

**CURRICULUM VITAE**  
**(Updated on 18/04/2013)**

of

**Dr. J. C. Prajapati**  
(M.Sc.; M.Phil.; Ph.D.)



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**20. Details of Research and Development activities:**

- 1) Life Membership of professional body : 14 (ANNEXURE-I, Page-8)
- 2) Association with journals' Editorial board : 20 (ANNEXURE-II, Page-9 to 10)
- 3) Publications (peer reviewed Journals) : 32 (ANNEXURE-III, Page-11 to 14)
- 4) Publications (Conference Proceedings) : 4 (ANNEXURE-IV, Page-15)
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- 8) Seminars/Conferences/Workshops attended : 19 (ANNEXURE-VII, Page-19 to 20)
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- 12) Details of Ph.D. Thesis on-going : 3 (ANNEXURE-XI, Page-24)
- 13) Books review : 3 (ANNEXURE-XIII, Page-25)

- 1. Name in full** : **Dr. JYOTINDRA C. PRAJAPATI**
- 2. Father's Name** : Chandrasinh M. Prajapati
- 3. Gender** : Male
- 4. Marital Status** : Married
- 5. Nationality and Religion** : Indian and Hindu
- 6. Date and Place of Birth** : **18/01/1972**, Baroda
- 7. Date of joining of current Institution** : **18/12/2000**
- 8. Present designation and Employment** : Associate Professor and Head,  
Department of Mathematical Sciences,  
Faculty of Applied Sciences,  
Charotar University of Science and  
Technology, Changa  
Anand -388421, Gujarat  
INDIA
- 9. Residential/Corresponding Address** : A/6, Gayatri Duplex,  
B/H Avsar party plot,  
Sama-Savli road,  
Baroda-390024,  
Gujarat, INDIA
- 10. Contact numbers** (Mobile) : +91 9898598933  
(O): (02697) 247500  
(Fax): (02697) 247100
- 11. E-Mails** : jyotindra18@rediffmail.com;  
jyotindraprajapati.maths@charusat.ac.in
- 12. Area of specialization** : Special functions, Integral Transforms,  
Fractional calculus.
- 13. Teaching experience** : 14 Years
- 14. Research experience** : 4 Years  
(after Ph.D. degree)

## 15. Details of Educational qualifications:

<b>Degree</b>	<b>University</b>	<b>Year</b>	<b>Class</b>
<b>Ph. D. (Mathematics)</b>	The Sardar Vallabhbhai National Institute of Technology (NIT), Surat.	July, 2008	—
<b>M. Phil.(Mathematics)</b>	The Sardar Patel University, V.V. Nagar.	July, 1997	First
<b>M. Sc.(Mathematics)</b>	The Maharaja Sayajirao University of Baroda, Vadodara.	April, 1995	First
<b>B.Sc.(Mathematics)</b>	The Maharaja Sayajirao University of Baroda, Vadodara.	May, 1993	Second
<b>B.Sc. (Statistics)</b>	The Maharaja Sayajirao University of Baroda, Vadodara.	May, 1992	Second

## 16. Details of Employments:

- (1) Working as **Associate Prof. & Head**, Department of Mathematical Sciences, Faculty of Applied Sciences, Charotar University of Science and Technology, Changa since 1<sup>st</sup> January 2011.
- (2) Worked as **Associate Prof. & Head**, Department of Mathematics, Faculty of Technology and Engineering, Charotar University of Science and Technology, Changa since 1<sup>st</sup> January 2010 to 31<sup>st</sup> December 2010.
- (3) Worked as **Assistant Prof. & Head**, Department of Mathematics, Faculty of Technology and Engineering, Education Campus, Changa/Charotar University of Science and Technology, since 1<sup>st</sup> April 2008 to 31<sup>st</sup> December 2009.
- (4) Worked as **Lecturer (senior scale) & Head**, Department of Mathematics, Charotar Institute of Technology, Education Campus, Changa since 1<sup>st</sup> August 2004 to 31<sup>st</sup> March 2008.
- (5) Worked as **Lecturer & Head**, Department of Mathematics, Charotar Institute of Technology, Education Campus, Changa since 18<sup>th</sup> December 2000 to 31<sup>st</sup> July 2004.
- (6) Worked as **Temporary Lecturer** in Department of Applied Mathematics, Faculty of Technology & Engineering, The M. S. University of Baroda from 17<sup>th</sup> July 2000 to 16<sup>th</sup> December 2000 (One complete semester).
- (7) Worked as **Temporary Lecturer** in Department of Mathematics, Faculty of Science, The M. S. University of Baroda from 16<sup>th</sup> July 1998 to 22<sup>nd</sup> May 1999 & 18<sup>th</sup> July 1999 to 25<sup>th</sup> June 2000.

