

## 1. Workshop mechanic diesel-I

- This course is of one year duration. In this workshop we were explained about the engines.
- Engines are used to convert one form of energy to mechanical energy.

### ➤ Diesel engine was first explained

- Diesel engine converts heat energy obtained from fuel into mechanical energy.
- Diesel engine works on a 4 stroke principle.
- It has high compression ratio from petrol.

There were many opened Diesel engines were present and its different parts are explained.

### ➤ Petrol engine was then explained

- It mostly works on the 4 stroke principle but it generates less exhaust as compared to diesel engine.
- It has low combustion ratio as compare to diesel engine.
- Its spark plug can be removed.

- ✓ Then the students proceeded to the generators section and were explained the basic process of generators of single piston. Followed by a marine engine display, then they were headed to the machines such as Grindage or Valve refacer. Fuel injectors pump calibration equipment.

### ➤ Display lab of Ford engines

- Firstly a cross sectioned 4 stroke car engine was there. The students were given a general demonstration of Engine working and parts.
- The engine was 1.4 liter TDCI (Turbo Diesel Common rail Injection) type. TDCI is a fuel atomized, more efficient and provide better efficiency. A brief Display of Disc brakes, shock absorber, Brake booster and master cylinder assembly, Manual transmission were explained.

## 2. Workshop Mechanic training vehicle-I

- In this workshop the students were headed to the Truck engine for a display of engine.
  
- Different car engine demonstration such as
  1. Tata Aria.
  2. Tata Nano.
- Rear Axial system
- Differential balance
- Air bag system.
- Cutting tools

At last there was a lecture held by the head of institute in which details about training program of 8 days was given to the students. The students were very grateful to the staff of the institution for this Experience.

