Social issues involve interaction between people
Ethical issues involve a value judgement about right and wrong which comes from a society, government or group
Morals (as distinct from ethics) are a person's own individual value judgements about what is right and wrong
Economic issues are to do with providing enough resources to satisfy humans wants/needs
Environmental issues are to do with the world around us. Most notable this refers to the natural environment

IB Questions:

State one method of network security could be used when transmitting the GPS information [1 mark]

Outline how this GPS information may be used once transmitted to the security system. [2 marks]

There are other situations where people may be required to carry GPS devices
Discuss the ethical implications of insisting people carry GPS devices [6 marks]
They're dangerous criminals so people know what they're doing
If people get lost you can find them
Allows for more freedom compared to being in prison
A lot of data is necessary to collect to find out about a number of prisoners

9/10/18
# Planning and System Installation

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| 1.1.1 Identify the context for which a new system is planned | - Meta-data  
- Meta means information about something surrounding the current thing that we're talking about  
- Context is reasons supporting the idea and what it is surrounding  
- Old system is known as legacy  
- Why do you need to move to a new system?  
- Need to consider why we are doing this | - Context is reasons supporting the idea and the background information  
- Meta - information about something surrounding the current thing that we're talking about  
- Old System is called legacy  
- 'In system management we hire, fire, retrain' - Mr May  

**Powerpoint:**  
- What is the problem that the new system is going to solve?  
- Alternative solutions  
- Staffing: numbers, training  
- Cost  
- Time  
- Compatibility with existing systems  
- Infrastructure requirements, eg existing network  
- Bespoke (custom-made) software versus off-the-shelf  

**In IB Exam**  
Identify 2 things that a company would need to consider when changing from a legacy to a new system. (2 Marks)  
A company would need to consider the time and staffing when changing to a new system.  
If command term is Outline - say what and why (4 marks)  
A company would need to consider the cost when moving to a new system because they might go over budget. |
| 1.2 Describe the need for change management. | - Why do we need change management  
- Over periods of time - client needs change  
- Need to have clients invested in change by explaining how the change will occur  
- Stakeholder of a system - every part of a company  
  e.g. Company that sells product to the public, want to change from old website to new website. Stakeholders are customers, IT people, employees, competitors, investors, | - Client needs change over periods of time  
- Stakeholder of a system is every part of a company  
- Need to know how to manage change to understand surrounding purpose of change  
- Projects need to be successful  

**Powerpoint:**  
- Communication of the need for and benefits of change  
- Users may require training  
- Recruitment may be necessary to bring in suitable skillsets  
- Stakeholder support  
- Planning, milestones, completion date  
- Dependencies between project stages/components  
- Compatibility between old system and new system  

|  |  |  |
1.2.9 Discuss the importance of iteration during the design process.

- Iteration (in case of this slide) - process
- Improvements + new requirements

1.2.10 Explain the possible consequences of failing to involve the end-user in the design process.

- PowerPoint:
  - The end-users are the experts and they know what they need from the system better than anyone
  - If users are not involved in the design process, there is an increased chance that the software will be designed inappropriately
  - If this happens, the client will end up not using the software
  - This means that the development cost will have been wasted
  - There may also be reduced productivity in the client organisation
  - Involving the user requires constant communication in a variety of ways, including surveys, interviews, focus groups, responses to prototypes, etc

1.2.11 Discuss the social and ethical issues associated with the introduction of new IT systems.

- Privacy - how your information about you is used / stored / distributed
- Privacy vs Safety from terrorists?
- Advertising links between websites and ads on them.
- There are websites with socially and ethically wrong content
- Censorship - should the web have its content filtered by government?
- Accessibility of adult content - children can access at younger ages
- Copyright issues - effectively referencing / attributed IP (intellectual property).
- Pirating content - Mass distribution reducing capacity of artists, authors, and moviemakers
- Artificial intelligence - Human rights of AI?
- Hacking - safety issues?