

ST. MARY'S COLLEGE
FORM Lower Six
SUBJECT- GMED
Course Outline 2014-2015

Term 1

Proposed Date/Week	Unit/Section	Topic	Modules
Wk 1		Orientation	<ul style="list-style-type: none"> • Standards and Procedures • Diagnostic Examination
Wk 2	01:01	Centroids	Centre of Gravity Internal Assessment (# 01-a)
Wk 3	01:01	Integration of Areas	Centroids- First and Second Moments of Areas Internal Assessment (# 01-b)
Wk 4 & 5	01:01	Cams	<ul style="list-style-type: none"> • Cam Mechanisms/Motions • Knife Edge – Inline & Offset • Roller – Inline & Offset • Flat – Inline & Offset • Radial Arms • Internal Assessment (# 02)
Wk 6 & 7	01:02	Intersection of Solids	<ul style="list-style-type: none"> • Cylinders • Prisms • Cones • Pyramids • Spheres • Internal Assessment (# 03-a)
Wk 8 & 9	01:02	Surface Developments	<ul style="list-style-type: none"> • Cylinders • Prisms • Cones • Pyramids • Transitional Pieces • Internal Assessment (# 03-b)
Wk 10 & 11	01:02	Computer Aided Design (CAD)	<ul style="list-style-type: none"> • Internal Assessment (# 04)
Wk 12 & 13	01:01	Conic Sections & Loci	<ul style="list-style-type: none"> • Ellipse • Parabola • Hyperbola • Involute • Spirals • Cycloidial curves • Link Mechanism
Wk 14 & 15	01:01 & 01:02	Christmas Examinations	<ul style="list-style-type: none"> • All topics covered for the term

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Term 2

Proposed Date/Week	Unit/Section	Topic	Modules
Wk 1	02 : 03	Design Process	Design Stages IA (05) Discussion
Wk 1 & 2	01 : 03	Design	Accessories Mechanisms Fasteners Hydraulics Systems Machine Tools IA (05) Discussion
Wk 3	01 : 02	Orthographic Projection	First Angle Projection Third Angle Projection IA (05) Discussion
Wk 4 & 5	01 : 03	Freehand Sketching	Isometric / Oblique Drawings/ Planometric/ 2 Pt. Perspective / IA (05) Discussion
Wk 6 & 7	01 : 03	Working Drawings	Assembly Drawings Internal Assessment (# 05)
Wk 8	01 : 03	Detailed Drawings	Dimensioning Balloon Referencing Parts Listing Internal Assessment (# 06)
Wk 9 & 10	01 : 02	Auxiliary Projection	Projection of Plane Figures Projection of Solids True Lengths True Shape
Wk 11 & 12	01 : 02	Helix	Screw Threads Springs Cylindrical Forms Conical Forms