## 17. Administrative Services

- 1) **Head**, Department of Mathematical Sciences, Faculty of Applied Sciences, Charotar University of Science and Technology, since 1<sup>st</sup> January 2011.
- 2) **Head**, Department of Mathematics, Charotar Institute of Technology, Changa/Charotar University of Science and Technology, since 16<sup>th</sup> April 2001 to 31<sup>st</sup> December 2010.
- 3) **Chairman**, Board of Studies (Mathematical Sciences), Charotar University of Science and Technology (CHARUSAT) since May 2009.
- 4) **Convener**, research paper review committee, Faculty of Technology and Engineering, CHARUSAT, since April 2009.
- 5) **Coordinator**, F. Y. B. Tech., Faculty of Technology and Engineering, CHARUSAT, since August 2009 to December 2010.
- 6) **Convener**, Time-Table committee (F.Y.B.E./B. Tech.) since 1<sup>st</sup> January 2002 except the period of July 2005 to July 2008.
- 7) Performed the duty of **senior supervisor** several times at Charotar Institute of Technology, Changa, for the B.E. level examinations of Gujarat University.
- 8) Performed the duty of **Paper-Setter and Examiner** several times at **MSU, GU, DDIT, GTU, SPU and CHARUSAT** for **B.Sc., M. Sc., B.E., M.E., MCA, B. Pharm, B. Tech.**
- 9) **Councilor** of 15 students of Charotar Institute of Technology, Education Campus, Changa since 31<sup>st</sup> July 2001 to 25<sup>th</sup> July 2005.
- 10) **Member**, Degree distribution committee, 1<sup>st</sup> convocation of CHARUSAT dated 18/01/2012 and successfully completed the task as per guideline of Management.
- 11) **Member**, GUJCET Mock test committee-Baroda, March 2011 and successfully performs duty as per guide of Registrar.
- 12) Taught Mathematics at **B.Sc., M. Sc., B.E., M.E., MCA, B. Pharm, B. Tech, Ph.D. (Course work)**

## 18. Self SW analysis:

**Strengths:** Dedicated, Innovative, Honest, Polite, Sincere.

**Weaknesses:** Hasty, Occasionally short tempered.

## 19. Title of Thesis:

- 1) **M. Phil.:** “Pseudo regularity in Commutative Banach algebras”
- 2) **Ph.D.:** “Generalization of Mittag-Leffler function and its Applications”

## 20. Details of Research and Development activities:

- 1) Life Membership of professional body : 14 (ANNEXURE-I, Page-8)
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## **ANNEXURE-I**

### **LIFE MEMBERSHIP OF PROFESSIONAL BODY**

- 1) Indian Society for Technical Education (**ISTE/ LM 40845/2003**)
- 2) Indian Mathematical Society (**IMS/ P 06 118/2006**)
- 3) Society of Special functions and their Applications (**SSFA/ LM /910/2006**)
- 4) Gujarat Ganit Mandal (**GGM/LM / 1821/2010**)
- 5) Indian Science Congress Association (**ISCA/ L 18921/2011**)
- 6) Indian Society for History of Mathematics (**ISHM/ LM / 252/2012**)
- 7) Ramanujan Mathematical Society (**RMS/ LM /770/2012**)
- 8) Calcutta Mathematical Society (**CMS/ LM /9668/2012**)
- 9) Indian Society of Industrial and Applied Mathematics (**ISIAM/ LM/P 32/2012**)
- 10) Indian Society of Mathematics and Mathematical Sciences (**ISMAMS/LM/319/2012**)
- 11) The Association of Mathematics Teachers of India (**AMTI/ LM /6677/2012**)
- 12) Allahabad Mathematical Society (**AIIMS/ AM/ 12/11** )
- 13) Global Technocrats & Intellectual's Association (**GTIA/ LM /114** )
- 14) Indian Society for Mathematical Modelling & Computer Simulation ( **TBA** )



## ANNEXURE-II

### ASSOCIATION WITH JOURNALS' EDITORIAL BOARD

#### **Editor-in-Chief**

[1] “*International Journal of Special Functions and Applications (IJSFA)*”, Mind Reader Publications, India.

#### **Regional Editor**

[2] “*Journal of Applied Sciences*” (eISSN: 1812-5662; pISSN: 1812-5654), Science Alert, New York, USA.

[3] “*Trends in Applied Sciences Research*” (eISSN: 2151-7908; pISSN: 1819-3579), Science Alert, New York, USA.

