Introduction to Science, Technology and Mathematics Education (STME) Research

Instructors: Shubhangi Bhide, Aniket Sule

Credits: 2
Duration: 13 weeks, with one contact session of 2 h per week
Schedule: Starting August 10, 2016, every Wednesday 11:30 - 13:30 hrs

Summary:
The reading course introduces participants to examples of STME research literature related to the five themes given below. The objective is to provide opportunity for study of acknowledged writings in the area and facilitate understanding about the needs, motivations, issues and contexts in STME research. There will be two sessions per theme. In the first session, participants will collectively share responsibility of leading group discussions through different parts of a research publication. The second session for each theme will include individual presentations by participants, giving overview and highlights, on a research publication selected by them from the readings list. Participants will also write and submit a critical summary on the research presented by them within two days of the presentation.

(Further details and any queries regarding the two sessions will be explained at the first meeting for this course).

Assessment:
Students will be assessed based on their (i) participation in / leading group discussions (40 %), (ii) presentations (40 %) and (iii) written summaries (20 %). Scores of (i) and (ii) above will comprise of self-, peer- and instructor assessments.

Introductory session
Themes and Reading list

I. Education and Society


II. Out-of-school and connections to the real world


### III. Teacher Education


### IV. Student Conceptions


V. Classroom interaction and assessment


