



J C Bose University of Science and Technology, YMCA, Faridabad
Department of Mechanical Engineering and Royal Enfield
Organizes a Value-added Training Program
On
Basics of Automobile
(6 -10 June 2022)

Course Objective: To provide the basic knowledge of Automobile to the student

Day 1	DAY 2
Introduction with Participants and discussion on their past experience RE History Video (History) (I will 1 Mill) Explain FAB of UCE ,Himalayan & 650 cc, Frame Number Explanation Power Flow Self Start and from Piston to Wheel in Cut Section Model Engine / Vehicle Technical Specification Water wash do and don't "Periodical Maintenance Schedule Training of All models" Engine Practical UCE Oil Replacement Process with SOPs Lubrication Circuit on Half engine Valve Timing Alignment Procedure Cam Sleeve Adjustment Function of Auto Decompresses and Location UCE Function of Sprag Clutch and problem Discussion Clutch Dismantle and explanation Torque Values	Engine Practical 410 cc Oil Replacement Process with SOPs Lubrication Circuit on Half engine Valve Timing Alignment Procedure Valve Clearance adjustment Procedure 410 cc Function of Sprag Clutch and problem Discussion Sealant Application on various parts with Sops. Assisted Slipper Clutch dismantle and explanation Torque Values 410 cc and Himalayan individual practise in Live engine Valve adjustment, Valve timing Pre delivery Inspections for all models Preventive Maintenance Schedule for UCE & Himalayan and 650 C

<p>Day 3 Electricals Review (Theory) Electrical Basics Electrical Symbols Electrical Specifications</p> <p>Various Electrical parts and its work and Working principal (CDI, TCI, HT coil, TPS, Magnet Coil, Pulse coil.... Electrical Circuits explanation (Ignition/ Charging/ Headlight/ Signalling Multi-meter Explanation and its usage Demo Bench individual Practise</p>	<p>Day 4 Carburator overhauling as per process UCE BiStarter circuit explanation UCE Cylinder bore Inspection process with the help of Bore gauge UCE checking of crankshaft Runout Cont rod bearing play piston ring piston and cyl bore gap UCE and Himalayan Black smoke or White or Bluishwhite problem identification and resolution as per SOP no 9A UCE Himalayan Rectification of engine overheating of 500 or 535CC UCE and Himalayna Starting Trouble General Fuel Starvation Electrical related and Poor cranking UCE Engine noise identification or type or source Himalayan Lead Acid battery charging procedure Initial charging Battery not charging OR Engine not starting Relay checking process as per SOP</p>
<p>Day 5 Lighting circuit of C350 Starting Circuit of C350 Role of Self starter Motors OR type of starter motors OR working principle Reading of service manual OR electrical wiring diagram of self start bikes OR SOP knowledge EMS EFI Testing procedure Explanation of Starting circuit EFI All sensores location EFI Explain Test pin method EFI EFI Bike not starting properly due Fuel system checking of fuel pump and injector and replacement fuel filter EFI Bikes Dos and Donts EFI RH Pulling as per SOP 6 UCE</p>	

Skill Gain / Employability Opportunity

1. Practical knowledge of working engines
2. Candidates can work practically on different engines of bikes
3. Candidates understand electrical components installed on bikes

Duration: 5 days (7 hours per day)

Total :35 contact hours

No. of seats: 25

Who can apply: B. Tech and M.Tech Mechanical Engineering students.

Fee: This course is free for students of JCBUSTYMCA.

Selection criteria: Selection be based on the first come first served basis.

Certification: Certificate will be issued to eligible students as per criteria.

Link for registering the course: Link for registration: <https://forms.gle/oPVpHnnqXAYvcdj68>

Last date: 30/9/2021

Venue: Center of excellence of Royal Enfield.

Faculty:

Mr Abhishek Kumar Raushan
Zonal Training head, Royal Enfield
Email: avis@royalenfield.com

Mb: 801427478

Program coordinator:

Mr. Surender Singh
Assistant Professor , Department of Mechanical Engineering
Email: surendersngh056@gmail.com
Mb: 9416992291

Program Chair:

Dr Rajkumar
Professor and Chairman, Department of Mechanical Engineering



