

Information Technology

FIT2002 IT Project Management

November, 2020 https://powcoder.com

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Seminar 12

Unit Summary & Exam Review

Unit Schedule

Week	Activities	Assessment		
0	Watch FIT2002 Introduction video and week	No formal assessment or activities are		
	1 pre-class video	undertaken in week 0		
1	Introduction to the unit;	Pre-class activity and online quizzes due every		
	Introduction to project management	Monday 11pm (from Week 2 to 11)		
2	Project/product lifecycles and organisational			
	structures			
3	Project integrats ignment Proje	Assignment 1. Running Case 1 handed out		
4	Project scope management	Assignment 1: Running Case 2 handed out		
5	Project schedule management / POWCO	der.com		
_	-	Assignment 1: Running Case 3 handed out		
6	Project cost management WeChat	Assignment 1: Junning Case 4 handed out		
7	Project risk management	Assignment 1 due Friday 18 Dec 2020 5pm		
Semester Break (21 December 2020 – 3 Jan 2021)				
8	Project quality and procurement management	Assignment 2: Running Case 5 handed out		
9	Project communication and stakeholder			
	management	Assignment 2: Running Case 6 handed out		
10	Project resource management	Assignment 2: Running Case 7 handed out		
11	Project Management Process Group and			
	Agile vs Predictive Approach	Assignment 2 due Friday 29 Jan 2021 11pm		
12	Wrap up	Oral presentation during Week 12 tutorial		
		Oral presentation during Week 12 tutorial		

Lecture 1 – Introduction to Project Management

- Explain what a project is, list various attributes of projects, and describe the triple constraint of project management
 - A project is a temporary endeavor undertaken to create a unique product, service, or result
- Describe project management framework, including project stakeholders, the project management knowledgenates://poweroderarchenhiques, and project success
- Discuss the relationship Active Wer older to portrong and the contributions each makes to enterprise success
 - Project management is the application of knowledge, skills, tools, and techniques to project activities to meet project requirements
 - A program is a group of related projects managed in a coordinated way
 - Project portfolio management involves organizing and managing projects and programs as a portfolio of investments
- Project managers play a key role in helping projects and organizations succeed



Lecture 2 – Organisational structures and Project and Product Lifecycles

- Project managers need to take a systems approach in order to successfully manage projects - to consider projects within the greater organisational context.
- To ensure project assignmente Project Example The pate business and organisational issues as well as technology into project planning.
- Organisations have four different trames—structural, human resource, political and symbolic frame. Project managers need to understand all of these aspects of organisations to be successful eChat powcoder
- The three basic organisational structures: functional, matrix, and project.
 - Project managers have the most authority in a pure project organisation, an intermediate amount of authority in a matrix organisation, and the least amount of authority in a pure functional organisation.
- Organisational culture also affects project management. Projects are more likely to succeed in certain culture especially where there's a balance among the dimensions of people focus, control and means orientation.



Lecture 2 (cont..)

- Project managers must identify and understand the different needs of all stakeholders involved with their projects.
- Top management commitment is crucial for project success.
- Proper IT governance and development standards and quidelines assist most organisations in managing projects.
- A project life cycle is a totlestion/pfotosesderaditional project phases include concept, development, implementation, and close-out.
 - A project should Actes With Chatthpough cacter roject phase in order to continue to the next phase.
- Systems development projects can use predictive or adaptive software development models (ASD).
- Examples of Predictive life cycle: the waterfall, spiral, incremental build, prototyping and RAD
- Some examples of ASD include extreme programming, feature driven development, dynamic systems development model, and scrum.

Lecture 3 – Project Integration Management

 Project integration management involves coordinating all of the other project management knowledge areas throughout a project's life cycle.

- Project integration management includes 6 processes:
 - 1. Developing An Signament Project Exam Helper Phase
 - 2. Developing the project management plan
 - 3. Directing and managing process of the process of
 - 4. Monitoring and controlling project work
 - 5. Performing integrated change control
 - 6. Closing the project or phase
- Common techniques for selecting projects:
 - broad organisational needs need, funds and will
 - categorising projects project's impetus, time window, overall priority
 - performing financial analyses NPV, ROI, Payback
 - developing weighted scoring models, and
 - using balanced scorecards.

5. Perform Integrated Change Control

Monitor & Control Project

3. Direct & Manage Project

Closing

Project

Project Work

Develop Project Manage ment Project Charter

1. Develop

Cha

Lecture 4 - Project Scope Management

 Project scope management includes the processes to ensure that the project addresses all the work required to complete the project successfully.