[4] “*Asian Journal of Scientific Research*” (eISSN: 2077-2076; pISSN: 1992-1454), Science Alert, New York, USA.

[5] “*Asian Journal of Mathematics & Statistics*” (eISSN: 2077-2068; pISSN: 1994-5418), Science Alert, New York, USA.

[6] “*Singapore Journal of Scientific Research*” (eISSN: 2010-0051; pISSN: 2010-006X), Science Alert, New York, USA.

#### **Associate Editor**

[7] “*World Research Journal of Computation Theory*” (pISSN: TBA, eISSN: TBA), BioInfo Publications.

[8] “*International Journal of Mathematical Research*” (pISSN: TBA, eISSN: 2306-2223)

#### **Advisory Board Member**

[9] “*International Journal of Statistika and Matematika*” (pISSN: 2277-2790; eISSN: 2249-8605), Statperson Publishing Corporation, INDIA.

#### **Editorial Board Member**

[10] “*Advances in Pure Mathematics*” (pISSN: 2160-0368, eISSN: 2160-0384), Scientific Research publishing, 5005 Paseo Segovia, CA 92603-3334, USA.

[11] “*Mathematical Journal of Interdisciplinary Sciences*” (pISSN: 2278-9561, eISSN: 2278-957X), Chitkara University

[12] “*International Journal of Mathematical Engineering and Science*” (eISSN Online: 2277-6982).

- [13] “*International Journal of Physical, Chemical and Mathematical Sciences*” (pISSN : 2278-683X).
- [14] “*J P Journal of Mathematical Sciences*” (pISSN: 2248-9851), Ishaan publishing house.
- [15] “*Theoretical Mathematics & Applications*” (pISSN: 1792-9687, eISSN: 1792-9709) Scienpress Ltd, U.K.
- [16] “*International Journal of Mathematics and Statistics*” International Academy of Science, Engineering and Technology (IASET's Global Research Forum)
- [17] “*ARNP Journal of Science and Technology*” (ISSN: 2225-7217)
- [18] “*American Journal of Applied Mathematics and Statistics*” (pISSN: TBA, eISSN: TBA), Science and Education Publishing.
- [19] “*Journal of Pure and Applied Mathematics: Advances and Applications*” (ISSN: 0974-9381), Scientific Advances Publishers.
- [20] “*Open Journal of Mathematical Modeling*”, Sicknow Group, USA.

## ANNEXURE-III

### PUBLICATIONS (peer reviewed Journals)

#### 2007

- [1] “*On a generalization of Mittag-Leffler function and its properties*”, **Journal of Mathematical Analysis and Application** (ISSN 0022-247X), **336** (2007), 797–811, Elsevier, U.S.A. (with A. K. Shukla).
- [2] “*Some properties of a class of polynomials suggested by Mittal*”, **Proyecciones Journal of Mathematics** (ISSN 0716-0917), **26** (2) (2007), 145-156, SciELO group, Latin America (with A. K. Shukla).
- [3] “*Generalization of a class of polynomials*”, **Demonstratio Mathematica** (ISSN 0420-1213), **40** (4) (2007), 819-826, Poland (with A. K. Shukla).
- [4] “*Some integral transforms of general class of polynomials*”, **Acta Ciencia Indica-an international journal** (ISSN 0970-0455), **XXXIII M.** (4) (2007), 1779-1783, India (with A. K. Shukla).

#### 2008

- [5] “*A general class of polynomials associated with generalized Mittag-Leffler function*”, **Integral Transforms and Special Functions** (ISSN 1065-2469), **19** (1) (2008), 23-34, Taylor and Francis, U.K. (with A. K. Shukla).
- [6] “*Bilateral generating relation for a sequence of functions*”, **International Journal of Mathematical Analysis** (ISSN 1312-8876), **2** (8) (2008), 383 - 389, Bulgaria (with A. K. Shukla).
- [7] “*On a generalized Mittag-Leffler type function and generated integral operator*”, **Mathematical Sciences Research Journal** (ISSN 1537-5978), **12** (12) (2008), 283-290, U.S.A. (with A. K. Shukla).

#### 2009

- [8] “*Some remarks on generalized Mittag-Leffler function*”, **Proyecciones Journal of Mathematics** (ISSN 0716-0917), **28** (1) (2009), 27-34, SciELO group, Latin America (with A. K. Shukla).
- [9] “*On Laguerre Transform in two Variables*”, **Integral Transforms and Special Functions** (ISSN 1065-2469), **20** (6) (2009), 459-470, Taylor and Francis, U.K. (with A. K. Shukla and I. A. Salehbhai).
- [10] “*On a set of polynomials suggested by the family of Konhauser polynomials*”, **International Journal of Mathematical Analysis** (ISSN 1312-8876), **3** (13) (2009), 637-643, Bulgaria (with A. K. Shukla and I. A. Salehbhai).

