Uka Tarsadia University

B. Tech
Auto Scanning and Vehicle Testing
(030130606)
6th Semester
EFFECTIVE FROM January-2013
A. Prerequisite: Basics of Auto Scanning and Vehicle Testing

B. Aim and Objective: To provide a comprehensive knowledge of overall Automobile engineering and Auto scanning and vehical testing

C. Subject Code: 030130606 Subject: Auto Scanning and Vehicle Testing

D. Total: 52 Hrs. [Lecture: 0 Tutorial: 0 Practical: 4]

E. Detailed Syllabus:

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Topic Name</th>
<th>Weightage (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Computerized engine analyzer study and practice</td>
<td>15</td>
</tr>
<tr>
<td>2.</td>
<td>Computerized wheel balancing machine study and practice</td>
<td>15</td>
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<tr>
<td>3.</td>
<td>Computerized wheel alignment machine study and practice</td>
<td>20</td>
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<tr>
<td>4.</td>
<td>Exhaust emission test of petrol and diesel engine and City drive fuel consumption tests</td>
<td>15</td>
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<td>5.</td>
<td>Two wheeler chassis dynamometer study and practice and Head light focusing test and Visibility test</td>
<td>15</td>
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<tr>
<td>6.</td>
<td>Road worthiness test: Acceleration, Gradability, Maximum speed, Constant Speed fuel consumption and Braking distance test</td>
<td>20</td>
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</tbody>
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F. Modes of Transaction (i.e. Delivery)
   1. Lectures /discussion method shall be fruitful. It should be supplemented with various appropriate audio-visual aids.
   2. Activity assignment or presentation shall be given to students.

G. Teachers Activities/Practicum
   The following activities should be carried out by the teachers:
   1. Demonstrating through video lecture.
   2. Assign Assignments on regular period.
   3. Assessment of submissions.

H. Student Activities/Practicum
   The following activities may be carried out by the students:
   1. Assignment submission
   2. Sample calculation and result analysis.
   3. Making graph related to the experiment done.