**ST. MARY'S COLLEGE**

**FORM FOUR**

**SUBJECT- TECHNICAL DRAWING**

Course Outline 2014-2015

**Term 1**

| Proposed Date/Week | Unit/Section | Topic | Modules |
|---|---|---|---|
| | | Orientation | Introduction to AutoCAD |
| Wk 1 | Basic CAD | AutoCAD commands | : 01 – Lines: Vertical and Horizontal |
| | | | : 02 – Erase, Oops |
| | | | : 03 – Rectangle, Circles |
| | | | : 04 – Zoom, Undo, Redo, Save, Save As |
| Wk 2 | | | :05 – Polar Tracking<br>:06 – Polar Snap<br>:07 – Object Snap<br>:08 - Object Snap Tracking |
| Wk 3 | | | -DO- |
| Wk 4 | | | :09 - Selecting Objects<br>:10 - Copy<br>:11 - Move<br>:12 - Rotate<br>:13 - Scale |
| Wk 5 | | | -DO- |
| Wk 6 | | AutoCAD commands | :14 - Layers<br>:15 - Match Properties<br>:16 - List |
| Wk 7 | | | ASSESSMENT |
| Wk 8 | | | :18 – Polyline<br>:19 - Explode |
| Wk 9 | Basic CAD | AutoCAD commands | :20 – Trim<br>:21 – Extend<br>:22 - Fillet<br>:23 - Chamfer |
| Wk 10 | | | :24 – Offset<br>:25 – Mirror<br>:26 – Array_Polar - Rectangle |
| Wk 11 | Basic CAD | | ASSESSMENT |
| Wk 12 | | | ASSIGNMENTS |
| Wk 13 | | | ASSIGNMENTS |
| Wk 14 | | | REVISION |
| Wk 15 | | | End of Term Examination |

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Course Outline 2014-2015

**Term 2**

| Proposed Date/Week | Unit/Section | Topic | Modules |
|---|---|---|---|
| Wk 1 | Solid Geometry | Pictorial Drawing | : 01 – Isometric Projection_ Isometric Lines |
| Wk 2 | | | : 02 – Isometric Projection _ Non Isometric Lines |
| Wk 3 | | | : 03 – Isometric Projection _ Curves and Circles |
| Wk 4 | | | -DO- |
| Wk 5 | | Orthographic Projection | : 04 – Orthographic Projection _ Plan, Elevation |
| Wk 6 | | | -DO- |
| Wk 7 | | | CARNIVAL |
| Wk 8 | | Orthographic Projection | : 05 – Orthographic Projection _ Plan, Elevation, End View |
| Wk 9 | | | -DO- |
| Wk 10 | | | -DO- |
| Wk 11 | | | -DO- |
| Wk 12 | | | End of Term Examination |

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Course Outline 2014-2015

**Term 3**

| Proposed Date/Week | Unit/Section | Topic | Modules |
|---|---|---|---|
| **Wk 1** | **Solid Geometry** | **Sectioning** | **01: Simple Sections** |
| **Wk 2** | | | **02: Simple Assembly Drawing** |
| **Wk 3** | **Plane Geometry** | **Plane Figures** | **04: Triangles** |
| **Wk 4** | **Plane Geometry** | **Plane Figures** | **05: Quadrilaterals** |
| **Wk 5** | **Plane Geometry** | **Plane Figures** | **06: Polygons** |
| **Wk 6** | **Solid Geometry** | **Development** | **07: Solids - Prisms** |
| **Wk 7** | | **Development** | **08: Solids - Pyramids** |
| **Wk 8** | **Plane Geometry** | **Principles of Tangency** | **09: Tangency_ Direct and Indirect** |
| **Wk 9** | | | **10: Tangency** |
| **Wk 10** | | **Loci** | **11: Cycloids, Involute, Spirals, Helix** |
| **Wk 11** | | | **12: Link Mechanisms** |
| **Wk 12** | | | **End of Term Examination** |