Planning The six main processes Process: Plan scope management project Exam
Outputs: Scope management plan, requirements management plan of scope management Process: Collect requirements Outputs: Requirements documentation, requirements traceability matrix Process: Define scope https://powcoder.com Outputs: Project scope statement, project documents updates Process: Create WBS Outputs: Scope baseline, project de cuments up later DOWCOGET Monitoring and Controlling Process: Validate scope Outputs: Accepted deliverables, change requests, work performance information, project documents updates Process: Control scope Outputs: Work performance information, change requests, project management plan updates, project documents updates, organizational process assets updates Project Start Project Finish

Lecture 5 - Project Schedule Management

 Project time management involves planning the schedule, defining and sequencing activities, estimating activity resources and durations and finally developing the schedule and controlling the schedule throughout the life of the project

The seven main processes of time management

Planning griffe Plat s Deploy increase ment plan Help Process: Define activities Outputs: Activity list, activity attributes, milestone list, project S. management of the Com Process: Sequence activities Outputs: Project schedule network diagrams, project documents updates Process: Testimate activity resources Adtatts: Wto reduct reductions, Qde Tbreakdown structure, project documents updates Process: Estimate activity durations Outputs: Activity duration estimates, project documents updates Process: Develop schedule Outputs: Schedule baseline, project schedule, schedule data, project calendars, project management plan updates, project documents updates Monitoring and Controlling Process: Control schedule Outputs: Work performance information, schedule forecasts, change requests, project management plan updates, project documents updates, organizational process assets updates **Project Start Project Finish**



Lecture 6 - Project Cost Management

- Planning cost management involves determining the policies, procedures, and documentation used for planning, executing, and controlling project cost.
- Types of cost estimates: rough order of magnitude, budgetary and definitive.
- Tools and techniques to develop cost estimates analogous estimating, bottomup estimating, parametric estimating, and computerized tools.
- Determining the budgeting easing easing time.
- Controlling costs includes dominated monitoring cost performance, reviewing changes, and notifying project stakeholders of changes related to costs.
 - Earned value management is an important method used for measuring project performance.
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Outputs: Cost management plan

Process: Estimate costs

Outputs: Activity cost estimates, basis of estimates, project documents

updates

Process: Determine budget

Outputs: Cost baseline, project funding requirements, project

documents updates

Monitoring and Controlling

Process: Control costs

Outputs: Work performance information, cost forecasts, change requests,

project management plan updates, project documents updates,

organizational process assets updates

Project Start

Project Finish

The four main processes

of cost management

Lecture 7 - Project Risk Management

Project risk management is a process in which the project team continually assesses what risks may negatively or positively affect the project, determines the probability of such events occurring, and determines the impact if such events occur.

Risk managemen assignmental Parce jectan Exammining alternate strategies to deal with risks.

The six main processes of risk management

Planning PS:44/P@W@@defnCOM

Outputs: Risk management plan

Process: Identify risks

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Outputs: Project documents updates

Process: Perform quantitative risk analysis

Outputs: Project documents updates

Process: Plan risk responses

Outputs: Project management plan updates, project documents updates

Monitoring and Controlling

Process: Control risks

Outputs: Work performance information, change requests, project

management plan updates, project documents updates,

organizational process assets updates

Project Start

Project Finish



Lecture 7 (cont..)

- Contingency plans are predefined actions that a project team will take if an identified risk event occurs.
- Fallback plans are developed for risks that have a high impact on meeting project objectives, and are implemented if attempts to reduce the risk are not effective.
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- Contingency reserves are provisions held by the project sponsor or organization to reduce the risk of cost by the project sponsor or organization to reduce the risk of cost by the project sponsor or organization.
- Tools for qualitative risk analysis include a probability/impact matrix and the Top Ten Risk Item Tracking technique.
- Tools for quantitative risk analysis include decision trees (using EMV) and Monte Carlo simulation.
- The four basic responses to negative risks are avoidance, acceptance, transference, and mitigation.
- The four basic response strategies for positive risks are risk exploitation, risk sharing, risk enhancement, and risk acceptance.



