**COMPLEX PROBLEM SOLVING**

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| **Course Code & Name** |  |
| **Academic Session & Semester** |  |
| **Course Coordinator** |  |

**Programme Outcomes**

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| PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 | PO 12 |
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**ASSESSMENT 1: PROJECT**

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| **Select**  **Related** | **Attribute** | **Complex Engineering Characteristic** | **Comments from Course Coordinator** |
| WP1 | Depth of Knowledge | Cannot be resolved without in-depth engineering knowledge at the level of one or more of **WK3, WK4, WK5, WK6** or **WK8** which allows a fundamentals-based, first principles analytical approach |  |
| WP2 | Range of Conflicting | Involve wide-ranging or conflicting technical, engineering and other issues |  |
| WP3 | Depth of Analysis | Have no obvious solution and require abstract thinking, originality in analysis to  formulate suitable models |  |
| WP4 | Familiarity of Issues | Involve infrequently encountered  Issues |  |
| WP5 | Extent of Applicable Code | Are outside problems encompassed by standards and codes of practice for  professional engineering |  |
| WP6 | Extent of Stakeholder Involvement and Conflicting | Involve diverse groups of  stakeholders with widely varying needs |  |
| WP7 | Interdependence | Are high level problems including  many component parts or sub-problems |  |
| **CPS** | **Complex Engineering Problems have characteristic WP1 and some or all of WP2 to WP7.** | | |