University of Windsor

01

Course Introduction

Kalyani Selvarajah
School of Computer Science
University of Windsor

Internship/Project I
COMP-8967-1
Fall 2023

Today's Agenda

8:30 am to 10:10 am   Course Outlines
                             Get to know Course Team
                             Project description: Expectations
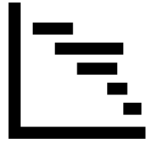   Q&A
10:10 am to 10:20 am   Icebreaker
10:20 am to 11:20 am   Project Teams Finalization

Introduction

Digital or Software age

Age of mass production

Traditional management + Leadership practices

To manage work,
to build the process, and
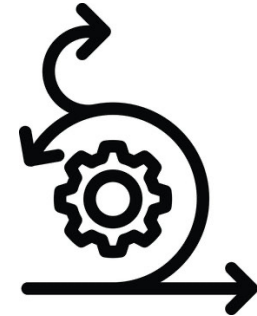to provide the intelligence for work to be done.
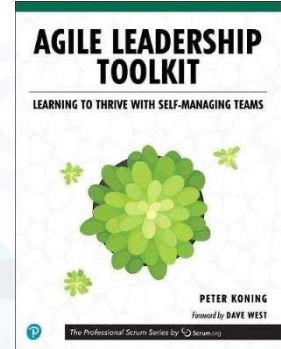
Workers   vs   Management

Teams   Agility

Agile leadership is the future!

Recommended Textbook

Agile Leadership Toolkit: Learning to thrive with self-managing teams.
By Koning, Peter. Pearson Addison-Wesley, 2020.
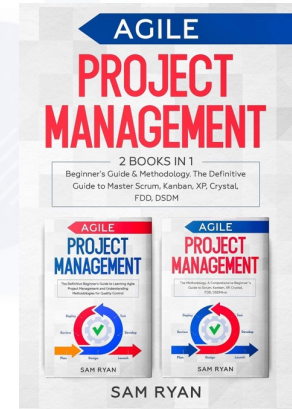
Agile Project Management.
By Peters, Jeff. ISBN 9781705596395, 2020.

Agile Project Management: Beginner's Guide & Methodology.
The Definitive Guide to Master Scrum, Kanban, XP, Crystal, FDD, DSDM (2 books in one).
By Ryan, Sam. 2020. ISBN 9781654040789.

Course Support

Nahid Abdolrahmanpour Holagh

Ph.D. Student in Computer Science,
University of Windsor. Expertise in Data
Mining & Artificial Intelligence 🔗Research
Focus: Social Network Analysis
I am a PhD student in Computer Science
at the University of Windsor. With a solid
foundation in Data Mining and Artificial
Intelligence, I have already earned a
master's degree in Computer Science,
specializing in Data Mining.

Office hours: Tue 9:00am to 11:00 am
Email: abdolran@uwindsor.ca

Course Instructor

Welcome to COMP-8967-1 Internship/Project I Course!

I am Kalyani Selvarajah, former PhD student at University of Windsor and Currently working as Assistant Professor. I did my undergrad and Masters studies from University of Peradeniya, Sri Lanka.

My research interests are Social Network Analysis and Knowledge graphs using AI and Deep learning techniques. I have published several peer-reviewed journals and conference articles, including IJCNN, ECAI, ICCS, and Expert Systems with Applications.

kalyanis@uwindsor.ca

Office hours: Every Tuesday from 9:30 am to 11:30 am At 300, Ouellette

Other times can be arranged by appointment (meaning if you are unable to make my office hours to discuss a concept in a given week, you are encouraged to send me an e-mail asking for a different time. Please include a list of proposed times since I do not have access to your schedule.)

Courses Taught

At University of Windsor,
- Applied topics in AI (From Fall 2022)
- Advanced Database Topics (From Summer 2020)
- Artificial intelligence Concepts (From Fall 2019)
- Artificial Intelligence for Games (Winter 2020)
- Data Structures and Algorithms (Summer 2020)
- Introduction to Software Engineering (Fall 2020)
- Internship/ Project I (From Summer 2021)
- Internship/ Project II (From Fall 2020)

At Sri Lanka Institute of Information Technology (From 2011 to 2016)
- Introduction to Programming (C++)
- Data Structures and Algorithms
- Database Management System
- Web Applications
- Discrete Mathematics

Student Responsibilities

To be polite in all dealings with

        the professor,

        the GA/TAs, and

        the other students.