Lecture 8 - Project Quality & Procurement Management

- Planning quality management identifies which quality standards are relevant to the project and how to satisfy them.
- Performing quality assurance involves evaluating overall project performance to ensure that the project will satisfy the relevant quality standards.
- Controlling quality includes on the controlling quality in the controlling quality in the controlling they comply with quality standards and identifying ways to improve overall quality.

Project Start

The three main processes of quality management

Executing Process: Perform quality assurance Outputs: Change requests, project management plan updates, project documents updates, and organizational process asset updates Monitoring and Controlling Process: Perform quality control Outputs: Quality control measurements, validated changes, validated deliverables, work performance information, change requests, project management plan updates, project documents updates, and organizational process asset updates

Outputs: Quality management plan, process improvement plan, quality metrics,

quality checklists, and project documents updates

Lecture 8 (cont..)

- Planning procurement management involves deciding what to procure or outsource, what type of contract to use, and how to describe the effort in a statement of work.
- Types of contract Fixed-price contracts, Cost-reimbursable contracts, Time and material contacts ignment Project Exam Help

procurement management

Make-or-buy analysis, statement of oder.comprk (SOW), Request for proposal **Planning** Process: Plan procurement management (RFP) and Request for Quote (RFQ) Outputs: Procurement management plan, procurement statements of work, procurement documents, source selection criteria, make-or-buy COpputating procurements involves decisions, change requests, protect of cumulation obtaining seller responses, selecting Executing Process: Conduct procurements sellers, and awarding contracts. Outputs: Selected sellers, agreements, resource calendars, change requests, project management plan updates, project documents updates Controlling procurements involves Monitoring and Controlling Process: Control procurements

Closing

Process: Close procurements

organizational process assets updates

Outputs: Closed procurements, organizational process assets udates

Project Start Project Finish

Outputs: Work performance information, change requests, project

management plan updates, project documents updates,

managing relationships with sellers, monitoring contract performance, and making changes as needed.

Closing procurements involves completion and settlement of each contract, including resolution of any open items. 13

Lecture 9 - Project Communication & Stakeholder Management

- Keys to good communications: focusing on individual and group communication needs, using formal and informal communication methods, providing important information effectively and timely, setting the stage right for bad news, and understanding communications.
- Managing communication includes creating and distributing project information important to determine the project power and distributing project information.

Planning
Process: War Communications management plan, project documents updates

Executing
Process: Manage communications
Outputs: Project communications, project documents updates, project management plan updates, and organizational process assets updates

Monitoring and Controlling
Process: Control communications

Outputs: Work performance information, change requests, project

documents updates, and organizational process assets updates

The three main processes of communication management

Project Start

Project Finish



Lecture 9 (cont..)

Project Start

- When managing stakeholder engagement, project managers and teams must understand various stakeholders' expectations and use their communications and interpersonal skills.
- A stakeholder analysis is a key technique used in planning stakeholder engagement.
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stakeholder management Stakeholder register – Initiating Stakeholders can be internal or Process: Identify stakeholders external to the organization, and Outputs: Stakeholder register they might support or oppose your **Planning** Process: Plan stakeholder management dd WeChat powcode foject Outputs: Stakeholder management plan, project documents updates Stakeholder management plan – Executing describes stakeholder engagement Process: Manage stakeholder engagement Outputs: Issue log, change requests, project management plan updates, levels, inter-relationships, project documents updates, organizational process assets communication requirements, updates management strategies, and a Monitoring and Controlling process for updating the plan. Process: Control stakeholder engagement Outputs: Work performance information, change requests, project **Issue log** – a document used to documents updates, organizational process assets updates help track and resolve issues on

Project Finis

projects.

Lecture 10 Part 1: Project Resource Management

People are the most important assets in organizations and on projects. Therefore, it is essential for project managers to be good human resource managers.

Herzberg (motivators and hygiene factors); McGregor (Theory X and Y)

Assignment Project Exam Help The four main **Planning** processes of human Process: Plan human resource management Output: Human resource plantips://powcoder.com resource management Executing Process: Acquire project team Outputs: Project staff assign ents Mesource Lating & Wood er management plan updates Process: Develop project team Outputs: Team performance assessments, enterprise environmental factors updates Monitoring and Controlling Process: Manage project team Outputs: Change requests, project management plan updates, project documents updates, enterprise environmental factors updates, and organizational process assets updates Project Start Project Finish

Lecture 10 (Part 2) - Project Monitoring & Controlling

- Earned Value Management (EVM) a technique used to help determine and manage project progress
- It evaluates the magnitude of any variations from the planned values concerning cost, schedule, and performance
- It helps the project teath tanks stake by the teath of just how the project is performing

