

Hong Kong Institute of Vocational Education (Tsing Yi Nexus)

Engineering Course Board

Module Teaching Plan

Module Title **Computer Aided Design Fundamentals** **Module Code** **ENG3321**
Module Leader **F H TANG** **Course Code** **91301 or 913xx**
Course (stream) **HD in Mechanical Engineering, or other HD courses in Engineering**

Schedule of Teaching and Assessment

| Week No. | Contact hour | Key content areas | | Assessment |
|----------|--------------|---|------------------------------------|-------------------|
| | | CAD | Drafting | |
| 1 | 2 | Introduction to CAD systems | | Assign 1 (5%) |
| 2 | 2 | CAD basics | | |
| 3 | 2 | Creating 2D objects | | |
| 4 | 2 | View and layer, text and hatching | | |
| 5 | 2 | Editing 2D objects | | |
| 6 | 2 | CAD practice | Introductory to drafting standards | Assign 2 (10%) |
| 7 | 2 | Applications in technical drawing CAD practice | Orthographic projections | |
| 8 | 2 | CAD practice | Sectional views | |
| 9 | 2 | Dimensioning CAD practice | Dimensioning | Assign 3 (5%) |
| 10 | 2 | Applications in technical drawing CAD practice | Pictorial projections | |
| 11 | 1 | Assessment (test 1) | | |
| 11, 12 | 2 | Blocks and attributes | | Test 2 (15%) |
| 12, 13 | 2 | Drawing layout and plotting | | |
| 13 | 1 | Assessment (test 2) | | |
| 14,15 | 3 | Application of CAD in mechanical drawing | Conventions and symbols | Assign 4 (10%) |
| 15 | 1 | | Assessment (quiz) | Quiz (25%) |

Revised 1 September 2004