

CURRICULUM VITAE

Name : C. R. Pranesachar
: (Chudamani Raghavendrachar Pranesachar)
Sex : Male
Date of Birth : April 12, 1948
Place of Birth : Gowdety, Tumkur District, Karnataka
Marital Status : Married
Address : Apt 104 Building 23
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Education

School		Years	Percentage
2nd Std.to 5th Std.	Netaji Municipal High School, HINDUPUR, Andhra Pradesh	1954-56	
6th Std.to 11th Std.	Mahatma Gandhi Municipal High School HINDUPUR, Andhra Pradesh	1956-62	69.3%
College			
PUC	St.Joseph's College, Bangalore	1962-63	78.8%
B.Sc.	St.Joseph's College, Bangalore Physics & Mathematics as majors and Chemistry as minor	1963-66	80.6%, Univ. Third Rank
M.Sc.	Mathematics Central College, Bangalore Bangalore University (under lien from SDGS College, HINDUPUR)	1969-71	84.5%, Univ. First Rank
Research	Ph.D.(Combinatorics) Indian Institute of Science Bangalore Degree Awarded in 1981 (under FIP deputation from SDGS College, HINDUPUR).	1977-80	

Professional Career

Physics Demonstrator	SDGS College, HINDUPUR, Andhra Pradesh	1966 July to 1969 Aug
Junior Lecturer in Mathematics	SDGS College, HINDUPUR, Andhra Pradesh.	1971 July to 1975 Nov
Lecturer in Mathematics	S.V. University Engg College, TIRUPATI, Andhra Pradesh (under lien from SDGS College)	1975 Dec to 1976 July
Lecturer in Mathematics (Senior and Selection Grade)	SDGS College, HINDUPUR, Andhra Pradesh	1976 Aug to 1977 July 1980 Aug to 1982 Sept 1984 July to 1991 Aug 1994 Aug to 1995 April
Visiting Lecturer	Mathematics Department The Ohio-State University Columbus, Ohio, USA. (under lien from SDGS College, HINDUPUR)	1982 Oct to 1984 June
NBHM Teacher Fellow	Indian Institute of Science, Bangalore (under deputation from SDGS College, HINDUPUR)	1991 Aug to 1994 Aug
Scientific Officer(E & F)	DAE, MO Cell, NBHM at Mathematics Department, Indian Institute of Science, Bangalore	1995 April to 2003 August
Reader F	HBCSE, TIFR	2003 August to 2006 Jan
Associate Professor G	HBCSE, TIFR	2006 Feb to-date

Present Status

Associate Professor G, in MO Cell, HBCSE, TIFR at Department of Mathematics, Indian Institute of Science, Bangalore; Scale of Pay : 16400-450-20000: Present Basic Rs.19100.

Publications

Books

- (a) 7th Standard Geometry for Govt. of Andhra Pradesh (1990 - 91).
- (b) Problem Primer for the Olympiads, Interline Publishing, Bangalore, (1994). (Jointly with B. J. Venkatachala and C. S. Yogananda).
- (c) Mathematical Challenges from the Olympiads, Interline Publishing, Bangalore (1995). (Jointly with S. A. Shirali, B. J. Venkatachala, C. S. Yogananda).
- (d) Challenge & Thrill of Pre-college Mathematics New Age International Publishers, New Delhi, (1996). (Co-authors V. Krishnamurthy, K. N. Ranganathan, B. J.

Venkatachala).

