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Qualification: M.Sc.(Math.), Ph.D. (UK) (Math.)

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Affiliation : Sardar Patel University

Summary of Scholastic and Research Activities:

- I am a faculty member in the Post Graduate Department of Mathematics since 1998 and serving as a Professor at present.
- I received the **Commonwealth Scholarship** for Ph. D. Programme for three years (1994-1997)
- I received the **Commonwealth Academic Staff Fellowship** for 6 months(Oct-2005 to Mar-2006)
- I received the **London Mathematical Society Visiting Fellowship** for 3 months (Apr to June, 2006)
 - I guided four Ph. D. students and guiding two Ph.D. students.
- I attended 12th International Conference on "Banach Algebras and Related Topics", 17th to 28th July, 1995, Newcastle-upon-Tyne, UK.
- I attended and delivered an invited lecture in 13th International Conference on 'Banach Algebras and Related Topics', 20th July to 3rd August, 1997, Heinrich Fabri Institute, Blaubeuren, GERMANY.
- I attended and delivered an invited lecture in 19th International Conference on ?Banach Algebras and Related Topics, 14th to 24th July 2009, Steffan Banach International Center for Mathematics, Bedlewo, POLAND.
- I attended EPSRC-DST Scoping Meeting in Applied Mathematics, Edinburgh University, Edinburgh, UK, 11th to 13th July 2012.

Five Keywords Reflecting Areas of Scholastic/Research Activities:

Harmonic analysis, Regular Banach algebras, Unique uniform and C^* -norms, Weighted group algebras, Financial Mathematics

Five Recent Publications:

1. Weighted convolution algebras on subsemigroups of the real line, (with H. G. Dales), *Dissertationes Mathematicae*, Institute of Mathematics, Polish Academy of Sciences, Volume 459, 2009.
2. Multipliers of weighted semigroups and associated Beurling Banach algebras, (S J Bhatt, and P A Dabhi), *Proc. Indian Acad. Sci. (Math. Sci.)*, 121(4)(2011)417-433.
3. A non-unital $*$ -algebra has UC^*NP iff its unitization has UC^*NP , (with H. J. Kanani), *Proc. American Math. Soc.*, 141(11)(2013) 3905-3909.
4. Option Pricing Formulas for Modified Log-payoff Function, (with S. J. Ghevariya), *International Journal of Mathematics and Soft Computing*, 3(2)(2013) 129-140.
5. Fractal Dimensional Analysis in Financial Time Series, (with S. J. Bhatt and Vipul R. Shah), *International Journal of Financial Management*, 5(2)(2015) 57-62.

Scholarships and Fellowships

1. **October, 1991 – May, 1994:** National Board for Higher Mathematics Scholarship, for Ph.D. study, Department of Atomic Energy, Bombay, INDIA.
2. **October, 1994 – December, 1997:** Commonwealth Scholarship, for Ph.D. study, Association of Commonwealth Universities, London, UK.
3. **March, 1998 – September, 1998:** Visiting Scientist Fellowship, for Post Doctorate, Indian Statistical Institute, New Delhi, INDIA.
4. **October, 2005 – March, 2006:** Commonwealth Academic Staff Fellowship, for Research, Association of Commonwealth Universities, London, UK.
5. **April, 2006 – May, 2006:** London Mathematical Society Short Visit Fellowship, for Research, London, UK.
6. **June, 2006 – 10th July, 2006:** Leeds University Fellowship for Research, University of Leeds, Leeds, UK

BIO DATA

Personal Details

- Name** : Prof. Hareshkumar Vallabhbhai Dedania
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Near Central School, Nana Bazar,
VALLABH VIDYANAGAR – 388 120.
(Dist. – Anand, Gujarat)

Educational Qualifications

1. **B. Sc.**, June, 1986 – May, 1989
Mathematics [74.12%], Bahaudin Science College, Junagadh. (INDIA)
2. **M. Sc.**, July, 1989 – June, 1991
Pure Mathematics [80.75%], Saurashtra University, Rajkot. (INDIA)
3. **Ph. D. (Incomplete)**, October, 1991 – June, 1994
Sardar Patel University, Vallabh Vidyanagar. (INDIA)
Thesis Title: Banach algebras with unique uniform norm
(Discontinued when I won Commonwealth Scholarship for Ph.D. study in UK)
4. **Ph. D.**, October, 1994 - January, 1998
University of Leeds, Leeds. (UK)
Thesis Title: Weighted discrete semigroup algebras

