ENGINEERING COLLEGE
GREATER NOIDA | SINCE 2006

I.T.S Engineering College
A unit of Durga Charitable Society
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DVV Clarification Information

Criterion :1	**Curricular Aspects**
Key Indicator:1.2	**Academic Flexibility**
Metric 1.2.1	Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

INDEX

Value Added Programs Conducted at Institute Level

I.T.S ENGINEERING COLLEGE
GREATER NOIDA
(A NAAC Accredited Engineering College)

The Education Group
Ghaziabad • Greater Noida
(Estd. : 1995)

Department of Mechanical Engineering

Ref No.: ITS/MED/ODD/002/2019-20 **Date:** 17/07/2019

Notice

This is to inform you all that there will be a CoE-SMC Pneumatics Training from 22/07/2019 to 12/11/2019 scheduled from 1:30 P.M. to 3:10 P.M. in Department's CoE-SMC Pneumatics Lab for 3rd year students. This is value added course of 40 hours duration and it will be beneficial for Mechanical Engineering students for improving their career profile. Certificates will not be provided to students for session 2019-20, as it is an internal training but the students will be evaluated on various parameters and attendance.

You all are required to attend the SMC Pneumatics Training as it very important for industrial requirements. This training is mandatory for all 5th semester students.

Dr. Sanjay Yadav
(HOD MED)

Head of Department
MECHANICAL ENGINEERING

CC to:

1) Director Office, ITS Engineering College, Greater Noida.
2) Dean Academics, ITS Engineering College, Greater Noida.
3) Faculty of Mechanical Engineering Department.
4) Students of 3rd year Mechanical Engineering Department.

I.T.S ENGINEERING COLLEGE
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(Estd. : 1995)

Department of Mechanical Engineering

Ref No.: ITS/MED/EVEN/002/2019-20 **Date:** 16/01/2020

Notice

This is to inform you all that there will be a CoE-SMC Pneumatics Training from 20/01/2020 to 17/04/2020 scheduled from 1:30 P.M. to 3:10 P.M. in Department's CoE-SMC Pneumatics Lab for 3rd year students. This is value added course of 40 hours duration and it will be beneficial for Mechanical Engineering students for improving their career profile. Certificates will not be provided to students for session 2019-20, as it is an internal training but the students will be evaluated on various parameters and attendance.

You all are required to attend the SMC Pneumatics Training as it very important for industrial requirements. This training is mandatory for all 6th semester students.

Dr. Sanjay Yadav
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Head of Department
MECHANICAL ENGINEERING

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1) Director Office, ITS Engineering College, Greater Noida.
2) Dean Academics, ITS Engineering College, Greater Noida.
3) Faculty of Mechanical Engineering Department.
4) Students of 3rd year Mechanical Engineering Department.

SMC Pneumatics Training Report for Mechanical Engineering

Name of Training : SMC Pneumatics Training for Mechanical Engineering
Duration of training : 20/1/2020 to 16/4/2020
Organized by : Mechanical Engineering Department
Time of training : 3:10 P.M. to 4:50 P.M.
Training Coordinator : Mr. Chetan Dixit, Mr. Kunal Kr. Singh

Training Objective:

1. To familiar with Pneumatic system for the growth of Industrial sector and various useful applications.
2. To understand the basic components of Pneumatic system for the future generation of Automation.
3. To develop the understanding to the Electro-Pneumatic for designing circuits required for low cost automation.

Report:

I.T.S Engineering College organised a SMC Pneumatics Training by **Mechanical Engineering Department** from 20th Jan. 2020 to 16th Apr. 2020, , at our Centre of Excellence of SMC Pneumatics. The Training was coordinated by **Mr. Chetan Dixit & Mr. Kunal Kr. Singh.** Training Coordinators highlighted the need for Automation in modern era. The training for "SMC Pneumatics" conducted in 2 modules for mechanical engineering students. Firstly training was provided on basic pneumatic technology and lastly training on electro- pneumatic technology provided. The training started with an objective type pre-test on pneumatics to evaluate the basic knowledge of students. The trainer explained needs and real time application areas of pneumatics in industries. He started Module 1 with Air production System, air consuming system, properties of gas, air humidity, relative humidity, pressure and flow. He explained the Compressors, types of compressors, compressor accessories, air receiver, air dehydration, air dryers, air distribution and automatic drains. He explained various Filters and Regulators. He explained with cut section models of different Actuators like Linear cylinders, Single acting cylinders, double acting cylinders, Rotary actuators, locking cylinders, rod less cylinders, air chucks etc. He explained various types of Directional Control Valves & 5/2 Valves. He exhibited various types of Auxiliary Valves such as Non-returning valves, flow control valves, quick exhaust valves, shuttle valves, two pressure valves etc. along with valves mounting with ISO symbols and magnetic symbols. The students performed six live exercises like Working of double acting cylinder using 5/2 Valve, Working of 5/2 PB valve, Opening of gate using two safety switches, Working of double acting cylinder using quick exhaust valve etc. under the guidance of trainer on the working stations after proper understanding of these basics.

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The Trainers started Module 2 with Economical and technical aspect of electro-pneumatic systems, needs and applications and Consequences of hybrid system. He explained the Basic electrical theory like direct current accumulators, generators, elementary circuit, Ohm's law, series connection, parallel connection, magnetism & transformers. He explained the Magnetic cylinder switches and Solenoid Valves. He explained Relays and sensors like Plug in relay, special function relay, proximity sensors, optical, retro-reflective, reflective, inductive & capacitive type sensors and Electric timers Construction, applications with ISO symbol and mounting. He exhibited Electro-pneumatic Circuits design, diagram layout, basic circuits, Multiplying contact, holding circuit, Contact Inversion, Timing circuit, Flashing Lamp, Pulse & Variable repeating movement. The theory class was also followed by lab work in which six exercises were completed.

The training was started on 20/1/2020 with the welcome speech by **Dr Sanjay Yadav, Head Mechanical Engineering Department.** Around 61 students from Mechanical Engineering Department participated in the Training. The training ended with an objective type post-test on pneumatics to evaluate the overall knowledge gained by students.

Training Outcome:

- The workshop helped students to understand the role of Automation in the economical development for the nation.
- Students understood the concepts and working of Basic Pneumatics & Electro-Pneumatics.
- It also helped the students to explore new dimensions for the applications of pneumatics or low cost automation in Industries.
- It developed the power circuits for the Electro-Pneumatic system for the working applications.
- The workshop will provide help in preparing major project of final year students.
- Scope for the mechanical engineers in Pneumatics industries.
- Advancement in Pneumatic technology and scope for improvement through research and innovation.

Number of Students Attended: 61

Mr. Chetan Dixit
(Assistant Professor MED)

Head of Department
MECHANICAL ENGINEERING

Plan for "SMC Pneumatic" COE Sessions for Academic Year 2019-20

The training Program for "SMC Pneumatics" will be conducted in 2 sessions for 3rd year mechanical engineering students. First, training will be provided on pneumatic technology and after that training on electro- pneumatic technology will be provided. For pneumatic technology, training will be provided in July- Nov session and for electro-pneumatic technology training will be provided in Jan- April session.

Training Program for Pneumatic Technology:

The training program on pneumatic technology will be conducted in odd semester for all 5th semester mechanical engineering students. The training will be provided according to the syllabus and lecture plan. Around 12 sessions will be conducted having 2 hours/session. The detailed knowledge of pneumatic systems and their components will be imparted and hand on practice on pneumatic circuits will be performed by the students.

Time duration needed: 24 hours

Training Program for Electro-Pneumatic Technology:

The training program on electro-pneumatic technology will be conducted in even semester for all 6th semester mechanical engineering students. The training will be provided according to the syllabus and lecture plan prepared for electro-pneumatic technology. Around 12 sessions will be conducted having 2 hours/session. The detailed knowledge of electro-pneumatic systems and their components will be provided and hand on practice on electro-pneumatic circuits will be performed by the students.

Time duration needed: 24 hours

Other Activities Proposed: 4 week summer training program on Pneumatics

Year wise batch size target: Training is provided for 3rd year mechanical engineering students only.

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Syllabus: Pneumatic Technology

Topics:

Introduction of Pneumatics: Needs and Applications

The Basic Pneumatic Systems & Compressed Air Theory: Air production System, air consuming system, properties of gas, air humidity, relative humidity, pressure and flow.