Research Articles

1. K.B. Athreya, C. R. Pranesachar and N. M. Singhi, On the number of Latin Rectangles and Chromatic Polynomial of $L(K_{r,s})$, Europ. J. Combinatorics **1980** 1, 9-17.
2. C. R. Pranesachar, Enumeration of Latin rectangles via SDR's. Combinatorics and Graph Theory 885, Proceedings, Calcutta **1980**, pp 380-390 (Conference Article).
3. C. R. Pranesachar, Some Formulae for the Number of SDRs and Symbolic representations, Europ. J. Combinatorics **1981** 2, 185-191.
4. C. R. Pranesachar, On the Number of Two-Line and Three-Line Latin Rectangles - an alternative approach, Discrete Mathematics, 38 **1982** 79-86.
5. C. R. Pranesachar, A class of Matching - equivalent Bipartite Graphs, Discrete Mathematics, **1999**, 203, 1-3, pp 207-213.
6. Gave an alternative proof of an algebraic identity given in the following paper: On series, integrals and continued fractions III, K. Ramachandra, Acta Arithmetica, XCIX, 3, 2001, pp 257-266.
7. Integral Formulation of the Problem of Current Distribution in Compulsator Wires of Electro-magnetic Launchers and Railguns IEEE Transactions on Magnetics, Vol. 45, No.1, January 2009, pp:550-554 (Jointly with Karthik Seshadri, N. Ramesh, S.C. Sharma).

General Articles

1. Note on 'The Odd Ball Problem' in Resonance, March, **1997**.
2. C. R. Pranesachar, B. J. Venkatachala, K.R.S. Sastry, Sums of Integer Squares: A New Look, Mathematics and Computer Education, Fall **1998**, 32, 3, pp 233-245.
3. Note on 'Tiling of Rectangles' in Resonance, November, **1998**.
4. On infinity in Mathematics, An article published in a book entitled 'ANANTA', 2004.
5. On the number of solutions of the equation $x^n = e$ in a group. Ramanujan Newsletter, March 2004.
6. Work of Lagrange in Algebra and Number Theory, Resonance, April 2006 (Jointly with D.P. Patil and Renuka Ravindran).

Problems

Solved and proposed problems for the American Mathematical Monthly and Crux Mathematicorum.

1. Problem E 2715, AMM, October, 1979, 705-706. (Jointly with B.J. Venkatachala), **Solution Published** (Starred Problem).
2. Problem 6227, AMM, April, 1980, 311-312. (Jointly with B. J.Venkatachala), Stronger Result Mentioned.
3. Problem 6234 AMM, December, 1980, 829 - 830).
4. Problem S23 AMM, Aug-Sept., 1981, 536-7).
5. Problem E 2837 AMM October, 1981, 622).
6. Problem E 2903 AMM, Aug-Sept., 1983, 483- 484).
7. Problem 10233 AMM, March, 1995.
8. Problem 10264 AMM, April, 1995.
9. Problem 10285 AMM, March 1996.
10. Problem 10223 AMM, January, 1997.
11. Problem 10424 AMM, May, 1997.
12. Problem 10418 AMM, March, 1998.
13. Problem 10454 AMM, April, 1998.
14. Problem 10547 AMM, January, 1999.
15. Problem 10568 AMM, February, 1999.
16. Problem 10575 AMM, March, 1999.
17. Problem 10644 AMM, May, 1999.
18. Problem 10662 AMM, November, 1999.
19. Problem 10672 AMM, December, 1999.
20. Problem 10664 AMM, October, 1999.
21. Problem 10653 AMM, January, 2000.

22. Problem 1492(Part b), Crux Mathematicorum, Dec, 1999, pp. 508-510 (Jointly with B. J. Venkatachala), Solution Published (Starred Problem).
23. Problem 10686 : **Proposal** : AMM October 1998.
24. Problem 10686 : AMM Aug-Sept. 2000, **Solution Published**.
25. Problem 10666 AMM, October, 2000, pp. 753-4.
26. Problem 10756 AMM, October, 2000, p. 759.
27. Problem 10759 AMM, November, 2000, pp. 867-8.
28. Problem 10766 AMM, November, 2000, pp. 869-70.
29. Problem 10780 AMM, December, 2000, pp. 957-8
30. Problem 10804 AMM, April, 2001, p. 378
31. Problem 10810 AMM, June-July, 2001, p. 571.
32. Problem 10763 AMM, Aug-Sept, 2001, p. 671.
33. Problem 10760 AMM, October, 2001, p. 773.
34. Problem 10753 AMM, November, 2001, pp. 873-4.
35. Problem 10816 AMM, May, 2002, pp. 478-9.
36. Problem 10824 AMM, May, 2002, pp. 481-2.
37. Problem 10874 AMM, Aug-Sept, 2002, pp. 669-70.
38. Problem 10823 AMM, October, 2002, pp. 761-2.
39. Problem 10829 AMM, October, 2002, p. 763.
40. Problem 2652 Crux-Mathematicorum, September 2002, pp.341-2.
41. Problem 10902, Aug-Sept. 2003, pp 639-40.
42. Problem 11017: **Proposal**: AMM, May 2003, p. 439.
43. Problem 2952: **Proposal**: Crux-Mathematicorum, September 2004, pp.296 (jointly with Pruthu Bharti).
43. Problem 10970: AMM, Aug-Sept 2004, p. 626-7.
44. Problem 10974: AMM, Aug-Sept 2004, p. 628.

