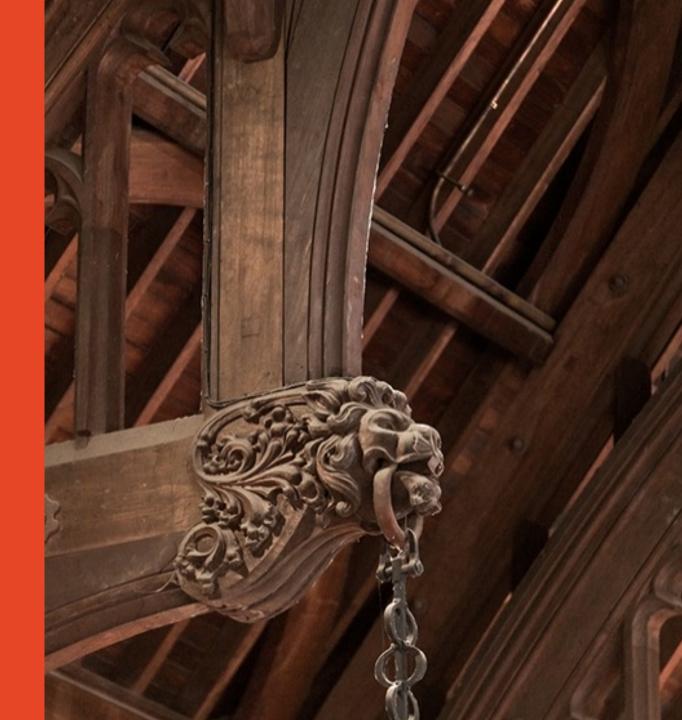
INFO4444 Computing 4 Innovation

Review and Exam Information

Presented by: Dr. Eman Sayed School of Computer Science





Exam Information



Exam Admin Details

Writing Time Duration	120
Materials Permitted	Closed book

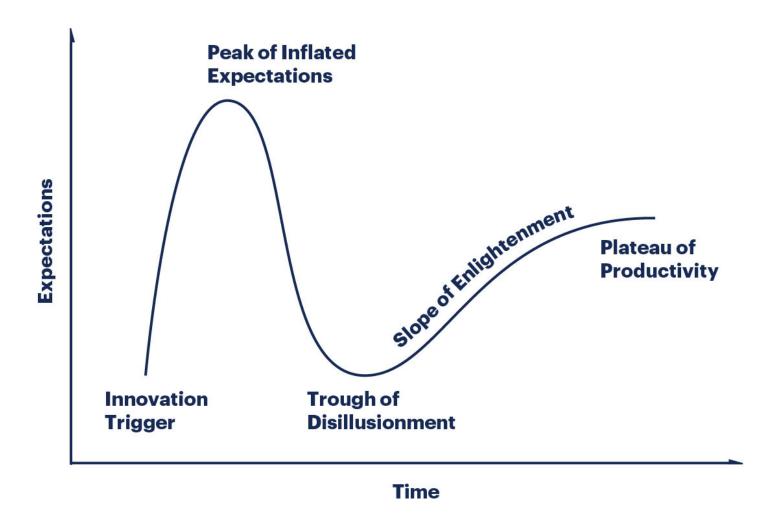
- Answer all questions in the space provided.
- The marks for all questions totals to 100.
- · Be mindful of the time.
- Please read the instructions/ questions carefully.
- Clarity is important.
- When you draw figures, use pens.