- [11] “On a recurrence relation of generalized Mittag-Leffler function”, **Surveys in Mathematics and its Applications** (ISSN 1843-7265), **4** (2009), 133-138, **Romania** (with A. K. Shukla).
- [12] “Characteristics of Laguerre polynomials as functions”, **Mathematics Today** (ISSN 0976-3228), **25** (2009), 13-18, **India**.

## 2010

- [13] “On Laguerre type polynomials”, **International Journal of Contemporary Mathematical Sciences**, **5** (32) (2010), 1599 – 1608 (ISSN 1312-7586), **Bulgaria** (with A. K. Shukla and A. D. Patel).
- [14] “A note on Boas-Buck theory for  $m$ -variable”, **Mathematical Sciences Research Journal** (ISSN 1537-5978), **14** (10) (2010), 221-229, **U.S.A.** (with A. K. Shukla and S. K. Meher).
- [15] “A Note on General Class of polynomials  $A_{qn}^{(\alpha,\beta,\gamma,\delta)}(x;a,k,s)$ ”, **Acta Ciencia Indica-an international journal** (ISSN 0970-0455), **XXXVI M. (1)** (2010), 99-110 **India** (with A. K. Shukla and S. K. Meher).
- [16] “Applications of Statistical techniques to study employee satisfaction: A quality Management aspect of academic HRM”, **Journal of Management and Research** (All India Management Association) (ISSN 0974 – 9497), **4** (1) (2010), 1-11, **India** (with Vyomesh Nandurbarkar and Pranav Deasi).
- [17] “On Cauchy type functional equations”, **Mathematics Today** (ISSN 0976-3228), **26** (Dec-2010), 68-71, **India**.

## 2011

- [18] “Certain Generalized Properties of Hermite Polynomials”, **Mathematics Today** (ISSN 0976-3228), **27** (June-2011), 36-41, **India** (with N. K. Ajudia).
- [19] “On a new sequence of functions defined by a generalized Rodrigues formula”, **PRAJÑĀ - Journal of Pure and Applied Sciences**, (ISSN 0975-2595), **19** (2011), 47-49, **India** (N. K. Ajudia and A. K. Shukla).
- [20] “On new Prajapati-Shukla functions and polynomials” **Mathematics Today** (ISSN 0976-3228), **28** (2011), 24-39, **India** (with A. K. Shukla).

## 2012

- [21] “*Decomposition of generalized Mittag-Leffler function and its properties*”, **Advances in Pure Mathematics** (ISSN Print: 2160-0368, ISSN Online: 2160-0384), **2** (1) (2012), 8-14, **Scientific Research**, CA 92603-3334, U.S.A. (with A. K. Shukla).
- [22] “*A remarkable survey on the Mittag-Leffler function and Applications*”, **International Journal of Mathematical Engineering and Science** (ISSN 2277-6982), **1** (2) 2012, 38-56 (with A. K. Shukla).
- [23] “*Fractional Calculus approach in the study of instability phenomenon in Fluid Dynamics*”, Palestine **Journal of Mathematics** (ISSN 2219-5688), **1**(2) (2012), 97–105, **Palestine** (with A. K. Shukla, A. D. Patel and K. N. Pathak).
- [24] “*On New Sequence of Functions and Their MATLAB Computation*”, **International Journal of Physical, Chemical & Mathematical Sciences** (ISSN 2278-683X), **1** (2) (2012), 24-34, **India** (with N. K. Ajudia)
- [25] “*Calculus War between Newton and Leibniz*”, **Arya Bhatta Journal of Mathematics and Informatics** (ISSN 0975-7139), **4** (2) (2012), 175-184 **India** (with Nita Shah).

## 2013

- [26] “*On a Unification of Generalized Mittag-Leffler Function and Family of Bessel Functions*”, **Advances in Pure Mathematics** (ISSN Print: 2160-0368, ISSN Online: 2160-0384), **3** (1) (2013), 127-137, **Scientific Research**, CA 92603-3334, U.S.A. (with Bhadresh I. Dave and Bharti Nathwani).
- [27] “*On sequence of functions*”, **Communication in Korean Mathematical Society** (ISSN 1225-1763), **28** (1) (2013), 123-134, **Korea** (with A. K. Shukla and I. A. Salehbbhai)
- [28] “*Some properties of Generalized Hypergeometric Function*”, **Communications of the Korean Mathematical Society** (ISSN Print: 1225-1763, ISSN Online: 2234-3024), **28** (2) (2013), article in press, **Korea** (with Ajay Kumar Shukla, S. B. Rao, Amit D. Patel).
- [29] “*Recurrence relation of a unified generalized Mittag-Leffler function*”, Palestine **Journal of Mathematics** (ISSN 2219-5688), article in press, **Palestine** (with B. V. Nathwani)
- [30] “*Some Results on Generalized Mittag-Leffler Function Operator*”, **Journal of Inequalities and Applications** (ISSN Online: 1029-242X), **33** (2013), 1-6, **Springer** (R. K. Jana, R. K. Saxena and A. K. Shukla).

