**SO3. An ability to communicate effectively with a range of audiences**

**Passing criterion >= 70%**

PI 3-1 Demonstrate clearly, precise, and concise presentation using appropriate terminology

PI 3-2 Show confidence and use appropriate tone and gesture to make audience concentration in presentation

**EGCO332 Embedded System**

**Course Project**

1. According to the content of embedded system in this course, students gained the experience to implement the simple embedded system in term of hardware and software. In this project, all students are required to form team as a startup. Each startup has to produce a startup project which is related to the embedded system. In summary, all startups are required to:

1. Create an innovative embedded product

- Demonstrate the proposed product

2. Present a startup project

- Each startup has 10 minutes for pitching. The content must include all the following:

- Problem definition and objectives

- Concept ideas

- Innovative embedded product

- Technology behind

- Business plan

3. Do the PR poster

- Design poster to describe ideas and inspiration to help you get the word out about your brand, or product.

| **Student No.** | **PI 3-1  Pass at 4 points** | **PI 3-2 pass at 4 points** |
| --- | --- | --- |
| 6013110 | 4 (✓) | 4 (✓) |
| 6013111 | 4 (✓) | 4 (✓) |
| 6013112 | 5 (✓) | 5 (✓) |
| 6013113 | 4 (✓) | 4 (✓) |
| 6013114 | 5 (✓) | 5 (✓) |
| 6013115 | 4 (✓) | 4 (✓) |
| 6013116 | 5 (✓) | 5 (✓) |
| 6013117 | 4 (✓) | 4 (✓) |
| 6013118 | 4 (✓) | 4 (✓) |
| 6013119 | 4 (✓) | 4 (✓) |
| 6013120 | 5 (✓) | 5 (✓) |
| 6013121 | 5 (✓) | 5 (✓) |
| 6013122 | 4 (✓) | 4 (✓) |
| 6013123 | 5 (✓) | 5 (✓) |
| 6013124 | 5 (✓) | 5 (✓) |
| 6013125 | 5 (✓) | 5 (✓) |
| 6013126 | 5 (✓) | 5 (✓) |
| 6013127 | 4 (✓) | 4 (✓) |
| 6013128 | 3 (🗶) | 3 (🗶) |
| 6013129 | 4 (✓) | 4 (✓) |
| 6013130 | 3 (🗶) | 3 (🗶) |
| 6013131 | 3 (🗶) | 3 (🗶) |
| 6013132 | 3 (🗶) | 3 (🗶) |
| 6013285 | 4 (✓) | 4 (✓) |
| 6013286 | 3 (🗶) | 3 (🗶) |
| 6013287 | 4 (✓) | 4 (✓) |
| 6013288 | 5 (✓) | 5 (✓) |
| 6013289 | 3 (🗶) | 3 (🗶) |
| 6013290 | 3 (🗶) | 3 (🗶) |
| 6013291 | 4 (✓) | 4 (✓) |
| 6013292 | 5 (✓) | 5 (✓) |
| 6013293 | 4 (✓) | 4 (✓) |
| 6013294 | 4 (✓) | 4 (✓) |
| 6013296 | 4 (✓) | 4 (✓) |
| 6013297 | 3 (🗶) | 3 (🗶) |
| 6013300 | 4 (✓) | 4 (✓) |
| 6013301 | 5 (✓) | 5 (✓) |
| Number of Pass | 29 | 29 |

PI 3-1: Attainability = 29/37 = 78.37% **Attainable**

PI 3-2: Attainability = 29/37 = 78.37% **Attainable**

**SO3 Conclusion**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PI** | **Attainability** | **Reason** | **Remedial Action** | **Action plan** | **Measurements** |
| 3-1 | ✓ |  |  |  |  |
| 3-2 | ✓ |  |  |  |  |

**SO5. 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 objective.**

**Passing criterion >= 70%**

PI 5-1 Assign the appropriate tasks and establish plans to finish work and meet goals on time

PI 5-2 Create fair collaboration

**EGCO332 Embedded System**

**Course Project**

1. According to the content of embedded system in this course, students gained the experience to implement the simple embedded system in term of hardware and software. In this project, all students are required to form team as a startup. Each startup has to produce a startup project which is related to the embedded system. In summary, all startups are required to:

1. Create an innovative embedded product

- Demonstrate the proposed product

2. Present a startup project

- Each startup has 10 minutes for pitching. The content must include all the following:

- Problem definition and objectives

- Concept ideas

- Innovative embedded product

- Technology behind

- Business plan

3. Do the PR poster

- Design poster to describe ideas and inspiration to help you get the word out about your brand, or product.