Air Compression and Distribution: Compressors, types of compressors, compressor accessories, air receiver, air dehydration, air dryers, air distribution, automatic drains.

Filters and Regulators: Micro filters, main line filters, filter selection, filtering level, pressure regulation, filter regulators, pilot operated regulators, sizing of regulators and filters.

Actuators: Linear cylinders, Single acting cylinders, double acting cylinders, cylinder construction, special cylinder, cylinder sizing, cylinder force, Rotary actuators, sizing rotary operation, locking cylinders, rodless cylinders, air chucks.

Directional Control Valves: Valve functioning, port indication, monostable and bistable, valve types, valve operations.

5/2 Valves: Valves nomenclature, ISO symbol, valve operation, monostable, bistable and memory valve, valves mounting.

Auxiliary Valves: Non-returning valves flow control valves, quick exhaust valves, shuttle valves, two pressure valves, air timer, ISO symbols, valves operation, and valves mounting.

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Syllabus: Electro-Pneumatic Technology

Topics:

Introduction of Electro-Pneumatics: Economical and technical aspect of electro-pneumatic systems, needs and applications, Consequences of hybrid system.

Basic electrical theory: Atom, direct current accumulators, generators, elementary circuit, Ohm's law, series connection, parallel connection, magnetism, transformers.

Magnetic cylinder switches: Principle, mounting methods, troubleshooting, switch assemblies, selection of assemblies.

Solenoid Valves: Operation, skinner principle, power valves, pilot operation, reliability of valves.

Relay and sensors: Principle, relay function, Plug in relay types, special function relay, proximity sensors, optical, retroreflective, reflective, inductive, capacitive type sensors.

Electric timers: Construction, application, ISO symbol, mounting and application.

Electro-pneumatic Circuits: Circuit design, diagram layout, basic circuits, Multiplying contact, The holding circuit, Contact Inversion, Timing circuit, Flashing Lamp, Pulse, Variable repeating movement.

Safety in Automation: Compressed air safety, electric current safety, effect of electric current on humans, safety measures.

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Session Plan: COE Pneumatic Lab

MECHANICAL ENGINEERING DEPARTMENT	
Session Plan: COE Pneumatic Lab	
Academic Session: 2019-20	
Course/ Program year/Semester: B.Tech/ Third Year/ 5th	
S.NO	**TOPICS**
1	Introduction of Pneumatics: Needs and Applications
2	The Basic Pneumatic Systems & Compressed Air Theory
3	Filters and Regulators, Actuators
4	Directional Control Valves
5	5/2 Valves
6	Auxiliary Valves
7	Exercise 1 :Working of single acting cylinder
8	Exercise 2: Working of single acting cylinder Using 3/2 NO valve
9	Exercise 3: Working of double acting cylinder using 5/2 Valve
10	Exercise 4: Working of 5/2 PB valve
11	Exercise 5: Opening of gate using two safety switches
12	Exercise 6: Working of double acting cylinder using quick exhaust valve

Head of Department
MECHANICAL ENGINEERING

Session Plan: COE Electro-Pneumatic Lab

MECHANICAL ENGINEERING DEPARTMENT	
Session Plan: COE Electro-Pneumatic Lab	
Academic Session: 2019-20	
Course/ Program year/Semester: B.Tech/ Third Year/ 6th	
S.NO	**TOPICS**
1	Introduction: Economical and technical aspect of electro-pneumatic systems
2	Basic electrical theory
3	Magnetic cylinder switches
4	Solenoid valves
5	Relay, Sensors
6	Electric timers
7	Electro-pneumatic circuits
8	Electro-pneumatic circuits: Multiplying contact
9	Electro-pneumatic circuits: Holding circuit
10	Electro-pneumatic circuits: Contact inversion
11	Electro-pneumatic circuits: Timing circuit
12	Electro-pneumatic circuits: Flashing lamp

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ITS ENGINEERING COLLEGE, GREATER NOIDA

