The Testing and Certification industry has been identified by the HKSAR Government for strategic development. Testing and Certification is a new academic discipline and the OUHK has attained solid experience in providing undergraduate and postgraduate trainings in this area. Following the establishment of the OU-New College, the OUHK is offering a 4-year full-time face-to-face BSc(Hons) in Testing and Certification programme starting 2013.

Programme Structure (Total: 170 credits)

<table>
<thead>
<tr>
<th>Courses</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core (Common)</td>
<td>95 credits</td>
</tr>
<tr>
<td>Core (Specialization)</td>
<td>25 credits</td>
</tr>
<tr>
<td>Practicum</td>
<td>10 credits</td>
</tr>
<tr>
<td>General Mathematics and IT</td>
<td>10 credits</td>
</tr>
<tr>
<td>Language Enhancement</td>
<td>10 credits</td>
</tr>
<tr>
<td>General Education</td>
<td>20 credits</td>
</tr>
</tbody>
</table>

Highlights of Core Courses (Common & Specialization)

**Year 1 - Common Core Courses**
- Calculus & Algebra
- Lab Safety & Good Laboratory Practice

**Year 2 - Common Core Courses**
- Basic Electronics
- Introduction to Biochemistry
- Introduction to Biochemistry
- Statistical Analysis
- Principles of Product Design & Manufacturing Process Management

**Years 3 & 4 - Common Core Courses**
- Quality Management
- Test Method Development & Validation
- Conformity Assessment & Laboratory Accreditation
- Audit, Inspection & Certification

**Years 3 & 4 - Specialization Core Courses**
- **Electrical & Electronics**
  - Electronic Circuit Design
  - Electrical Safety & Energy Efficiency
  - EMC Measurement & Control
  - Selected Electrical & Electronic T&C Standards
  - Electrical & Electronic T&C in Practice

- **Physical & Mechanical**
  - Physical & Mechanical Behavior of Materials
  - Principles of Physical & Mechanical Characterization & Testing
  - Selected Physical & Mechanical T&C Standards
  - Physical & Mechanical T&C in Practice

- **Chemical & Microbiological**
  - Analytical Chemistry for Product Testing
  - Microbiology & Toxicology
  - Chemical & Microbiological Analytical Techniques
  - Selected Chemical & Microbiological T&C Standards
  - Chemical & Microbiological T&C in Practice

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