

SWEN90016

Software Processes & Project Management

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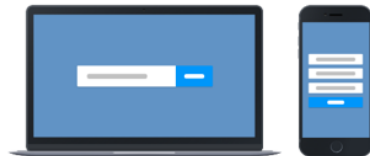
2020 – Semester 1

Lecture 2

Lecture Quizzes

1. Not marked.
2. Majority of exam multiple choice questions will be selected from these.

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Lecture 1 – Recap

- ✓ Understand Assignments and our expectations
- ✓ Understand key elements of a Project and why organisations use them
- ✓ Understand the foundational components of Project Management
- ✓ Understand key skills, responsibilities & activities of a Project Manager
- ✓ Understand key elements of how to manage Projects
- ✓ Exposure to some Project Management Methodologies

Lecture 1 – Recap

- ✓ Explore key drivers in why projects fail / succeed
- ✓ Understand how organisations select the best / right projects
- ✓ Understand the Project Initialization process, Business Case structure and why organisations use them
- ✓ Explore various Investment techniques and financial models
- ✓ Understand responsibilities associated with building a Business Case and the accountable group / individual
- ✓ Understand what a Project Charter is and how it is used

L1 - Recap





2020 - Semester 1 Structure

Week #	Lecture Date	Sunderland Theatre Medical Building C216 Thursday 8.15am to 10am	Assignment
1	05/03/20	Subject Introduction Introduction to Projects Projects	Assignment 1 Spec available on LMS Friday 6 th March
2	12/03/20	Project Management Plans SDLC's Agile	
3	19/03/20	Individuals, Motivation and Teams Assignment 1 & 2 open forum / discussion	
4	26/03/20	Project Planning and Scheduling	Assignment 2 available & Groups created during the workshops / tutorials – attendance mandatory
5	02/04/20	Cost Estimation	Assignment 1 (Individual) due Thursday 02/04
6	09/04/20	Stakeholder Management Communication Management	
	16/04/20	Non Teaching Week – Mid semester break	
7	23/04/20	Risk Management	Assignment 2 (Part 1) due Wednesday 22/04
8	30/04/20	Quality Management Configuration Management	
9	07/05/20	Ethics Outsourcing and Procurement	Assignment 2 (Part 2) due Saturday 09/05
10	14/05/20	Configuration Management	Assignment 2 (Part 3) due Saturday 16/05
11	21/05/20	Guest Lecture	Assignment 2 (Final) due Saturday 23/05
12	28/05/20	Subject Revision and Exam Prep	Assignment 2 Project Demonstration during tutorials

Lecture 2 – Intended Learning Objectives

Module 4 – Project Management Plans.

Module 5 – SDLCs.

Module 6 – Agile.

Lecture 2 – Intended Learning Objectives

Module 4 – Project Management Plans:

1. What are they and When should they be used

Module 5 - SDLCs:

1. Review two key Software Development Lifecycles (SDLCs).

What is a Process?

A set of actions or activities that are randomly completed to achieve any outcome

A process is a series of progressive and interdependent steps by which an end is attained

