**PENTING / *IMPORTANT***:

Kandungan Pro Forma ini tidak boleh diubah tanpa kelulusan Senat bagi perkara-perkara yang telah ditandakan\*. Pindaan kepada perkara lain boleh diluluskan di peringkat Akademi/Fakulti/Institut/Pusat.

*Contents of this Pro Forma shall not be changed without the Senate’s approval for items indicated with \*. Changes to the other items can be approved at the Academy/Faculty/Institution/Centre level.*

|  | **Versi Bahasa Malaysia**  ***Malay Version*** | **Versi Bahasa Inggeris**  ***English Version*** |
| --- | --- | --- |
| Akademi/Fakulti/Institut/Pusat  *Academy/Faculty/Institute/Centre* | Fakulti Sains Komputer & Teknologi Maklumat | Faculty of Computer Science & Information Technology |
| Jabatan  *Department* | Jabatan Kejuruteraan Perisian  Jabatan Sistem Komputer dan Teknologi  Jabatan Sistem Maklumat  Jabatan Kejuruteraan Perisian | Department of Software Engineering  Department of Artificial Intelligence  Department of Computer System and Technolgy  Department of Information Systems |
| Nama Program Akademik  Name of Academic *Programme* | Sarjana Sains Komputer  Sarjana Kejuruteraan Perisian  Sarjana Teknologi Maklumat  Ijazah Doktor Falsafah | Master of Computer Science  Master of Software Engineering  Master of Information Technology  Doctor of Philosophy (Ph.D.) |
| Kod Kursus\*  *Course Code*\* | WOX 7001 | WOX 7001 |
| Tajuk Kursus\*  *Course Title\** | Metdologi Kajian | Research Methodology |
| Kredit\*  *Credit\** | 3 | 3 |
| Masa Pembelajaran Pelajar (SLT)  *Student Learning Time (SLT)* | 120 | 120 |
| Prasyarat/Keperluan Minimum Kursus  *Course Pre-requisite(s)/Minimum Requirement(s)* | Tiada | None |
| Hasil Pembelajaran Kursus\*  *Course Learning Outcomes\** | Di akhir kursus ini, pelajar dapat:   1. Menerangkan konsep dan peranan penyelidikan dalam bidang sains computer. (C2) 2. Menerangkan pendekatan-pendekatan dan langkah-langkah terlibat dalam menjalankan penyelidikan. (C2) 3. Menghuraikan kaedah-kaedah utama penyelidikan yang digunakan dalam bidang-bidang sains computer dan bidang bergabungan dengannya (C5, C6) 4. Menulis satu cadangan projek penyelidikan, dan membuat pembentangan secara lisan. (C3, C5, C6) | At the end of the course, students are able to:   1. Explain the concepts and roles of research in computer science. (C2) 2. Differentiate the approaches and steps involved in conducting research in computer science. (C2) 3. Describe the principal methods of research used in computer science and related areas. (C5, C6) 4. Provide a proposal for a research project, and make an oral presentation of the research proposal. (C3,C5, C6) |
| Kemahiran Insaniah  *Soft Skills* | Kemahiran Berkomunikasi (CS1-CS6)  Pemikiran Kritikal dan Penyelesaian Masalah (CT1, CT3, CT5)  Kerja Berpasukan (TS1, TS2)  Pembelajaran Berterusan dan Pengurusan Maklumat (LL1, LL2)  Kemahiran Kepimpinan (LS1, LS2) | Communication Skills (CS1-CS6)  Critical Thinking and Problem Solving (CT1, CT3, CT5)  Team Work (TS1, TS2)  Lifelong Learning and Information Management (LL1, LL2)  Leadership Skills (LS1, LS2) |
| Sinopsis Kandungan Kursus  *Synopsis of Course Contents* | Merangkumi topik-topik seperti: jenis penyelidikan dalam bidang sains computer; pertimbangan dan tugas-tugas utama dalam penyelidikan saintifik; memilih suatu projek penyelidikan; perancangan projek; alatan dan teknik untuk perancangan; kajian literature; kaedah penyelidikan empirical dalam sains computer; menulis suatu cadangan penyelidikan; mengurus suatu projek penyelidikan; analisis data dan pembentangan keputusan/ menulis laporan penyelidikan. | Topics included are: nature of research in the computer sciences; major considerations and tasks in scientific research; selecting a research project; project planning, tools and techniques for planning; review of literature; empirical research methods in computer sciences; writing a research proposal; managing the research project; data analysis and presentation of results/writing the research report. |
| Pemberatan Penilaian\*  *Assessment Weightage\** | Penilaian berterusan 100% (Ujian, Tugasan Individu, Tugasan Berkumpulan, Cadangan Penyelidikan – Laporan dan Pembentangan) | Continuous Assessment: 100% (Test, Individual Assignments, Group Assignments, Research Proposal – Report & Presentation) |
| Kaedah Maklum Balas Tentang Prestasi  *Methodologies for Feedback on Performance* | Pengumuman lisan dalam kelas / melalui laman web kursus. | Oral announcement in class / through course website. |
| Kriteria Dalam Penilaian Sumatif  *Criteria in Summative Assessment* | Rujuk kepada Sistem Pemarkahan yang diberi di dalam buku Kaedah-Kaedah Universiti Malaya (Ijazah Sarjana) 2014, Peraturan-Peraturan Universiti Malaya (Ijazah Sarjana) 2014. | Refer to University of Malaya (Master’s Degree) Rules 2014 and University of Malaya (Master’s Degree) Regulations 2014. |