed air production, purification and distribution.
4. Explanation of different air filtering, regulation and lubrication techniques.
5. Construction, principle of operation of Actuators and Directional Control valves.
6. Ancillary pneumatic equipment
7. Symbols-ISO
8. Reading/designing of control schematics
9. Practical exercises with troubleshooting.

Course Outcome

- Understand the production and purification of compressed air.
- Know about the construction and application of components in Pneumatic Control Systems.
- Identify the use of control schematics.
- Design and conduct the troubleshooting of Pneumatic circuits.

K. L. A. Khan

Dr. K. L. A. Khan
HOD (ME)

SUMMER SCHOOL ON PNEUMATICS-2018

LIST OF STUDENTS

S. No.	NAME	UNIVERSITY ROLL NO.	MOBILE NO.	BRANCH	SEM	SEC
1	Pulkit Agarwal	1602940106	9897076233	ME	IV	B
2	Manik Kaushik	1602940067	8958063655	ME	IV	B
3	Ashish chaudhary	1602940034	9012895964	ME	IV	A
4	Shubham	1702940926	8505933423	ME	IV	A
5	Aakash sharma	1602940001	8750001868	ME	IV	A
6	Akhilesh	1602940018	7078263232	ME	IV	A
7	Lalit kirola	1602940063	8755806748	ME	IV	A
8	Ayush garg	1502940045	9058691214	ME	VI	A
9	Rajeev Ranjan	1602940115	9451035414	ME	IV	B

K.L.A. Khan

Dr. K.L.A. Khan, HOD-ME