

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 dissemble 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 dissemble 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.

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

SUMMER SCHOOL -2019

S.NO	ROLL NO	STUDENT NAME	SEMESTER	06-10-2019	06-11-2019	06-12-2019	13/06/2019	14-06-2019
1	1702940189	Yashvant kumar	IV	P	P	P	P	P
2	1702940188	Yash srivastava		P	P	P	P	P
3	1702940174	Varun saini		P	P	P	P	P
4	1702940029	Arman Siddiqi		A	A	P	P	P
5	1702940144	Shiv Kumar		P	P	P	P	P
6	1702940135	Rudraksh Kaushik		P	P	P	P	P
7	1702940133	Ritik Sharma		P	P	P	P	P
8	1702940182	Vishal kumar gupta		P	P	P	P	P
9	1702940142	Shashank verma		P	P	P	P	P
10	1702940140	Saurabh kumar maurya		A	P	P	P	P
11	1702940053	Harsh kumar		P	P	P	P	P
12	1802940924	Yash semwal		P	P	P	P	P
13	1602940014	Akanksha Bhatt	VI	P	P	P	P	P
14	1602940113	Rajat kumar		P	P	P	P	P
15	1602940119	Ram asare singh		P	P	P	P	P
16	1602940118	Rakshi kumar		P	P	P	P	P
17	1602940108	Rabeesh kumar singh		P	P	P	P	P
18	1702940905	Ankit Baranwal		P	P	P	P	P
19	1702940929	Sumit Singh		P	P	P	P	P
20	1702940901	Ahatesham Ahmad		A	P	P	P	P

K.L.A. Khan

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Name of the Course
Summer School on Automobile Engines
Summary Report with Outcome

On completion of the course, students will be able to

1. Compare and select the proper automotive system for the vehicle
2. Analyse the performance of the vehicle
3. Diagnose the faults of automobile vehicles
4. Apply the knowledge of EVs, HEVs and solar vehicles

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HOD (ME)

List of Summer School Students

S.N.	NAME	Roll No.	YEAR	SECTION
1	Rajat Kumar	1602940113	3	B
2	Himanshu Sharma	1702940910	4	C
3	Sumit kr. Sharma	1702940928	4	C
4	Vishal Supariya	1602940185	3	C
5	Vikas Gautam	1602940179	3	C
6	Vyasmuni Prajapati	1602940188	3	C
7	Sameer Mishra	1602940138	3	C
8	Vishvendra Chaudhary	1602940186	3	C
9	Mohd. Fahad	1602940079	3	B
10	Krishn Gopal	1602940060	3	B
11	Keshav Kumar	1602940057	3	A
12	Harsh Gupta	1602940050	3	A
13	Mayank Sharma	1602940073	3	B
14	Mukul Dev	1602940081	3	B
15	Manish Kr. Sharma	1602940065	3	B
16	Ashish Chaudhary	1602940034	3	A
17	Bhavesk Kumar	1602940039	3	A
18	Aprajita	1602940031	3	A
19	Akhilesh	1602940018	3	A
20	Javed	1602940054	3	A
21	Mayank Chaudhary	1602940071	3	B



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.

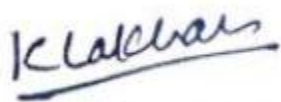
K. L. Khan

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

WINTER SCHOOL ON PNEUMATICS-2018-19

LIST OF STUDENTS

S. No.	NAME	BRANCH
1	Raksha Singh	ME
2	Chandra Shekhar Vishwakarma	ME
3	Rakshit Bhadana	ME
4	Ramgopal	ME
5	Krishna Gopal	ME
6	Gorav Varshney	ME
7	Lakhan Pratap Raghav	ME
8	Abhishek Kr. Tiwari	ME
9	Abhishek Pratap Singh	ME
10	Abhishek Trivedi	ME
11	Prajwal Singh	ME
12	Sujit Pratap	ME
13	Rajeev Ranjan	ME
14	Shiv Shankar Seth	ME



Dr. K.L.A. Khan

HOD ME



Name of the Course
**Hand's on Training on Mercedes-Benz and
BMW's Engines and Transmissions**

Summary Report with Outcome

After the completion of the course, the students are familiar with:

- ☐ Working of Common Rail Diesel engines of BMW and Mercedes Benz
- ☐ Working of GDI engine of Mercedes Benz
- ☐ Working of Manual transmission of Maruti Suzuki and CVT of Honda Cars
- ☐ Working of Automatic transmission of Mercedes Benz and BMW

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HOD (ME)