SMC Value Added Course Record (Internal Trainings) 2019-20

1	2	3	4	5	6	7	8	9	10	11		12	13
S.No.	Department	SEM	Training Name	Total Hours of Training	Training Start Date	Training End Date	Trainee Name	Classes Held	Classes Attended	Attendance %age	Training Completed Successfully (Y/N)	Certificate (Internal/ External)	Certification Status (Y/N)
1	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	AMAN SRIVASTAVA	38	30	78.95	Yes	Internal	N
2	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	KAVIRAJ KUMAR	38	36	94.74	Yes	Internal	N
3	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	AAKASH BHATI	38	34	89.47	Yes	Internal	N
4	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	AASHISH SHARMA	38	32	84.21	Yes	Internal	N
5	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	AASHU KR. JHA	38	32	84.21	Yes	Internal	N
6	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ABHAY SINGH	38	28	73.68	Yes	Internal	N
7	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ABHISHEK SOLANKI	38	26	68.42	Yes	Internal	N
8	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ABHISHEK SRIVASTAVA	38	36	94.74	Yes	Internal	N
9	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ACHAL KHANNA	38	34	89.47	Yes	Internal	N
10	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	AJAY TANWAR	38	32	84.21	Yes	Internal	N
11	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	AKARSH PANDEY	38	32	84.21	Yes	Internal	N
12	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	AKASH KUMAR	38	28	73.68	Yes	Internal	N
13	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	AKHAND PANDEY	38	26	68.42	Yes	Internal	N
14	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	AMAN JAIN	38	34	89.47	Yes	Internal	N
15	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	AMAN SHARMA	38	34	89.47	Yes	Internal	N
16	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ANUJ KUMAR	38	36	94.74	Yes	Internal	N
17	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ARJIT NOHWAR	38	34	89.47	Yes	Internal	N
18	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ARSH REHMAN	38	28	73.68	Yes	Internal	N
19	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ARSHAD IQBAL	38	26	68.42	Yes	Internal	N

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20	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ASIF KHAN	38	34	89.47	Yes	Internal	N
21	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	AZAHARUDIN ANSARI	38	34	89.47	Yes	Internal	N
22	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	BALDHARI KUMAR	38	36	94.74	Yes	Internal	N
23	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	BHARTENDU KUMAR	38	34	89.47	Yes	Internal	N
24	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	CHANDAN CHAUDHARY	38	34	89.47	Yes	Internal	N
25	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	DIVYANSHU KUMAR	38	36	94.74	Yes	Internal	N
26	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	JEEVESH GUPTA	38	34	89.47	Yes	Internal	N
27	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	JITUPAN DEKA	38	28	73.68	Yes	Internal	N
28	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	KESHAV KASHYAP	38	26	68.42	Yes	Internal	N
29	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	LUVKESH	38	34	89.47	Yes	Internal	N
30	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	MAAZ KHAN	38	34	89.47	Yes	Internal	N
31	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	MAJID KHAN	38	36	94.74	Yes	Internal	N
32	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	MANISH PAL	38	34	89.47	Yes	Internal	N
33	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	MD SULEMAN AKHTAR	38	34	89.47	Yes	Internal	N
34	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	MD EHTESHAM AKHTAR	38	28	73.68	Yes	Internal	N
35	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	MD. WALIULLAH	38	26	68.42	Yes	Internal	N
36	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	MOHAMMAD FAIZ AHMED	38	34	89.47	Yes	Internal	N
37	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	NITESH PAL	38	34	89.47	Yes	Internal	N
38	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	PRASHANT KUMAR	38	36	94.74	Yes	Internal	N
39	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	RAHUL MAURYA	38	34	89.47	Yes	Internal	N
40	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	RAKSHIT TIWARI	38	30	78.95	Yes	Internal	N
41	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	RAMANDEEP SINGH	38	24	63.16	Yes	Internal	N
42	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	RITURAJ KUMAR	38	24	63.16	Yes	Internal	N
43	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ROBIN RAJ	38	34	89.47	Yes	Internal	N