| **Student No.** | **PI 5-1  Pass at 25 points** | **PI 5-2 pass at 25 points** |
| --- | --- | --- |
| 6013110 | 28 (✓) | 28 (✓) |
| 6013111 | 28 (✓) | 28 (✓) |
| 6013112 | 30 (✓) | 30 (✓) |
| 6013113 | 27 (✓) | 27 (✓) |
| 6013114 | 29 (✓) | 29 (✓) |
| 6013115 | 27 (✓) | 27 (✓) |
| 6013116 | 29 (✓) | 29 (✓) |
| 6013117 | 27 (✓) | 27 (✓) |
| 6013118 | 27 (✓) | 27 (✓) |
| 6013119 | 27 (✓) | 27 (✓) |
| 6013120 | 29 (✓) | 29 (✓) |
| 6013121 | 30 (✓) | 30 (✓) |
| 6013122 | 28 (✓) | 28 (✓) |
| 6013123 | 29 (✓) | 29 (✓) |
| 6013124 | 29 (✓) | 29 (✓) |
| 6013125 | 30 (✓) | 30 (✓) |
| 6013126 | 29 (✓) | 29 (✓) |
| 6013127 | 27 (✓) | 27 (✓) |
| 6013128 | 22 (🗶) | 22 (🗶) |
| 6013129 | 28 (✓) | 28 (✓) |
| 6013130 | 25 (✓) | 25 (✓) |
| 6013131 | 25 (✓) | 25 (✓) |
| 6013132 | 25 (✓) | 25 (✓) |
| 6013285 | 28 (✓) | 28 (✓) |
| 6013286 | 22 (🗶) | 22 (🗶) |
| 6013287 | 28 (✓) | 28 (✓) |
| 6013288 | 29 (✓) | 29 (✓) |
| 6013289 | 26 (✓) | 26 (✓) |
| 6013290 | 26 (✓) | 26 (✓) |
| 6013291 | 28 (✓) | 28 (✓) |
| 6013292 | 29 (✓) | 29 (✓) |
| 6013293 | 27 (✓) | 27 (✓) |
| 6013294 | 27 (✓) | 27 (✓) |
| 6013296 | 27 (✓) | 27 (✓) |
| 6013297 | 25 (✓) | 25 (✓) |
| 6013300 | 27 (✓) | 27 (✓) |
| 6013301 | 30 (✓) | 30 (✓) |
| Number of Pass | 35 | 35 |

PI 5-1: Attainability = 35/37 = 94.60% **Attainable**

PI 5-2: Attainability = 35/37 = 94.60% **Attainable**

**SO5 Conclusion**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PI** | **Attainability** | **Reason** | **Remedial Action** | **Action plan** | **Measurements** |
| 5-1 | ✓ |  |  |  |  |
| 5-2 | ✓ | Score was evaluate based on the plan and goal. | Individual presentation on responsibilities and individual scheduling along with teamwork plan | Next semester | Next semester |

**SO7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies**

**Passing criterion >= 70%**

PI 7-1 Acquire and apply new knowledge

PI 7-2 Use appropriate sources of knowledge

========================================================================

PI 7-1 Acquire and apply new knowledge

PI 7-2 Use appropriate sources of knowledge

**EGCO332 Embedded System**

**Midterm Exam (Question 1)**

1. Nowadays, there are several embedded systems in daily life. Please give example of embedded system in following domain. (10 points)
   1. Home appliance

Give the reason why it is embedded system.

* 1. Office automation

Give the reason why it is embedded system.

* 1. Academia

Give the reason why it is embedded system.

* 1. Business automation

Give the reason why it is embedded system.

**Course Project**

1. According to the content of embedded system in this course, students gained the experience to implement the simple embedded system in term of hardware and software. In this project, all students are required to form team as a startup. Each startup has to produce a startup project which is related to the embedded system. In summary, all startups are required to:

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2. Present a startup project

- Each startup has 10 minutes for pitching. The content must include all the following:

- Problem definition and objectives

- Concept ideas

- Innovative embedded product

- Technology behind

- Business plan

3. Do the PR poster

- Design poster to describe ideas and inspiration to help you get the word out about your brand, or product.

| **Student No.** | **PI 7-1  Pass at 6 points** | **PI 7-2 pass at 25 points** |
| --- | --- | --- |
| 6013110 | 6 (✓) | 28 (✓) |
| 6013111 | 8 (✓) | 28 (✓) |
| 6013112 | 6 (✓) | 30 (✓) |
| 6013113 | 8 (✓) | 27 (✓) |
| 6013114 | 8 (✓) | 29 (✓) |
| 6013115 | 8 (✓) | 27 (✓) |
| 6013116 | 6 (✓) | 29 (✓) |
| 6013117 | 6 (✓) | 27 (✓) |
| 6013118 | 8 (✓) | 27 (✓) |
| 6013119 | 6 (✓) | 27 (✓) |
| 6013120 | 4 | 29 (✓) |
| 6013121 | 8 (✓) | 30 (✓) |
| 6013122 | 8 (✓) | 28 (✓) |
| 6013123 | 8 (✓) | 29 (✓) |
| 6013124 | 4 | 29 (✓) |
| 6013125 | 4 | 30 (✓) |
| 6013126 | 8 (✓) | 29 (✓) |
| 6013127 | 8 (✓) | 27 (✓) |
| 6013128 | 6 (✓) | 22 (🗶) |
| 6013129 | 6 (✓) | 28 (✓) |
| 6013130 | 8 (✓) | 25 (✓) |
| 6013131 | 8 (✓) | 25 (✓) |
| 6013132 | 6 (✓) | 25 (✓) |
| 6013285 | 4 | 28 (✓) |
| 6013286 | 6 (✓) | 22 (🗶) |
| 6013287 | 6 (✓) | 28 (✓) |
| 6013288 | 8 (✓) | 29 (✓) |
| 6013289 | 6 (✓) | 26 (✓) |
| 6013290 | 6 (✓) | 26 (✓) |
| 6013291 | 8 (✓) | 28 (✓) |
| 6013292 | 8 (✓) | 29 (✓) |
| 6013293 | 2 | 27 (✓) |
| 6013294 | 8 (✓) | 27 (✓) |
| 6013296 | 6 (✓) | 27 (✓) |
| 6013297 | 6 (✓) | 25 (✓) |
| 6013300 | 6 (✓) | 27 (✓) |
| 6013301 | 8 (✓) | 30 (✓) |
| Number of Pass | 32 | 35 |

PI 7-1: Attainability = 32/37 = 86.48% **Attainable**

PI 7-2: Attainability = 35/37 = 94.60% **Attainable**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PI** | **Attainability** | **Reason** | **Remedial Action** | **Action plan** | **Measurements** |
| 7-1 | ✓ |  | Give more example innovative product that already sell in real-world | Next semester | Next semester |
| 7-2 | ✓ |  |  |  |  |