

Model Building, Mathematization and Sense Making

Course Code: SCE207.2

Instructors: Dr. Mashood K. K., Dr. Shweta Naik and Dr. Deepa Chari

Credits: 2

Course Outcome:

Sr. No.	On completing the course students will be able to
CO 1	Understand the centrality of mathematization and model building to the practise of science.
CO 2	Develop familiarity with issues pertaining to modelling based approaches in science education and their epistemological underpinnings.
CO 3	Develop familiarity with the literature on mathematical sense making and mathematization.
CO 4	Introduction to computational thinking and simulation as a modelling approach.
CO 5	Develop familiarity with a spectrum of mathematical modelling tasks from formal word problems to “Fermi problems”