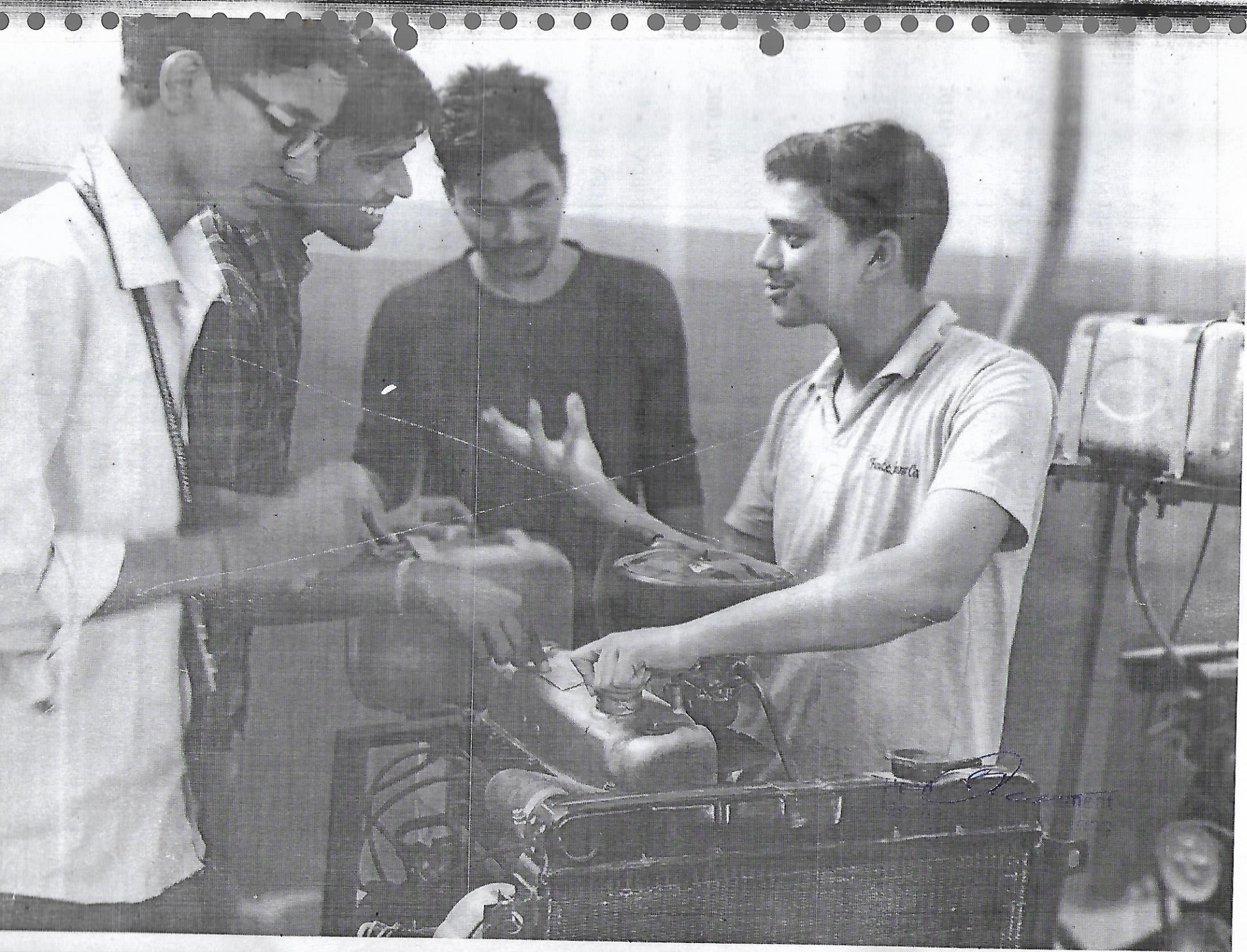
### Outcomes:-

- i) Students get to know about market and its structure.
- ii) Students are able to explain term economics and law of demand and supply.
- iii) Students are able to explain consumer behavior in dynamic economic condition.
- iv) Students are aware of mutual funds, real estate and commodity.

  
Coordinator)

  
(HOD)

