

NAME: Kwasi Brempong Owusu-Akyaw
DEPARTMENT: Technology Education
EMAIL: kwasibrempong@yahoo.com

COURSE: COMPUTER AIDED DESIGN

COURSE OBJECTIVE

After completing the course, student will be able to use Auto-CAD to:

- Explain the concept of computer-Aided Design and apply them in Pre-Technical skills for Basic schools
- Teach AutoCAD and its application in technical and Engineering Graphics Communication in Vocational and Technical Institutions
- Design buildings, furniture and other machine parts.
- Design models of object to be constructed in their areas of specialization.
- Design patterns and fabrics, and construct garments.

TITLE

1. Using the AutoCAD Interface, and Command and Coordinate Entry methods.
2. Applying the AutoCAD's Draw and modify commands in geometric construction.
3. Drawing isometric views and multi-views of artifacts, and applying them in building drawing.
4. Dimensioning designed objects.
5. Designing, displaying and viewing object in three-dimension.
6. Constructing wire frame, surface and solid models.
7. Modifying models and creating composite solid,
8. Rendering models with materials and background
9. Designing Landscape and landscape objects.
10. Using viewports and layout in designing objects
11. Printing and plotting designed objects

REFERENCES

Owusu-Akyaw K.B (2007) Computer-Aided Design with AutoCAD. *OSPRA Printing Press Kumasi*

Owusu-Akyaw K.B (2007) Designing in Three-Dimension with AutoCAD. *OSPRA Printing Press Kumasi*

Leach A.J. (2002).AutoCAD 2002 Instructor. *McCraw-Hill companies Inc, New York*

Leach A.J. (2002).AutoCAD 2002 Companion. *McCraw-Hill companies Inc, New York*

BOOKS

Owusu-Akyaw, K.B. (2007). Introduction to Information Technology: Tools and Concepts. *OSPRA Printing Press Kumasi.*

Owusu-Akyaw K.B (2007) Designing in Three-Dimension with AutoCAD. *OSPRA Printing Press Kumasi*

Owusu-Akyaw K.B (2007) Computer-Aided Design with AutoCAD. *OSPRA Printing Press Kumasi*

ARTICLES

Owusu-Akyaw, K.B. (2008). Evaluating the performance of Junior Secondary Schools in Atwima District with Geographic Information system. Ghana Journal of Education and Teaching, University of Education, Winneba.