- [31] “*Generalized Hypergeometric Function and its Properties*”, **Advances in Pure Mathematics** (ISSN Print: 2160-0368, ISSN Online: 2160-0384), **3** (3) (2013), to be appear, **Scientific Research**, CA 92603-3334, **U.S.A.** (with Snehal Rao and Ajay Shukla).
- [32] “*Certain features of the Mittag-Leffler function with argument  $x^\alpha$* ”, **Italian Journal of Pure and Applied Mathematics**, to be appear (ISSN 2239-0227), **30** (2013), **Italy**

## ANNEXURE-IV

### PUBLICATIONS (Conference Proceedings)

#### 2006

- [1] “*Generalization of a class of Polynomials and its connection with Mittag-Leffler function*”, **Proceedings of Seventh International Conference of Society for Special Functions & Applications (SSFA)**, 7 (2006), 121-129, Pune, **India** (with A. K. Shukla)

#### 2007

- [2] “*Some explicit representations and integral transforms of general class of polynomials*”. **Proceedings of Eighth International Conference of Society for Special Function & Applications (SSFA)**, 8 (2007), 213-219, Pala, Kerala, **India** (with A. K. Shukla)

#### 2009

- [3] “*Some applications of Hermite’s formula*” **Proceedings of National Women’s Conference on Exploring potentialities of women in Engineering**, (2009), 302-312, Changa, **India** (with Bharti Nathwani and B. I. Dave)
- [4] “*Certain properties of generalized Bessel polynomials*” **Proceedings of National Women’s Conference on Exploring potentialities of women in Engineering**, (2009), 313-321, Changa, **India** (with Reshma Shah and B. I. Dave)

## ANNEXURE-V

### BOOK PUBLISHED/CUSTOMIZED

1. “*Engineering Mathematics-IV* (as per GTU syllabus)”, Pearson Education, a division of DORLING KINDERSLEY PVT. LTD, **U.K./India**, © 2010, ISBN: 978-81-317-3257-1
2. “*THOMAS’ CALCULUS*”, Pearson Education, **U.K./India**, © 2010, ISBN: 978-81-317-5603-4
3. “*The Mittag-Leffler function: Generalization and Applications*”, LAP-Lambert Academic Publishing, **Germany**, © 2010, ISBN: 978-3-8383-9976-8
4. “*Engineering Mathematics-IV*” (2<sup>nd</sup> edition as per GTU syllabus), Pearson Education, **U.K./India** © 2011, ISBN: 978-81-317-5875-5
5. “*THOMAS’ CALCULUS*”, 2<sup>nd</sup> Edition, Pearson Education, **U.K./India**, © 2011, ISBN: 978-81-317-6591-3
6. “*Applied Mathematics-I*” (as per first semester syllabus of Mumbai University), Pearson Education, **U.K./India** © 2012, ISBN: 978-81-317-6617-0
7. “*Engineering Mathematics-I*” (as per first semester syllabus of Shivaji University), Pearson Education, **U.K./India** © 2012, ISBN: 978-81-317-6654-5
8. “*Engineering Mathematics-II*” (as per first semester syllabus of Pune University), Pearson Education, **U.K./India** © 2012, ISBN: 978-81-317-7306-2
9. “*Engineering Mathematics-II*” (as per first semester syllabus of Uttranchal Technological University), Pearson Education, **U.K./India** © 2012, ISBN: 978-81-317-7305-5

### **Book Chapter:**

10. “*Pseudo Regularity in Commutative Banach Algebras*”, *Advances in Mathematics Research*, Volume 18, NOVA SCIENCE PUBLISHERS, INC. 400 Oser Avenue, Suite 1600 Hauppauge, NY 11788-3619, **USA** © 2012, ISBN: 978-1-62417-931-0



