Department: ME | Date: 21st July, 2022

One Day Workshop on 'Application of Multi Criteria Decision Making techniques in Mechanical Engineering'

In many real-world problems, several conflicting criteria need to be optimized simultaneously. Therefore, it is crucial to properly structure and solve the problem with relevant tools for supporting a decision maker. The purpose of the workshop is to provide knowledge and basic concepts, an overview of different methods and tools in solving multiple criteria decision making (MCDM) problems. MCDM methods and tools have been found to be useful in several such applications e.g. health care, education, environment, transportation, business, and production. In this context, Department of Mechanical Engineering conducted One Day Workshop on 'Application of Multi Criteria Decision Making techniques in Mechanical Engineering' in Association with IEI on 21.07.2022.

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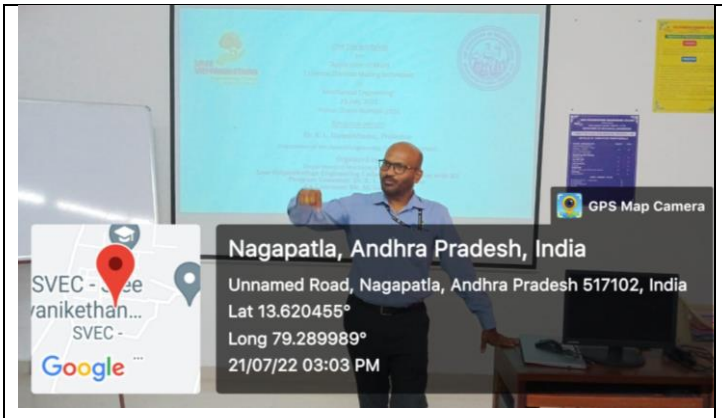
<td> 
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<td>Resource person Dr. K. L. Narasimhamu</td>
<td>IV Year Mechanical Engineering Students</td>
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Resource person Dr. K. L. Narasimhamu explained the concept and importance of 'Multi Criteria Decision Making' (MCDM) and its application in Mechanical Engineering. MCDM approach using 'Grey Relational Analysis' (GRA) was applied to Wire EDM experimental Data. Hands-on session was conducted using spread sheet calculations to find solution using GRA. Around 60 students of final year Mechanical Engineering Students were participated in this program.

Learning Outcomes of the Workshop:

Students

- Acquired the knowledge on basic concepts of Multi Criteria Decision Making (MCDM).
- Understood the Grey Relational Analysis (GRA) methodology.
- Applied GRA for WEDM experimental data.
- Participated in Hands-on session on GRA calculations using Spread sheet.
- Can apply this method in final year projects.

Coordinator	Co-Cordinator	Head of the Department
(Dr. K. L. Narasimhamu)	*(Mr. M. Ganga Raju)*	*(Dr. R. Satya Meher)*