<table>
<thead>
<tr>
<th>Course No.</th>
<th>Course Title</th>
<th>Theory</th>
<th>Practice</th>
<th>Credit</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stat 261</td>
<td>Operations Research</td>
<td>3</td>
<td>-</td>
<td>3</td>
<td>Stat 110</td>
</tr>
</tbody>
</table>

**Objectives**

Introducing to the science of operations research and its importance and some of the main problems.

**Course Description:**

- The transportation problem: LP formulation, methods of finding initial feasible solution, Testing of optimality and finding the optimal solution.
- The assignment problem: LP formulation, The Hungarian method of solution, The unbalanced AP.
- Inventory models: some deterministic and stochastic models.
- Network analysis: Drawing networks, PERT and CPM methods.

**Main text books :**


Barry Render, Ralph M. Stair, Michael E. Hanna, "Quantitative Analysis for Management", Pearson

**Subsidiary books :**