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44	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ROHIT ANAND	38	34	89.47	Yes	Internal	N
45	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	SACHIN GAUTAM	38	36	94.74	Yes	Internal	N
46	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	SAURABH CHANDRA	38	34	89.47	Yes	Internal	N
47	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	SHAMSHAD AHMAD	38	28	73.68	Yes	Internal	N
48	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	SHARFE ALAM	38	26	68.42	Yes	Internal	N
49	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	SHIVAM VERMA	38	34	89.47	Yes	Internal	N
50	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	SHUBHAM SHARMA	38	34	89.47	Yes	Internal	N
51	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	SHUBHAM SINGH	38	36	94.74	Yes	Internal	N
52	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	SHWETANK GUPTA	38	34	89.47	Yes	Internal	N
53	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	SOMESH PANDEY	38	34	89.47	Yes	Internal	N
54	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	SYED FAISAL HUSSAIN	38	36	94.74	Yes	Internal	N
55	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	SYED YUSUF AMIN	38	34	89.47	Yes	Internal	N
56	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	UJJWAL KR. PANDEY	38	28	73.68	Yes	Internal	N
57	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	VISHAL KUMAR	38	26	68.42	Yes	Internal	N
58	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	WASIUDDIN	38	34	89.47	Yes	Internal	N
59	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	ZAID ASIF	38	34	89.47	Yes	Internal	N
60	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	MAYANK RAJ	38	36	94.74	Yes	Internal	N
61	ME	5th & 6th	SMC Training	38	09/12/2019	05/09/2020	NITISH KR. YADAV	38	34	89.47	Yes	Internal	N

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I.T.S ENGINEERING COLLEGE, GREATER NOIDA (MECHANICAL ENGINEERING DEPARTMENT)

Ref.no. ME/2019-20/Odd/Sem5A

Session: 2019-20 (Odd-Semester)

w.e.f. 22/07/2019

Time Table: Semester V; Section-A (Room No.234)

Day/Time	9:10-10:05	10:05-10:55	10:55-11:45	11:45-12:35	12:35-1:30	1:30-2:20	2:20-3:10	3:10-4:00	4:00-4:50
MON	MD-I (RME501)	MST-II (RME503)	ICE (RME051)	HMT (RME502)		ME (RAS501)	SOC (RAS-502)	CAD Training-A1 CoE-SMC-A2	
TUE	MST-II (RME503)	ICE (RME051)	MD-I (RME501)	HMT (RME502)		Aptitude Class		MT-II LAB(RME553)-A1 Seminar-I(RME559)-A2	
WED	ME (RAS501)	HMT (RME502)	MD-I (RME501)	ICE (RME051)	**LUNCH**	Seminar-I(RME559)-A1 MT-II LAB(RME553)-A2		Softskills Class	
THU	SOC (RAS-502)	ICE (RME051)	HMT (RME502)	MST-II (RME503)		CoE-SMC-A1 CAD Training-A2		DS Lab-I(RME551)-A1 HMT Lab(RME-552)-A2	
FRI	ICE (RME051)	MD-I (RME501)	MST-II (RME503)	HMT (RME502)		SOC (RAS-502)	ME (RAS501)	HMT Lab(RME-552)-A1 DS Lab-I(RME551)-A2	

Subject	Code	Name of Faculty	Room No.
Managerial Economics (ME)	RAS501	Mr. Rakesh Kumar Garg	234
Sociology (SOC)	RAS502	Ms. Ganga Rani Konsam	234
Machine Design-I (MD-I)	RME501	Mr. Vivek Kumar	234
Heat & Mass Transfer (HMT)	RME502	Mr. Bhupesh Ojha	234
Manufacturing Science & Technology-II (MST-II)	RME503	Mr. Brijesh Kumar	234
IC Engines and Compressors (ICE)	RME051	Mr. Kunal Kumar Singh	234
Design and Simulation Lab I (DS lab-I)	RME551	Mr. Vivek Kumar	239
Heat & Mass Transfer Lab (HMT Lab)	RME552	Mr. Bhupesh Ojha	207
Manufacturing Technonolgy-II Lab (MT-II Lab)	RME553	Mr. Brijesh Kumar	LG-16
Seminar-I	RME559	Ms.Preeti Singh(A1)/Mr. Harsh Gupta(A2)	234
Aptitude Class	APC-ME5A	Mr. Deepanshu Agarwal	234
Softskills Class	SSC-ME5A	Ms. Ankita Sharma	234
CAD Training	CAD-ME5A	Mr. Vinod Gola	205
CoE-SMC	CoE-ME5A	Mr. Chetan Dixit(A1)/Mr.Kunal Kr. Singh(A2)	CoE-SMC