Earned Value Formula Add WeChat powcoder

Planned Value = PV (or BCWS) = (Planned % Complete) x (Project Budget)

Actual Cost = AC (or ACWP)

Earned value = EV (or BCWP) = (Actual % complete) x (Project Budget)

Cost Variance (CV): CV = EV - AC

Cost Performance Index (CPI): CPI = EV/AC

Schedule Variance (SV): SV = EV - PV

Schedule Performance Index (SPI): SPI = EV/PV

Budget at Completion = BAC

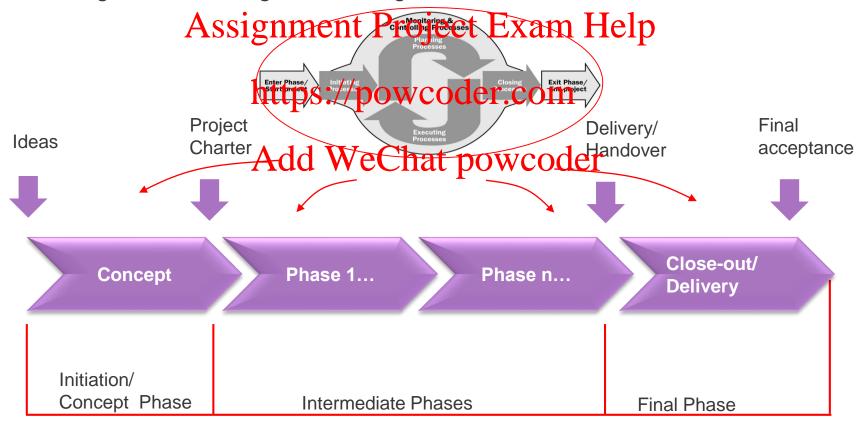
Estimate to Complete (ETC): ETC = (BAC- EV)/CPI

MONASH | Estimate at Completion (EAC): EAC = AC + ETC



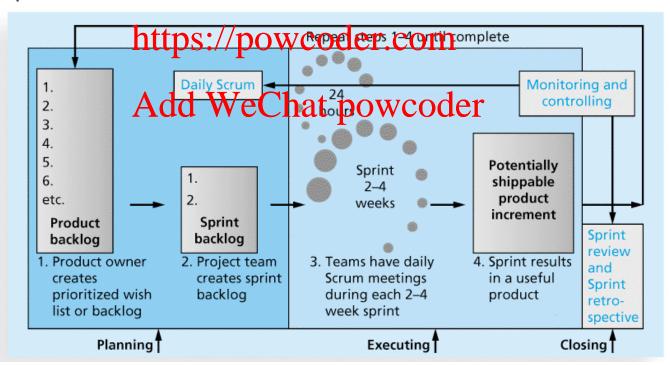
Lecture 11 – Project Management Process Group and Agile Approach

 The five project management process groups are initiating, planning, executing, monitoring and controlling, and closing.



Lecture 11 (cont..) – Agile Approach

- Scrum Roles product owner, Scrum Master, Scrum team or development team
- Scrum Artefacts include: Product backlog, Sprint backlog, Burndown chart
- Scrum Ceremonies Sprint planning session Daily Serum, Sprint review, Sprint retrospectives Sprint planning session Daily Serum, Sprint review,





Exam Preparation: Format of the Exam

- The exam is 2 hours 10 mins and contributes to 50% of the unit assessment
- It will consist of Assign(m) eatt Project Exam Help

Total	80 marks
Part D: Calculation - 4 questions with sub-parts	35 marks
Part C: Case Study with 3 sub-parts	15 marks
Part B: 5 short answer questions worth 2 marks each. Add WeChat powcoder Part C: Case Study with 3 sub-parts	10 marks
Part A: 20 multiple troise / pestions dearth or mark each.	20 marks

Refer to the Mock eExam (link provided in Moodle).