Employments

1. **July, 1994 – September, 1994:** Lecturer in Mathematics, Gujarat University, Ahmedabad. (INDIA)
2. **October, 1997 – December, 1997:** Tutor, University of Leeds, Leeds. (UK)
3. **September, 1998 – December, 2003:** Lecturer in Mathematics, Sardar Patel University, Vallabh Vidyanagar. (INDIA)
4. **January, 2004 – December 2009:** Reader in Mathematics, Sardar Patel University, Vallabh Vidyanagar. (INDIA)
5. **January, 2010 – Present:** Professor of Mathematics, Sardar Patel University, Vallabh Vidyanagar. (INDIA)

Scholarships and Fellowships

1. **October, 1991 – May, 1994:** National Board for Higher Mathematics Scholarship, for Ph.D. study, Department of Atomic Energy, Bombay, INDIA.
2. **October, 1994 – December, 1997:** Commonwealth Scholarship, for Ph.D. study, Association of Commonwealth Universities, London, UK.
3. **March, 1998 – September, 1998:** Visiting Scientist Fellowship, for Post Doctorate, Indian Statistical Institute, New Delhi, INDIA.
4. **October, 2005 – March, 2006:** Commonwealth Academic Staff Fellowship, for Research, Association of Commonwealth Universities, London, UK.
5. **April, 2006 – May, 2006:** London Mathematical Society Short Visit Fellowship, for Research, London, UK.
6. **June, 2006 – 10th July, 2006:** Leeds University Fellowship for Research, University of Leeds, Leeds, UK

Ph.D., M.Phil., and M.Sc. Students

(A) **Ph.D. students:** I was recognized as a P. G. Teacher for Ph.D. degree on 28th February 2003.

1. **18-10-2008,** J. H. Shah, Vector-valued Weighted Discrete Semigroup Algebras, Part-time.
2. **14-09-2010,** P. A. Dabhi, Uniqueness Properties in Banach Algebras, Part-time, Jointly with Prof. S. J. Bhatt.
3. **21-11-2014,** S. J. Ghevariya, Contributions to Mathematical Aspects of Finance, Part-time. (Reg. 4756; Date: 18-11-2008)
4. **Continue,** Hiten J. Kanani, Contribution to the Spectral Properties in Banach Algebras, Part-time. (Reg.-38; Date: 20-10-2010)
5. **Continue,** Milan K. Kansagara, Functional Analytic Aspect and Spectral Properties of Algebras of Vector-Valued Functions, Part-time. (Reg.-215; Date: 22-10-2010)
6. **Continue,** Vipul R. Shah, Contribution to Mathematical Finance related with Derivatives, Part-time. (Reg. 484; Date: 22-10-2010)

(B) **M.Phil. students:** I was recognized as a P. G. Teacher for M. Phil. degree on 28th February 2001.

1. **2004,** Prakash D. Patel, Applications of Complex Analysis in Banach Algebras.
2. **2005,** Kinnari A. Sutaria, Various Proofs of the Fundamental Theorem of Algebra.
3. **5-1-2008,** Sanjay J. Ghevariya, Amenable Banach Algebras.
4. **24-4-2008,** Chetan N. Patel, Weekly Amenable Banach Algebras.
5. **29-1-2008,** Prakash H. Patel, Some Results on Finite Groups.
6. **28-11-2008,** Bhavin M. Patel, Weights on Discrete Semigroups and Topological Groups.
7. **12-11-2008,** Mahendra A. Patel, Weights with some Specific Properties on Classical Semigroups.
8. **25-2-2010,** Jigna V. Panchal, Mathematics in Stock Market.

9. 25-2-2010, Snehal D. Patel, Mathematics in Finance.
10. 2010, Meena V. Mulchandani, *-semisimplicity in Banach *-algebras
11. 2010, Trupti D. Shah, Semisimplicity in Banach Algebras
12. 2012, Tejas S. Jani, Topological Groups, Haar Measure Construction, and Generalized Characters,
13. 2012, Disha N. Pandya, Conditional Expectation, Stochastic Process, and Stochastic Calculus,
14. 2012, Asmabanu H. Rajavada, The Beurling Algebra $L^1(G, \omega)$.
15. 2013, Manish Kumar Pandey, Statistical Tools Used in Financial Market.
16. 2013, Arun D. Chauhan, Unbounded Operators and its Applications in Financial Market.