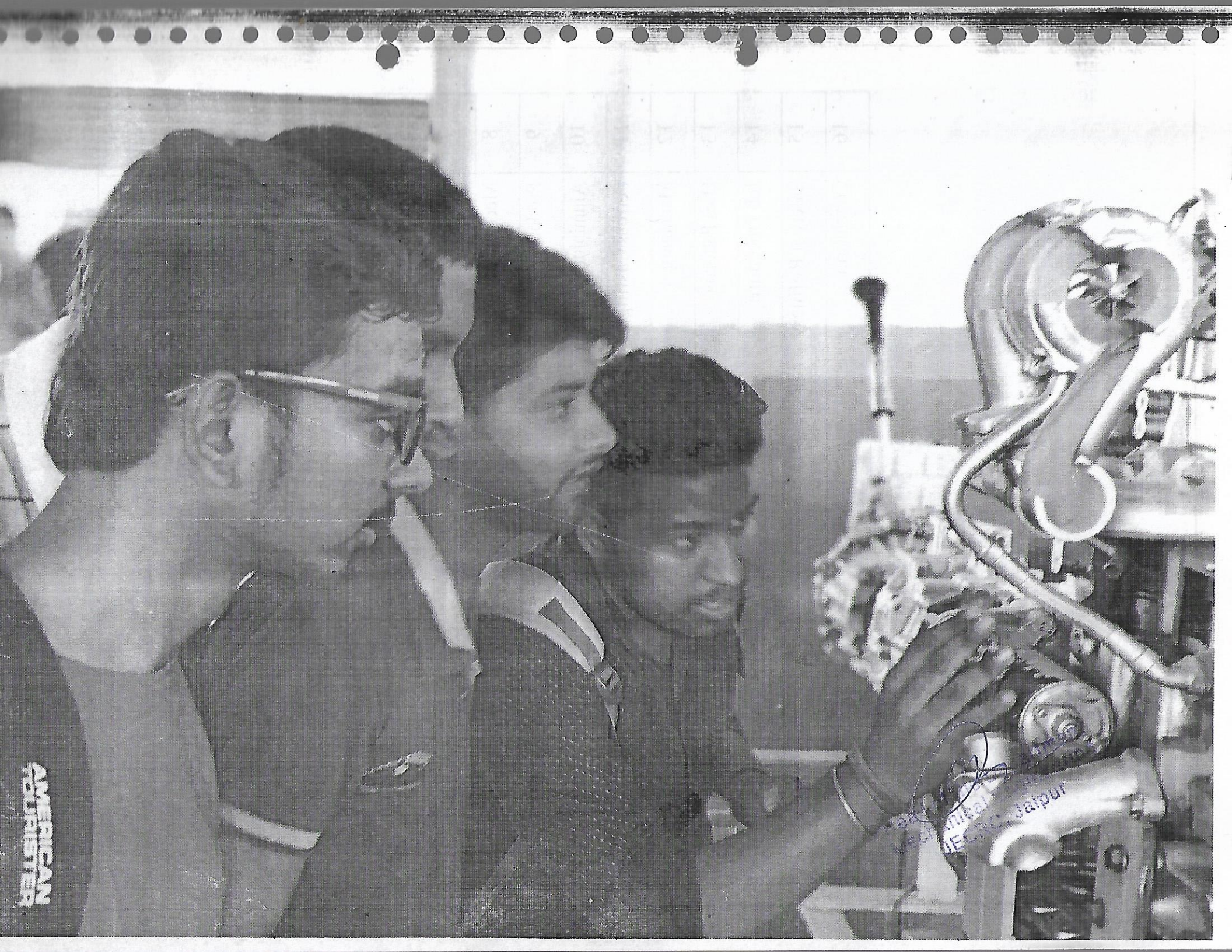












AMERICAN  
TOURISTER

Jaipur  
Electrical  
Engineering  
College



## Attendance of industrial visit Section 3-C)

(2018 July)

S.No.	Name	ind visit	Signature	S.No.	Name	ind visit	Signature
1	ABHAY BHATI			45	SURAJ		
2	ABHAYJIT			46	VIJENDRA	P	विजेंद्र मेहता
3	ABHISHEK	P	Abhishek	47	VIJENDRA		
4	ABHISHEK			48	VIRAT	P	Virat
5	ADARSH			49	VISHAL	P	Vishal
6	ADITYA RAJ			50	YATISH	P	Yatish
7	ALOK YADAV						
8	AMAN		Amn				
9	AMAN TINKER	P	Aman				
10	ANKIT GOAD						
11	APOORVA						
12	ARUN KUMAR						
13	BADAL VYAS	P	Badal				
14	BHANU	P	Bhanu				
15	BHUPESH						
16	BHUVNESH	P	Bhuvan				
17	CHITRESH	P	Chitresh Gohil				
18	DAKSH						
19	DEV NIRALA						
20	DEVANG	P	Devang Ratho				
21	DISHANK						
22	FAIZ AHMAD						
23	GARVIT						
24	GOPAL						
25	HIMANSHU	P	Himanshu				
26	HIMANSHU	P	Himanshu				
27	JINESH	P	Jinesh				
28	KISHAN						
29	LOKESH						
30	MAHESHWAR	P	Maheshwar				
31	MANTAVYA						
32	NEERAJ JANGID	P	Neeraj				
33	PRAKASH						
34	PRATHAM						
35	PUNEET	P	PUNEET				
36	RAVI LABANA	P	Ravi				
37	ROBIN SINGH						
38	ROHAN						
39	ROHIT KUMAR	P	ROHIT				
40	ROHIT	P	Rohit				
41	SALIL MISHRA	P	Salil				
42	SHAKTI SINGH						
43	SHUBHENDU	P	Shubhendu				
44	SURAJ SINGH						

