<table>
<thead>
<tr>
<th>Facility</th>
<th>Location</th>
<th>Staff-in-charge</th>
<th>Tel. ext.</th>
<th>Brief Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atomic Force Microscope -</td>
<td>S13-01-02</td>
<td>Acad staff: A/P Andrew Wee</td>
<td>6362</td>
<td>Scanner range: 90 µm by 6µm (z-axis). Uses a very sharp cantilever tip to map the surface of relatively smooth flat surfaces.</td>
</tr>
<tr>
<td>Dimension 3000</td>
<td></td>
<td>Lab Officers: Ms Ng Soo Ngo</td>
<td>2823</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Mr Ong Pang Ming</td>
<td>2632</td>
<td></td>
</tr>
<tr>
<td>X-Ray Diffractometer - Philips</td>
<td>S13-01-05</td>
<td>Acad staff: A/P Andrew Wee</td>
<td>6362</td>
<td>Target - Cu: for powders &amp; thin materials</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lab Officer: Ms Pang Teng Jar</td>
<td>2630</td>
<td></td>
</tr>
<tr>
<td>Micro Hardness Tester - Akashi</td>
<td>S12-02-7</td>
<td>Lab Officer: Ms Pang Teng Jar</td>
<td>2630</td>
<td>Testing hardness of materials: knoop - max load 1 kg.</td>
</tr>
<tr>
<td>Quintel Q-2001 CT Mask Aligner</td>
<td>S12-04-11</td>
<td>Lab Officer: Mr Lim Geok Quee</td>
<td>2630</td>
<td>Process of etching, development of certain photolithographic components into interconnection patterns.</td>
</tr>
<tr>
<td>PECVD System</td>
<td>S12-03-22</td>
<td>Acad staff: A/P Lin Jian Yi</td>
<td>2616</td>
<td>Plasma Enhanced Chemical Vapour Deposition on Silicon Wafer or Glass (Quartz) slide.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lab Officer: Mr Chen Gin Seng</td>
<td>2823</td>
<td></td>
</tr>
<tr>
<td>RF Sputtering Machine</td>
<td>S12-03-22</td>
<td>Acad staff: A/P Andrew Wee</td>
<td>6362</td>
<td>Thin film deposition by technique of sputtering.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lab Officer: Mr Chen Gin Seng</td>
<td>2823</td>
<td></td>
</tr>
<tr>
<td>Gamma Irradiator</td>
<td>S7</td>
<td>Acad staff: Prof Frank Watt</td>
<td>2815</td>
<td>Gamma Chamber 4000A - intensity 30 krad/hr: irradiate samples with gamma rays</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lab Officer: Mr Choo Theam Fook</td>
<td>2639</td>
<td></td>
</tr>
<tr>
<td>FTIR - Biorad</td>
<td>S12-02-7</td>
<td>Lab Officer: Mrs Lee Soo Mien</td>
<td>2823</td>
<td>For absorbance &amp; transmittance measurements within wave number 500 - 4000 cm(^{-1}) range.</td>
</tr>
<tr>
<td>Polisher/Grinder - Metaserv</td>
<td>S12-02-7</td>
<td>Lab Officer: Mr Lim Teck Seng</td>
<td>2633</td>
<td>Table model with protocol: 0 - 300 rpm, 8&quot; polishing wheel.</td>
</tr>
<tr>
<td>Hydraulic Press - Specac</td>
<td>S12-02-7</td>
<td>Lab Officer: Mr Lim Teck Seng</td>
<td>2633</td>
<td>0 - 15 tons: pallet size 1 cm diameter.</td>
</tr>
<tr>
<td>Equipment</td>
<td>Location</td>
<td>Type</td>
<td>Contact</td>
<td>Phone</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>------------</td>
<td>--------------------</td>
<td>--------------------</td>
<td>--------</td>
</tr>
<tr>
<td>X-Ray Fluorescence</td>
<td>S12-02-7</td>
<td>Lab Officer: Mr Ng Tong Hoe</td>
<td>2632</td>
<td>Qualitative &amp; quantitative analysis of inorganic materials using energy dispersive technique.</td>
</tr>
<tr>
<td>UV-NIR Spectrophotometer</td>
<td>S12-02-7</td>
<td>Acad staff: Asst Prof Sow C H</td>
<td>2957</td>
<td>For absorbance &amp; transmittance measurements. Spectral range 200-1100 nm. Resolution &lt;2nm</td>
</tr>
<tr>
<td>Scanning Electron Microscope - JEOL 35CF</td>
<td>S13-01-03</td>
<td>Acad staff: A/P Andrew Wee</td>
<td>6362</td>
<td>0 - 39 KV, Filament - tungsten hair-pin type, SEI/BEI; Energy Dispersive X-Ray Spectrometer for qualitative analysis.</td>
</tr>
<tr>
<td>Field Emission Scanning Electron Microscope - JEOL JSM6700F</td>
<td>S13-01-03</td>
<td>Acad staff: A/P Lin Jian Yi</td>
<td>2616</td>
<td>0.5 to 30 KV Magnification: 25X up to 650KX Resolution: 1.0nm</td>
</tr>
<tr>
<td>Computer - P4, 1.4G</td>
<td>S12-02-7</td>
<td>Lab Officer: Mr Ho Kwok Wen</td>
<td>2999/2809</td>
<td>Software installed for data analysis - Bruker X-Ray diffractometer.</td>
</tr>
<tr>
<td>Printer - HP Color 5500</td>
<td>Dept Office</td>
<td>TSO Ben Kek</td>
<td>2604</td>
<td>Laserjet color printer</td>
</tr>
<tr>
<td>Scanner - Epson 2450</td>
<td>Dept Office</td>
<td>TSO Ben Kek</td>
<td>2604</td>
<td>High optical resolution of 2400 dpi</td>
</tr>
<tr>
<td>Computer</td>
<td>Dept Office</td>
<td>TSO Ben Kek</td>
<td>2604</td>
<td>Dell P4, 2.4G</td>
</tr>
</tbody>
</table>

Sep-03