45. Problem 10981: AMM, Aug-Sept 2004, p. 631.
46. Problem 10983: AMM, October 2004, p. 726-8.
47. Problem 10980: AMM, November 2004, pp. 823-4.
48. Problem 11017: AMM, February 2005, pp. 186-7.
49. Problem 11021: AMM, March 2005, pp. 279-80.
50. Problem 11030: AMM, April 2005, pp. 371-72.
51. Problem 11085: AMM, Jan. 2006, p. 84
52. Problem 11101: AMM, March 2006, pp. 270-71.
53. Problem 11105: AMM, March 2006, pp. 273-74.
54. Problem 11107: AMM, March 2006, p. 274.
55. Problem 11110: AMM, March 2006, p. 274.
56. Problem 11108: AMM, May 2006, pp. 466-67.
57. Problem 2900: CRUX Mathematicorum, Dec 2004, pp. 534-35.
58. Problem 11109: AMM, June-July 2006, p.573.
59. Problem 11106: AMM, Aug-Sept 2006, pp. 656-57.
60. Problem 11116: AMM, Aug-Sept 2006, p. 657.
61. Problem 11166: AMM, Aug-Sept 2006, p. 65.
62. Problem 11151: AMM, Mar 2007, pp. 265-66.
63. Problem 11164: AMM, Apr 2007, pp. 364-65.
64. Problem 11160: AMM, May 2007, p.454 **Solution Published.**
65. Problem 11195: AMM, Aug-Sept 2007, pp. 648-49 (stronger inequality mentioned).
66. Problem 11176: AMM, Nov 2007, pp. 837-38.
67. Problem 11228: AMM, Jan 2008, p.77.
68. Problem 11263: AMM, Apr 2008, pp. 371-72.
69. Problem 11245: AMM, May 2008, pp. 467-68.

70. Problem 11261: AMM, June-July 2008, pp. 569-71 **Solution Published.**
71. Problem 11259: AMM, Nov 2008, pp. 862.
72. Problem 11306: AMM, JAN 2009, pp. 88-9.
73. Problem 11319: AMM, MAR 2009, p. 283.
74. Problem 11283: AMM, MAY 2009, pp. 465-66.
75. Problem 3125: Crux Mathematicorum, Apr, 2007, pp. 175-77, Solution Published (Starred Problem) with a few more details given by the solver added.

Problems in IMO

1. IMO - 1990 China, proposal shortlisted and selected in the final list.
2. IMO - 1991 Sweden, 2 proposals shortlisted.
3. IMO - 1992 Russia, 1 proposal shortlisted.
4. IMO - 1997 Argentina, 1 proposal shortlisted.
5. IMO - 1999 Romania, 1 proposal shortlisted.
6. IMO - 2000 South Korea, 1 proposal shortlisted.
7. IMO - 2001 USA, 1 proposal shortlisted.
8. IMO - 2002 UK, 1 Proposal shortlisted.
9. IMO - 2003 Japan, 1 Proposal shortlisted.