To attend in person class **on time** and ready to participate in the learning process.

If you miss any announcement, it is your responsibility to catch up on instruction you have missed.

To ensure that you do not plagiarize in any assignment.

To ensure to submit all assignments on time.

Rules in the Classroom

Rules: (Always)

1. Don't be shy

2. Respect everyone around you

3. If someone else is talking, let's listen

Course Planning

| Week	Date	Description
		Morning (8:30 am to 11:30 am)
1	**8-Sep**	**Course introduction**
2	**15-Sep**	**Kickoff Meeting with businesses**
3	22-Sep	Discussion
4	**29-Sep**	**1st Open Office Meeting**
5	6-Oct	Discussion
6	13-Oct	**Reading week**
7	**20-Oct**	**2nd Open Office Meeting**
8	27-Oct	Discussion
9	**3-Nov**	**Guest Speech: "Innovation Blueprint" by Susana Martins, Business Advisor, WEtech Alliance**
10	**10-Nov**	**3rd Open Office Meeting**
11	17-Nov	Discussion
12	**24-Nov**	**Presentation: Pitch Competition**
13	1-Dec	Course Wrap Up

Course Policies

Refer to course outline.

Academic Honesty:
- ➢ Refer to UWindsor_Policy Page.
- ➢ If you're not sure, ask the professor.
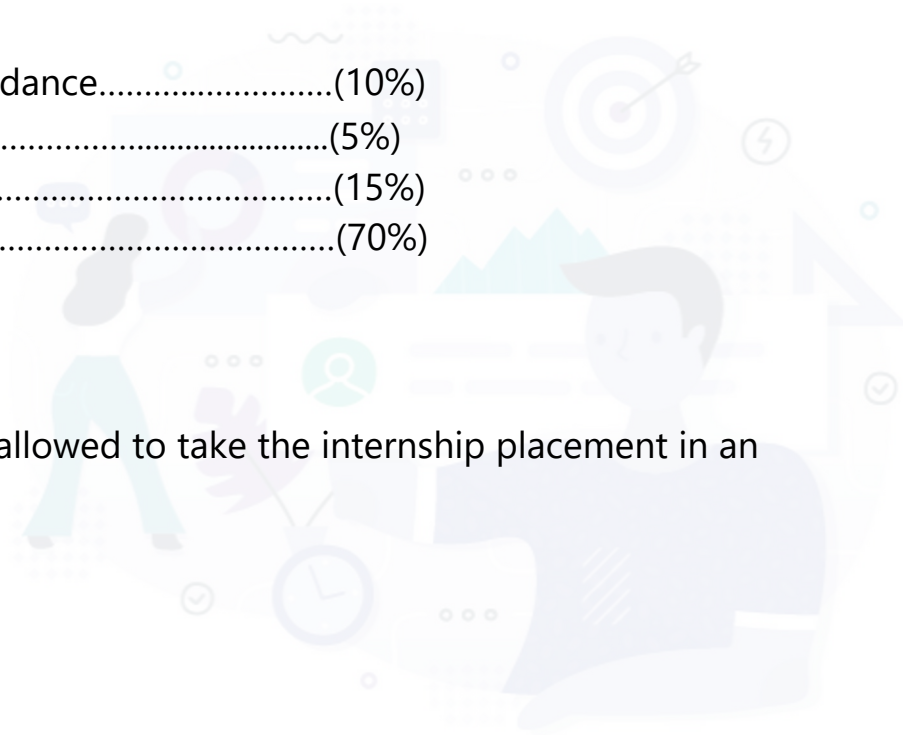- ➢ Plagiarism will not be tolerated.

All discussion and announcements will be on Brightspace course page.