Dr. Sanjay Yadav (HOD, MED & CED)

Head of Department
MECHANICAL ENGINEERING

I.T.S ENGINEERING COLLEGE, GREATER NOIDA (MECHANICAL ENGINEERING DEPARTMENT)

Ref.no. ME/2019-20/Even/Sem6A

Session: 2019-20 (Even-Semester)

w.e.f. 20/01/2020

Time Table: Semester VI; Section-A (Room No.234)

Day/Time	9:10-10:05	10:05-10:55	10:55-11:45	11:45-12:35	12:35-1:30	1:30-2:20	2:20-3:10	3:10-4:00	4:00-4:50
MON	FMC (RME601)	RAC (RME061)	MD-II (RME603)	TOM (RME602)		IM (RAS601)	CS (RUC-601)	FMC LAB(RME651)-A1 CoE-SMC-A2	
TUE	CS (RUC-601)	RAC (RME061)	TOM (RME602)	MD-II (RME603)		Aptitude Class		DS-II LAB(RME653)-A1 TOM LAB(RME-652)-A2	
WED	TOM (RME602)	FMC (RME601)	RAC (RME061)	RAC (RME061)	**LUNCH**	Softskills Class		CAD Training-A1 RAC LAB(RME-654)-A2	
THU	IM (RAS601)	MD-II (RME603)	CS (RUC-601)	TOM (RME602)		FMC (RME601)	IM (RAS601)	CoE-SMC-A1 CAD Training-A2	
FRI	MD-II (RME603)	RAC (RME061)	RAC LAB(RME-654)-A1 FMC LAB(RME651)-A2			TOM (RME602)	FMC (RME601)	TOM LAB(RME652)-A1 DS-II LAB(RME-653)-A2	

Subject	Code	Name of Faculty	Room No.
Industrial Management **(IM)**	RAS601	Mr. Aseem Mishra	234
Cyber Security **(CS)**	RUC601	Ms. Mohini Chakarverti	234
Fluid Machinery **(FMC)**	RME601	Ms. Neha Gupta	234
Theory of Machines **(TOM)**	RME602	Mr. Harsh Gupta	234
Machine Design-II **(MD-II)**	RME603	Mr. Manvendra Yadav	234
Refrigeration & Airconditioning **(RAC)**	RME061	Mr. Bhupesh Ojha	234
Fluid Machinery Lab **(FMC LAB)**	RME651	Ms. Neha Gupta	LG-10
Theory of Machines Lab **(TOM LAB)**	RME652	Mr. Harsh Gupta	238
Design and Simulation Lab-II **(DS-II LAB)**	RME653	Mr. Manvendra Yadav	205
Refrigeration & Airconditioning Lab **(RAC LAB)**	RME654	Mr. Bhupesh Ojha	210
CAD Training	CAD-ME6A	Mr. Vinod Gola	205
Aptitude Class	APC-ME6A	Mr. Deepanshu Agarwal	234
Softskills Class	SSC-ME6A	Ms. Sonal Gupta	234
CoE-SMC	CoE-ME6A	Mr. Kunal Kr. Singh (A1)/Mr. Chetan Dixit (A2)	CoE-SMC

Dr. Sanjay Yadav (HOD, MED & CED)

MECHANICAL ENGINEERING

I.T.S Engineering College, Greater Noida

Department of Mechanical Engineering

COE- SMC : Assessment sheet

Batch 2017-21
Session 2019-20
Sub: **Basics of Pneumatic Technology**
Code: COE- SMC