Involvement in IMO

1. Deputy leader of the Indian IMO team 1991, Sweden.
2. Deputy leader of the Indian IMO team 1992, Russia.
3. Problem Selection Committee Member & Chief Problem Coordinator for IMO 1996, when India hosted the IMO in Mumbai.
4. Leader of the Indian IMO team 1999, Romania.
5. Leader of the Indian IMO team 2000, South Korea.
6. Deputy Leader of the Indian IMO team 2005, Mexico.
7. Leader of the Indian IMO team 2007, Vietnam.

8. Selected as the Leader of the Indian IMO team 2009, Germany.
9. Faculty for International Mathematical Olympiad Training Programme: 1988-1995,1997-2009; involved in setting Selection test papers, valuation, selection of the National Teams; Academic Coordinator for the years 1997, 2000, 2003, 2005, 2007, 2009.

Involvement in School and College Teachers' Programmes :

1. High School Teachers' Orientation Programme at Shimoga, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISc, Bangalore: Sept, 1996.
2. High School Teachers' Orientation Programme for KV teachers at Kendriya Vidyalaya Jalahalli, Bangalore: Jun, 1996.
3. High School Teachers' Orientation Programme at Mandya, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISc, Bangalore: Nov, 1997.
4. High School Teachers' Orientation Programme at Belgaum, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISc, Bangalore: Nov, 1998.
5. High School Teachers' Orientation Programme at Bellary, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISc, Bangalore: Nov, 1999.
6. High School Teachers' Orientation Programme at IISc, Bangalore, jointly sponsored by Infosys Technology Ltd and JNC, Bangalore: June, 2000.
7. High School Teachers' Orientation Programme at Kolar, Karnataka sponsored by DSERT, Karnataka: Aug, 2000.
8. High School Teachers' Orientation Programme at Gulbarga, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISc, Bangalore: Dec, 2000.
9. High School Teachers' Orientation Programme at Davanagere, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISc, Bangalore: Dec, 2001.
10. High School Teachers' Quality Programme Sponsored by Akshayapatra, at IISc, Bangalore: June, 2002.
11. High School Teachers' Orientation Programme at Raichur, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISc, Bangalore: Dec, 2002.
12. High School Teachers' Orientation Programme at Hassan, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISc, Bangalore: Dec, 2003.
13. High School Teachers' Orientation Programme at Dharwad, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISc, Bangalore: Dec, 2004.
14. Problem Sessions to High School Teachers and Students at Kuppam, sponsored by Agasthya, September, December 2002 and February & March 2003.

15. High School Teachers' Orientation Programme at Kolar, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISC, Bangalore: Jan, 2006.
16. High School Teachers' Orientation Programme at Gadag, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISC, Bangalore: Dec, 2006.
17. High School Teachers' Orientation Programme at Haveri, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISC, Bangalore: Dec, 2007.
18. High School Teachers' Orientation Programme at Bijapur, Karnataka jointly sponsored by DSERT, Karnataka and CCE, IISC, Bangalore: Dec, 2008.
19. Gave two lectures in Teachers' workshop organized by KV, Hebbal, Bangalore during May 29 - June 01, 2008.
20. Gave two lectures in Teachers' workshop organized by KV, Yelahanka, Bangalore during June 19, 2008.
21. Gave two lectures in Teachers' workshop organized jointly by Dept. of Mathematics, IISc, Bangalore and Rishi Valley School during September 19-21, 2008.
22. Gave two lectures in Teachers' workshop organized by KSCST, Karnataka at IISc, Bangalore, Dec, 2008.
23. Gave one lecture in Teachers' workshop organized by Army School, Bangalore, on Feb. 21, 2009.
24. Gave one lecture in Teachers' workshop organized by KV Hebbal, Bangalore, on May 30, 2009.
25. Refresher Course for College Teachers at American College, Madurai, October, 1987.
26. Refresher Course for College Teachers at University of Poona, November, 1991.
27. Refresher Course for College Teachers at Bangalore University, November, 1996.
28. Refresher Course for College Teachers at Cochin University, February, 1999.
29. Refresher Course for College Teachers at Bangalore University, March, 1999.
30. Refresher Course for College Teachers at Nagarjuna University, September, 2000.
31. Refresher Course for College Teachers at University of Poona, Pune, April, 2001.
32. Refresher Course for College Teachers at S.K.University, Anantapur, July, 2001.
33. Refresher Course for College Teachers at S.P. Mahila University, Tirupati, September 2001.
34. Refresher Course for College Teachers at Bangalore University, March 2002.