Head of the Department  
Mechanical Engineering  
JECRC, Jaipur

A - 44  
B - 55  
C - 22

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Department of Mechanical Engineering							
List of Students							
and their Semester-wise Marks in the Examinations held in the Department of Mechanical Engineering							
Roll no.	Name of student	1 <sup>st</sup> SEM	2 <sup>nd</sup> SEM	3 <sup>rd</sup> SEM	4 <sup>th</sup> SEM	5 <sup>th</sup> SEM	6 <sup>th</sup> SEM
1	ADITHYAN K. S.	A	P	P	P	P	P
2	ADITHYAN K.	A	P	P	P	P	P
3	ADITHYAN SHARMA	P	P	P	P	P	P
4	ADITHYAN K. RATHIYA	A	P	P	P	P	P
5	ADITHYAN K. MISHRA	A	P	P	P	P	P
6	ADITHYAN K. DUTTA	P	P	P	P	P	P
7	ADITHYAN K. DUTTA	A	P	P	P	P	P
8	ADITYA K. SINGH	A	A	P	P	P	P
9	ADITYA K. SINGH	A	A	A	A	A	A
10	ADITYA K. SINGH	A	P	P	P	P	P
11	ADITYA K. SINGH	A	P	P	P	P	P
12	ADITYA K. SINGH	A	A	A	A	A	A
13	ADITYA K. SINGH	P	P	P	P	P	P
14	ADITYA K. SINGH	P	P	P	P	P	P
15	ADITYA K. SINGH	A	P	P	P	P	P
16	ADITYA K. SINGH	P	P	P	P	P	P
17	ADITYA K. SINGH	P	P	P	P	P	P
18	ADITYA K. SINGH	P	P	P	P	P	P
19	ADITYA K. SINGH	P	P	P	P	P	P
20	ADITYA K. SINGH	P	A	A	P	P	P
21	ADITYA K. SINGH	P	A	P	P	P	P
22	ADITYA K. SINGH	A	P	P	P	P	P
23	ADITYA K. SINGH	P	A	A	P	P	P
24	ADITYA K. SINGH	A	P	P	P	P	P
25	ADITYA K. SINGH	A	P	P	P	P	P
26	ADITYA K. SINGH	A	P	P	P	P	P
27	ADITYA K. SINGH	P	P	P	P	P	P
28	ADITYA K. SINGH	P	P	P	P	P	P
29	ADITYA K. SINGH	A	P	P	P	P	P
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31	ADITYA K. SINGH	P	P	P	P	P	P
32	ADITYA K. SINGH	P	A	A	P	P	P
33	ADITYA K. SINGH	P	P	P	P	P	P
34	ADITYA K. SINGH	P	A	A	P	P	P
35	ADITYA K. SINGH	A	A	A	P	P	P
36	ADITYA K. SINGH	P	P	P	P	P	P
37	ADITYA K. SINGH	P	A	A	P	P	P
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42	ADITYA K. SINGH	A	A	P	P	P	P
43	ADITYA K. SINGH	A	A	A	A	A	A
44	ADITYA K. SINGH	P	P	P	P	A	P
45	ADITYA K. SINGH	P	A	P	P	P	P
46	ADITYA K. SINGH	P	A	P	P	P	P
47	ADITYA K. SINGH	A	P	A	P	P	P
48	ADITYA K. SINGH	P	P	P	P	P	A
49	ADITYA K. SINGH	A	P	P	P	A	A
50	KARAN PANDAY						

3rd - A

Head of Department  
Mechanical Engineering



51	KARTIK KACHHARA	A	A	A	A	A	A
52	KARSHAL BANG	P	P	P	P	A	P
53	KESHAV GAUTAM	A	A	A	P	P	P
54	KHUSHAL SINGH	P	P	P	P	P	P
55	KUNAL DEWAIN	P	P	P	P	P	P
56	KUNAL JAIN	A	A	P	A	P	P
57	KALIT GUPTA	P	A	P	P	P	P
58	LUKESH GAUTAM	P	P	P	P	P	A
59	LOKESH PLOHIT	P	P	P	A	A	P
60	MAYANK SINGH BHARAWAT	A	P	P	P	P	A
61	MEDH JAIN	P	P	P	P	P	P
62	MOHIT KANGAD	P	P	P	P	P	P
63	MOHIT SHARMA	A	A	A	A	A	A
64	MOHIT SONI	A	A	A	A	A	A
65	MOHIT KAKHARIA	A	A	A	A	A	A
66	NAMAN GUPTA	A	P	P	P	P	P
67	NITAI PATEL	A	A	P	P	P	P
68	NIKHIL KAPAL	P	P	P	P	P	P
69	NIKHIL DASHWAT	P	P	P	P	P	P

