



Padre Conceição College of Engineering, Verna, Goa

Department of Mechanical Engineering

Content beyond Syllabus / Innovation in Teaching

Course : ME 644 Supply Chain Management
Class : TE Mechanical, Semester VI(Jan to May 2024)
Course Instructor : Ramdas Pandit

The following are the list of innovative teaching methods and content taught that is beyond the scope of the syllabus, during the course of the semester.

1. Advanced topics in Supply chain management such as Supplier Selection using Multicriteria Decision making were taught using Microsoft Excel which led to better understanding of concept.

Solving MCDM problem using TOPSIS Method

Step-1 Calculate Normalised Matrix

$$\bar{X}_{ij} = \frac{X_{ij}}{\sqrt{\sum_{i=1}^n X_{ij}^2}}$$

Step-2 Calculate weighted Normalised Matrix

$$V_{ij} = \bar{X}_{ij} \times W_j$$

Step-3 Calculate the ideal best and ideal worst value

Step-4 Calculate the Euclidean distance from the ideal best

	Non beneficial	beneficial	beneficial	beneficial
weightage	0.35	0.25	0.25	0.15
	Price/cost	Storage Space	Camera	Looks
Mobile 1	250	16	12	5
Mobile 2	200	16	8	3
Mobile 3	300	32	16	4
Mobile 4	275	32	8	4
Mobile 5	225	16	16	2
	Price/cost	Storage Space	Camera	Looks
Mobile 1	0.442807443	0.30151	0.4286	0.597614305
Mobile 2	0.354245954	0.30151	0.2857	0.358568583
Mobile 3	0.531368931	0.60302	0.5714	0.478091444

2. Audio/Video tools were used to explain Supply chain Relationships