Late Submission:

- ➢ If you miss an assignment, or other assessment in the course you will receive a **zero mark for the missed work.**
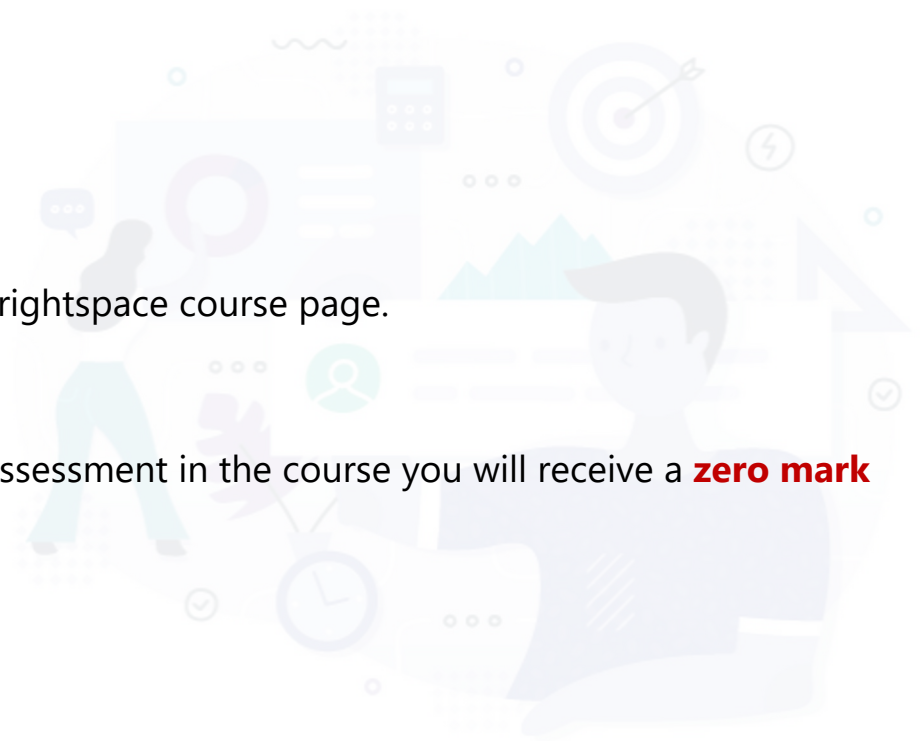
Course Evaluation

Weekly Participation in class activities and Attendance..........................(10%)
Workshop/Seminar Attendance..(5%)
Discussions and/or Assignments ....(15%)
Project...(70%)

NOTE: Students who fail this course will not be allowed to take the internship placement in an industry even if they reserve their placement.

Weekly Participation in class activities and Attendance

✓ Weekly Participation in class activities throughout the semester- All are logical thinking questions.
✓ Attendance

Submission: frequently check the discussion forum to submit your thoughts. Continue to participate in class activities.

NOTE:

Being late to the classroom will not be allowed. (you should get permission if you have co-op interview)

Leaving the classroom early will not be considered for the attendance.

Student who disturbs the classroom activity will be remove from the class. – has to face consequences.
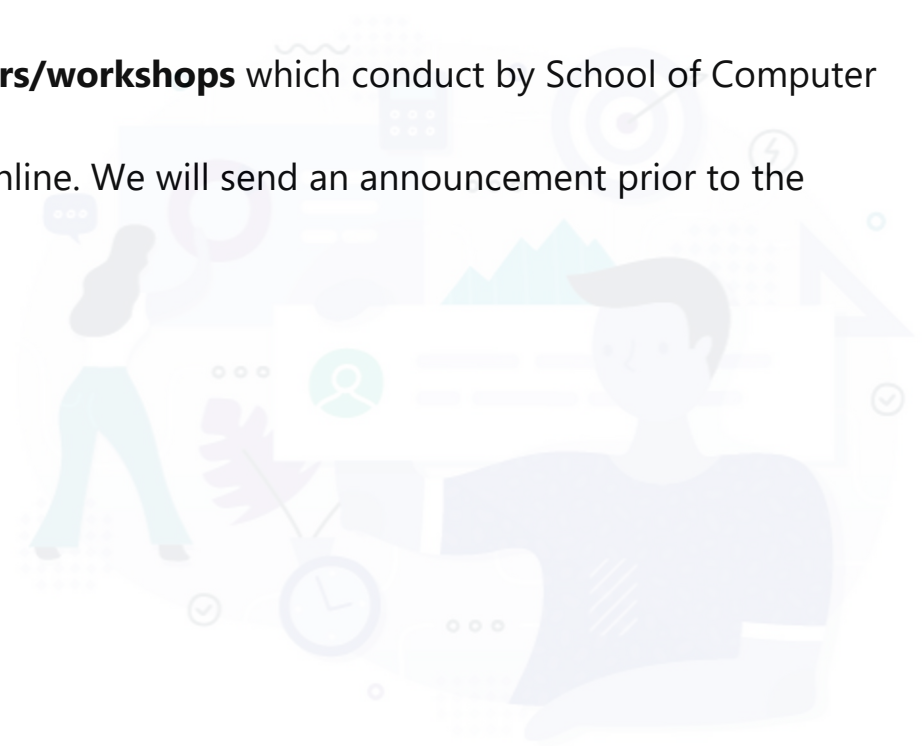
Discussion

