



**DEPARTMENT OF EDUCATION (CASE, IASE & IUCTE)  
FACULTY OF EDUCATION AND PSYCHOLOGY  
THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA  
VADODARA**

**Certificate**

This is to certify that the research work contained in this thesis titled, '**Development of an Educational Programme on Data Analysis Techniques for M.Ed. Students through Cooperative Learning**' being submitted by **Ms. Sonia Rohilla** to The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India for the degree of Doctor of Philosophy in Education, is a record of bonafide original research work conducted by her under my supervision and guidance. The results embodied in the same have not been submitted elsewhere for the award of any degree or diploma. It is further stated that the doctoral research work was conducted fulfilling the requisite attendance criteria as per O.Ph.D.03/07 of The Maharaja Sayajirao University of Baroda, Vadodara, Gujarat, India. I find it fit for submission and evaluation.

Date: 25<sup>th</sup> May, 2020  
Place: New Delhi

**Prof. D. R. Goel**  
Guide