Certificate

This is to certify that **Mr. Rajesh V. Savalia** (Reg no. 1803, Certificate no. 419, dated 20/04/2012) has worked under my guidance for his Ph.D. Thesis work in the subject of Mathematics on the topic entitled

"A SYSTEM OF p-POLYNOMIALS AND ITS q-ANALOGUE"

and has put in research for the requisite number of terms as required by the University. This thesis is being submitted herewith for the award of degree of

Doctor of Philosophy
in
Mathematics

and, to the best of my knowledge, no part of this thesis has been submitted by him to any other University or Institution for the same or any other degree.

Dr. B. I. Dave
(Guide)
Professor
Department of Mathematics
Faculty of Science
The M. S. University of Baroda
Vadodara 390-002

Forwarded through:

Head
Department of Mathematics

Dean
Faculty of Science

Vadodara,
June 2019

Certificate

This is informed to all concerned that the following publication have arisen out of the research work carried out by my Ph.D. student Mr. Rajesh V. Savalia who wishes to submit the thesis entitled "A SYSTEM OF p-POLYNOMIALS AND ITS q-ANALOGUE" to the Department of Mathematics, Faculty of Science, The Maharaja Sayajirao University of Baroda, Vadodara for the award of Ph.D. degree in Mathematics.

1. Rajesh V. Savalia and B. I. Dave, *p-Deformation of a general class of polynomials and its properties*, J. Indian Math. Soc., vol.85(1-2), p.226-240(2018).
   DOI: https://doi.org/10.18311/jims/2018/17945.
   (MR#3745236, UGC approved journal no. 11064)

2. Rajesh V. Savalia, *A p-deformed q-inverse pair and associated polynomials including Askey scheme*, Commun.Korean Math. Soc., 2019 Vol. 34, No. 4, 1175-1199.
   DOI: https://doi.org/10.4134/CKMS.c180421.
   (UGC approved journal no. 16272)

3. Rajesh V. Savalia and B. I. Dave, *A general inversion pair and p-deformation of Askey scheme*, J. Indian Math. Soc., Vol. 86, Nos.(3-4)(2019), p.296-314.
   DOI: https://doi.org/10.18311/jims/2019/22515.
   (UGC approved journal no. 11064)
   All these Journals are indexed in MathSciNet, zbMATH formerly Zentralblatt MATH and Scopus.

<div align="right">

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June 2019