Part A: Multiple Choice Questions

- There will be 20 multiple choice questions each worth 1 mark.
- No "filling in the blanks" questions. Assignment Project Exam Help About 2 ~ 3 questions from each lecture.
- Best way to prepare hot this is to with all the main a quizzes which would be made available on Moodle shortly (for unlimited attempts). Add WeChat powcoder



Part B: Short Answer Questions

- There will be 5 short answer questions each worth 2 marks.
- This can come from any lecture (Lecture 1 11). Assignment Project Exam Help Would be good to go through your tutorial questions

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Part C – Case Study

- There will be 3 sub-parts totalling 15 marks.
 - You will be given a scenario
 - What you've soil mest har help
 - Possible topics/questions:
 - · Requirements the capilly reader.com
 - Stakeholder register and/or analysis Add WeChat powcoder
 - Communication management plan
 - Risk management Risk register
 - Issue log
 - Other concepts covered in the unit



Part D - Calculation

- Topic: Earned value management (8 marks)
 - Be able to:
 - Calculate the finate interlange Stream Variety pe, Cost Performance Index and Schedule Performance Index for a project. https://powcoder.com
 - Interpret the results.
 Refer to Week 6 & 10 materials to prepare for this
 - Formula is given (as shown in mock exam paper)



Part D – Calculation

- Network diagram worth 12 marks

 - Topic: Project time management (week 5 materials)
 Be able to: Assignment Project Exam Help
 - Draw a project network diagram using the activity on node https://powcoder.com method.
 - Perform calculations (estimated time and floats for each activity) on the project network.
 - Identify the critical path.
 - Identify the impact of a delay of any activity on the project duration.

Section D - Calculation

- Project compression (worth 15 marks)
 - Topic: Project time management
 - Refer: Projectschimende Project Ex 300mm 19, Tutorial 6 & extra exercise.
 - Be able to perforint the swork of the strong refer to next slide).
 - Templates will be given in the exam

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Steps to perform network compression:

- 1. Draw an all-normal network diagram, and find out the critical path.
- 2. Pay a close attention to "network limitation", and find out which activities are not to be compressed then cross these activities out.
- 3. Start to compress the activity in critical path by the pumber of days until the next chain become critical. And calculate the increase in project cost.
- 4. If a second critical path develops the were three critical paths then we would have to compress each of the three chains by the same amount to achieve a certain compression. Then again repeat the network endulation and that compression errors.
- 5. Repeat step 4 until full crash of the project.
- 6. Prepare a quotation to compress the project to the certain required duration. And calculate the activity duration.
- 7. Calculate the minimum target selling price based on the following formula:
 - Total build cost = Normal project cost + Extra cost to achieve the required duration Target selling price = $(1 + margin) \times Total$ build cost



Faculty Policy - Unit Assessment Hurdles Policy

To pass a unit which includes an examination as part of the assessment a student must obtain:

- an overall unit mark of 50% or more, and
- 40% or more in Atos in interpretation in the inferior of the control of the con
- 40% or more in the unit's total non-examination assessment.

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If a student does not achieve 40% or more in the unit examination or the unit non-examination total assessment, and the total mark for the unit is:

- greater than or equal to 50% When a hat ROMS ROW be recorded
- less than 50% then the actual mark for the unit will be recorded.
 - Suggestions for exam preparation: All video recording, all seminars and tutorials.
 - See mock eExam link provided in Moodle
 - Check exam consultation times

Pre-Exam Consultation

Date:	Time:	Zoom link:
Tue 9-Feb	2pm - 3pm Assignment	https://monash.zoom.us/j/93737387165?pwd
Wed 10-Feb	12pmhttps://p	https://monash.zoom.us/j/81742885396?pwd
Thu 11-Feb		https://monash.zoom.us/j/98633923616?pwd
Fri 12-Feb	10am – 11am	https://monash.zoom.us/j/93470179155?pwd =b0VSWEJRZDIKT3U4WTVGdEZENTFyZz 09

- Please refer to Moodle for the most updated schedule.
- Please feel free to email Mary (<u>poh.lim@monash.edu</u>) if you can't make it for the above consultation or post your question on the Ed discussion forum.



Revision Session

Date & Time: Tue 9 Feb10am – 12pm

Zoom link: same as the seminar zoom link

Assignment Project Exam Help

- Revision NPVhtphi/poyedernepression
- Please email (pohdlim@endmashoedto)deryou have any particular topics that you would like to go through
- Zoom session will be recorded



Good Luck!!

Assignment Project Exam Help

Please hop on this link to do an evaluation:

- https://powcoder.com
 SETU can be accessed through the Moodle block (http://moodleAvle.lwenash.edu/cov/e)rlisted under the units section in Moodle.
- SETU can be accessed directly through the SETU survey landing page – https://monash.bluera.com/monash

