

## Faculty Profile



### **Dr. Vijay Kumar Vyas**

Faculty Member, Faculty of Science and Technology

**Qualification:** M. Phil., Ph.D. (Jai Narain Vyas University, Jodhpur)

**Current Area of Interest:** Special Function and Integral Transform

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### **TEACHING EXPERIENCE**

1. Currently working in The ICFAI University, Jaipur as Asst. Professor of Mathematics from August, 2013.
2. Worked in Shri Pushtikar Mahila Mahavidhyalaya, Jodhpur as Asst. Professor of Mathematics from August 2012 to July 2013.
3. Worked in Vyas Institute of Engineering & Technology, Jodhpur as Asst. Prof. of Mathematics from September 2009 to July 2012.
4. Worked in Marwar Diploma College Jodhpur as Assistant Professor of Mathematics, from August 2008 to September 2009.

### **RESEARCH PUBLICATIONS**

1. On applications of q-fractional calculus operators and transformations involving generalized basic hypergeometric functions, *Bull. Pure and Appl. Math.* 4(1),125-132. (2010), (With R.K.Yadav and S.D.Purohit).
2. On applications of q-laplace transforms to a basic analogue of the I-function. *Rev. Bull. Calcutta Math. Soc.* (In Press) (With R.K.Yadav and S.D.Purohit).
3. On fractional q-calculus operators involving the generalized basic hypergeometric function of two variables, *J. Raj. Acad. Phy. Sci.* 9(2) 103-112, (2010), (With R.K.Yadav and S.D.Purohit).
4. On transformations involving generalized basic hypergeometric function of two variables. *Rev. Tec. Ing. Univ. Zulia*, 33(2), 176-182 (2010). (With R.K.Yadav and S.D.Purohit).

5. Certain Fractional  $q$ -Integral Formulas for the Generalized Basic Hypergeometric Functions of Two Variables. *J. of Ineq. and Spe. Fun.* 1(1), 30-38 (2010). (With R.K.Yadav, S.D.Purohit and S. L. Kalla).
6. Bilinear generating relations for a family of  $q$ -polynomials and generalized basic hypergeometric functions. *acta et commentationes universitatis tartuensis de mathematica*, 16(2), 191-199, (2012). (With R.K.Yadav and S.D.Purohit).
7. On fractional calculus of a basic analogue of the I-function. *Proceedings of the 10th & 11th Annual Confs. SSFA*, 10-11, 2011-12, pp.21—29(With R.K.Yadav and S.D.Purohit).