## Paper No: PU-SOE- Mathematics - 8

## **Bilateral Generating Function for Genralized Hypergeometric Function**

- N. Srimannarayana<sup>1</sup>, M.Radha Madhavi<sup>1</sup>, M.V.Chakradhara Rao<sup>2</sup>, N.S.Krishnamurthy<sup>3</sup>, B. Satyanarayana<sup>4</sup>
- 1. Department of Mathematics Konerulakshmaiah Education Foundation Vaddeswaram, A.P, India
- 2. Department of Mathematics Presidency University Bangalore, India
- 3. Indo-French Center for Groundwater Research (IFCGR), National Geophysical Research Institute, Uppal Road, Hyderabad, 500007, Andhra Pradesh, India
- 4. Department of Mathematics Acharya Nagarjuna University Nagarjuna Nagar-522 510, A.P, India

## Abstract

In the theory of special functions, bilateral generating relations plays a vital role. In the present investigation, it is to obtain a bilateral generating relation of a Generalized Hypergeometric function with Cesaro polynomial. Later some of the applications of it as special cases.

## **Keywords:**

Generating functions, Group-Theoretic Method, Hypergeometric Polynomials, Mathematics Subject Classification **Publication Details:** 

| <b>Journal Name</b>     | Vol.  | Month & Year | Page No. | Publisher | Scimago Ranking |
|-------------------------|-------|--------------|----------|-----------|-----------------|
| Jour of Adv Research in | 12(2) | NA           | NA       | JARDCS    | Q3              |
| Dynamical & Control     |       |              |          |           |                 |
| Systems                 |       |              |          |           |                 |