3rd A

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JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE, JAIPUR							
Department of Mechanical Engineering							
1st Sem. Training Schedule Campus Attendance (2019-2020) (2019-2020) SECTION - 1A work 2nd							
Roll no.	Name of students	09/07/19	10/07/19	11/07/19	12/07/19	13/07/19	14/07/19
1	ABHINAV GUPTA	P	P	P	A	A	P
2	ABHINAV KAI	P	P	P	A	A	A
3	ABHINAV SHARMA	P	A	P	A	P	A
4	ABHIRAM BATHIYA	A	P	P	A	P	P
5	ABHIRAM BHADRA	A	P	P	P	P	P
6	ABHIRAM SONI	P	P	P	P	P	A
7	ABHIRAM THAKUR	A	P	P	P	P	A
8	ADITYA KISHI	P	P	P	P	P	P
9	ADITYA KUMAR	P	A	A	A	A	A
10	ADITYA SACHWAL	A	P	P	P	A	A
11	ANANDHIL NAR	A	P	P	A	A	A
12	ANISH SHARMA	A	A	P	A	P	P
13	ANUR AGARWAL	P	A	P	A	P	A
14	ANURAG AGARWAL	P	P	P	P	P	P
15	ARPI CHHA	A	P	P	P	P	P
16	ARSHITH KUMAR	P	P	A	P	P	P
17	ASHWANI SINGH	P	A	P	P	P	P
18	ASHISH JAIN	P	P	P	P	P	P
19	AYUSH CHAUDHARY	P	P	A	A	P	P
20	AYUSH MANGAL	P	A	P	P	P	P
21	AYUSH SHARMA	P	A	P	P	P	P
22	DEVI PRASAD DOL	A	P	P	P	P	P
23	DEVI PRASAD SHARMA	P	A	A	P	P	P
24	DEVI PRASAD SINGH BHANGARSI	A	P	P	P	P	P
25	DEVI PRASAD SINGH	P	P	P	P	P	A
26	CHAITANYA SHARMA	A	P	P	P	P	P
27	CHINMAY JAIN	P	P	P	P	P	P
28	CHIRAG GUPTA	P	P	P	A	P	A
29	CHIRAG PANCHAL	A	P	P	P	P	P

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Head of the Department  
Mechanical Engineering



R.N.	RTU Roll No.	Name of student	7/2/2018	3-Jul	4-Jul
70	17EJCME071	NIRMAL LOHAR	P	P	P
71	17EJCME072	NITESH HARIT	P	A	A
72	17EJCME073	PARVINDER PAL SINGH	P	P	P
73	17EJCME074	PIYUSH SHRIMALI	P	P	P
74	17EJCME075	PRABHAT AGARWAL	P	P	P
75	17EJCME076	PRAKHAR TIWARI	P	P	P
76	17EJCME077	PRANEET BANSAL	P	A	P
77	17EJCME078	PRATEEK AGRAWAL	P	P	P
78	17EJCME079	PRITHVI KUMAWAT	P	P	P
79	17EJCME080	PRIYANSHU JAIN	P	P	P
80	17EJCME081	RAHUL CHECHI	P	P	P
81	17EJCME082	RAHUL MAHAWAR	A	P	P
82	17EJCME083	RAHUL SINGH	P	P	P
83	17EJCME084	RAHUL SINGH NEGI	P	P	P
84	17EJCME085	RAHUL SONI	P	P	P
85	17EJCME086	RAJENDRA PRAJAPAT	P	P	P
86	17EJCME087	RAJPAL SINGH	P	P	P
87	17EJCME088	RAM LAL	P	P	P
88	17EJCME089	RAVI SHARMA	P	P	P
89	17EJCME090	ROHIT SINGH	P	P	P
90	17EJCME091	ROHIT TINKER	P	P	P
91	17EJCME092	SACHIN KUMAR	P	P	P
92	17EJCME093	SACHIN SINGH NIRWAN	P	P	P
93	17EJCME094	SANDEEP KUMAR	P	P	P

3d-B

for 2

*[Signature]*  
Head of the Department  
Mechanical Engineering  
JECRC



94	17EJCME095	SANJAY MEGHIVANSHI	P	P
95	17EJCME096	SAURABH JAIN	P	P
96	17EJCME097	SAURABHJAIN	P	P
97	17EJCME098	SAURABH KUMAR SHARMA	P	P
98	17EJCME099	SAURABH SHARMA	P	P
99	17EJCME100	SAURABH SHARMA	P	P
100	17EJCME101	SAURABH SHARMA	P	P
101	17EJCME102	SHIVAM VIJAY	P	P
102	17EJCME103	SHOBHIT KAUSHIK	P	P
103	17EJCME104	SHOEL MANSOORI	P	P
104	17EJCME105	SHOHED KHAN	P	P
105	17EJCME106	SHRESTH SHARMA	P	P
106	17EJCME107	SHREYA GUPTA	P	P
107	17EJCME108	SHUBHADA AGARWAL	P	P
108	17EJCME109	SHUBHAM MAAN	P	P
109	17EJCME110	SHUBHAM SONI	P	P
110	17EJCME111	SOUMAY GUPTA	P	P
111	17EJCME112	SOURAV JAISWAL	P	P
112	17EJCME113	TARIQUE ANWAR KHAN	P	P
113	17EJCME114	TUSHAR AGRAWAL	P	P
114	17EJCME115	TUSHAR JHURANI	P	P
115	17EJCME116	VAIBHAV BOYAL	P	P
116	17EJCME117	VAIBHAV JAIN	P	P
117	17EJCME118	VEDANT SAXENA	P	P
118	17EJCME119	VENKTESH PARASHAR	P	P
119	17EJCME120	VIJAY KUMAR SHARMA	A	A