35. Refresher Course for College Teachers at S.P Mahila University, September 2002.

Involvement in Olympiad Training Programme

1. Faculty for Indian National Mathematical Olympiad Training Camp: Karnataka, 1987-2009; Tamilnadu, 1994-2003,2005-2009; CBSE group, Delhi, 2000,2004, Orissa, 2001,2004; Nanded, 2001/2003, Ranchi, 2002,2003,2005, NVS group (South Zone) Shivaragudda, Karnataka (Mandya) 2004,2005,2006; Doddaballapur, Karnataka 2007,2008; Kasargod, Kerala, 2007; Trivandrum, Kerala, 2008; Chandigarh INMO Training Camp, 2007; Pune INMO Training Camp 2007; KVS group INMO Training Camp at KV Hebbal, Bangalore during Oct, 2007 and Oct, 2008.
2. Attended Pre-IMO Training Camps: 1994, Delhi; 2001, Pune; 2002 Pune, 2003 Pune, 2004 Delhi, 2005 Delhi, 2006-2007 Mumbai.
3. Regional Mathematical Olympiad Orientation Camps: (including Pre-RMO Camp):
 - (i) JNV, Doddaballapur, Karnataka, June, 1997.
 - (ii) Malnad College of Engineering, Hassan, Karnataka, November, 1998.
 - (iii) KV, MEG, Bangalore, Karnataka, January, 1999.
 - (iv) DVS High School, Shimoga, Karnataka, January, 1999.
 - (v) National College, Jayanagar, Bangalore, September, 1999.
 - (vi) Kumaran's High School, Bangalore, Karnataka, October, 1999.
 - (vii) Shranabasaveswara College, Gulbarga, Karnataka, November, 1999.
 - (viii) Senior Hindu High School, Chennai, October, 1999.
 - (ix) Initiation, Jaipur, Rajasthan, November, 1999.
 - (x) National College, Jayanagar, Bangalore, September, 2000.
 - (xi) Jnanodaya High School, Bangalore, Karnataka, October, 2000.
 - (xii) Saranabasaveswara College, Gulbarga, Karnataka, 2000.
 - (xiii) Planetarium, Bangalore, 2000.
 - (xiv) Mathemajik Sosity, Jayanagar, 2001 (2 hours).
 - (xv) Mathemajik Sosity, Jayanagar, 2002 (2 hours).
 - (xvi) Mathemajik Sosity, Jayanagar, 2003 (2 hours).
 - (xvii) Mathemajik Sosity, Jayanagar, 2004 (8 hours).

Taught the following courses for IISc.

1. Problem Seminar course 1993 (Jan - Apr).
2. Part of Analysis course (MA 222); 1996 (Aug-Dec).

3. Graph Theory (MA 215); 1997 (Jan-Apr).
4. Graph Theory (MA 215); 1999 (Jan-Apr).
5. Algebra I (MA 212); 2000 (Aug-Dec).
6. Algebra I (MA 212), 2001 (Aug-Dec).
7. Discrete Mathematics; Number Theory part, 2004 (Aug-Dec).
8. Algebra I (MA 212), 2005, (Aug-Dec).
9. Part of Linear Algebra (MA 211), 2006, (Aug-Dec).
10. Part of Discrete Mathematics (MA 217), 2008, (Jan-Apr).