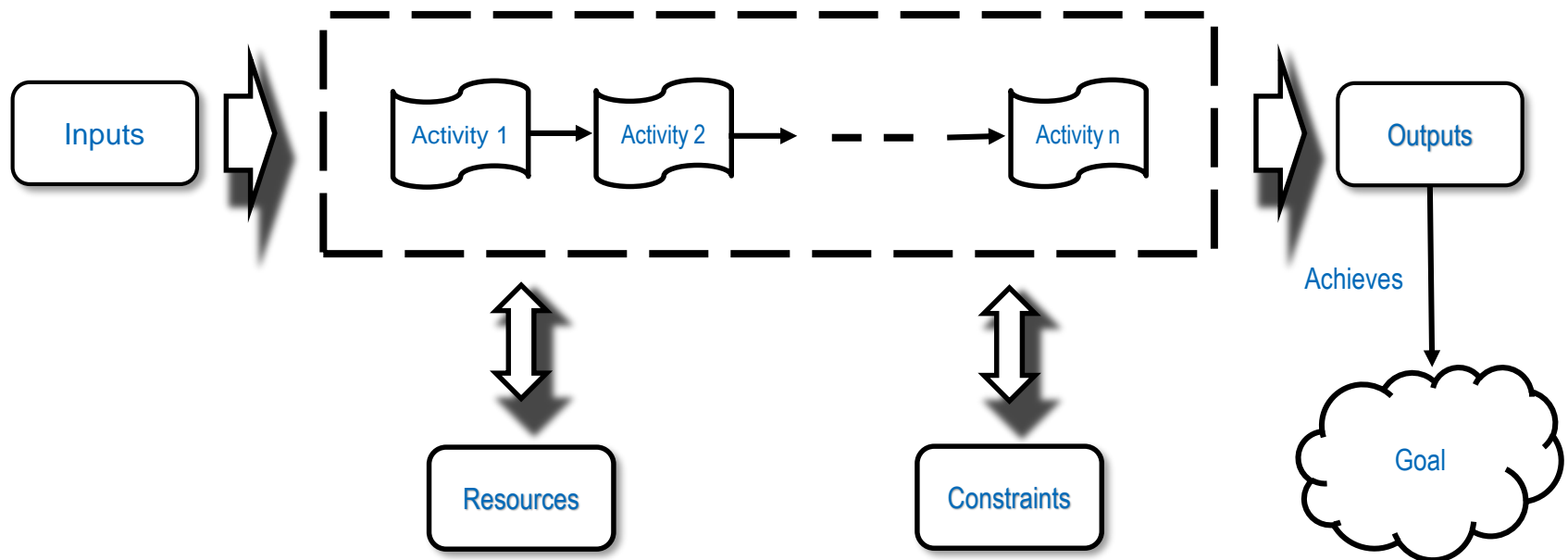
A specific activity that is partially completed

All of the above

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Module 4.1 – What is a Process?

A process is a series of progressive and interdependent steps by which an end is attained.



Module 4.1 – What does a Process have to do with Project Management and Software Engineering?

1. Project Management is a process as it defines a series of tasks (Planning, Executing and Controlling) to deliver a specific / an agreed set of outcomes.
2. System Development Lifecycle (SDLC) is a term used in Software Engineering. It describes a process for planning, creating, testing, and deploying an information system. SDLC can be composed of hardware only, software only, or a combination of both.

Module 4.1 – Project Management Plan (Formal)

Almost every organisations will have it's own “*version*” of a Project Management Plan (PMP), however the reasons they have and use them are the same.

A PMP is a formal approved document that defines how the project is executed, monitored and controlled. It may be a summary or a detailed document.

It is a document that is owned, controlled and populated by the Project Manager and is used throughout the project.

A good PMP provides the required level of detail across key project components and is the one source of truth for all parties involved across the project.

A Project Charter is a summary project proposal to secure approval for the project goals and terms (useful as part of Business Case).

A PMP is an approved document showing how to achieve the approved project goals / benefits and provides the details on how to execute and manage the project (used as part of mobilisation and on-going management of the project).

[illegible]

Primary Use: Detailed document used to establish and manage the project. Defines all key items the project needs to consider.

Module 4.1 – Project Management Plan (Formal)

A typical PMP consists of all / or most of the following categories.

- *Project Information*
 - Executive Summary
 - Financial Authority to proceed
 - Key Stakeholders
 - Scope
 - Delivery approach / SDLC - Waterfall or Agile
 - Resources / People
 - Key Milestones
 - Project Budget
 - Lessons learned applied to this project
 - Constraints

Module 4.1 – Project Management Plan (Formal)

And.....

- *Project Governance*
 - Roles and Responsibilities
 - Mandatory Project Planning / Key Additional Activities
 - Schedule
 - Risk Management
 - Cost Estimation
 - Quality Assurance
 - Configuration Management (Change Management)

The PMP is a large multi-page document that takes time to prepare, review and complete. Multiple people (subject experts) are involved and prepare the specific details. The Project Manager coordinates all items and has ultimate accountability for the quality and final outcome.