

# CS4457 Project Management and Practice

Lecture 1 - Week 1

Introduction

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# Meet the lecturer!

## Abhishek Oommen Jacob

- B.Tech in Computer Science 2010/14
- MSc in Software Engineering - UL 22/23
- 8 years of software development experience
- 2 years as technical team lead
- One of the four lads at 'Driving Class' startup
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- Brightspace discussion forum - All module related queries

**Your turn!**

# Today we will look at...

- Why Project Management?
- Learning outcomes of the module
- Core concepts of Project Management
- Assessments overview
- Some housekeeping

# Why Project Management in Software Development?

## Sainsbury's Business Transformation Project

- Warehouse Automation - Supply Chain Management System
- Outsourced to Accenture - IT consultant
- 2000 - Project announced
- 2003 - Initial installations - Errors in reading barcodes.
- 2005 - Went fully live - Sainsbury claimed it met the objectives
- 2007 - Declared a failure and scrapped
- Wrote off £260m of IT expenditure - Hired 3000 extra warehouse staff
- Company's worst financial performance in more than 100 years of operation





# Why Project Management in Software Development?

## Sainsbury's Business Transformation Project

- Challenges with automation system - Software issue
- Bad decision making by top management
- Poor communication with outsourcee
- Not addressing issues found in the initial phase
- Lack of a proper contingency plan

# Why Project Management in Software Development?

## The CHAOS report [1]

- Survey of IT project success
- Done by Standish Group in 1994
- 365 IT managers in the United States - 8,380 projects
- **Overall success rate - 16.2%**
- **31.1%** projects **cancelled** before completion
- Success = meeting project goals on time and budget

*“Software development projects are in chaos”*

# Why do you need this module?

Let's put the 'anti-social programmer' stereotype to some use





I'm not saying...

**Bad!**



**Good!**

# Why do you need this module?

## Forbes - The 10 Skills Employers Most Want In Graduates [2]

1. Ability to work in a **team structure**
2. Ability to **make decisions** and **solve problems**
3. Ability to **communicate verbally** with people inside and outside an organization
4. Ability to **plan, organize** and **prioritize** work
5. Ability to **obtain** and **process information**
6. Ability to **analyze** quantitative data
7. Technical knowledge related to the job
8. Proficiency with computer software programs
9. Ability to create and/or edit written **reports**
10. Ability to **sell** and **influence** others

# Learning Outcomes

- You'll be able to understand and employ the core **Project Management concepts**
  - Project success & failure
  - Stakeholders
  - Communication
  - Scope
  - Schedule
  - Risks ... and more
  - With an emphasis on **Information Technology** context
- You'll have practice in presenting to **sell your project**
- You'll work together to produce a **written project plan**

# The core concepts...

## Let's look at this module as a project.

- What's a **successful** outcome?
- Who are your **stakeholders**?
- How would you **communicate** with them?
- What's the **scope**?
- What **schedule** will you need to stick to?
- What **risks** may interrupt your outcome?
- What **constraints** are you working with?



# What is a project?

“A project is a **temporary** endeavor undertaken to create a **unique product, service, or result**.”

- Temporary
- Unique nature
- Creates value

## Examples

- Developing software to for a business process
- A community event to support a charity
- Upgrading a manufacturing facility

# Project or not?



Making a cake for a birthday party



Making a burger at a fast food joint

# Project vs Operation

Project	Operation
Temporary	Ongoing
Unique output	Repeated output
Adaptive process	Routine process

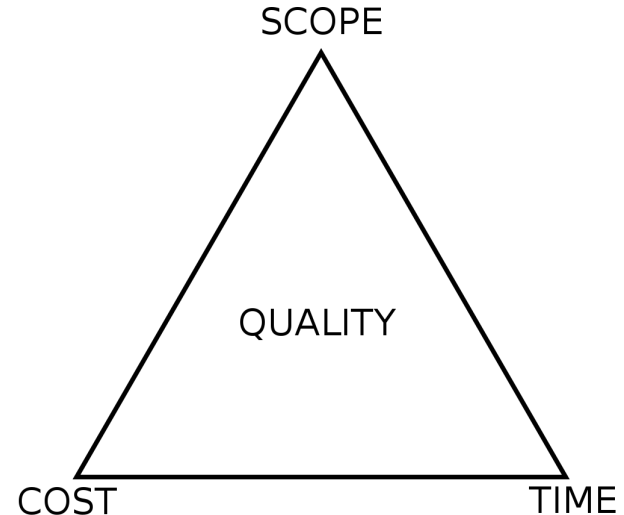
# Project Constraints

Competing factors to be must balanced for the success of a project

## Triple Constraint / Iron Triangle / Project Management Triangle

- **Scope** : What work?
- **Time** How long?
- **Cost**: How much?

