Agenda

- Lecture
 - Risk

CSC301, Winter 2013

Risk Management

Week 7, Slide 1

- 1. Identify the risk factors.
- 2. Determine the risk exposure/probability.
- 3. Develop strategies to mitigate risks.
- 4. Handle risks.

Software Project Risks

- Risk is an uncertain event or condition that, if it occurs, has a positive or negative effect on the project objectives.
- · Risk comes from uncertainty.

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Risk Management

1. Identify the risk factors.

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Top 10 Software Risks

- 1. Personnel shortfalls
- 2. Unrealistic time and cost estimates
- 3. Developing the wrong software functions
- 4. Developing the wrong user interface
- 5. Gold plating
- 6. Late changes to requirements
- 7. Shortfalls of external supplied components
- 8. Shortfalls of externally performed tasks
- 9. Real-time performance shortfalls
- 10. Straining science capabilities

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Risk Management

- 1. Identify the risk factors.
- 2. Determine the risk exposure/probability.
- 3. Develop strategies to mitigate risks.
 - Do this for the N highest risks or with exposure greater than a threshold
 - Avoidance -take precautions
 - · Transfer -consider other solutions
 - · Acceptance -develop contingency plans

Risk Management

- 1. Identify the risk factors.
- 2. Determine the risk exposure.
 - Exposure = p x E
 - p = probability
 - E = effect

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Risk Management

- 1. Identify the risk factors.
- 2. Determine the risk exposure/probability.
- 3. Develop strategies to mitigate risks.
- 4. Handle risks.
 - · Monitor risk factors
 - Re-assess when occasionally

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