## ANNEXURE-VI

### PAPERS PRESENTED IN SEMINARS/CONFERENCES

- [1] “*Generalization of instability phenomenon in fluid flow through porous media with mean capillary pressure by using Special functions*” **National Seminar on Partial differential equations and Scientific Computing** at Department of Mathematics, South Gujarat University, Surat, **India**, during January 23-25, **2006**
- [2] “*Generalization of a class of polynomial and its connection with Mittag-Leffler function*”, **Seventh International Conference of Society for Special Functions & Applications** at Department of Mathematics, Pune University, Pune, **India**, during February 21-23, **2006**
- [3] “*Note on a class of polynomials*”. **National Seminar on Mathematics** at Department of Mathematics, Faculty of Science, the M.S. University of Baroda, Vadodara, **India**, during March 3-4, **2006**
- [4] “*On general class of polynomial and its integral transforms*”, **Centenary year of the Indian Mathematical Society (IMS, 1907-2007), 73<sup>rd</sup> Annual Conference** at Department of Mathematics, University of Pune, Pune, **India**, during December 27-30, **2007**
- [5] “*Applications of statistical Techniques to study employee Satisfaction: A quality management aspect of Academic HRM*”, **National Conference on Advanced Statistical Data Analysis of Business Intelligence** at Department of Business Administration, Kalasalingam University, Tamil Nadu, **India**, during November 4-5, **2009**
- [6] “*Integral transforms of general class of polynomials*”, **Conference on Special Functions and their Applications & Symposium on Computational and Biological Mathematics**, at School of Mathematics & Allied Sciences, Jiwaji University, Gwalior, **India** during June 21-23, **2010**
- [7-8] “*Remarks on some relationships between the Bernoulli and Euler polynomials*” **and** “*Extended hypergeometric and confluent hypergeometric functions*”, **76<sup>th</sup> annual conference of Indian Mathematical Society**, at Department of Applied Mathematics and Humanities, National Institute of Technology, Surat, **India**, during 27-31 December, **2010**
- [9] “*Generalization of Sequence of functions*”, **National Conference on Mathematics Meet**, at Department of Mathematics, Gujarat University, Ahmedabad, **India**, during February 3-5, **2011**

## ANNEXURE-VII

### INVITED TALK IN SEMINAR/CONFERENCE/STTP/SDP

- [1] “A *fractional Calculus approach in study of Generalized Mittag Leffler Function*” **Centenary year of the Indian Mathematical Society (IMS, 1907-2007), 73<sup>rd</sup> Annual Conference**, at Department of Mathematics, University of **Pune**, during December 27-30, **2007**
- [2] “*On new sequence of Functions*”, **Conference on Special Functions and their Applications & Symposium on Computational and Biological Mathematics**, at School of Mathematics & Allied Sciences, Jiwaji University, **Gwalior**, during June 21-23, **2010**.
- [3] “*Some problems of Analysis*”, **Staff development programme**, at L. J. Institute of Engineering & Technology, **Ahmedabad**, during June 21-July 2, **2010**
- [4] “*Cauchy Functional Equations*” **47<sup>th</sup> annual Conference** of Gujarat Ganit Mandal, at Multi purpose high school, Udwada, **Valsad**, during October 21-23, **2010**
- [5] “*A note on certain operational representations for the Laguerre polynomials*” **76<sup>th</sup> annual conference of Indian Mathematical Society**, at Department of Applied Mathematics and Humanities, National Institute of Technology, **Surat**, during December 27-31, **2010**
- [6] “*Unification of a generalized Mittag-Leffler function and certain hypergeometric function and its properties*” **International Conference on Special Functions and their Applications (ICSFA-2011) & Symposium on “Life and Works of Ramanujan”**, at Department of Mathematics and Statistics, J. N. Vyas University, **Jodhpur**, during July 28-30, **2011**
- [7] “*On Mittag-Leffler type functions*” **14<sup>th</sup> International Conference of International Academy of Physical Sciences (CONIAPS-XIV)** at National Institute of Technology, **Surat**, during December 22-24, **2011**
- [8] “*Some problems of Mathematics*”, **NATIONAL SEMINAR Advances in Mathematics: Historical Developments & Engineering Applications (NSAM-2012)** at Department of Mathematics, Institute Computer & Communication Technology (ICCT), **New Vallabh Vidyanagar** during January 9-11, **2012**
- [9] “*Laplace Transforms of some well-known Special Functions*” **International Conference on Special Functions and their Applications (ICSFA-2012) & Symposium on “Life and Works of Ramanujan”** at National Institute of Technology, **Surat**, during June 27-29, **2012**
- [10] “*On Complex numbers*”, Academic Staff college, V. V. Nagar on March 12, **2013**