ROLL NO.	AMOUNT	DATED	PAYMENT PARTICULAR	COURSE	NAME	FATHER'S NAME	BRANCH	YEAR	RECEIPT NO	STATUS
1602940904	5000	15-01-2019	PAYTM7074219707	ADAM SHORT COURSE	AKASH GUPTA	RAKESH GUPTA	ME	4RT	P2	
1602940919	5000	15-01-2019	PAYTM7074132188	ADAM SHORT COURSE	SHADAB RAHMANI	SIFTAIN REHMANI	ME	4RT	P3	
1502940146	5000	15-01-2019	PAYTM7075608813	ADAM SHORT COURSE	SHIVAM RAI	SHIVNARAYAN RAI	ME	4RT	P4	
1702940041	5000	16-01-2019	PAYTM7082672873	ADAM SHORT COURSE	BADAL SINGH	NAREDNRA SINGH	ME	2ND	P5	
1602940018	5000	16-01-2019	PAYTM7083382523	ADAM SHORT COURSE	AKHILESH	CHITRASEN AGRAWAL	ME	3RD	P6	
1502940175	5000	16-01-2019	PAYTM7084695473	ADAM SHORT COURSE	VENKATESH YADAV	MUKESH KUMAR YADAV	ME	4RT	P7	
1702940089	5000	16-01-2019	PAYTM7085489894	ADAM SHORT COURSE	MRADUL	YASHBIL SINGH	ME	2ND	P8	
1602940117	5000	16-01-2019	PAYTM7085061399	ADAM SHORT COURSE	RAKSHIT BHADANA	RAVINDRA SINGH	ME	3RD	P9	
1702921055	5000	17-01-2019	PAYTM7092514737	ADAM SHORT COURSE	HARSHIT SINGH	ARVIND KUMAR SINGH	EN	2ND	P10	
1702940033	5000	17-01-2019	PAYTM7093698813	ADAM SHORT COURSE	ARVIND GUPTA	AMARJEET GUPTA	ME	2ND	P11	
1702932021	5000	18-01-2019	PAYTM7106818856	ADAM SHORT COURSE	OM PRAKASH SRIVASTAVA	RAJANI KANT SRIVASTAVA	EI	2ND	P12	LEFT
1702940184	5000	18-01-2019	PAYTM7106877208	ADAM SHORT COURSE	VISHNU KUMAR	CHARAN SINGH	ME	2ND	P13	
1602921097	5000	19-01-2019	PAYTM7107497247	ADAM SHORT COURSE	PAKIKANS KASSI	SANJEEV KUMAR KASSI	EN	3RD	P14	
1702940072	5000	19-01-2019	PAYTM7108472361	ADAM SHORT COURSE	KARTIKAY RISHI	RISHI SEHGAL	ME	2ND	P15	
1702940152	5000	19-01-2019	PAYTM7110075291	ADAM SHORT COURSE	SHYAM DWIVEDI	BYAS DWIVEDI	ME	2ND	P16	
1702940061	5000	19-01-2019	PAYTM7110423752	ADAM SHORT COURSE	HIMANSHU KAUSHIK	ASHOK KUMAR	ME	2ND	P17	
1702940043	5000	19-01-2019	PAYTM7110423794	ADAM SHORT COURSE	BHUVANESH AGRAWAL	CHANDRABHAN	ME	2ND	P18	
1602940156	5000	19-01-2019	PAYTM7114458257	ADAM SHORT COURSE	SHIVAM YADAV	RAMESH BABOO	ME	3RD	P19	
1602940163	5000	19-01-2019	PAYTM7115545027	ADAM SHORT COURSE	SIDDHARTH CHAUDHARY	SHRI RISHI PAL SINGH	ME	3RD	P20	
1602921035	5000	20-01-2019	PAYTM7123095449	ADAM SHORT COURSE	ANURAG SHUKLA	UMA KANT SHUKLA	ME	3RD	P21	
1702940117	5000	22-01-2019	PAYTM7136446734	ADAM SHORT COURSE	RAHUL SINGH	VISHAL SINGH	ME	2ND	P22	
1602940060	5000	22-01-2019	PAYTM7136848353	ADAM SHORT COURSE	KRISHNA GOPAL	VIRENDRA PRASAD	ME	3RD	P23	
1702940034	5000	22-01-2019	PAYTM7137855498	ADAM SHORT COURSE	ARVIND KUMAR	SURENDRA YADAV	ME	2ND	P24	
1602940158	5000	22-01-2019	PAYTM7138332496	ADAM SHORT COURSE	SHIVSHNKAR SETH	JAGDISH SETH	ME	3RD	P25	
1702940026	5000	23-01-2019	CH.NO. 000067	ADAM SHORT COURSE	ANUPAM MISHRA	KP MISHRA	ME	2ND	P26	
1702940027	5000	23-01-2019	CASH	ADAM SHORT COURSE	ANURAG KUMAR UPADH	ARVIND KUMAR UPADHYAY	ME	2ND	P27	
1602940932	5000	23-01-2019	PAYTM7147527189	ADAM SHORT COURSE	VARNIT SRIVASTAVA	V P SRIVASTAVA	ME	4RTH	P28	
1702940127	5000	24-01-2019	PAYTM7157172860	ADAM SHORT COURSE	RISHABH ARORA	AJAY KUMAR ARORA	ME	2ND	P29	
1802940917	5000	25-01-2019	PAYTM7164249422	ADAM SHORT COURSE	MOIN KHAN	AFTAB ALAM	ME	2ND	P30	
1502900032	5000	05-02-2019	PAYTM7261751772	ADAM SHORT COURSE	ASHISH JAISWAL	SIDHNATH JAISWAL	ME	4RT	P31	
1502940044	5000	08-02-2019	PAYTM7295753299	ADAM SHORT COURSE	AYUSH AGARWAL	ARUN KR. AGARWAL	ME	4RT	P32	
1602940801	5000	08-02-2019	paytm7297390697	ADAM SHORT COURSE	KRISHNA KANT YATI	ANIL KUMAR YATI	ME	4RT	P33	

Ani Bani