(C) M. Sc. Projects Guided:

1. 2010, Yogesh V. Patel, “Variables used in Valuations of Stocks and Bonds”.
2. 2011, Himani K. Raulji, “Some Famous Theorems on Topological Spaces and Their Applications”.

Member and Secretary

1. Secretary of V.V.Nagar Society for Mathematical Sciences, Sardar Patel University, Vallabh Vidyanagar, 2002 – 2004.
2. Organizing Secretary of an international workshop on “Banach Algebras, Operators, and Harmonic Analysis”, Department of Mathematics, Sardar Patel University, 7th to 11th January, 2002.
3. Organizing Secretary of a conference on “Banach Algebras, Operators, and Harmonic Analysis”, Department of Mathematics, Sardar Patel University, 12th to 13th January, 2002.
4. Organizing Secretary of a conference on “Harmonic Analysis and Applications”, Department of Mathematics, S. P. University, 14th to 16th March, 2005.
5. Member of the Board of Studies in Mathematics, Sardar Patel University, Vallabh Vidyanagar, 18th July, 2005 to 18th July, 2008.
6. Member of the Editorial Board of “Banach Journal of Mathematical Analysis“, September-2006 to December-2007, Iran.
7. Member of the Board of Studies in Mathematics, Sardar Patel University, Vallabh Vidyanagar, 19th July, 2011 to 18th July, 2014.

Projects and New Courses

1. UGC Sponsored Minor Research Project, 2000-01, Title: An Investigation in Harmonic Analysis on Abelian Groups with Weights.
2. UGC Sponsored Major Research Project for 3 years, 2004-07, (Co-investigator: Prof. S. J. Bhatt), Title: Beurling algebras and harmonic analysis on weighted groups.

3. Prof. S. J. Bhatt, Mr. S. J. Ghevariya, and myself have started Financial Mathematics in the department since July 2008. Two M.Phil. students have written their dissertations under my guidance in the area of financial mathematics. Mr. Sanjay J. Ghevariya has registered his part-time Ph.D. under my supervision in Financial Mathematics.
4. I was a principle investigator in the project on “An Investigation into some Mathematical Aspects in Financial Derivatives”, (with co-investigator Sanjay J. Ghevariya) under the Interdisciplinary Studies in Sciences at Sardar Patel University, during 2012-2013.

Conferences, Seminars, and Workshops Attended

(A) Abroad:

1. 12th International Conference on “Banach Algebras and Related Topics”, 17th to 28th July, 1995, Newcastle-upon-Tyne, UK.
2. 13th International Conference on “Banach Algebras and Related Topics”, 20th July to 3rd August, 1997, Heinrich Fabri Institute, Blaubeuren, GERMANY.
3. British Mathematics Colloculum, 3-7 April 2006, Newcastle-Upon-Tyne, UK.
4. London Mathematical Society Meeting, 3-7 July 2006, London.
5. 19th International Conference on “Banach Algebras and Related Topics, 14th to 24th July 2009, Steffan Banach International Center for Mathematics, Bedlewo, Poland.
6. Attended EPSRC-DST Scoping Meeting in Applied Mathematics, Edinburgh University, Edinburgh, UK, 11th to 13th July 2012.

(B) In India:

7. National Summer School for talented P.G. mathematics students, Gujarat University, 11th to 23rd June, 1990, Ahmedabad.
8. Summer School on Advanced Real Analysis and Applications to Partial Differential Equations, 18th May to 8th June, 1992, IISc, Bangalore.
9. 8th Gujarat Science Congress, January 1993, Saurashtra University, Rajkot.
10. Conference on “Harmonic Analysis and its Applications”, December 1993, IIT-Powai, Bombay.
11. Orientation Course for Computer Awareness, 9th August to 2nd September, 1999, G. H. Patel Computer Centre, Sardar Patel University, Vallabh Vidyanagar.
12. Conference on “Harmonic Analysis and its Applications”, December 1999, ISI, New Delhi.
13. Conference on “A Life of Mathematician”, 16th to 20th January, 2001, St. Stephen’s College, Delhi University, Delhi.
14. Conference on “Harmonic Analysis and its Applications”, 22nd to 24th December, 2006, IIT-Kanpur, Kanpur.
15. Workshop on “Problem Solving in Mathematics”, Dept of Mathematics, S. P. University, 26th Dec. 2006 to 1st Jan.2007.