## ANNEXURE-VIII

### SEMINARS/CONFERENCES/WORKSHOPS/ ATTENDED

#### SEMINARS

1. **Seminar** organized by Department of Mathematics “*in honors of Prof M. H. Vasavada*”, The S. P. University, V.V. Nagar during September 14-15, **1996**.
2. **Symposium** on “*Employing Technologies for Rural Upliftment*” organized by ISTE chapter, education campus Changa on December 5, **2004**
3. **National Seminar** on “*Partial differential equations and Scientific Computing*” organized by Department of Mathematics, South Gujarat University, Surat, during January 23-25, **2006**
4. **National Seminar** on “*Mathematics*” organized by Department of Mathematics, Faculty of Science, The M. S. University of Baroda, Vadodara during March 3-4, **2006**
5. **Research Meet 2011** on “*Mathematics*” organized by Department of Applied Mathematics, Faculty of technology, The M. S. University of Baroda, Vadodara on January 23, **2011**
6. **National Seminar** on “*Advances in Mathematics: Historical Developments & Engineering Applications (NSAM-2012)*” organized by at Department of Mathematics, Institute Computer & Communication Technology (ICCT), New Vallabh Vidyanagar during 9-11 January, **2012**

#### CONFERENCES (National/International)

1. **37<sup>th</sup> annual Conference** of *Gujarat Ganit Mandal* at V. S. Patel College Bilimora during October 21-23, **2000**
2. **International conference on Current Trend in Industrial and Applied Mathematics** organized by Department of Mathematics, Faculty of Technology and Engineering, The M.S. University of Baroda, Vadodara, during January 16-18, **2007**
3. **International Conference of Society for Special Function and their Applications** organized by Department of Mathematics, Pune University, Pune during February 21-23, **2006**
4. **73<sup>rd</sup> Annual Conference of Indian Mathematical Society** organized by Department of Mathematics, Pune University, Pune during December 27-30, **2007**
5. **Conference on Special Functions and their Applications & Symposium on Computational and Biological Mathematics**, organized by School of Mathematics & Allied Sciences, Jiwaji University, Gwalior & Society for Special Functions and Applications, during June 21-23, **2010**

6. **76<sup>th</sup> annual conference of Indian Mathematical Society** organized by Department of Applied Mathematics and Humanities, National Institute of Technology, Surat during December 27-30, **2010**
7. **International Conference on Special Functions and their Applications (ICSFA-2011) & Symposium on “Life and Works of Ramanujan”** (X<sup>th</sup> Annual Conference of SSFA) organized by Department of Mathematics and Statistics, J. N. Vyas University, Jodhpur, during 28-30 July, **2011**
8. **14<sup>th</sup> International Conference of International Academy of Physical Sciences (CONIAPS-XIV)** National Institute of Technology, Surat, during 22-24 December, **2011**
9. **International Conference on Special Functions and their Applications (ICSFA-2012) & Symposium on “Life and Works of Ramanujan”** (XI<sup>th</sup> Annual Conference of SSFA) organized by Department of Applied Mathematics and Humanities, National Institute of Technology, Surat, during 27-29 June, **2012**
10. **27<sup>th</sup> Conference of Gujarat Science Congress, Charotar University of Science and Technology, Changa** on 24<sup>th</sup> February, **2013**

### **WORKSHOPS**

1. **Workshop** on “*Development Through Self-Awareness*” organized by Charotar Institute of Technology, Changa during December 22-24, **2003**
2. **NATIONAL INSTRUCTIONAL WORKSHOP** on “Industrial Mathematics” organized by Department of Applied Mathematics, Faculty of technology, M S University of Baroda and Industrial mathematics group IIT Bombay during December 1-7, **2003**
3. **Workshop** on “Geometry, Gravity and Cosmology” organized by Department of Mathematics, S.P. University, V.V. Nagar during February 16-18, **2006**

## ANNEXURE-IX

### ORIENTATION /REFRESHER COURSES / QIP ATTENDED (Short Term Training Programme-STTP/ Staff Development Programme-SDP )

1. **AICTE – ISTE, STTP** on “*Discrete Mathematical Structures*” organized by Department of Mathematics and computer application MANIT, Bhopal during June 7-18, **2004**
2. **QIP-STTP** on “*Fourier Transform, Wavelet Transform & Applications*” organized by Department of Mathematics, IIT Madras, Chennai during December 13-24, **2004**
3. **ISTE-TEQIP STTP** on “*Application orientation in Engineering Mathematics and Mathematical Modeling*” organized by Department of Mathematics, SVNIT Surat, during December 26-30, 2006
4. **ISTE-TEQIP STTP** on “*Computational Fluid Dynamics: Basics & Applications*” organized by Department of Mechanical Engineering, SVNIT Surat, during July 7-11, **2008**
5. **AICTE SDP** on “*Applications of Mathematical Sciences & Soft Computing*”, Department of Mathematics, SVNIT Surat, during December 8-12, **2008**
6. **AICTE SDP** on “*Mathematical Modeling and Simulation*” Department of Mathematics, SVNIT Surat, during December 21-25, **2009**

