

TEQIP (III) Sponsored

2nd Short Term Training Programme (ONLINE MODE)

On

Multiple Attribute Decision Making and Its Industrial Applications

December 21 - 25, 2020

Coordinators

Dr. Dinesh Singh / Dr. Ravi Kant



Organized by

**Mechanical Engineering Department
Sardar Vallabhbhai National Institute
of Technology (SVNIT)**

(An Institution of National Importance of Govt. of India)

Surat – 395 007

Gujarat, India

About Surat:

Surat, the fourth fastest growing city of Gujarat state in the world, is well known to be a diamond city with golden hearts. It is well known worldwide for textile & diamond industries. Several large scale industries & establishments, such as RIL, L&T, ESSAR, etc. are located in and around Surat. It is situated on the main Western Railway route between Vadodara and Mumbai, at a distance of 129 km from Vadodara and 263 km from Mumbai. Further, daily flights connect Surat with New Delhi and Mumbai. The Institute is located at Ichchanath on Surat-Dumas road at a distance of about 10 Km from Surat railway station and airport.

About the Institute:

The institute was initially established as Sardar Vallabhbhai Regional College of Engineering & Technology in 1961 and elevated as a National Institute of Technology in October, 2002. It has been accorded the status of an Institute of National Importance vide NIT Act 2007. SVNIT is one of the pioneering engineering institutions of the country which has nurtured many outstanding engineers in India & abroad. Institute runs six UG programs, seventeen PG programs, Ph.D. program in all disciplines of engineering and 5 years integrated M.Sc. programme in Chemistry, Mathematics and Physics.

About the Department:

Established in 1961, the Department of Mechanical Engineering offers Under Graduate course in Mechanical Engineering and Post Graduate programs in Turbo-machines, CAD-CAM, Mechanical Engineering, Thermal System Design and Manufacturing Engineering.

The department also offers Ph.D. programmes to promote basic research activities in the above mentioned areas. The consulting services in diverse fields of Mechanical Engineering are also carried out for local government, non-government organizations, private firms etc. in the surrounding region with the support of well-equipped research laboratories and advanced computing facilities.

The Department has an opportunity to play a major role in providing the Engineers with good academic background. Departmental setup encourages students to take up various research assignments.

The department has an excellent placement record with a number of top ranking companies visiting the campus every year.

Our students are proving to be better engineers not only in industries but also in the field of research. The students also carry out their research projects at the leading industries which give them exposures to live industrial problems.

About the training program:

The proposed STTP is an interdisciplinary programme and the main objective of this programme is to cover theoretical and practical approach of decision making arising in real world problems of different fields. The aim of this program is to bring together researchers of different fields and enhance their knowledge in the field of multiple attribute decision making and to prepare the participants in making the wise decisions in complex and conflicting situations.

Course content:

Introduction to Multiple Attribute Decision Making (MADM) and its Importance. Fuzzy concept in MADM, Type II Fuzzy MADM, Intuitionistic fuzzy sets, Neutrosophic Set, Pythagorean fuzzy Set and Orthopair fuzzy Set, Hybrid MADM, Subjective Weighting AHP, ANP, BWM, COPRAS etc, Evaluating Method ISM, DEMATEL etc, Objective Weighting Methods like TOPSIS, VIKOR, MOORA, WASPAS, SWARA etc., Outranking Method like ELECTRE, PROMETHEE, ARAS etc. and their Industrial Applications.

Decision Making in Machining, Sustainable Manufacturing, Sustainable Supply Chain, Lean Six Sigma, Reverse Logistics etc.

Speakers:

Eminent speakers from various prestigious Institutions like IITs, NITs, research organizations.

Registration Fee:

The registration fees for the program shall is **Rs. 600/-** for faculty from academic institutions; **Rs. 300/-** for PG students and full time PhD research scholars and **Rs. 5000/-** for Industry personnel and practicing engineers.

The non-refundable registration fees should be paid only by online transfer in account of:

“Director SVNIT TEQIP IRG”

A/C No: **0277101028663**,

Canara Bank, Nanpura Branch Surat,
IFSC: **CNRB0000277**

The payment receipt will be required to be submitted during the online registration. The confirmation to the selected applicant will be intimated within 2 days after due date.

Eligibility for Participation:

The training program is open to faculty members of various departments of AICTE approved engineering institutes, universities, PG and PhD research scholars and industry personnel.

Last Date of Registration:

Scanned copy of institute ID card along with proof of payment of registration fee must be sent to the given emails for confirmation in the program on or before 16th December, 2020.

Address for Correspondence:

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Coordinators

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