Based on agile project management and leadership.

Workshop & Seminars

- You should complete **minimum 10 Seminars/workshops** which conduct by School of Computer Science.
- Seminars/Workshops can be in-person or online. We will send an announcement prior to the event.

Project Pitch Competition

- A new pilot program in partnership with WEtech Alliance.
- Local businesses will partner with student teams:
    - to offer hands-on learning for students.
    - project focus will be on addressing an existing business challenge through software development.

- 6 businesses have been already selected to participate in this pitch competition.

Grading Distribution and Deadlines

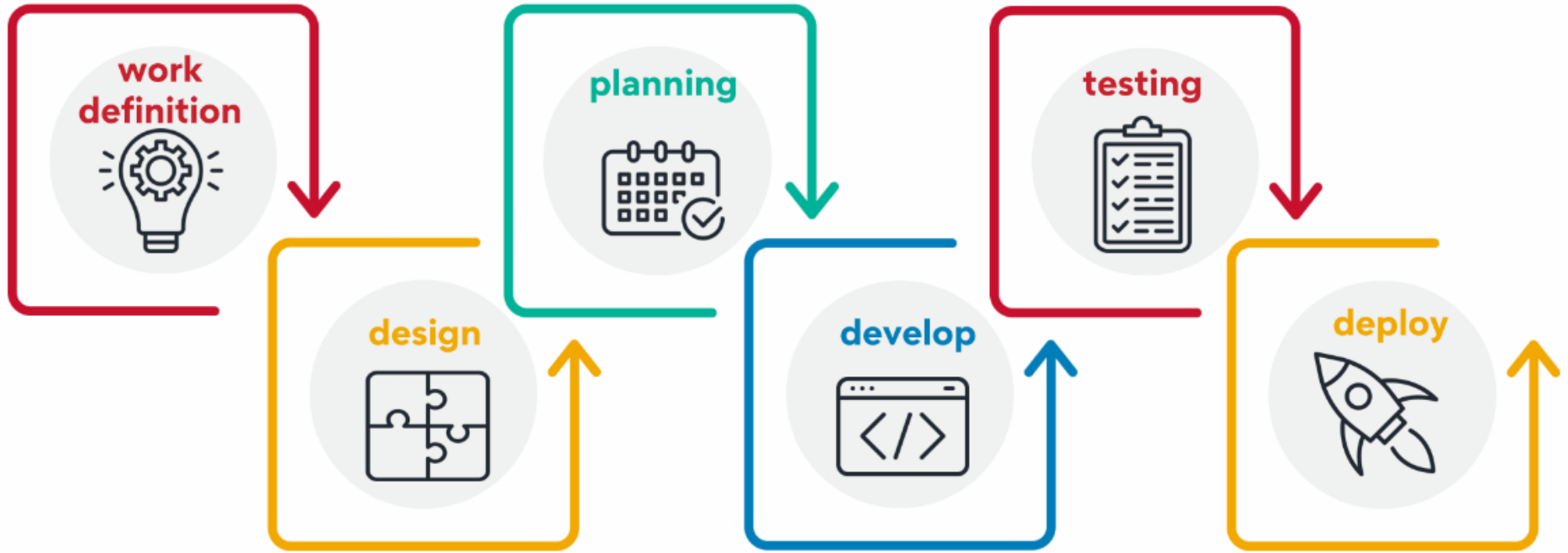|	Criteria	Due dates	Grades
1	Team Formation	Sep 8th	
	Business Selection	Sep 11th	
	Kickoff Meeting: Questions	Sep 13th	
	P1: Initial Setup	Sep 22nd	13 %
2	Continuous Evaluation (Each week)		
	1st Open Office Meeting: Questions	Sep 27th	
	P2: Summary Report	Oct 6th	7%
3	Continuous Evaluation (Each week)		
	2nd Open Office Meeting: Questions	Oct 18th	
	P3: Summary Report	Oct 27th	7%
4	Continuous Evaluation (Each week)		
	3rd Open Office Meeting: Questions	Nov 8th	
	P4: Summary Report	Nov 17th	7%
5	Continuous Evaluation (Each week)		
	Feedback for your group members (individual)	Nov 17th	3%
	Feedback for the business (individual)	Nov 17th	3%
	P5: Final Project Report with user manual	Dec 1st	10%
	Presentation: Project Pitch for businesses	Nov 24th	10%
	Total		**60%**

