

# Seminar Invitation: Interval Rough Integrated SWARA ELECTRE I Model

Speaker: **Farwa Ilyas** from Department of Mathematics, University of the Punjab, Lahore

## Abstract

In this talk, I will present an innovative MCDM methodology that integrates interval rough numbers, Step-wise Weight Assessment Ratio Analysis (SWARA), and the ELECTRE I method (named IRN SWARA ELECTRE I Model). Three kinds of interval rough concordance and discordance sets are defined to build the proposed strategy. The criteria weights are computed by employing an effective and simplified technique of interval rough SWARA having the ability to deal with preference ratings in the form of IRNs. Finally, the applicability of the proposed methodology will be demonstrated by solving a case study related to the assessment of machine tool remanufacturing models and a comparative analysis will be conducted to elaborate on the authenticity, rationality, out-performance, and efficacy of findings.

## Speakers' Brief Introduction

Ms. Farwa Ilyas is a Ph.D. scholar working under the supervision of Prof. Dr. Muhammad Akram.



## Departmental Seminar Series

The Seminar Series serves as a platform to showcase and celebrate the remarkable work carried out by our researchers, scholars, and experts. It provides an avenue for knowledge dissemination, and collaboration, creating an environment that nurtures innovative ideas and drives groundbreaking research. We proudly acknowledge and celebrate the remarkable contribution of Prof. Dr. Muhammad Sharif in introducing this seminar series back in 2005. The Seminar Series encompasses a wide range of topics, spanning various disciplines, ensuring that it caters to the diverse interests and expertise of our institute's community. Through these seminars, we aim to cultivate an environment of intellectual curiosity, stimulating meaningful discussions, and promoting interdisciplinary collaborations.

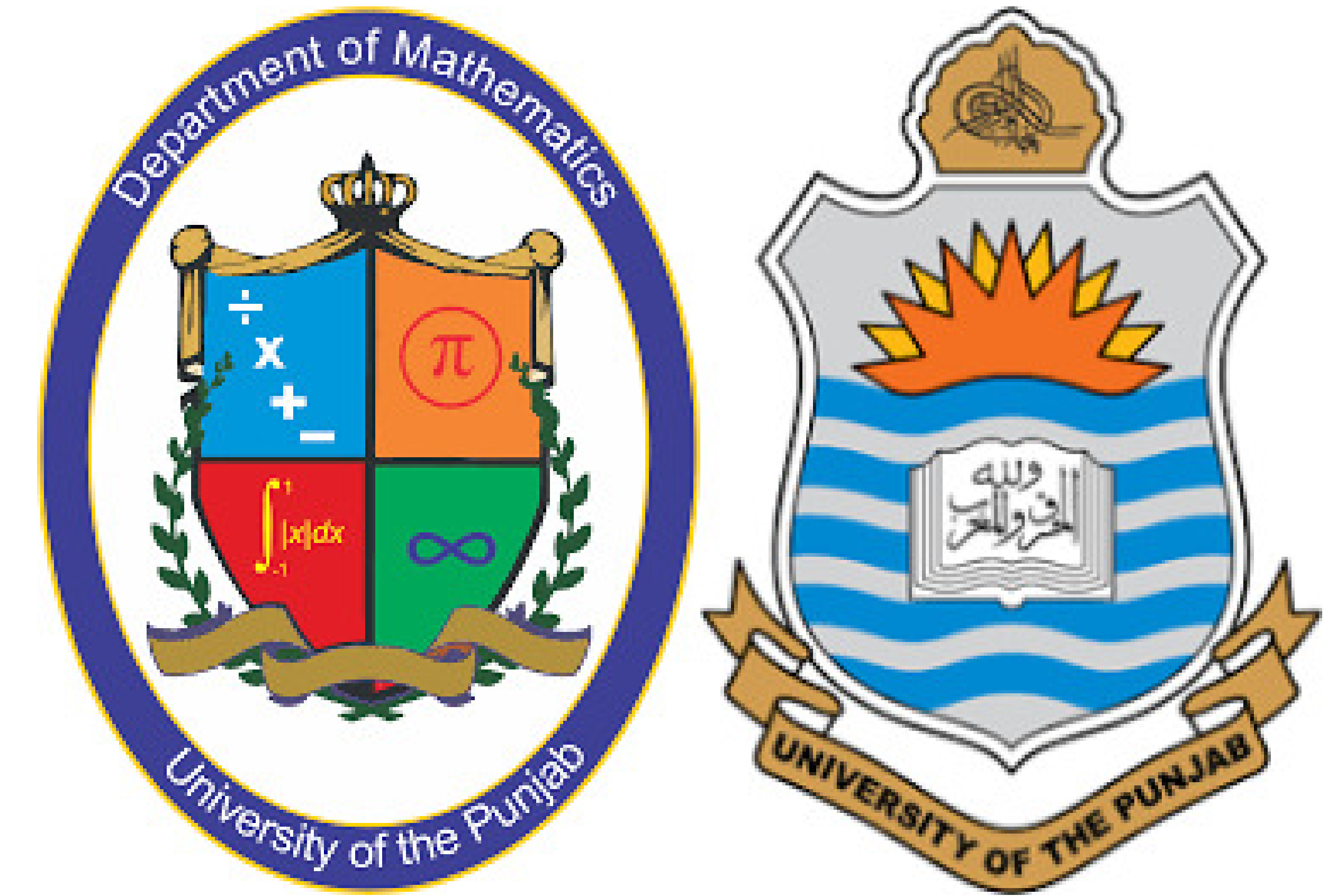


## Please join us for this Presentation

**When:** Wednesday 18 October 2023; **Time:** 03:00PM-03:30PM

**Where:** Computer Lab, Department of Mathematics, University of the Punjab, Lahore

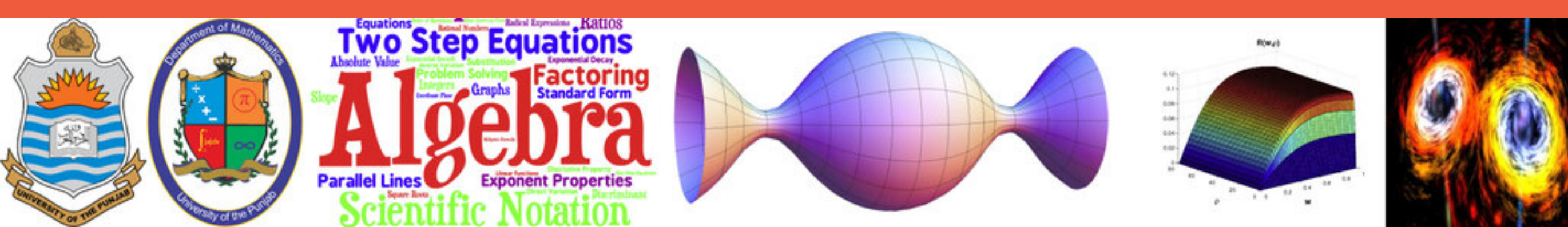
## Chairman Message



It is my honor to witness the passion and dedication that our faculty and students bring to the study of this beautiful discipline. I encourage our faculty members to create a supportive environment that nurtures and promotes mathematical research. I urge each and every one of you, regardless of your level of experience, to actively participate in mathematical research and contribute to the growth of our research community. It is our collective responsibility to create an ecosystem that encourages and facilitates research pursuits.

## Coordinator Departmental Seminar Series

**Dr. Zeeshan Yousaf**  
Associate Professor  
Department of Mathematics, University of the Punjab,  
Lahore



All the faculty members and research scholars (MPhil/PhD) are invited to the seminar

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