Other Academic Activity/Assignments

1. Set question papers for RMO's :
NBHM RMO, 1993-2008; Karnataka RMO, 1990-2005; INMO, 1991-2008. Evaluated INMO scripts for this period.
2. Set question paper in Algebra & Combinatorics and valued the scripts, NEHU, Assam, 1998-99.
3. Set question paper to Entrance Exam for Integrated Ph.D. programme of Mathematics Department, IISc., March, 2000.
4. Set question paper for Karnataka NTS : 1997.
5. (a) Set question papers for KVPY : 2000-2008
(b) Valued the scripts for KVPY : 2000-2003.
(c) Member of the interview committee in 2003 (1 day), 2004 (5 days), 2006(3days), 2008(3days), 2009(3days + 3days).
(d) Checked KVPY projects application forms in mathematics, November 2004, 2007, 2008.
(e) Conducted KVPY exam at Chennai Nov. 2004, Hyderabad 2006
(f) Quiz paper setting for KVPY, May 07, 2003.
6. Member of interview panel for mock NTS Interview, DSERT, 1998.
7. Member of interview panel for Int. Ph.D. programme (June) 2000, June 2006.
8. Resource person for DAE sponsored problem coordinators' camps (each 4 days):
(a) IISc. Bangalore, March, 1993.
(b) Utkal University, Hyderabad, Feb. 1994.
(c) Osmania University, Hyderabad, Dec. 1994.

- (d) Gujarat University, Ahmedabad, Mar. 1995.
 - (e) IIT Kharagpur, Nov. 1995.
 - (f) ISI, Delhi, Jan. 1996.
 - (g) IISc., Bangalore, March, 1996.
 - (h) CMS, Lucknow, Sept. 1997.
 - (i) CUSAT, Cochin, Sept. 1999.
 - (j) HBCSE, Mumbai, Sept. 2000.
 - (k) Bhuvaneshwar, Institute of Physics, Sept. 2001.
 - (l) BHU, Varanasi Nov. 2002.
 - (m) NEHU, Shillong, Meghalaya, September 2003.
 - (n) HBCSE, Mumbai, Jan. 30- Feb. 02, 2006.
 - (o) Nagpur Aug 2006 (4 days)
 - (p) Punjab University, Chandigarh Dec 2006 (4 days).
 - (q) Cochin Nov-Dec 2007 (4 days).
 - (r) S. K. University, Anantapur Sept 2008 (5 days).
 - (s) Dhamtari Chattisgarh Oct 2008 (4 days)
9. (a) Guided a student for Reading Project (May-June, 2000). for a II year Integrated M.Sc. (Kharagpur IIT) student.
- (b) Guided a 12th Grade student from New York for a summer research project on Integer Sided Triangles for 2 months during June-Aug 2002.
- (c) Guided a first year B.Sc. student from ISI, Kolkata on QCB Reciprocity laws.
- (d) Guided a B.E. (Mech.) Student from Meerut on Sterling Approximation; March-May 2004.
10. Acted as a judge for a Guinness Book Record entry demonstration, Oct 30, 1999, at IISc., Bangalore.
11. Gave the following lectures:
- 1 Talk on Integer Sums, Bangalore University, Mathematics Department, June 13, 1996.
 - 2 Talk on Algebraic Structures, Bangalore High School, Malleswaram, Bangalore, Aug. 17, 1996.
 - 3 Talk on Equivalent Matchings, Mathematics Department, IISc., Bangalore, March 27, 1998.
 - 4 Talk on 'Olympiad Problems' at Malnad College of Engineering, Hassan, June 20, 1998. (MCF, Hassan)
 - 5 Talk on 'Brahmagupta and the Cyclic Quadrilateral at IISc. Bangalore, Aug. 10. 1998.

