

Subject Description Form

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| Subject Code | AP20014 |
| Subject Title | Innovation Project |
| Credit Value | 2 |
| Level | 2 |
| Pre-requisite/ Co-requisite/ Exclusion | Nil |
| Objectives | Projects are designed to reveal two main aspects of a student's ability: initiative in organizing and following through an investigation, and ability for critical assessment of information. In the course of doing his/her project, the student also acquires an in-depth knowledge of a certain topic in applied physics, materials science/technology, electrical or electronic engineering. |
| Intended Learning Outcomes | Upon completion of the subject, students will be able to: (a) plan and successfully complete a project; (b) integrate and apply the theoretical knowledge and experimental techniques learned from different subject areas to carry out the project; (c) compile, organize, and present results in an appropriate format; (d) assess and interpret the results obtained, and draw conclusions thereupon; (e) recognize the limitations of the project and make suggestions for further work; (f) be able to collaborate smoothly with others in team work, to demonstrate a sense of responsibility, accountability leadership and team spirit; (g) be able to analyze, evaluate, synthesize and propose solutions to problems of a general nature, with innovative/creative ideas where appropriate; (h) be able to communicate clearly and effectively in English; (i) be able to demonstrate a sense of responsibility and accountability; and (j) be able to search relevant information from different sources, especially from the web, and to make correct judgment in using such information; |
| Subject Synopsis/ Indicative Syllabus | Depend on the design and requirements of individual project. |
| Teaching/Learning Methodology | This is a 2-credit student project. Students need to give presentations, and to submit reports. Students are encouraged to explore any new ideas with greatest degree of freedom, and to implement the ideas creatively under the guidance of their supervisors. |

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| Assessment Methods in Alignment with Intended Learning Outcomes | Specific assessment methods/tasks | % weighting | Intended subject learning outcomes to be assessed (Please tick as appropriate) | | | | | | | | | |
| | | | a | b | c | d | e | f | g | h | i | j |
| | (1) Continuous assessment | 30 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| | (2) Project report | 40 | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| | (3) Oral (Final) | 30 | | | ✓ | ✓ | | | | ✓ | | |
| | Total | 100 | | | | | | | | | | |
| | Project learning provides an opportunity for students to actively participate in solving problems in a self-managed and self-directed manner whereby they have to apply their knowledge to a specific problem, to analyze and integrate, to interpret and judge, to communicate and to report, thus covering the intended outcomes listed above. | | | | | | | | | | | |
| Student Study Effort Expected | | | | | | | | | | | | |
| | • Project work | 39 h | | | | | | | | | | |
| | • Self-study | 41 h | | | | | | | | | | |
| | Total student study effort | 80 h | | | | | | | | | | |
| Reading List and References | According to the guidance from the supervisors. | | | | | | | | | | | |