## **BSc Major in Physics for Modern Technology Program Structure**

Colour Code: Lots of Lab Work (red)
Some Lab Work (blue)
Little to No Lab Work (black)

Year 1 (Richmond or Surrey campus)	Year 2	Year 3 (Richmond campus)	Year 4
Semester 1	Semester 3	Semester 5	Semester 7
<ul> <li>Physics I</li> <li>Calculus I</li> <li>Intro to Modern Technology</li> <li>Chemistry I</li> <li>English</li> </ul>	<ul> <li>Electricity &amp; Magnetism</li> <li>Modern Physics</li> <li>Experimental Physics</li> <li>Thermal Physics</li> <li>Complex Numbers &amp; Linear Algebra</li> </ul>	<ul> <li>Intro to Control</li> <li>Applied Optics         <ul> <li>Optoelectronics</li> </ul> </li> <li>Analytical Chemistry</li> <li>Project</li> <li>Business Elective</li> </ul>	<ul> <li>Quantum Mechanics</li> <li>Programming for Instrumentation</li> <li>Senior Project – Part 1</li> <li>Business Elective</li> <li>Elective</li> </ul>
Semester 2	Semester 4	Semester 6	Semester 8
<ul> <li>Physics II</li> <li>Calculus II</li> <li>Chemistry II</li> <li>Biology</li> <li>Elective</li> </ul>	<ul> <li>Classical Mechanics</li> <li>Electronics</li> <li>Sensors &amp; Actuators</li> <li>Multivariate &amp; Vector Calculus</li> <li>Elective</li> </ul>	<ul> <li>Process Control</li> <li>Signal &amp; Image Processing</li> <li>Special Topic</li> <li>Work Experience</li> </ul>	<ul> <li>Solid State Physics</li> <li>Instrumental Analysis</li> <li>Senior Project – Part 2</li> <li>Elective</li> <li>Elective</li> </ul>