

# iGenPod

## Classroom Activities

Students Guide

Problem Solving - 2

Fun and easy way to approach a  
problem and solve it





## Activity Duration:

1 hour

## Objective

Students will

- Understand the concept of logically making decisions
- Work with Decision Tree Analysis

## Materials:

- Finding the best solution:  
[https://www.youtube.com/watch?v=AxTp9zW05NE&ab\\_channel=iGenPod](https://www.youtube.com/watch?v=AxTp9zW05NE&ab_channel=iGenPod)
- Hand-out of Finding the best solution – 1 per person
- Pen/ Pencil
- Chart Paper or white board or word doc open on the laptop

## Agenda

- Rating chart: 15 mins
- Risk Analysis: 15 mins
- Decision Tree Analysis: 20 mins
- Revision of the complete problem solving program: 5mins
- Quiz: 5 mins

## Activity Vocabulary

- Rating Charts: A chart where we evaluate between options by giving scores to various parameters and then comparing the scores
- Risk Analysis: Risk analysis is a technique used to identify and assess factors that may jeopardize the success of a project or achieving a goal
- Decision Tree Analysis: The Decision Tree Analysis is a schematic representation of several decisions followed by different chances of the occurrence



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## **Student Notes**



## Activity Day

- Play the video: [https://www.youtube.com/watch?v=AxTp9zW05NE&ab\\_channel=iGenPod](https://www.youtube.com/watch?v=AxTp9zW05NE&ab_channel=iGenPod)
- Story Line:
  - Jahaanja Ship Manufacturing facility specializes in manufacturing export quality merchant ships. It has recently developed substantial backlogs and the firms CEO Gajraj Manjrekar is meeting the King VajraDev and Tenali Aam to discuss the next course of action for the firm.
  - Tenali and Gajraj has come up with the below table which will be helpful in creating a decision tree analysis

Demand	Probability	Course of action		
		S1	S2	S3
Low	0.1	10	-20	-150
Medium	0.5	50	60	20
High	0.4	50	100	200

S1: Subcontracting to the southern friendly kingdom of Samudraya

S2: Overtime of the workers

S3: Construct new manufacturing facility in Supara

Low, medium, high are the future expected demand with their probabilities

- You can use the above information to come up with a decision tree and find the best possible alternative to choose from

## Solution