Project Team

- Select your team members based on the business challenge.
- Each team will have 5 members. Three teams will get additional members. (Total class is 154)
- 5 teams will work for a business and compete among them.

Business 1	Business 2	Business 3	Business 4	Business 5	Business 6
Group 1	Group 6	Group 11	Group 16	Group 21	Group 26
Group 2	Group 7	Group 12	Group 17	Group 22	Group 27
Group 3	Group 8	Group 13	Group 18	Group 23	Group 28
Group 4	Group 9	Group 14	Group 19	Group 24	Group 29
Group 5	Group 10	Group 15	Group 20	Group 25	Group 30

Continuous Evaluation

- A mentor (GA) will be assigned to each group.
- Each group will be having weekly meetings with your mentor.
- Mentor should be added to **your group chat – MS TEAMS**.
  - All meetings and conversations should be shared in the TEAMS chat.
- Use right tools for project management, version control, repository, technology stacks, etc.
  - Check the video from RIS under resources
  - Contact us if you need any help, e.g- JIRA
- We monitor soft skills and professionalism.
- Mentor monitors each sprint including WBS.

software development lifecycle...

work definition
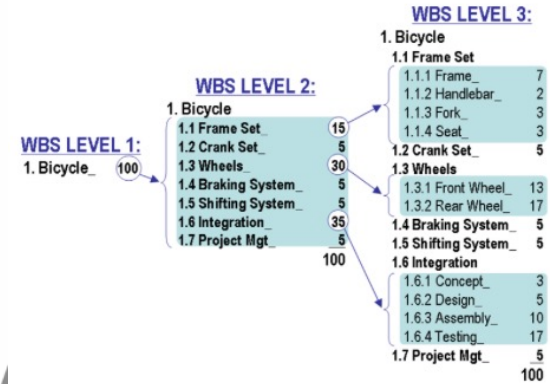
planning

testing

design

develop

deploy

break down features

understand **WHY** for the **WHAT**

agree on **technical solution**

feature

story   story

WBS LEVEL 1:
1. Bicycle_ 100

WBS LEVEL 2:
1. Bicycle
1.1 Frame Set_ 15
1.2 Crank Set_ 5
1.3 Wheels_ 30
1.4 Braking System_ 5
1.5 Shifting System_ 5
1.6 Integration_ 35
1.7 Project Mgt_ 5
                 100