## ANNEXURE-X

- 1) Successfully performed the task of **judge** in the National Women's Conference on "Exploring Potentialities of Women in Engineering (EPWIE-2009)" during July 3-4, 2009
- 2) Successfully performed the task of **session chair** in the **International Conference on Special Functions and their Applications (ICSFA-2012) & Symposium on "Life and Works of Ramanujan"** (XI<sup>th</sup> Annual Conference of SSFA) organized by Department of Applied Mathematics and Humanities, National Institute of Technology, Surat, during 27-29 June, **2012**
- 3) Successfully performed the job of **Coordinator, Academic (Plenary and Invited lectures)** in the **International Conference on Special Functions and their Applications (ICSFA-2012) & Symposium on "Life and Works of Ramanujan"** (XI<sup>th</sup> Annual Conference of SSFA) organized by Department of Applied Mathematics and Humanities, National Institute of Technology, Surat, during 27-29 June, **2012**

## ANNEXURE-XI

### OUTSTANDING ACHIEVEMENTS

1. The MATLAB company created program of the function  $E_{\alpha,\beta}^{\gamma,q}(z)$  which was introduced by me and cited the research paper “*On a generalization of Mittag-Leffler function and its properties*”, **Journal of Mathematical Analysis and Application**, **336** (2007), 797–811, Elsevier, U.S.A. as reference.
2. Integral Transforms and Special Functions, Taylor and Francis, selected only 7 free access online articles out of 12 issues of year 2008, research paper “*A general class of polynomials associated with generalized Mittag- Leffler function*”, **Integral Transforms and Special Functions**, **19** (1) (2008), 23-34, Taylor and Francis, U.K., selected as one of the free access online article of 2008.
3. Taylor and Francis have permitted to downloading all journals related to Mathematics and Statistics. The worth value of total journals (since 1<sup>st</sup> volume to December 2010) @ INR 15 cores. To access and download rights of these journals were valid up to 09/01/2010 to 31/01/2010
4. Successfully completed Half Techno-Marathon race (21 km) which was organized by Association of International Marathon and Distance Races (AIMS, New York, NY 10019 USA) on January 23<sup>rd</sup>, 2011 in Vadodara. Total 27,009 participants registered from all over 124 countries. RFID tagging Technology used first time in the history of Marathon race is the remarkable thing of this Half Techno-Marathon. The participants selected on the basis of medical check up and a physical fitness certified by “Baroda Heart Institute and Research Centre”

## ANNEXURE-XII

### DETAILS OF Ph.D. THESIS ON-GOING

- 1) **Name:** Naresh Ajudia,  
**Current designation and Employment:** Assistant Professor, Department of Mathematical Sciences, Charotar University of Science and Technology, Changa.  
**Registration in University:** Charotar University of Science and Technology, Changa.  
**Area:** Special Functions  
**Topic:** On family of Konhauser polynomials
  
- 2) **Name:** Bharti Nathwani,  
**Current designation and Employment:** Assistant Professor, Department of Mathematics, Sardar Vallabhbhai Institute of Technology, Vasad.  
**Registration in University:** The Maharaja Sayajirao University of Baroda, Vadodara.  
**Area:** Special Functions  
**Topic:** On Mittag-Leffler function and its q- Analogue
  
- 3) **Name:** Bhailalbai Patel,  
**Current designation and Employment:** Assistant Professor, Department of Mathematics, N. V. Patel Science college, V. V. Nagar.  
**Registration in University:** Charotar University of Science and Technology, Changa.  
**Area:** Special Functions  
**Topic:** On error and its related functions.



## ANNEXURE-XIII

### BOOKS REVIEW

1. B. S. Grewal: “*Higher Engineering Mathematics*”, 40<sup>th</sup> /41<sup>st</sup> /42<sup>nd</sup> edition, Khanna publishers, Delhi.
  2. B. S. Grewal: “*Engineering Mathematics*”, 12<sup>th</sup> /13<sup>th</sup> /14<sup>th</sup> edition, Khanna publishers, Delhi.
  3. G. C. Patel *et al*: “*Higher Engineering Mathematics*” 2<sup>nd</sup> edition, Atul prakashan, Ahmedabad, Gujarat.
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