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| **Course synopsis** | Students will undergo a practical training lasting for a minimum of 10 weeks at an approved private, government or semi-government agency. The Faculty will release the list of participating agencies. Placement at the respective agency will be initiated by the applications from the students. Approval of the application is at the discretion of the Faculty. Undergraduates are expected to acquire hands on experience not only in the engineering aspects of work, but also to other related matters such as administration, accounting, management, safety, etc. during the industrial training period. | | | |
| **Course coordinator (if applicable)** | Dr. Yusri bin Md. Yunos | | | |
| **Course lecturer(s)** | **Name** | **Office** | **Contact No.** | **E-mail** |
| Dr. Zuraimy Adziz (SKEE) | P19a | 07-553 6024 | zuraimy@utm.my |
| En. Samura bin Ali (SKEE) | P05 |  | samurah@utm.my |
| Dr. Ismahani Ismail (SKEL) | P05-205 | 07-553 5225 | ismahani@utm.my |
| Prof. Madya Dr. Mohamad Shukri Zainal Abidin (SKEM) | P19a | 07-555 7184 | shukri@utm.my |

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| **Mapping of the Course Learning Outcomes (CLO) to the Programme Learning Outcomes (PLO), Teaching & Learning (T&L) methods and Assessment methods:** | | | | | | |
| **CLO** | **Description** | **PLO**  **(CODE)** | **\* Knowledge** Profile, Complex Problem Solving, & Complex Engineering Activities | **\*\*Taxonomies**  **& Generic Skills** | **T & L Method** | **\*\*\*Assess-ment Method** |
| CLO1 | Work in actual working environment effectively as an individual, team member and leader. | PLO7  (TW) | EA1 | A3  TW1 | Onsite training | LP4, LP5I |
| CLO2 | Able to appreciate the impact of engineering works to society and environment. | PLO11  (GCE) | WK7 | A3  GC4 | Onsite training | LP4 |
| CLO3 | Utilize technical resources from prior relevant coursework. | PLO4  (SCMT) | WK6 | A3 | Onsite training | LP4 |
| CLO4 | Able to independently seek new and alternative resources related to the work. | PLO8  (SC) |  | A3  SC1 | Onsite training | LP4 |
| CLO5 | Write technical documents and give oral presentations related to the work completed. | PLO6  (CS) | EA1  EA2  EA3 | A3  CS1 |  | LP5II, LP6. |
| Refer \* EAC Knowledge Profile (WK), Complex Problem Solving (WP), Complex Engineering Activities (EA)  Refer \*\*Taxonomies of Learning and UTM’s Graduate Attributes, where applicable for measurement of outcomes achievement  \*\*\* **Asg** – Assignment; **F** – Final; **HW** – Homework; **Pr** – Presentation; **PR** – Project; **Q** – Quiz; **T** – Test etc. | | | | | | |

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| **Details on Innovative T&L practices:** | | | |
| **No.** | **Type** | **Implementation** |
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| **Weekly Schedule** | |
| **Week** | **Topic** |
| Week 1 | Onsite training, Logbook; Submission of LP2 and LP2A form |
| Week 2 | Onsite training, Logbook; Submission of LP3 form |
| Week 3 | Onsite training, Logbook |
| Week 4 | Onsite training, Logbook |
| Week 5 | Onsite training, Logbook |
| Week 6 | Onsite training, Logbook |
| Week 7 | Onsite training, Logbook |
| Week 8 | Onsite training, Logbook, Industrial Supervisor Evaluation (LP4) |
| Week 9 | Onsite training, Logbook, Communication with Faculty Supervisor |
| Week 10 | Onsite training, Logbook |
| Week 11 | Onsite training, Logbook |
| Week 12 | Onsite training, School Supervisor Evaluation (LP5II), Logbook (LP5II), Technical Report (LP6) |

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| **Transferable skills (generic skills learned in course of study which can be useful and utilised in other settings)** |
| Critical thinking and problem solving skills; |

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| **Student Learning Time (SLT) details:** | | | | | | | | | | | | |
| **Distribution of SLT by CLO** | | **Teaching and Learning Activities** | | | | | | | | | | **SLT** | |
| **Guided Learning (Face to Face)**  L – Lecture; T – Tutorial; P – Practical; Pr – Project; PBL/D – Problem Based Learning/Design; O - Others | | | | | | **Guided Learning Non-Face to Face** | | **Independent Learning**  **Non-Face to Face** | |
| **CLO** | | **L** | **T** | **P** | **Pr** | **PBL/D** | **O** |  | |  | |  | |
| CLO1 | |  |  |  |  |  |  | 12h | | 98h | | **110h** | |
| CLO2 | |  |  |  |  |  |  |  | | 98h | | **98h** | |
| CLO3 | |  |  |  |  |  |  | 12h | | 98h | | **110h** | |
| CLO4 | |  |  |  |  |  |  |  | | 98h | | **98h** | |
| CLO5 | |  |  |  |  |  |  |  | | 34h | | **34h** | |
| **Total SLT** | |  |  |  |  |  |  | **24h** | | **426h** | | **450h** | |
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| **Assessment:** | | | | | | | | | | | | | |
| **No.** | **Continuous Assessment** | | | | | | | **PLO (CODE)** | **Percentage** | | **SLT** | | |
| 1 | Logbook (LP5) | | | | | | | THDS | 10 | | **20h** | | |
| 2 | Faculty Supervisor (LP5) | | | | | | | SCMT | 20 | | **5h** | | |
| 3 | Industrial Supervisor (LP4) | | | | | | | THDS | 30 | | **5h** | | |
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|  | **Final Assessment** | | | | | | |  |  | |  | | |
| 1 | Final Report (LP6) | | | | | | | THDS | 40 | | **As in CLO5(12h)** | | |
| **TOTAL** | | | | | | | | | **100** | | **480h\*** | | |
| h: hours, m: minutes  \* Based on the definition by EAC, not actual working time.  Students must obtain 60 marks and submit a report in order to pass the course. | | | | | | | | |  | |  | | |

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| **Special requirement to deliver the course (e.g.: software, nursery, computer lab, simulation room)** |
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| **Learning Resources:** |
| 1. Undergraduate Handbook, FKE.  2. FKE’s Industrial Training Website (li.fke.utm.my)  3. Industrial Training System (ITS) Website (its.utm.my)  4. Company resources. |

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| **Academic honesty and plagiarism:** |
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| **Other additional information (Course policy, any specific instruction etc.):** |
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| **Disclaimer:** |
| All teaching and learning materials associated with this course are for personal use only. The materials are intended for educational purposes only. Reproduction of the materials in any form for any purposes other than what it is intended for is prohibited.  While every effort has been made to ensure the accuracy of the information supplied herein, Universiti Teknologi Malaysia cannot be held responsible for any errors or omissions. |