*"Good, fast, cheap. Choose two."*





# Module Assessments

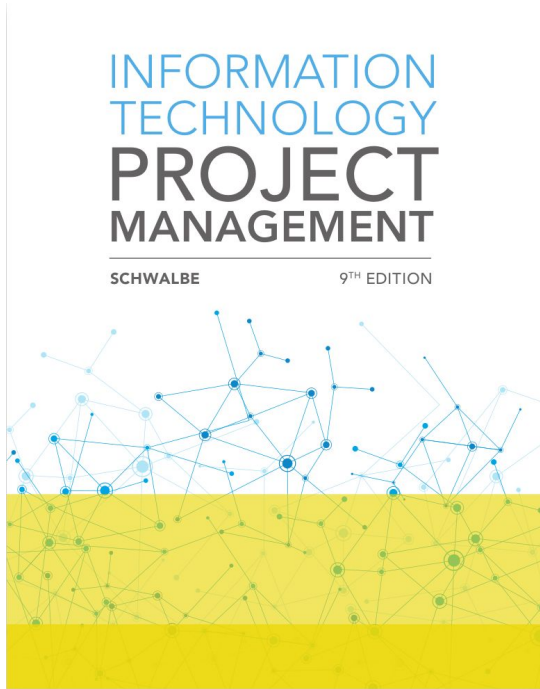
No	Assessment	% total grade	Group assessment?
1	Active participation	15	Partially
2	Mid-term exam	15	No
3	Group Project	40	Yes
4	Final exam	30	No

**Dates:** TBA on Week 2

# Some housekeeping

- Brightspace enrolling (Erasmus, Study abroad?)
- Class reps from each course
- Lab / tutorial hours

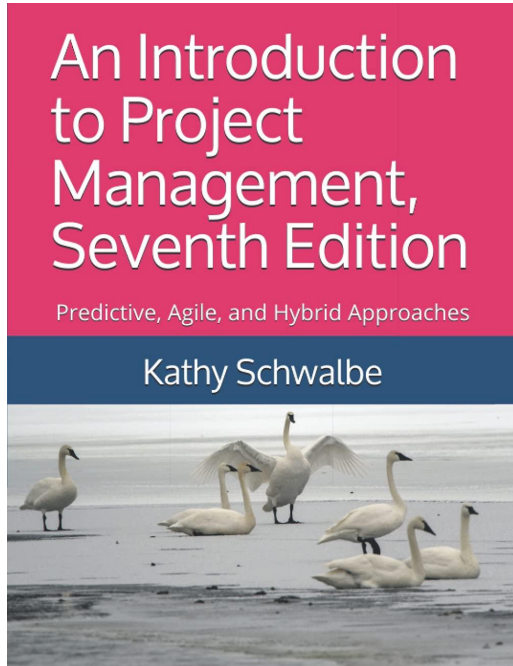
# Core Textbook



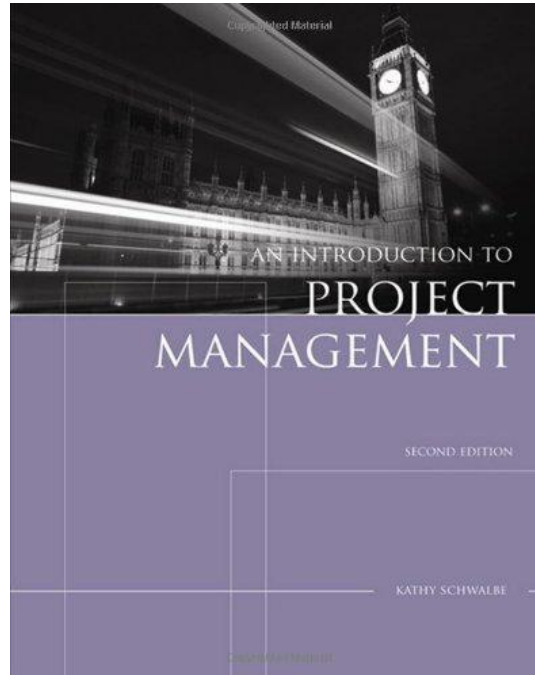
*“Information Technology Project Management” by Kathy Schwalbe,  
Course Technology Cengage Learning,  
9th edition*

# Recommended Textbooks

*“An Introduction to Project Management” by Kathy Schwalbe, Schwalbe Publishing, 7th Edition*



*“Introduction to Project Management” by Kathy Schwalbe, Course Technology Cengage Learning, 2nd Edition*



- All three are more or less the same
- Different editions are also fine
- Physical books available in library
- Suggested reading chapter pertains to core textbook

# Suggested Reading

- *Chapter 1 - Introduction to Project Management, “Information Technology Project Management” by Kathy Schwalbe, Course Technology Cengage Learning, 9th edition*

Questions?

# References

- [1] Standish Group, “The CHAOS Report,” [www.standishgroup.com](http://www.standishgroup.com) (1995)
- [2] Adams, Susan, “The 10 Skills Employers Most Want in 2015 Graduates,” *Forbes* (November 12, 2014).
- [3] PM4Dev, Definition of Project Success,  
<https://www.pm4dev.com/pm4dev-blog/entry/definition-of-project-success.html>