16. Workshop on “Recent Advances in Fourier/Harmonic Analysis”, Dept of Mathematics, S. P. University, 24-27 March 2007
17. Seminar on “Mathematics Meet-2008”, 28th to 29th March, 2008, Gujarat University, Ahmedabad.
18. Compact Course on Analysis, 2nd to 7th January, 2009, IISc, Bangalore.
19. Seminar on “Analysis, Differential Equations, and Applications”, 30th to 31st January, 2009, M. S. University, Baroda.
20. International Conference for Mathematicians, 19-27 August 2010, Hyderabad.
21. An international conference on “Legacy of Ramanujan” was attended at Delhi University in December 2012.

Published Research Papers

1. “On a problem of H.G. Dales in Banach algebras”, (with S.J. Bhatt), Math Today, 11(A) (1993) 29-34.
2. “Uniqueness of the supnorm on $C(X)$ and a remark on C^* -algebras”, (with S.J. Bhatt and M.H. Vasavada), Jr. Math. Phil. Sci., 28(2) (1994) 89-94.
3. “Banach algebras in which every element is a topological zero divisor”, (with S.J. Bhatt), Proc. American Math. Soc., 123(3) (1995) 735-737.
4. “Uniqueness of the uniform norm and adjoining identity in Banach algebras”, (with S.J. Bhatt), Proc. Indian Acad. Sci. (Math. Sci.), 105(4) (1995) 405-409.
5. “Banach algebras with unique uniform norm”, (with S.J. Bhatt) Proc. American Math. Soc., 124(2) (1996) 579-584.
6. “On seminorms, spectral radius and Ptak's spectral function in Banach algebras”, (with S.J. Bhatt) Indian Jr. Pure Appl. Math., 26 (1996) 551-556.
7. “A seminorm with square property is automatically submultiplicative”, Proc. Indian Acad. Sci. (Math. Sci.) 108(1) (1998) 51-53.
8. “Compact elements in weighted discrete semigroup algebras”, Banach Algebras'97, Editors E. Albrecht and M. Mathieu, Walter De Gruyter, Berlin, (1998), 119-133.
9. “Banach algebras with unique uniform norm II”, (with S.J. Bhatt), Studia Mathematica, 147 (3) (2001) 211-235.
10. “A note on weak amenability in Beurling algebras”, Prajna Jr. of Pure & Appl. Sci., Sardar Patel University, (2000-01) 69-71.
11. “On the Gelfand space of weighted discrete abelian semigroup algebras”, Math. Today, 19(2)(2001) 15-24.
12. “Frechet algebras with a Laurent series generator and the annulus algebras”, (with S. J. Bhatt and S. R. Patel), Bull. Australian Math. Soc., 65(2002)371-383.
13. “A Beurling algebra is semisimple: an elementary proof”, (with S. J. Bhatt), Bull. Australian Math. Soc., 66 (2002) 91 - 93.
14. “Beurling algebra analogues of the Classical Theorems of Wiener and Levy on absolutely convergent Fourier series”, (with S.J. Bhatt), Proc. Indian Acad. Sci. (Math. Sci.), 113(2)(2003)179-182.

