



**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**  
**(4<sup>th</sup> -6<sup>th</sup> October 2021)**

**Course Objective:** To provide the basic knowledge of automobile to the student

<b>Day 1</b>	<b>DAY 2</b>
<p>Introduction with participants and discussion on their past experience</p> <ul style="list-style-type: none"> <li>• RE History Video (History) (I Will I Mill)</li> <li>• Explain FAB of UCE, Himalayan &amp; 650 cc, Frame Number Explanation</li> <li>• Power Flow Self Start and from Piston to Wheel in Cut Section Model</li> <li>• Engine/Vehicle Technical Specification</li> <li>• Water wash do and don't Periodical Maintenance Schedule</li> </ul> <p>Engine Practical UCE</p> <ul style="list-style-type: none"> <li>• Oil Replacement Process with SOPs</li> <li>• Lubrication Circuit on Half Engine</li> <li>• Valve Timing Alignment Procedure</li> <li>• Cam Sleeve Adjustment Function of Auto Decompresses and Location UCE</li> <li>• Function of Sprag Clutch and problem discussion</li> <li>• Clutch Dismantle and explanation</li> </ul>	<p>Engine Practical 410 CC</p> <ul style="list-style-type: none"> <li>• Oil Replacement Process with SOPs</li> <li>• Lubrication Circuit on Half Engine</li> <li>• Valve Timing Alignment Procedure</li> <li>• Valve Clearance adjustment procedure 410 CC</li> <li>• Function of Sprag Clutch and problem discussion</li> <li>• Sealant application on various parts with Sops</li> <li>• Assisted Slipper Clutch dismantle and explanation</li> <li>• 410 CC and Himalayan Individual Practice in Live Engine Valve Adjustment, Valve Timing</li> </ul>

<p style="text-align: center;"><b>Day 3</b></p> <p>Electricals Review (Theory)</p> <ul style="list-style-type: none"> <li>• Electrical Basics</li> <li>• Electrical Symbols</li> </ul> <p>Electrical Specifications</p>	<ul style="list-style-type: none"> <li>• Various Electrical parts and its work and working principal (CDI, TCI, HT Coil, TPS, Magnet Coil, Pulse Coil)</li> <li>• Electrical Circuits explanation (Ignition/Charging/Headlight/Signalling)</li> <li>• Multi-Meter explanation and its usage</li> </ul> <p>Demo Bench Individual Practice</p>
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### 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:** 3 days (10 hours per day)

**Total :30 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:** <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**  
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**Program coordinator**

**Mr. Surender Singh**  
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**Program chair**

**Dr Rajkumar**  
**Professor and Chairman, department of Mechanical Engineering**

