



MUTAH UNIVERSITY
Faculty of Engineering
Department of Electrical Engineering



Course Syllabus

| Course Code | Course Name | Credits | Contact Hours |
|-------------|------------------------|---------|---------------|
| 0401591 | Graduation Project (2) | 3 | 3 T |

| INSTRUCTOR/COORDINATOR | |
|------------------------|--------------------|
| Name | EE Academic member |
| Email | ----- |
| Office Hours | ----- |

| TEXTBOOK | |
|------------------------------|-------------------|
| Title | Project dependent |
| Author/Year/Edition | |
| Other Supplemental Materials | |
| Title | Project dependent |
| Author/Year/Edition | |

| SPECIFIC COURSE INFORMATION |
|---|
| A. Brief Description of the Content of the Course (Catalog Description) |
| Preparatory studies of literature and data collection for the graduation project in a particular area of concentration and under the supervision of one of the faculty members. Students will work in small groups and will have advanced individual projects with significant engineering content involving some or all the following: project planning, design requirements, implementation, theoretical analysis, Experimental work (if applicable) and project reporting. |
| B. Pre-requisites (P) or Co-requisites (C) |
| Graduation Project (1) (0401500) (P) |
| C. Course Type (Required or Elective) |
| Required |
| SPECIFIC GOALS |
| A. Course Learning Outcomes (CLOs) |

By the end of this course, the student should be able to:

- Design the project.
- Construct and test the project.
- A detailed report of the project is prepared.
- Present the work orally.

B. Student Learning Outcomes (SOs) Addressed by the Course

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

BRIEF LIST OF TOPICS TO BE COVERED

| List of Topics | No. of Weeks | Contact Hours |
|---|--------------|---------------|
| Practical implementation of the project approved in the first portion of the graduation project sequence. A final report and presentation are required. | 1-14 | 42 |
| <i>Total</i> | <i>14</i> | <i>42</i> |

EVALUATION

| Assessment Tool | Due Date | Weight (%) |
|---|----------------------------|------------|
| Supervisor progress evaluation and Report | At the end of the semester | 40 |
| Examiners evaluation | At the end of the semester | 60 |

ABET's Students Learning Outcomes (Criterion # 3)

| Relationship to program outcomes | |
|----------------------------------|---|
| ABET 1-7 | Engineering Student Outcomes |
| 1 | ✓ an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics |
| 2 | ✓ an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors. |
| 3 | ✓ an ability to communicate effectively with a range of audiences. |
| 4 | ✓ an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts. |

| | | |
|---|---|---|
| 5 | √ | an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives. |
| 6 | √ | an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions. |
| 7 | √ | an ability to acquire and apply new knowledge as needed, using appropriate learning strategies. |