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| 1. | Name of Course/Module | Project |
| 2. | Course Code | TPR 3321 |
| 3. | Status of Subject | Major for B.IT Artificial Intelligence |
| 4. | MQF Level/Stage | Bachelor Degree – MQF Level 6 |
| 5. | Version (state the date of the last Senate approval) | June 2012 |
| 6. | Requirement for Registration | At least 60 credits hours (excluding Art & Humanity subjects) |
| 7. | Name(s) of academic/teaching staff | Goh Kah Ong Michael |
| 8. | Semester and Year offered | Trimester 1&2 (Delta Level) |
| 9. | Objective of the course/module in the programme : | |
| | <ol style="list-style-type: none"> 1. To expose the student to the real application of acquired theoretical knowledge with the regular System analysis and design structures, professional Software development operations and operational functions. 2. To have hands on experience in software development related to their field of interest so that they can apply and buttress what has been learnt at the classes. 3. To earn the qualities of research orientation for accumulating knowledge on a specific problem domain, and to develop synergetic collaboration between people and procedures. 4. To set the record of achievement on their professional expertise, that plays as a show case for their future employments | |
| 10. | Learning Outcomes : | |
| | <p>At the completion of this subject, students should be able to:</p> <p>LO1: Identify problems, objective, literature and analysis related to project. (Cognitive, Level 1) LO2: Design specification based on information gathered for the project using the acquired IT knowledge and skills. (Cognitive, Level 5) LO3: Develop solution for the project based on specification related to his/her specialization. (Cognitive, Level 5) LO4: Describe the project in report using technical writing skills. (Cognitive, Level 6) LO5: Perform formal project presentation and question handling. (Affective, Level 3)</p> | |
| 11. | Synopsis: | |

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| | <p>Students will undergo an intensive system development based on the application or system side selected from a problem domain often involved with private, government or semi-government bureau. The list of project titles will be vetted and released by the Faculty. Starting of the project is initiated by literature survey, followed with the methodology framing. Frequent meetings with the supervisor will be carried out by the students. Approval of the methodology is subject to the recommendations of the supervisor. The system requirements are met based on the targets assigned to the student by the supervisor. During this phase, students will be given tasks involving research, analysis, CASE tool assignments, and other system Development Life Cycle tools which have been agreed by the Faculty and the supervisor. The research includes, feasibility study, requirement and functional analysis, system analysis and design, testing and implementation, maintenance and installation, security and recovery, programming and documentation, data collection and processing, organization reengineering and so forth.</p> | | |
| | <p>Pelajar akan menjalani pembangunan sistem intensif berdasarkan permohonan atau sistem sampingan yang dipilih dari domain masalah yang sering terlibat dengan biro swasta, kerajaan atau separa kerajaan. Senarai tajuk projek akan dihisab dan yang dikeluarkan oleh Fakulti. Bermula projek yang dimulakan oleh kaji selidik kesusasteraan, diikuti dengan framing metodologi. Mesyuarat yang kerap dengan penyelia akan dijalankan oleh pelajar-pelajar. Kelulusan metodologi adalah tertakluk kepada syor-syor penyelia. Keperluan sistem dipenuhi berdasarkan sasaran yang diberikan kepada pelajar oleh penyelia. Semasa fasa ini, pelajar akan diberikan tugas-tugas yang melibatkan penyelidikan, analisis, tugas alat CASE, dan lain-lain sistem alat Pembangunan Kitaran Hayat yang telah dipersetujui oleh Fakulti dan penyelia. Kajian ini meliputi kajian kemungkinan, kehendak dan analisis fungsi, sistem analisis dan reka bentuk, ujian dan pelaksanaan, penyelenggaraan dan pemasangan, keselamatan dan pemulihan, pengaturcaraan dan dokumentasi, pengumpulan data dan pemrosesan, kejuruteraan semula organisasi dan sebagainya.</p> | | |
| 12. | Mapping of Subject to Programme Outcomes : | | |
| | Programme Outcomes | | % of Contribution |
| | PO1: Apply soft skills in work and career related activities | | 25.00 |
| | PO4: Recognise and pursue continued life-long learning throughout their career | | 6.25 |
| | PO5: Blend innovative mind and entrepreneurial skills | | 6.25 |
| | PO6: Relate moral and ethical values to the practice of a professional | | 12.50 |
| | PO7: Demonstrate knowledge and understanding of essential facts, concepts, principles, and theories relating to artificial intelligence | | 6.25 |
| | PO8: Apply principles and knowledge of artificial intelligence in relevant areas | | 18.75 |
| | PO9: Demonstrate the ability in analysing, modelling, designing, developing and evaluating computing solutions | | 25.00 |
| 13. | Assessment Methods and Types : | | |
| | Method and Type | Description/Details | Percentage |
| | Interim Evaluation | Interim report (design specification) and presentation | 30% |
| | Final Evaluation | Final report (solution and results) and presentation | 70% |
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| 14. | Details of Subject | | |
| | Topics | Mode of Delivery | |

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| | | Lecture | Tutorial |
| | Phase 1 (1 st Trimester) (i) Project formulation including initial reading/ study, discussion with supervisor to decided about the project (ii) Prototype design and implementation (iii) Interim report documentation (iv) Presentation | N/A | N/A |
| | Phase 2 (2 nd Trimester) (i) Full implementation of proposed implementation plan in phase 1 (ii) Final report documentation (iii) Presentation and Demonstration | N/A | N/A |
| | Total | N/A | N/A |
| 15. | Tutorials | | |
| | N/A | | |
| 16. | Total Student Learning Time (SLT) | Face to Face (Hour) | Total Guided and Independent Learning |
| | Lecture | | |
| | Tutorials | | |
| | Laboratory/Practical | | |
| | Presentation | 1 | 3 |
| | Undergraduate Final Year Project / Dissertation | 6 credits | 240 |
| | Mid Term Test | | |
| | Final Exam | | |
| | Quizzes | | |
| | Sub Total | 1 | 243 |
| | Total SLT | 244/40 = 6.1 => 6 | |
| 17. | Credit Value | 6 | |
| 18. | Reading Materials : | | |
| | Textbook | Reference Materials | |
| | N/A | N/A | |
| 19. | Appendix (to be compiled when submitting the complete syllabus for the programme) : | | |
| | <ol style="list-style-type: none"> 1. Mission and Vision of the University and Faculty 2. Mapping of Programme Objectives to Vision and Mission of Faculty and University 3. Mapping of Programme Outcome to Programme Objectives 4. Programme Objective and Outcomes (Measurement and Descriptions) | | |