WBS LEVEL 3:
1. Bicycle
1.1 Frame Set
  1.1.1 Frame_ 7
  1.1.2 Handlebar_ 2
  1.1.3 Fork_ 3
  1.1.4 Seat_ 3
1.2 Crank Set_ 5
1.3 Wheels
  1.3.1 Front Wheel_ 13
  1.3.2 Rear Wheel_ 17
1.4 Braking System_ 5
1.5 Shifting System_ 5
1.6 Integration
  1.6.1 Concept_ 3
  1.6.2 Design_ 5
  1.6.3 Assembly_ 10
  1.6.4 Testing_ 17
1.7 Project Mgt_ 5
                 100

cketInnovationStudio.ca
rocketcareer.com/WindsorTech

ROCKET Innovation Studio

21

agile development cycle

1 backlog refinement

2 sprint planning

3 daily stand-ups

4 sprint review

5 sprint retro

three tier/layer architecture

presentation — frontend

logic — backend

data — database

ROCKET
Innovation Studio
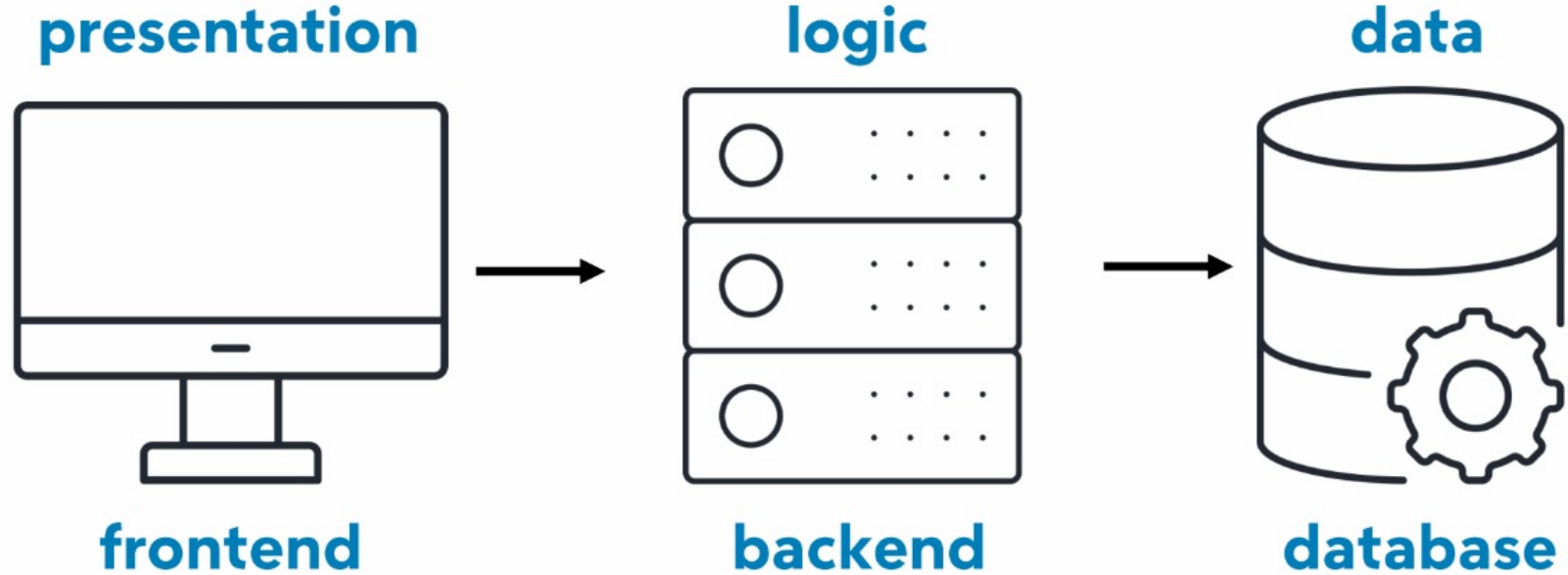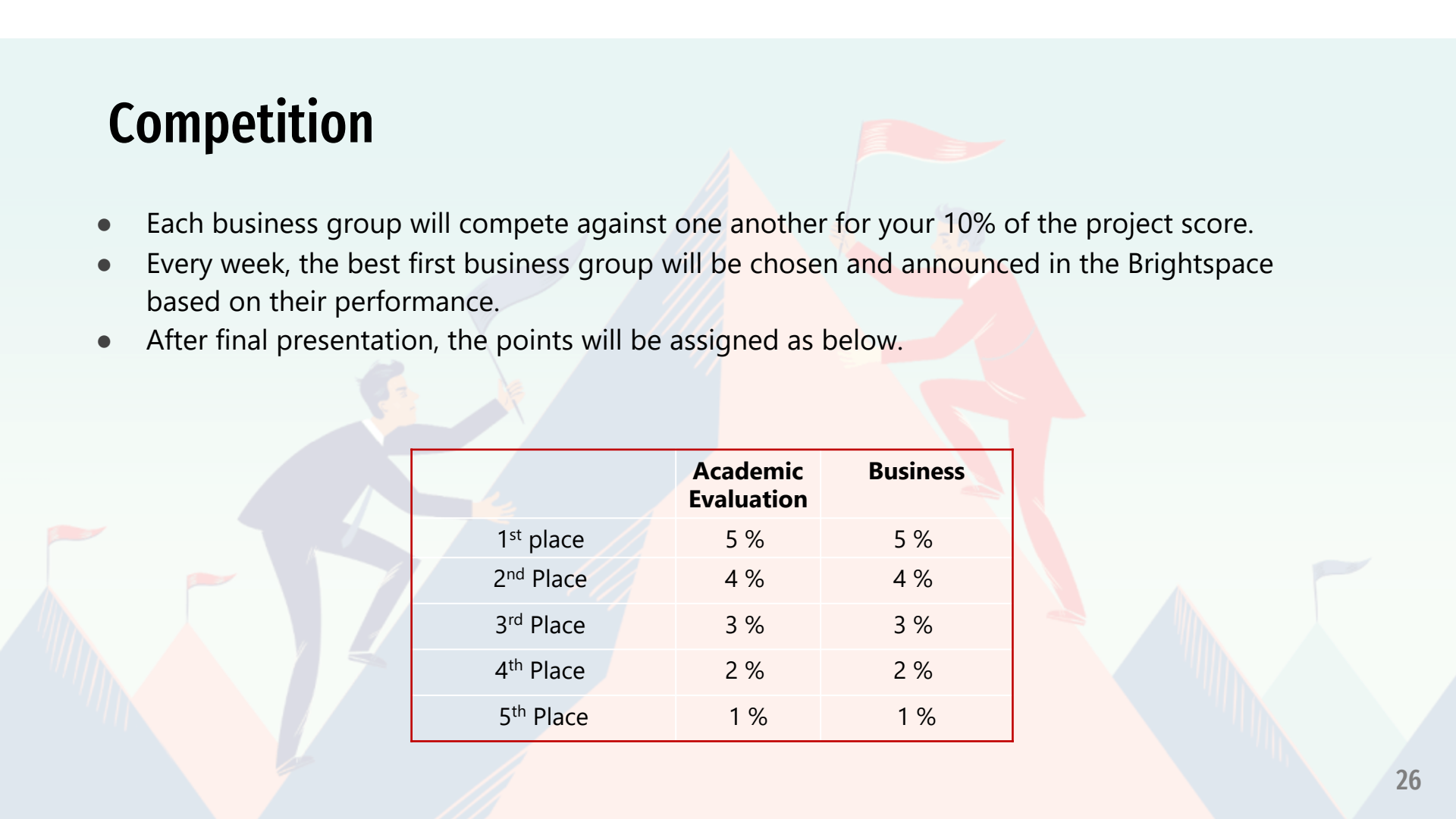
Evaluation Committee

1. Course instructor
2. Course GAs
3. Business partner
4. WEtech Alliance Member

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	P5: Final Project Report with user manual	Dec 1st	10%
	Presentation: Project Pitch for businesses	Nov 24th	10%
	Competition	Sep 8 to Dec 1	**10%**
	Total		**70%**

Competition

- Each business group will compete against one another for your 10% of the project score.
- Every week, the best first business group will be chosen and announced in the Brightspace based on their performance.
- After final presentation, the points will be assigned as below.

	Academic Evaluation	Business
1st place	5 %	5 %
2nd Place	4 %	4 %
3rd Place	3 %	3 %
4th Place	2 %	2 %
5th Place	1 %	1 %

Any Questions?

ICE Breaker

Next Week

- Kickoff Meeting