Topics

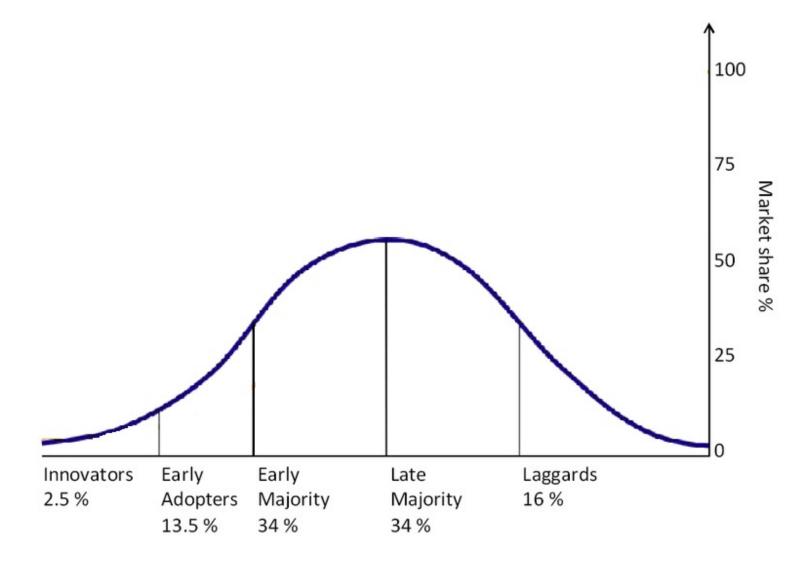
- Consider all the topics and assignments are relevant to the exam
- The listed topics here are especially important for essay type questions
 - i.e. MCQs can be asked outside the
- This is just a guideline (no guarantee of topic exclusions)
 - I can make an error

Topics - W01

- What is innovation?
- What is a high growth firm?
- General Purpose Technology
- Gartner Hype Cycle You should be able to recall (not remember)



- Dynamics of IT Innovation
 - Diffusion
 - Technology Adoption Lifecycle Model
 - Gartner Hype Cycle
- Dominant Design
 - Product Category
 - Design Dominance & The Technology Cycle
 - Factors Leading To Dominant Design



- Disruptive Innovation
 - Disruptive Innovation Model / and types
- Value Chain & Value Network
- Innovator's Dilemma and strategies to address it

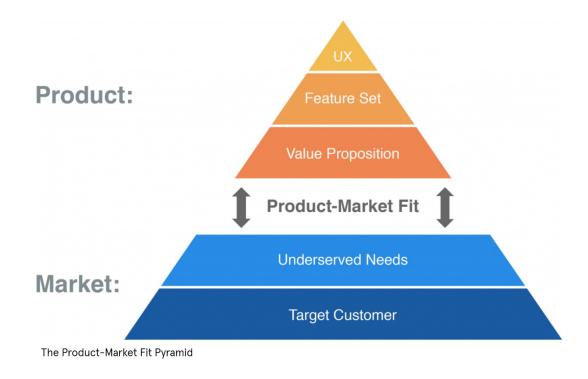
Topics - W04 / W06 / W07

- Open Innovation
 - Why do it and different approaches
- Distributed Innovation
 - Different approaches to distributed innovation
- Intellectual Property Protection

- Four essential freedoms of a Software
 - Run the program, for any purpose (freedom 0)
 - Study how the program works, and change it to make it do what you wish (freedom 1)
 - Redistribute copies of it (freedom 2)
 - Distribute copies of your modified versions to others (freedom 3)

Which of the above freedoms exist in Microsoft office?

- Startup Companies
 - What's the difference?
- Customer/ Agile Development
- The Lean Startup



Where should a start-up company start its process in the lean development? And why?

- Business Model Canvas
- Value Proposition Canvas
- Value Proposition Pyramid

We did an example on this.

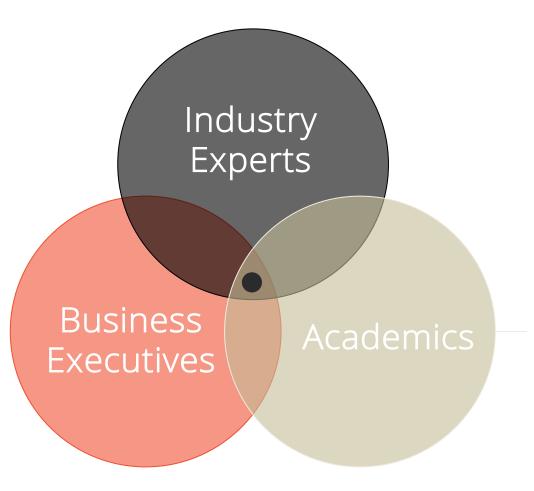
- Why IT innovation need capital?
- Key Players in Capital

- Innovation ecosystems
- Why is Silicon Valley a successful innovation ecosystem?

- Organisational Culture that Supports Innovation
 - What is the difference between traditional thinking?
- Organisational culture for a digital age
- Judging IT Innovations

How Amazon is a **customer-centric** organization?

Judging Panel



How the above three aspects help judge a good IT innovation?