- 6 Talk on Catalan Numbers, Mathematics Department, Bangalore University, Dec. 2, 1998.
- 7 Talk on "Bipartite Graphs" IIT Kanpur, March 30, 1999.
- 8 Talk on 'Polynomial Equation' IIT Kanpur, April 01, 1999.
- 9 Talk on 'Catalan Numbers' in REC, Tirchirapalli, March, 20, 2000, (IEEE, Trichy Chapter).
- 10 Talk on evolution of Mathematics for subject experts, R.V. Teachers' College, Bangalore, April, 10, 2000.
- 11 Talk on Equivalent Matchings, ISI, Bangalore, June 30, 2000,
- 12 Talk on Geometry & Olympiads for subject experts at DSERT, Bangalore, Aug 2000.
- 13 Talk on Geometry to High School Teachers at Kolar, DSERT, on Aug 9, 2001.
- 14 Talk on Geometry for subject experts at DSERT, Bangalore, Aug 25, 2001.
- 15 Talk on Graph Theory for Nurture Programme, ISI, Bangalore, June 19, 2001.
- 16 Problem solving session at e-Gurucool, New Delhi, 29-04-2001 (2 hours).
- 17 Talk on 'Geometry, Number Theory and Brahmagupta's Cyclic Quadrilateral', Christ College, Bangalore, 10-10-2001.
- 18 Lecture Programme at Vijaya PU College, Bangalore 13-08-2002.
- 19 2 problem sessions for students under Expo 4, Aug 11, 2002.
- 20 Quiz paper setting for IIT Madras for Science stream and Engineering stream April 07, 2003.
- 21 2 problem sessions for students under Expo 5, July 13, 2002.
- 22 KVPY Quiz paper setting May 07, 2003.
- 23 Talk on Numbers, Sets and Infinity, Ramanagaram, Gousia Engineering College, 08-05-2005.
- 24 Talk on Geometry to High School Teachers, Seshadripuram High School, Bangalore, April 12, 2005.
- 25 Problem sessions for NTS Aspirants at Sardhar Vallabhbhai Patel School Rajajinagar, April 2005 (3 Hours), October 2005 (4 1/2 Hours).
- 26 Problem sessions for NTS Aspirants at JSS School Mysore, May 2005 (5 Hours).
- 27 Talk on Numbers and Sets to Navodaya Vidhyalaya Samiti students at IISc, Bangalore on October 6, 2005 (1 1/2 Hours).
- 28 Problem sessions to High School students at Hosur, April 2005 (5 Hours).
- 29 Problem sessions to Middle School students at Dharwad, October 2004 (4 Hours).
- 30 Problem session at Higher Secondary School Teachers' workshop at CUSAT, Cochin (1 1/2 Hours).

- 31 Talk on "Know your Numbers", at Vijaya PU College, Bangalore, 12-09-2005.
 - 32 Talk on "Srinivasa Ramanujan" Govt. Arts and Science College, Anantpur, Dec 22, 2003.
 - 33 Talk on "Srinivasa Ramanujan", P G. Centre, Osmania University, Nagaland, Dec 23, 2003.
 - 34 Talk on "Brahmagupta and the cyclic quadrilateral", 09-01-1004, MSR College of Arts and Science, Bangalore.
 - 35 Conducted two problem sessions at Ramachandrapuram, Andhrapradesh, on Jan. 08, 2006.
 - 36 Talk on "Sets and Numbers", IISc, Bangalore, April, 2008 for KV students of South Zone.
 - 37 Talk on "Fixed Dance Numbers with variable Dance partners", IISc, Bangalore, June 2008.
 - 38 Talk on "Linear Systems", PESIT, Bangalore, Oct, 2008 for Engineering college teachers.
 - 39 Talk on "Olympiad Problems Related to Matrix Algebra", National college, Jayanagar, Bangalore, March 24, 2009.
 - 40 Conducted five problem sessions at IISc. for Young Science Fellows in June 2007.
 - 41 Gave one problem session to students of Christ College, Bangalore on June 21, 2008.
 - 42 Conducted 12 problem sessions to students of Amity University, New Delhi during Oct 18-23, 2007.
 - 43 Participated in a two-day work-shop organized jointly by the Department of Mathematics, IISc and Rishi Valley School for high-school students from August 09 to 11, 2008: gave one lecture.
 - 44 Gave four lectures for Kendriya Vidyalaya IISc students during August 23 - September 01, 2008.
 - 45 Gave one problem session to students in Bhilai on October 04, 2008.
12. (a) Discussion Meeting on High School curriculum, Nov 1989 at Regional College of Education, NCERT, Mysore.
 - (b) Discussion Meeting on 10th Std./Plus 2 Curriculum at IISc, Bangalore, Oct. 16, 1997.
 - (c) Discussion Meeting on curriculum as an invitee at IAS annual meeting at Hyderabad, Nov. 1-3, 1997.
13. **IISc Young Fellowship Lectures**
 - (a) 1998 June 10 (3 lectures)
 - (b) 1999 June 9-14 (3 lectures)