Methodology		Scale				
Course Outcome (COs)		1 (0-20%)	2 (20-40%)	3 (40-60%)	4 (60-80%)	5 (80-100%)
CO-1	To explain the operation of control devices like electrical/ electronic sensors, timers, pressure switches.	Not able to explain functioning of control devices	Somehow managed to explain functioning of control devices	Good Explanation of functioning of control devices	Better Explanation of functioning of control devices	Excellent Explanation of functioning of control devices
CO-2	To develop single actuator electro-pneumatic circuits for various tasks.	Not able to develop single actuator electro- pneumatic circuits	Somehow able to develop single actuator electro-pneumatic circuits	Able to develop single actuator electro-pneumatic circuits	Better demonstration of Single actuator electro-pneumatic control circuits for various tasks	Excellent demonstration of Single actuator electro-pneumatic control circuits for various tasks
CO-3	To develop multiple actuator electro-pneumatic circuits using auxiliary Conditions.	Not able to develop multiple actuator electro-pneumatic circuits	Somehow able to develop multiple actuator electro-pneumatic circuits	Able to develop multiple actuator electro-pneumatic circuits but unable to use auxillary valves.	Able to develop multiple actuator electro-pneumatic circuits using auxillary conditions.	Excellent in developing multiple actuator electro-pneumatic circuits using auxillary conditions.
CO-4	Know various disturbances, causes and rectification of faults in Electro-pneumatic cylinders and valves.	Not able to explain various disturbances and their causes in eletro-peumatic cylinders and valves	Somehow managed to explain various disturbances and their causes but doesn't konow their rectification in electro-pneumatic cylinders and valves	Good explanation of various disturbances, their causes and rectification in eletctro-pneumatic cylinders and valves	Better explanation of various disturbances, their causes and rectification in electro-pneumatic cylinders and valves	Excellent explanation of various disturbances, their causes and rectification in electro-pneumatic cylinders and valves
CO-5	To solve a wide range of Electro-pneumatic & automation industrial problems using knowledge of engineering and technology.	Not able to solve electro-pneumatic and automation problems	Somehow able to solve some eiectro-pneumatic and automation problems	Able to solve variety of eletro-pneumatic and automation problems but proper explanation is not provided	Able to solve variety electro-pneumatic and automation problems and proper explanation is provided	Able to solve wide range of electro- pneumatic and automation problems and excellent explanation is provided

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S.No.	Roll No.	Name of the Students	To specify the selection and optimization criteria of pneumatic controls		To develop single actuator control circuits for various tasks		To develop multiple actuator pneumatic circuits using auxiliary conditions		Know various disturbances, causes and rectification of faults in pneumatic cylinders and valves		To solve a wide range of pneumatic & automation industrial problems using knowledge of engineering and technology		Total Score
			20		20		20		20		20		100
			Grade	Scale	Grade	Scale	Grade	Scale	Grade	Scale	Grade	Scale	Grade
1	1622240011	AMAN SRIVASTAVA	5	2	11	3	8	2	7	2	9	3	40
2	1622240012	AMIT KUMAR	12	3	8	2	8	2	7	2	8	2	43
3	1722231024	KAVIRAJ KUMAR	20	5	19	5	19	5	18	5	17	5	93
4	1722240001	AAKASH BHATI	20	5	19	5	19	5	18	5	17	5	93
5	1722240002	AASHISH SHARMA	7	2	5	2	7	2	10	3	11	3	40
6	1722240003	AASHU KR. JHA	20	5	19	5	19	5	18	5	17	5	93
7	1722240004	ABHAY SINGH	18	5	17	5	19	5	18	5	20	5	92
8	1722240005	ABHISHEK SOLANKI	7	2	8	2	12	3	3	1	10	1	40
9	1722240006	ABHISHEK SRIVASTAVA	14	4	18	5	17	5	15	4	12	3	76
10	1722240007	ACHAL KHANNA	18	5	17	5	18	5	18	5	17	5	88
11	1722240010	AJAY TANWAR	5	2	10	3	9	2	7	2	10	3	41
12	1722240011	AKARSH PANDEY	7	2	8	2	7	2	10	3	10	3	42
13	1722240012	AKASH KUMAR	10	3	8	2	5	2	8	2	11	3	42
14	1722240013	AKHAND PANDEY	18	5	17	5	18	5	18	5	17	5	88
15	1722240014	AMAN JAIN	18	5	10	3	10	3	8	2	15	4	61
16	1722240015	AMAN SHARMA	10	3	5	2	13	4	14	4	15	4	57
17	1722240018	ANUJ KUMAR	18	5	17	5	18	5	18	5	17	5	88
18	1722240019	ARJIT NOHWAR	17	5	18	5	18	5	16	4	17	5	86
19	1722240020	ARSH REHMAN	14	4	18	5	17	5	15	4	12	3	76
20	1722240021	ARSHAD IQBAL	4	1	10	3	13	4	9	3	8	2	44
21	1722240022	ASIF KHAN	10	3	5	2	8	2	16	4	15	4	54
22	1722240024	AZAHARUDIN ANSARI	20	5	19	5	19	5	18	5	17	5	93
23	1722240025	BALDHARI KUMAR	10	3	5	2	13	4	14	4	15	4	57
24	1722240026	BHARTENDU KUMAR	18	5	17	5	19	5	18	5	20	5	92
25	1722240027	CHANDAN CHAUDHARY	20	5	18	5	15	4	11	3	16	4	80
26	1722240028	DIVYANSHU KUMAR	3	1	10	3	13	4	10	3	9	2	45
27	1722240029	JEEVESH GUPTA	18	5	17	5	18	5	18	5	17	5	88
28	1722240030	JITUPAN DEKA	18	5	17	5	18	5	18	5	17	5	88

