



ADVANCE AUTOMOTIVE MECHANICS

Workshop Date: 5th – 6th March 2018 (2 days)

Fees: 650/- per participant (Non Refundable)

Venue: G.C.O.E., Jalgaon

Certificate of Participation will be given to all participants.

(Only if participant is present on both days)

Session-1

1. Basic Information & Automotive Engine Systems

- Introduction
- History and Indian Automotive Industry
- Industry's Demand
- Automotive Engine Fuels
- Engine Fuel & Exhaust Systems
- Superchargers
- Turbochargers
- Electronic-Fuel-Injection Systems
- Diesel Fuel-Injection Systems
- Engine Lubricating Systems
- Engine Cooling Systems

Session-2

2. Engine Performance and Driveability

- Automotive Emission-Control Systems
- Servicing Emission-Control Systems
- Engine Test Equipment
- Tune-up
- Engine Performance
- Drive ability Diagnosis





Session-3

3. Automotive Drive Trains

- Automotive Clutches: Operation & Service
- Manual Transmissions & Transaxles
- Driveshaft,
- Universal Joints,
- Differentials,
- Drive axles
- Four-Wheel Drive,
- Transfer Cases
- Viscous Couplings
- Automatic Transmissions
- Transaxles

Session-4

4. Automotive Chassis

- Automotive Suspension Systems
- Automotive Steering Systems
- Wheel-Alignment,
- Steering,
- Suspension
- Automotive Brakes
- Antilock Braking System
- Electronic Stability Program
- Antilock Braking,
- Traction Control,
- Brake Diagnosis
- Tires & Wheels : Construction

5. Automotive Heating & Air Conditioning

- Ventilation,
- Heating,
- Air Conditioning





Session-5

6. Four-Stroke Engine Assemble and Disassemble

- Engine Disassemble/Assemble by student themselves, trainer will guide and explain each part in detail.
- Quiz Competition

For any further info: Coordinator: Sachchak Waghmare (7620558850)

Co-coordinator: Akash Bhosale - Automotive Mechanics (7798679796)

Website: <https://technoarena.gcoej.ac.in/workshop>



<http://technoarena.gcoej.ac.in>



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Techno-Arena Cell

Government College of Engineering, Jalgaon
Opposite to Government ITI
National Highway 6, Jalgaon



WORKSHOP RULEBOOK

1. Fees for each workshop is **650/- INR** per participant, which once paid is non-refundable.
2. It is compulsory for all participants to bring their college ID card during workshop.
3. For **AI & Machine learning** workshop participant must bring his own laptop. College will NOT provide any computer system. Only charging points will be provided.
4. For **IoT workshop** kits will be provided in group of 4 participant. It is advised that participant form their own group, if not organizers will form group at random. Kits will only be provided for duration of workshop and taken back after workshop. Interested group/participant can buy kit on spot.
5. For **IoT workshop** each group must have atleast one laptop in their group. College will not provide any computer system. Only charging points will be provided.
6. Participants will have to report at sharp 7.30 am on 5th March 2018 for workshop registration. Workshop will start from 8:00 am.
7. Snacks & Tea will be provided during break.
8. Hospitality (accommodation + dinner) will be provided to participant in college student's hostel on payment of nominal fees. For more details contact Hospitality Team.
9. Certificate will be provided to only those candidates who will attend the workshop for complete two days.
10. Organizers reserve the right to cancel any workshop at any moment and modify any rule without prior notice. Organizers decision will be final and binding to all participants.

For any further info: Coordinator: Sachchak Waghmare (7620558850)

Co-coordinator: Akash Bhosale - Automotive Mechanics (7798679796)

Co-coordinator: Aditya Rokade - AI & M/C Learning (7767023353)

Co-coordinator: Uday Devikar - IOT & RasPi (80874 36966)

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