UNIVERSITI TEKNOLOGI MARA

CSC575: SOFTWARE PROJECT MANAGEMENT

Course Name (English)	SOFTWARE PROJECT MANAGEMENT APPROVED
Course Code	CSC575
MQF Credit	3
Course Description	This course introduces project management as a discipline/profession. It focuses on theories related to project definition, project scope, project tools and implementation. Key aspects include professional development, organization design and project structure, communication, managing change and performance measurement (time, cost and quality) are covered. This course also introduces key concepts in better understanding the role of innovation and technology and its efficient management, to build and maintain a competitive edge in business.Innovation and technology management links software engineering, science and management principles to identify, choose and implement the most effective means of attaining compatibility between an organization and its competitive, economic and social environment. This course also introduces the students to software project management tools that can effectively track and manage the project information. Overall, this course synthesizes a comprehensive range of software project knowledge into a management-oriented structure in order to benefit the students' future professional career.
Transferable Skills	The students can demonstrate professional skills, knowledge and competencies in managing the software project in term of creating business case, controlling the project staffing, planning the work breakdown, calculating the budget, controlling the scheduling, managing the risks, change requests and conflicts, ensuring the quality of the project, and lastly implementing the software project successfully.
Teaching Methodologies	Lectures, Tutorial, Discussion
CLO	CLO1 Synthesise the project management elements to solve problems in software projects. CLO2 Construct business case and project charter in software project management tool. CLO3 Report verbally about software project management ideas.
Pre-Requisite Courses	No course recommendations

Topics
1. Project Management Overview 1.1) Nature of Project Management 1.2) Basic Project Management Areas 1.3) Problems Areas in IT Projects
2. Project Staffing and Organization 2.1) The Human Side of Project Management 2.2) Organizational Structure
3. Project Initiation 3.1) Project Definition 3.2) Project Feasibility 3.3) Identifying the Project Leader and the Key Participants
4. Project Scope, Work Breakdown and Project Estimation 4.1) Defining Project Scope, Project Objectives, Constraints and Success Criteria 4.2) Product Breakdown Model and Project Estimation

5. Project Schedule and Budget 5.1) Work Breakdown and Resource Identification 5.2) Estimation 5.3) Precedence analysis 5.4) Scheduling 5.5) Automated Project Management Tools
6. Project Risk Management 6.1) Managing Project Risk 6.2) IT Project Risk Management Process
7. Project Tracking, Controlling and Reporting 7.1) Definition of Project Tracking Activity 7.2) Sources of Project Tracking 7.3) Tracking and Reporting Framework
8. Change and Configuration Management 8.1) Project Scope Control 8.2) Configuration Management 8.3) Concessions and Deviations 8.4) Estimating the Impact of Change 8.5) Change Control
9. Conflict Management 9.1) Awareness of the Effect of perception 9.2) Structured Approach to Identify Behavioral Indication of Style
10. Quality Management 10.1) Introduction to Quality 10.2) Quality Assurance
11. Project Implementation, Closure and Evaluation 11.1) Approach to project implementation and Installation 11.2) Project Closure 11.3) Project Evaluations

Assessment Breakdown	%
Continuous Assessment	100.00%

Details of Continuous Assessment

Assessment Type	Assessment Description	% of Total Mark	CLO
Group Project	Business Case and Project Charter, F2f=0, SPT=5.5	30%	CLO2
Presentation	Business Case Presentation, F2F=0.75, SPT=2.25	15%	CLO3
Presentation	Project Charter Presentation, F2F=0.75, SPT=2.25	15%	CLO3
Test	Test 2 - Topic 6, 7, 8, 9, 10 and 11, F2f=1, SPT=3	20%	CLO1
Test	Test 1 - Topic 1, 2, 3, 4 and 5, F2F=1, SPT-3	20%	CLO1

Reading List

Recommended Text

- **Marchewka, Jack T 2013, *Information Technology Project Management*, 4 Ed., John Wiley & Sons, Inc**

Reference Book Resources

- **Kathy Schwalbe 2013, *Information Technology Project Management, Revised*, 7th Ed., Cengage Learning [ISBN: 9781285847092]**
- **Ian Sommerville 2010, *Software Engineering*, 9th Ed., Addison-Wesley [ISBN: 9780137035151]**
- **Murali Chemuturi,Thomas M. Cagley 2010, *Mastering Software Project Management*, J. Ross Publishing Florida [ISBN: 9781604270341]**
- **Mark C. Layton 2012, *Agile Project Management For Dummies*, John Wiley & Sons USA [ISBN: 9781118026243]**
- **Project Management Institute 2013, *Software Extension to the PMBOK Guide, Fifth Edition*, 5th Ed., Project Management Inst Pennsylvania, USA [ISBN: 9781628250138]**
- **Robert K. Wysocki 2013, *Effective Project Management*, 7th Edition Ed., John Wiley & Sons Indiana [ISBN: 9781118729168]**

Article/Paper List

This Course does not have any article/paper resources

Other References

- **Book Kathy Schwalbe 2009, *Information Technology Project Management* , Course Technology**
- **Book Stellman, Andrew; Greene, Jennifer 2005, *Applied Software Project Management*, O'Reilly Media, Taschenbuch**
- **e-Book Karl Fogel 2013, *Producing Open Source Software: How to Run a Successful Free Software Project* , CreativeCommons Attribution-Share Alike http://www2.econ.iastate.edu/tesfatsi/Pr oducingOSS.KarlFogel2005.pdf**