Course Code & Title : CM4012 Structural Determination
Academic Units : 3 AU
Pre-requisite : CM3011 and CM3021 or by permission

CM4012 Structural Determination
[Lectures: 39; Pre-requisite: CM3011, CM3021 or by permission; Academic Units: 3]

Learning Objectives
To build upon previous courses and introduce more advanced concepts and techniques.

Content
Application of two most used modern instrumentation methods for structural determination, X-ray diffraction and Nuclear magnetic resonance

Course Outline

<table>
<thead>
<tr>
<th>S/No.</th>
<th>Topic</th>
<th>Lecture hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>X-ray diffraction</td>
<td>21</td>
</tr>
<tr>
<td>2</td>
<td>Resonance methods</td>
<td>18</td>
</tr>
</tbody>
</table>

Learning Outcomes
Students will be able to apply more advanced techniques and interpret the results.

Student Assessment
Students will be assessed by a final 2-hour written examination (60%) and continuous assessment (40%).