

Faculty Development Program



| Title : Multi-Objective Optimization and Multi- Criteria Decision Making Date : 08-Jan-2024 - 12-Jan-2024 Time : 10:00 - 13:15 | | Discussion Points - Introduction one hr - Optimization Applications in Engineering - MS Excel for Solving Optimization Problems - Global Optimization - Multi-objective Optimization |
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| Venue : SMV110 | | - Multi-Criteria Decision Making - Discussion |
| | Resource Person 1 - DetailsName : G P RangaiahDesignation : Emeritus Professor, Chemical and Biomolecular EngineeribgUniversity/ Company : National University of Singapore, SingaporeAddress : Singapore, 119618. | |
| Resource Person 2 - Details Name : Bandaru Kiran Designation : Assistant Professor Sr. Grade 2, School of Chem Engineering University/ Company : VIT, Vellore Address : India, 632014. | | |
| Resource Person's Profile : | | |
| 1. Profile of G P Rangaiah Education Ph.D. (Chemical Engineering), Monash University MT-1 (Chemical Engineering), MUTE K | | |
| B.Tech. (Chemical Engineering), Andhra University | | |

Prof is listed in a world top two percent Scientist as per Stanford study

2. Profile of Bandaru Kiran

PhD-NUS Singapore M.Tech IIT Chemical Engineering Kharagpur B.Tech Chemical Engineering from JNTU, Hyderabad Optimization finds applications in almost all fields. In fact, we all optimize our daily activities, career, investments, travel etc. using our experience, intelligence, and qualitative assessment. On the other hand, quantitative models and optimization techniques are used in businesses, companies and industries. Commonly available, MS Excel spreadsheet has a built-in tool for optimizing a variety of applications. This comprehensive course begins with the definition of an optimization problem followed by description of several applications and principles of optimization techniques for single objective. Finally, it covers principles, applications, and programs for multi-objective optimization. It also illustrates the use of MS Excel for solving optimization problems. This course will be of interest and use to academic staff and researchers in engineering. Participants should have mathematics background from engineering studies.

MS Excel

Coordinator's: Prof. NIRMALA G S 10193 - Professor Grade 1 - SCHEME Prof. BANDARU KIRAN 15949 - Assistant Professor Sr. Grade 2 -SCHEME