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| --- | --- |
| Course Code and Course Title | English SCIN 303 Internship for Innovation and Entrepreneurship II  Thai วทนว ๓๐๓ การฝึกปฏิบัติงานและศึกษาดูงานเสริมสร้างประสบการณ์ทางนวัตกรรมและวิสาหกิจ ๒ |
| Number of Credits | 3 (0-9-3) |
| Curriculum and Course Type | Program of Study Bachelor’s Degree Program in Science and Technology  (International Program, Multidisciplinary Program)  Course Type Core course |
| Course Coordinator | Thitisilp Kijchavengkul, Ph.D.  Address: School of Bioinnovation and Bio-based Intelligence,  Room SC1-306 Faculty of Science Building 1,  Mahidol University, Salaya Campus  Tel: 090-986-5764 email: [thitisilp.kij@mahidol.edu](mailto:thitisilp.kij@mahidol.edu) |
| Semester/Year of Study | Academic Year 2021 First Semester **(1/2021) / Fourth Year** |
| Prerequisite | SCIN 203 Internship for Innovation and Entrepreneurship I |
| Co-requisite | **None** |
| Day/Time/Study Site Location | Wednesday / 13.00-16.00 /  Faculty of Science, Mahidol University, Salaya Campus |
| Date of Latest Revision | **11 July 2021** |

**Course Learning Outcomes (CLOs)**

After successful completion of this course, students are able to

1. Exhibit professional skills with virtue, harmony, and adaptation in working with others.
2. Exhibit proper adaptation of STEM knowledge in the real situation
3. Perform necessary skills for innovation creation

**Objectives of Development / Revision**

To be a course that students integrated all studied knowledge. Apply in real implementation like personnel of the internship site, under the systematically supervision of internship site/university. Students can participate in selecting the internship site of their interest, which make students increase the interest in learning. Increasing vocational experience and self-development, which make the branch has curriculum development system and continuous developing students to have quality from internship site comments. So that makes students be graduates with properties matching to vocation market.

**Course Description** Field professional practicum in R&D and innovation development in public organizations and private enterprises; management and implementation of raw materials; used technology; production line; quality control; product distribution; marketing; logistics and supply chain of the enterprise and related business.

**Credit Hours / Trimester**

|  |  |  |  |
| --- | --- | --- | --- |
| **Theory**  **(Hours)** | **Addition Class**  **(Hours)** | **Laboratory/Field trip/ Internship (Hours)** | **Self-study**  **(Hours)** |
| **-** | - | 135 Hours/Semester | 45 Hours/Semester |
|  |  | (9 Hours x 15 Weeks) | (3 Hours x 15 Weeks) |

**Number of Hours per Week for Individual Advice**

3 hours per week or student requirement during prescribed date and time

**Evaluation of the CLOs**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Course Learning Outcomes** | | **Measurement Method** | | | **Weight (%)** |
| **Evaluation from employer** | **Evaluation from faculty** | **Presentation/Report** |
| **CLO1** | Exhibit professional skills with virtue, harmony, and adaptation in working with others. | 10% | - | - | 10% |
| **CLO2** | Exhibit proper adaptation of STEM knowledge in the real situation | 20% | 10% | 15% | 45% |
| **CLO3** | Perform necessary skills for innovation creation | 20% | 10% | 15% | 45% |
|  | **Total** | **50%** | **20%** | **30%** | **100%** |

Measurement and evaluation

After completion of the evaluation process each student is assigned a criterion-referenced grade (as shown in the table below). Evaluation and achievement will be justifying according to Faculty and University code, conducted by grading system of A, B+, B, C+, C, D and F. To pass this course, student must earn a grade of a least D.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Total Percentage**  **of Evaluation** | Below 20 | 20-29 | 30-39 | 40-49 | 50-59 | 60-69 | 70-79 | 80-100 |
| **Grade** | F | D | D+ | C | C+ | B | B+ | A |

**Teaching Schedule 1nd Semester of Academic Year 2020**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Week** | **Date** | **Topic** | **Number of Hours** | | **Instructor** |
| **Lecture** | **Laboratory** |
| 1 | 11 Aug 21 | Internship orientation &  Internship | **-** | **9** | Thitisilp Kijchavengkul, Ph.D. |
| 2 | 18 Aug 21 | Internship | **-** | **9** | SCIN faculty |
| 3 | 25 Aug 21 | **-** | **9** |
| 4 | 1 Sep 21 | **-** | **9** |
| 5 | 8 Sep 21 | **-** | **9** |
| 6 | 15 Sep 21 | **-** | **9** |
| 7 | 22 Sep 21 | **-** | **9** |
| 8 | 29 Sep 21 | **-** | **9** |
| **Midterm examination (4-8 October, 2021)** | | | | | |
| 9 | 13 Oct 21 | Internship | - | 9 | SCIN faculty |
| 10 | 20 Oct 21 | - | 9 |
| 11 | 27 Oct 21 | **-** | **9** |
| 12 | 3 Nov 21 | **-** | **9** |
| 13 | 10 Nov 21 | **-** | **9** |
| 14 | 17 Nov 21 | **-** | **9** |
| 15 | 24 Nov 21 | Presentation | **-** | **9** |
| **Final examination (29 November - 25 December, 2021)** | | | | | |