*Signature*

*Signature*  
Head of the Department  
Mechanical Engineering  
JECRC, Jaipur



120	17EJCME121	VISHAL SINGH TOMAR	P	P	
121	17EJCME122	VIVEK PARASHAR	P	P	
122	17EJCME123	VIVEK PIPRONIYAN	P	P	
123	17EJCME124	YASH BAKLIWAL	P	P	
124	17EJCME125	YASH KUMAWAT	P	P	
125	17EJCME126	YUGANT GARG	P	P	
126	17EJCME300	DEEPAK KUMAR JANCID	A	P	
127	17EJCME301	HARENDRA SHEKHAWAT	P	P	

55

3rd B-55  
Indu

Head  
Mechanical  
JEERC, Jaipur





JAIPUR ENGINEERING COLLEGE  
AND RESEARCH CENTRE

**JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE**  
JECRC Campus, Shri Ram Ki Nangal, Via-Vatika, Tonk Road, Jaipur  
Phone: 0141-2770232, 2770120

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**DEPARTMENT OF MECHANICAL ENGINEERING**

REF NO.:JECRC/ME/17-18

Date: 12Sep 2017

**NOTICE**

All the third year students of ME are hereby informed that the Department of Mechanical Engineering is arranged the visit under the subject of Professional Ethics and Disaster Management at "Mahatma Gandhi Hospital" on 14<sup>th</sup> September 2017. All students should come with college ID card compulsory.

Reporting Time 10.00 am .

  
(HOD-MECH)

Head of the Department  
Mechanical Engineering  
JECRC, Jaipur





JAIPUR ENGINEERING COLLEGE  
AND RESEARCH CENTRE

**JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE**  
JECRC Campus, Shri Ram Ki Nangal, Via-Vatika, Tonk Road, Jaipur  
Phone: 0141-2770232; 2770120

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Date: 15 Sep, 2017

To,  
Mr Santosh Bansal  
Mahatma Gandhi Hospital  
Jaipur

Dear Sir,

Please accept our sincere that for given permission to visit your esteemed hospital. The students gains the knowledge about waste management in hospital.

Please pass our sincere thanks to all staff members who actively helps our students to understand the good practical knowledge and sharing his work experience in hospital

Looking forward for cooperation for the visit in your hospital in future as well.

Thank you once again and best wishes.

HOD Mechanical

Head of the Department  
Mechanical Engineering  
JECRC, Jaipur





JAIPUR ENGINEERING COLLEGE  
AND RESEARCH CENTRE

**JAIPUR ENGINEERING COLLEGE & RESEARCH CENTRE**

JECRC Campus, Shri Ram Ki Nangal, Via-Vatika, Tonk Road, Jaipur

Phone: 0141-2770232, 2770120

REF NO.: JECRC/ME/17-18

Date: 12Sept, 2017

To,  
Mr Santosh Bansal  
Mahatma Gandhi Hospital  
Jaipur

Subject: Permission for One day Visit at Hospital

We are known as Jaipur Engineering College & Research Centre (JECRC College) affiliated to RTU. We offer different courses for UG level in few areas of engineering (Comp. Civil Mech, E&TC, IT and Elect.). As the part of the curriculum activity V students are required to undertake visit. We feel it will be helpful to the student with academic background have a glimpse of hospital in order to have a better knowledge of waste management in hospital.

With reference to above subject the V semester students of 30 strength of mechanical branch along with 02 staff members are interested to visit your esteemed industry preferably 14<sup>th</sup> sept 2017.