15. "Beurling algebras and uniform norms", (with S. J. Bhatt), *Studia Mathematica*, 160(2)(2004)179-183.
16. "On standard ideals in weighted convolution algebras on subsemigroups of \mathbb{R}^+ ", *Indian Jr. Pure & Appl. Math.*, 35(11)(2004)1279-1284.
17. "A note on generalized characters", (with S.J. Bhatt), *Proc. Indian Acad. Sci. (Math. Sci.)*, 115(4)(2005) 437-444.
18. "Weighted measure algebras and uniform norms" (with S. J. Bhatt), *Studia Mathematica*, 177(2)(2006)133-139.
19. "Generalized semicharacters and weights on semigroups" (with J. H. Shah), *Prajna, Jr. of Pure & Appl. Sci.*, Sardar Patel University, 14(2006) 79-93.
20. "On the uniqueness of uniform norms and C^* -norms" (with P. A. Dabhi), *Studia Mathematica*, 191(3)(2009) 263-270.
21. "Weighted convolution algebras on subsemigroups of the real line" (with H. G. Dales), *Dissertationes Mathematicae*, Istitute of Mathematics, Polish Academy of Sciences, Volume 459, 2009.
22. "Beurling algebra analogues of theorems of Wiener-Levy-Zelazko and Zelazko" (with S. J. Bhatt and P. A. Dabhi), *Studia Mathematica*, 195(3)(2009) 219-225.
23. "Multipliers of weighted semigroups and associated Beurling Banach algebras" (S J Bhatt, and P A Dabhi), *Proc. Indian Acad. Sci. (Math. Sci.)*, 121(4)(2011)417-433.
24. "Option Pricing Formulas for Fractional Polynomial Payoff Functions", (with S. J. Ghevariya), *International Journal of Pure & Applied Mathematical Sciences*, 6(1)(2013) 43-48.
25. "From Binomial to Binary: A note on Multi-period Binomial Option Pricing Model" (with Vipul R. Shah), *International Journal of Mathematics and Computer Applications Research*, 3(2)(2013) 169-174.
26. "A non-unital $*$ -algebra has UC^*NP iff its unitization has UC^*NP ", (with H. J. Kanani), *Proc. American Math. Soc.*, 141(11)(2013)3905-3909.
27. "Option Pricing Formulas for Modified Log-payoff Function", (with S. J. Ghevariya), *International Journal of Mathematics and Soft Computing*, 3(2)(2013) 129-140.
28. "On $*$ -semisimplicity of $l^1(S)$ ", (with S. J. Bhatt, P. A. Dabhi), *Bulletin of Australian Math Soc.*, 88(2013) 492-498.
29. "Fractional Brownian Motion and Predictability Index in Financial Market", (with S. J. Bhatt and V. R. Shah), *Global Journal of Mathematical Sciences: Theory and Practical*, 5(3)(2013) 197-203.
30. "Gelfand Theory for Vector-valued Beurling Algebras", (with M. K. Kansagara), *Mathematics Today*, 29(June-Dec, 2013) 12-24.
31. "Some Banach Algebra Properties in the Cartesian Product of Banach Algebras", (with Hiten J. Kanani), *Annals of Functional Analysis*, 5(1)(2014)51-55.
32. "The Multiplier Algebra of a Beurling Algebra", (with S. J. Bhatt and P. A. Dabhi), *Bull. Australian Math. Soc.*, 90(2014)113-120.

33. "Fractal Dimensional Analysis in Financial Time Series", (with S. J. Bhatt and Vipul R. Shah), International Journal of Financial Management, 5(2)(2015) 57-62.
34. "A Note on Exponentially Generated Trinomial Tree", (with V. R. Shah), International Conference on Mathematical Sciences, 517-520.
35. "Application of Multiple Attribute Decision Making Methods in Stock Ranking", (with V. R. Shah and R. C. Sanghvi), communicated.

Lectures Delivered

(A) Abroad:

1. 20th July 1995, "Uniqueness of uniform norms in commutative Banach algebras", 12th International Conference on "Banach algebras and Related Topics", Newcastle-Upon-Tyne, UK.
2. 5th December 1995, "Uniqueness of uniform norm in Banach Algebras", Yorkshire Functional Analysis Seminars, University of Leeds, Leeds, UK.
3. 9th April 1996, "Standard Closed Ideals in Weighted Convolution Banach Algebras on the Half-line", University of Leeds, Leeds, UK.
4. 24th July 1997, "On compact elements in weighted discrete abelian semigroup algebras", 13th International Conference on "Banach algebras and Related Topics", Blaubeuren, GERMANY.
5. 17th January 2006, "Uniqueness Properties in Beurling Algebras", Yorkshire Functional Analysis Seminars, University of Leeds, Leeds, UK.
6. 14th February, 2006, "Uniqueness properties in Commutative Banach Algebras", Oxford University, Oxford, UK.
7. 19th May, 2006, "Uniqueness properties in Commutative Banach Algebras", University of Lancaster, Lancaster, UK.
8. 20th April, 2006, "Uniqueness properties in Commutative Banach Algebras", Glasgow University, Glasgow, UK.
9. 21st July, 2009, "Weighted Discrete Semigroup Algebras on Subsemigroups of the Real Line", 19th International Conference on "Banach Algebras and Related Topics", Bedlewo, POLAND.