- (c) 2000 June 12 (3 lectures)
- (d) 2001 June 06 (3 lectures)
- (e) 2003 June 18 (3 lectures)
- (f) 2004 May (3 lectures)
- (g) 2005 May (3 lectures)
- (h) 2007 May (3 lectures)

14. **Acted as an Examiner in the Comprehensive Examination (oral) for**

- (a) a research student from ECE, IISc, Dec. 07, 1999.
- (b) a research student from ECE, IISc, March, 27, 2000.

Miscellaneous

1. **Atomic Energy Commission Scholarship during B.Sc. (1963-66).** Merit Scholarship in P.U.C. (1962-63) & M.Sc. (1970-71).
2. **Awarded Two gold medals by Bangalore University, a silver medal and cash prize by then Mysore State Govt.** for standing first in M.Sc.
3. **UGC Curriculum Development Centre (Madras-based) member** for undergraduate syllabus (1986-87).
4. Selected as the **Best Participant** at the 6-week Summer School for College Teachers in Mathematics organized at Osmania University, Hyderabad (1971 May-June).
5. Attended a 5-day workshop in Mathematics in S.V. University, Tirupati, May 1974.
6. Passed the third examination in Sanskrit ('Vichakshana'), 1960.
7. Passed the third examination in Hindi ('Rashtrabhasha'), 1961.
8. Editor Sri Ramanujan Math. News letter (since 1999 Feb - 2005 Feb).
9. Reviewer for Mathematical Reviews from 1983 to 1992.
10. Visiting Fellow at Tata Institute of Fundamental Research, Mumbai (1979 March to June, 1982 June): Mehta Research Institute, Allahabad (1985 May-June).
11. Quiz paper setting for IIT Madras for Science and Engg, structures, April 07, 2003.
12. **Editor Resonance** since July 2005.
13. **KVPY Core Committee member** since Feb 2005.
14. **Honoured as Distinguished Alumnus** by St. Josephs College in March 2005.
15. Set Engineering Entrance Examination Question Paper for a North Indian State in April 2004.

16. Project guide to an ISI, Kolkata Student, June 16-30.
17. Set Engineering Entrance Examination Question Paper for a South Indian State in March 2004 and March 2005.
18. Paper setting for Integrated Ph.D. Entrance Exam for IISc, Bangalore.
19. Arranged a Demo by a counting wizard, Nitin Vats (Meerut) at Department of Mathematics, IISc, Bangalore.
20. Resource person for a summer camp at Alagappa Chettiyar University, Karaikudi: June 05-09, 2006.
21. Gave one-hour lecture on Mathematical Olympiads at CMRNPS, Bangalore on July 21, 2006.
22. Participated in NCME at NCERT, New Delhi, Dec 18-22. Gave a 20-minute lecture on Olympiads.
23. Awarded Sri Sanjeevaraya Sarma award by the Ramanujan Ganitha Academy, Ramachandrapuram, East Godavari district, Andhra Pradesh, January 08, 2006.
24. Member, Board of Studies in Mathematics, Sri Krishnadevaraya University, Anantapur Dec 2005 to Dec 2008: involved in the PG curriculum.
25. Attended the International Congress of Mathematicians at Madrid, Spain from Aug 22 to 31, 2006.
26. Paper setting for NEST: 2007 (Mumbai), 2008 (Mumbai), 2009 (Bhubaneswar).
27. Gave an All India Radio interview on Mathematical Olympiad Programme in India on Feb 20, 2008; broadcast on Feb 22 and Feb 23, 2008 (Bangalore Station)
28. Attended the IISc Centenary Conference during December 13-16, 2008.

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