

## Date & Time

23<sup>rd</sup> November 2018, Friday @ 3.15 pm

## Venue

**Al-Farabi Seminar Room, Second Floor,  
INSPEM**

## Presenter

**Dr. Md. Anowar Hossain**

Visiting Scientist

Laboratory of Ethnomathematics & Didactics



## Topic

**Integration of Mathematical Creativity in Teaching and  
Learning Mathematics**

## Abstract

This research study aimed at identifying students' mathematical performance based on their mathematical creativity, group learning strategy and Islamic belief in selected secondary school in Natore, Bangladesh. The purpose of this study was to determine mathematical performance, the dependent variable from a linear relationship of the independent variables such as mathematical creativity, group learning and Islamic belief. The participants of this study were the students of secondary mathematics classrooms. The researcher administered correlation and multiple linear regression methods, and SEM path model to obtain the objectives. Data were collected using mathematical creativity test, group learning questionnaire, Islamic belief questionnaire and mathematical performance test. To analyze the data, the statistical analysis such correlation and regression were performed using SPSS software while path analysis was employed using STATA software. It was found that the integration of mathematical creativity, group learning and Islamic belief were effective in the development of students' performance in mathematics.

Keywords: Mathematical creativity, group learning, Islamic belief, mathematical, performance, structural equation modeling.