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29	1722240031	KESHAV KASHYAP	20	5	19	5	19	5	18	5	17	5	93
30	1722240032	LUVKESH	18	5	17	5	18	5	18	5	17	5	88
31	1722240033	MAAZ KHAN	18	5	10	3	13	4	14	4	15	4	70
32	1722240034	MAJID KHAN	17	5	9	3	13	4	14	4	15	4	68
33	1722240035	MANISH PAL	10	3	8	2	12	3	15	4	13	4	58
34	1722240036	MD SULEMAN AKHTAR	18	5	17	5	18	5	18	5	17	5	88
35	1722240037	MD EHTESHAM AKHTAR	17	5	9	3	13	4	12	3	15	4	66
36	1722240039	MD. WALIULLAH	17	5	18	5	18	5	16	4	17	5	86
37	1722240040	MOHAMMAD FAIZ AHMED	14	4	18	5	17	5	15	4	12	3	76
38	1722240041	NITESH PAL	5	2	8	2	8	2	7	2	14	4	42
39	1722240042	PRASHANT KUMAR	17	5	18	5	18	5	16	4	15	4	84
40	1722240043	RAHUL MAURYA	20	5	19	5	19	5	18	5	17	5	93
41	1722240044	RAKSHIT TIWARI	7	2	12	3	14	4	5	2	11	3	49
42	1722240045	RAMANDEEP SINGH	18	5	17	5	19	5	18	5	20	5	92
43	1722240046	RITURAJ KUMAR	20	5	18	5	15	4	11	3	16	4	80
44	1722240047	ROBIN RAJ	9	3	8	2	14	4	5	2	11	3	47
45	1722240048	ROHIT ANAND	7	2	12	3	8	2	5	2	11	3	43
46	1722240049	SACHIN GAUTAM	14	4	7	2	14	4	5	2	11	3	51
47	1722240051	SHAMSHAD AHMAD	17	5	18	5	18	5	16	4	15	4	84
48	1722240052	SHARFE ALAM	14	4	18	5	17	5	15	4	12	3	76
49	1722240053	SHIVAM VERMA	18	5	15	4	18	5	15	4	16	4	82
50	1722240054	SHUBHAM SHARMA	17	5	18	5	18	5	16	4	15	4	84
51	1722240055	SHUBHAM SINGH	7	2	8	2	6	2	8	2	12	3	41
52	1722240056	SHWETANK GUPTA	18	5	17	5	18	5	18	5	17	5	88
53	1722240057	SOMESH PANDEY	17	5	18	5	18	5	16	4	15	4	84
54	1722240058	SYED FAISAL HUSSAIN	11	3	12	3	6	2	8	2	8	2	45
55	1722240060	SYED YUSUF AMIN	18	5	15	4	18	5	15	4	16	4	82
56	1722240061	UJJWAL KR. PANDEY	10	3	12	3	8	2	11	3	15	4	56
57	1722240062	VISHAL KUMAR	20	5	19	5	19	5	18	5	17	5	93
58	1722240063	WASIUDDIN	17	5	10	3	12	3	14	4	15	4	68
59	1722240064	ZAID ASIF	11	3	8	2	6	2	8	2	8	2	41
60	1722240901	MAYANK RAJ	12	3	12	3	7	2	6	2	5	2	42
61	1722240902	NITISH KR. YADAV	14	4	18	5	17	5	15	4	12	3	76

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