I request you to kindly accord the necessary permission for the above visit and arrange someone for guiding the students. We assure our student will follow the rules and regulation that are prescribed by your company for the visitor.

We shall be grateful for a favorable response.

Thanking you,

  
(HOD Mechanical)

Head of the Department  
Mechanical Engineering  
JECRC, Jaipur





JAIPUR ENGINEERING COLLEGE  
AND RESEARCH CENTRE

JAIPUR ENGINEERING COLLEGE AND RESEARCH CENTER, JAIPUR

DEPARTMENT OF MECHANICAL ENGINEERING

### **INDUSTRIAL VISIT**

### **WASTE MANAGEMENT IN HOSPITAL**

**Date: 14<sup>th</sup> September 2017**

The 3<sup>rd</sup> year V<sup>th</sup>SemB Tech Mechanical Engineering students of Jaipur Engineering College And Research Center, Jaipur have underwent an industrial visit to the Hospital waste management facility near sitapura, Jaipur District on 14.9.2017. In the morning at 9:00 am we visited Hospital waste management facility near sitapura, Jaipur. According to guidance during industrial visit of waste management in hospital, students are able to understand following specific areas to focus on when developing a management plan for hospital's waste.

#### **Handling**

Hospital waste handlers bear the responsibility of keeping waste tightly contained upon receipt. Unfortunately, awareness of the need for safety and caution among staff members who routinely handle hospital waste may decrease over time, increasing the possibility for contamination or injury. All staff members handling waste products should receive periodic reminders and refresher training that includes information on the techniques and risks associated with the handling of waste, procedures for dealing with spillages and other accidents and instructions on the use of protective clothing. Additionally, staff should be required to demonstrate the procedure of proper waste handling to confirm their compliance.

  
Head of the Department  
Mechanical Engineering  
JECRC, Jaipur



## **Storage**

Specific locations for temporary waste storage should be designated within the hospital. Generally, plans for these areas are included in those for the design and construction of the facility. The areas must be completely enclosed and separate from supply rooms and food preparation areas. Waste must always be segregated into different fractions based on their potential hazard and disposal route. The segregation of waste items is the responsibility of the handler. When stored, waste should be monitored closely and removed in a timely manner. All waste containers should be clearly labeled and hazardous and non-hazardous wastes should never be mixed.


## **Treatment**

More hospitals are turning to waste treatment as an alternative to incineration, as incineration harbors the danger of chemical exposure. Choices of treatment technologies should be made in line with a clear knowledge of the waste to be managed and the goal to be achieved through treatment. If the technology is to be environmentally sound—a growing concern among health care providers—the waste should be able to be treated without creating other hazardous by-products.

There are five basic processes for the treatment of hazardous components in health-care waste, specifically, sharps, infectious and pathological wastes: thermal, chemical, irradiation, biological and mechanical.

## **Transport**

Transporting hazardous medical waste should comply with national regulations, and with international agreements if wastes are shipped across an international frontier for treatment. As with storage, hazardous and non-hazardous waste should always be transported separately. Drivers of vehicles carrying waste should have appropriate training regarding regulations, waste classifications and risks, labeling and documentation, safe handling and emergency procedures.

  
Head of the Department  
Mechanical Engineering



Drivers should also be declared medically fit to drive vehicles and are recommended to have vaccination against tetanus and hepatitis A and B.

### Disposal

Medical waste disposal firms are available to pick up waste that cannot be treated onsite. Waste is then treated and deposited in carefully designed and protected landfills. Additionally, mail-back disposal options exist in some areas, including the greater United States. In mail-back biomedical waste disposal, waste is shipped through the postal service instead of being transported by private companies. The mail-back service is limited to strict postal regulations involving collection and shipping containers that ensure safety during transport and delivery.

Finally, we left the premises at 02 p.m. It was an informative, interesting and a successful visit. As students of Mechanical Engineering, they understand applications and importance of waste management in hospital. We express our thanks to all team members of waste management who spent their valuable time for us.

We also thank to our respected Principal and HOD who motivate us to arrange such an informative program. Lately we request you to arrange more industrial visit in the future for the students which will be helpful for the students and help to train our students as per latest scenario.

(Faculty coordinator)

*Ravi Yadav*

(HOD MECH)

Head of the Department  
Mechanical Engineering  
JECRC, Jaipur