

## Tamkang University Academic Year 110, 1st Semester Course Syllabus

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|--|---|------------|--|
| Course Title   | TECHNICAL WRITING   | Instructor | PETER LIU  |
| Course Class   | TETIM1S<br>MASTER'S PROGRAM, DIVISION OF ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS,<br>DEPARTMENT OF ELECTRICAL AND COMPUTER ENGINEERING, 1S | Details    | <ul style="list-style-type: none"> <li>◆ General Course</li> <li>◆ Required</li> <li>◆ One Semester</li> </ul> |
| Relevance to SDGs  | SDG1 No poverty   |            |  |
| <b>Departmental Aim of Education</b>   |   |            |  |
| <ul style="list-style-type: none"> <li>I. Educate students to have electrical and robotic engineering knowledge to solve electrical engineering related problems.</li> <li>II. Educate the student as a senior electrical and robotic engineer to enable creative thinking, to be independently complete the assigned tasks and be willing to work as a team member.</li> <li>III. Educate students to have advanced global awareness to cope with the challenges of modern diversified professor careers.</li> </ul>  |   |            |  |
| <b>Subject Departmental core competences</b>   |   |            |  |
| <ul style="list-style-type: none"> <li>B. Core competency 1.2: Have the ability to plan and execute electrical and robotic engineering research studies.(ratio:20.00)</li> <li>C. Core competency 2.1: Have the ability to prepare professional papers in the electrical and robotic engineering field.(ratio:40.00)</li> <li>E. Core competency 2.3: Have the ability to lead, manage, plan, coordinate and integrate personnel from various fields.(ratio:20.00)</li> <li>F. Core competency 3.1: Have advanced global awareness and the ability of lifelong self-study.(ratio:20.00)</li> </ul> |   |            |  |
| <b>Subject Schoolwide essential virtues</b>  |   |            |  |
| <ul style="list-style-type: none"> <li>1. A global perspective. (ratio:40.00)</li> <li>5. Independent thinking. (ratio:25.00)</li> <li>6. A cheerful attitude and healthy lifestyle. (ratio:25.00)</li> <li>8. A sense of aesthetic appreciation. (ratio:10.00)</li> </ul>   |   |            |  |

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| Course<br>Introduction | Let students understand the differences between technical writing and normal daily writing with emphasis on how to find, read, summarize and write technical documents in a professional manner. |
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**The correspondences between the course's instructional objectives and the cognitive, affective, and psychomotor objectives.**

Differentiate the various objective methods among the cognitive, affective and psychomotor domains of the course's instructional objectives.

I. Cognitive : Emphasis upon the study of various kinds of knowledge in the cognition of the course's veracity, conception, procedures, outcomes, etc.

II. Affective : Emphasis upon the study of various kinds of knowledge in the course's appeal, morals, attitude, conviction, values, etc.

III. Psychomotor: Emphasis upon the study of the course's physical activity and technical manipulation.

| No. | Teaching Objectives  | objective methods |
|-----|--|-------------------|
| 1   | To let students be able to write technical documents and deliver professional talks. | Psychomotor       |

The correspondences of teaching objectives : core competences, essential virtues, teaching methods, and assessment

| No. | Core Competences | Essential Virtues | Teaching Methods                             | Assessment  |
|-----|------------------|-------------------|--|---|
| 1   | BCEF             | 1568              | Lecture, Discussion, Publication, Experience | Study Assignments, Discussion(including classroom and online), Report(including oral and written) |

Course Schedule

| Week | Date                     | Course Contents                  | Note |
|------|--------------------------|----------------------------------|------|
| 1    | 110/09/22 ~<br>110/09/28 | Course Overview                  |      |
| 2    | 110/09/29 ~<br>110/10/05 | Differences of Technical Writing |      |
| 3    | 110/10/06 ~<br>110/10/12 | Finding what you want - I        |      |
| 4    | 110/10/13 ~<br>110/10/19 | Finding what you want - II       |      |

|                                  |                          |  |  |
|----------------------------------|--------------------------|--|--|
| 5                                | 110/10/20 ~<br>110/10/26 | Efficient Reading of Technical Documents - I   |  |
| 6                                | 110/10/27 ~<br>110/11/02 | Efficient Reading of Technical Documents - II  |  |
| 7                                | 110/11/03 ~<br>110/11/09 | Summarizing and Dissemination of Literature - I  |  |
| 8                                | 110/11/10 ~<br>110/11/16 | Summarizing and Dissemination of Literature - II   |  |
| 9                                | 110/11/17 ~<br>110/11/23 | Main parts of technical Documents  |  |
| 10                               | 110/11/24 ~<br>110/11/30 | Midterm  |  |
| 11                               | 110/12/01 ~<br>110/12/07 | How to begin writing - I   |  |
| 12                               | 110/12/08 ~<br>110/12/14 | How to begin writing - II  |  |
| 13                               | 110/12/15 ~<br>110/12/21 | Common errors of technical writing - I   |  |
| 14                               | 110/12/22 ~<br>110/12/28 | Common errors of technical writing - II  |  |
| 15                               | 110/12/29 ~<br>111/01/04 | Student Presentation - I   |  |
| 16                               | 111/01/05 ~<br>111/01/11 | Student Presentation - II  |  |
| 17                               | 111/01/12 ~<br>111/01/18 | Student Presentation - III   |  |
| 18                               | 111/01/19 ~<br>111/01/25 | Finals and Student Presentation - IV   |  |
| Requirement                      |                          |  |  |
| Teaching Facility                |                          | Computer, Projector  |  |
| Textbooks and Teaching Materials |                          | 上課投影片  |  |
| References                       |                          |  |  |
| Number of Assignment(s)          |                          | (Filled in by assignment instructor only)  |  |
| Grading Policy                   |                          | ◆ Attendance : 20.0 %   ◆ Mark of Usual : 40.0 %   ◆ Midterm Exam :   %<br>◆ Final Exam :   %<br>◆ Other 〈 期末報告 〉 : 40.0 % |  |
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| Note | <p>This syllabus may be uploaded at the website of Course Syllabus Management System at <a href="http://info.ais.tku.edu.tw/csp">http://info.ais.tku.edu.tw/csp</a> or through the link of Course Syllabus Upload posted on the home page of TKU Office of Academic Affairs at <a href="http://www.acad.tku.edu.tw/CS/main.php">http://www.acad.tku.edu.tw/CS/main.php</a>.</p> <p>※ <b>Unauthorized photocopying is illegal. Using original textbooks is advised. It is a crime to improperly photocopy others' publications.</b></p> |
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