**ITEC451**

**Activity 1**

**(As a group of two or three team members)**

**When an organization’s problem is solved, the following seven-step model-building procedure should be followed:**

|  |
| --- |
| 1. Formulate the Problem    * Define the problem.    * Specify objectives.    * Determine parts of the organization to be studied. 2. Observe the System    * Determine parameters affecting the problem.    * Collect data to estimate values of the parameters. 3. Formulate a Mathematical Model of the Problem 4. Verify the Model and Use the Model for Prediction    * Does the model yield results for values of decision variables not used to develop the model?    * What eventualities might cause the model to become invalid? 5. Select a Suitable Alternative    * Given a model and a set of alternative solutions, determine which solution best meets the organizations objectives. 6. Present the Results and Conclusion(s) of the Study to the Organization 7. Implement and Evaluate Recommendations |