

SNS COLLEGE OF ENGINEERING

Kurumbapalayam(Po), Coimbatore - 641 107 Accredited by NAAC-UGC with 'A' Grade Approved by AICTE, Recognized by UGC & Affiliated to Anna University, Chennai

Department of Information Technology

Course Name – IT8075 Software Project Management

IV Year / VII Semester

Unit 1 – Project Evaluation and Project Planning

Topic 8 - Risk Evaluation





Identify the popular Dialogue from the images



3/09/2024

Risk Evaluation / IT8075 SPM / R.sivagami /IT/SNSCE



Identify the term from the below images



3/09/2024

Risk Evaluation / IT8075 SPM / R.sivagami /IT/SNSCE



3/12

rions



Risk Types

Project Risks

Project failure •

Business Risk

Products not profitable •





3/09/2024

Risk Evaluation / IT8075 SPM / R.sivagami / IT/SNSCE



Business Risk

Delivered products are not profitable. ullet

Risk Evaluation

- Risk Identification and ranking
- Risk and net present value
- Cost-benefit analysis
- Risk profile analysis
- Use of decision trees





Risk Identification and Ranking

- Identify risk and quantify effects lacksquare
- Project risk matrix
- List possible risks and classify risks based on importance and likelihood.

Risk	Importance	Likelihood
Client rejects proposed look and feel of site	Н	—
Competitors undercut prices	Н	М
Warehouse unable to deal with increased demand	М	L
Online payment has security problems	M	М
Maintenance costs higher than estimated	L	L
Response times deter purchasers	М	М

TABLE 2.5 A fragment of a basic project/business risk matrix for an e-commerce application

3/09/2024

Risk Evaluation / IT8075 SPM / R.sivagami / IT/SNSCE











Risk and Net Present Value

- Risky Higher discount rate to calculate net present value.
- Categorize projects as High, Medium, Low risk ullet
- Use scoring method \bullet
- Risk premiums designated for each category. \bullet



3/09/2024

Risk Evaluation / IT8075 SPM / R.sivagami / IT/SNSCE



Cost Benefit Analysis

Method

- Consider each possible outcome and
- estimate the probability of its occurring and •
- corresponding value of the outcome.
- Set of cash flow forecast rather than single ${\color{black}\bullet}$



3/09/2024

Risk Evaluation / IT8075 SPM / R.sivagami /IT/SNSCE



TABLE 2.6 BuyRight's income forecasts

Annual sales income (£)	Probability	Expected value (£)
i	р	$i \times p$
800,000	0.1	80,000
650,000	0.6	390.000
100.000	0.3	30.000
		500.000



Value of project

- Summing up cost or benefit for each possible weighted by outcome its corresponding probability.
- Suitable for large projects
- Appropriate for projects where profits is the ulletprimary

3/09/2024







Risk Profile Analysis

- Construct risk profiles lacksquare
- Use sensitivity analysis \bullet
- Change parameters that affect projects cost or benefit ullet
- Can identify factors most important to success •





Using Decision Trees

- Evaluate expected benefit (D)
- Expected Value = Sum of the value of each possible outcome * Probability of occurrence.

Example

- Expected value of Extending the system 75000*0.8 - 100000*0.2 = 40,000
- Expected Value of replacing the system $25000^{*}0.2 - 50000^{*}0.8 = 10,000$
- So extending the existing system will be optimal solution

3/09/2024

Risk Evaluation / IT8075 SPM / R.sivagami /IT/SNSCE







D



THANK YOU

<mark>3</mark>/09/2024

Risk Evaluation / IT8075 SPM / R.sivagami /IT/SNSCE



12/12

TIONS