The present study focused on developing higher order thinking skills and entrepreneurial attitude among the undergraduate biotechnology students through intervention module based on the Science-Technology-Society (STS) approach. Non randomized, pre-test post-test design was used for the study. The main objectives were (1) To develop (a) Instructional module in Biotechnology based on Science-Technology-Society approach, (b) Higher Order Thinking Skills Tool (HOTS Evaluation Test in Biotechnology), (c) Entrepreneurial Attitude Orientation Scale, (2) To analyze the effect of instructional treatments on higher order thinking skills and entrepreneurial attitude of students. The research was carried out on a randomly selected college out of the colleges situated in Chandigarh region on B.Sc. Biotechnology students. Statistical techniques like mean, median, standard deviation and t-test was used to analyze the data. The findings of study revealed a significant improvement in higher order thinking skills and entrepreneurial attitude of the students due to STS approach. The study is expected to give implications for developing lesson plans and classroom instruction in context to social relevance which will help in improving the thinking skills and the entrepreneurial attitude of the undergraduate science students which is of paramount importance in today’s competitive world.

Name of Investigator: Kiranjeet Kaur

Name of supervisor: Prof. Latika Sharma, Chairperson, Department of Education, Panjab University, Chandigarh.