(B) In India but out of Gujarat:

10. 3rd August 1998, "UUNP in commutative Banach algebras", Indian statistical Institute, New Delhi.
11. 6th January 1999, "UUNP in weighted Abelian Harmonic Analysis", Conference on functional analysis and linear algebras, Indian Statistical Institute, New Delhi.
12. 5th January 2009, "Weighted Discrete Semigroup Algebras on Subsemigroup of the Real Line", Compact course on Analysis, IISc, Bangalore.

(C) In Gujarat:

13. 26th September 1998, "On Arens regularity of Banach algebras", V.V.Nagar Society for Mathematical Sciences, Vallabh Vidyanagar.

14. 15th February 1999, "Weighted discrete semigroup algebras", UGC sponsored research seminar in pure & applied mathematics, Vallabh Vidyanagar.
15. 25th September 1999, "Discrete Volterra algebra", V.V.Nagar Society for Mathematical Sciences, Vallabh Vidyanagar.
16. 25th December 1999, "About weights on the set of integers" Gujarat Ganit Mandal, Palanpur.
17. 3rd March 2000, "A Beurling algebra analogue of wiener's theorem on absolutely convergent Fourier series", V.V.Nagar Society for Mathematical Sciences, Vallabh Vidyanagar.
18. 26th August 2000, "A note on weak amenability in Beurling algebras", V.V.Nagar Society for Mathematical Sciences, Vallabh Vidyanagar.
19. 30th September 2000, "A note on weak amenability in Beurling algebra II", V.V.Nagar Society for Mathematical Sciences, Vallabh Vidyanagar.
20. 4th March 2001, "On the Gelfand space of weighted discrete semigroup Banach algebras", National level research seminar in mathematics 2001, Vallabh Vidyanagar.
21. 5th March 2001, "Uniqueness of the uniform norm and Harmonic Analysis on locally compact abelian groups with weights", National level research seminar in mathematics 2001, Vallabh Vidyanagar.
22. 7th – 20th March 2001, A series of lectures were given on "UUNP in Banach Algebras", UGC sponsored visiting fellow, Saurashtra University, Rajkot.
23. 7th to 11th August, 2001, A series of lectures on "Fast Fourier Transformations", Department of Computer Science, S. P. University, Vallabh Vidyanagar.
24. 7th May 2002, "Weighted Discrete Semigroup Algebras", UGC Sponsored refresher course in mathematics, Sardar Patel University, Vallabh Vidyanagar.
25. 30th August 2002, "Applications of Complex Analysis to Banach Algebras", V.V.Nagar Society for Mathematical Sciences, Vallabh Vidyanagar.
26. 19th February 2005, "A note on the Gel'fand space of $C_c(G)$ ", 19th Gujarat Science Congress, Vallabh Vidyanagar.
27. 14th March 2005, "Uniqueness of Uniform Norm in Banach Algebras and Harmonic Analysis", Conference on Functional Analysis and Applications, Sardar Patel University, Vallabh Vidyanagar.
28. 1st January 2007, Two invited lectures in workshop on "Problem Solving in Mathematics", S. P. University, V. V. NAGAR.
29. 26th March 2007, One invited lecture in workshop on "Recent Advances in Harmonic Analysis", S. P. University, V. V. NAGAR.
30. 26th February 2008, Two invited lectures in workshop on "Problem Solving in Mathematics", S. P. University, V. V. NAGAR.
31. 28th March 2008, "Weighted Convolution Algebras on Rationales", Mathematics Meet – 2008, Gujarat University, Ahmedabad.

32. 30th January 2009, “Weighted Convolution Algebras on Subsemigroup of the Real Line \mathbb{R} ”, National Seminar on Analysis, Differential Equations, and Applications”, M. S. University, Baroda.
33. 18th April 2009, Three invited lectures on “Time Value of Money”, Department of M.B.A., Sardar Patel University, Vallabh Vidyanagar.
34. 10th March 2013, One lecture was delivered on “*-semisimplicity of $l^1(S)$ ” in a national seminar in the Department of Mathematics, Sardar Patel University, V. V. Nagar.