### **FACULTY PROFESSIONAL INFORMATION**

1. Name : Dr. (Smt.) Sharada V. Bhat

2. Address:

Office: Residence:

Department of Statistics, "Shubhangi" Plot No.13 Karnatak University, Vijayanagar, Halyal Road, Dharwad – 580 003. INDIA Dharwad - INDIA Phone: (0836) 2215217 Phone: (0836) 2770845

3. **Date of Birth** : 21 Jan, 1969

## 4. Academic Background:

Qualification	Institution	Yr pass	Class Obtained
S.S.L.C	Kittur Rani Chennamma Residential School, Kittur	1984	First Class with Distinction
P.U.C	- Do -	1986	- Do -
B.Sc.	Mahatma Gandhi Memorial College, Udupi	1989	- Do -
M.Sc.	Karnatak University, Dharwad	1991	- Do -
Ph. D.	- Do -	1996	Thesis entitled Studies in Nonparametric Inference

### **5.** Present Position:

- a. Professor (stage 5), P.G. Department of Statistics, Karnatak University, Dharwad Since 11-03-2011.
- b. Associate professor (stage 4), P.G. Department of Statistics, Karnatak University, Dharwad from 11-03-2008 to 10-03-2011.
- c. Reader, P.G. Department of Statistics, Karnatak University, Dharwad from 11-03-2005 to 10-3-2008. (Associate professor Stage 3)

- d. Worked as Senior Lecturer in the P.G. Department of Statistics, Karnatak University, Dharwad from 11-03-2000 to 10-03-2005.
- e. Lecturer in the P.G. Department of Statistics, Karnatak University, Dharwad since 11-03-1996 to 10-03-2000.

# 6. Scholarships and Fellowships:

Karnataka State Govt. Scholarship : 1978 – 79 to 1985 – 86

Teacher's Children Merit Scholarship : 1986 – 87 to 1990 – 91

Karnatak University Research Scholarship: July, 91 to July, 92

Junior Research Fellowship (CSIR) : Aug, 92 to July, 94

Senior Research Fellowship (CSIR) ; Aug, 94 to Feb., 96

### 7. Academic Distinctions:

1984 Ninth Rank to Belgaum District in SSLC

1986 Best Girl for Residential School Life

1987 6<sup>th</sup> place in All India Essay writing competion "Socio –

Economic Aspects of India in the Twenty-First Century."

1988-89 Laxmi Bai Baliga Proficiency awards for securing first rank in BSc I and II

1979 – 1990 Bagged many prizes in debate, extempore speech,

elocution, recitation (in Kannada, Hindi, Sanskrit and

English), essay writng, music, dance, dramatics, etc.

1986 –1989 Bagged many prizes in science Seminars at College level 1989

Secured first in State level Science Seminar held at

VITM on "Revolution of Information Communication".

1991 First Rank (Gold Medal of the Department) in M.Sc. and

Passed Joint Eligibility Test (NET) for JRF and

Lecturership in Dec,1991 for the award of JRF.

2002 As moderator to three group discussions during "Shri

Mukunda Rao Kulkarni Abhinandana Samarambha" conducted by Karnataka State Madhyamika Shikshakara Sangha at Dharwad

8.	<b>Membership</b>	of the	<b>Profes</b>	sional	<b>Bodies:</b>

Life Member of ISPS (Indian Society for Probability and Statistics)

Life Member of ISA (Indian Statistical Association)

Life Member of KSA (Kerala Statistical Association)

Life Member of IISA (International Indian Statistical Association)

Life Member of ASR (Assam Statistical Review)

- 9. Research Experience: Actively engaged in Research since 1991
- **10. Publications** : 55 (including 5 in regional language Kannada)

and 1 book (Kannada)

Citations 98, h-index 6, i10-index 4

- 11. (a) Number of Conferences & Workshop attended: 61
  - (b) Number of Webinars: 3
- 12. Number of (winter / summer) School / Refresher Courses attended: 04
- 13. Subject taught: Sampling Theory, Point Estimation, Probability Distributions, Bayesian Inference, Quality Control, C Programming, Operations research, Probability theory, Actuarial statistics to M.A / M. Sc. (Statistics), Bio Statistics to M. Sc (Bio Chemistry, Microbiology)

Quantitative techniques, Statistical Quality Control to MBA.

Risk Analysis, Vital Statistics to International Diploma in Reproductive Heath.

Computer Programming Language BASIC to P.G. Certificate Courses(Statistics).

# 14. Area of Research: Nonparametric Inference and Bayesian Inference

# 16. No. of students guided for M.Phil / Ph.D :

Name	Degree	Year of award	Topic
Aparna Patil	Ph.D.	2008	A study on distribution-free test statistics
Ambika Singe	M.Phil.	2009	Some distribution-free tests for patterned alternatives.
Kailas D.Gokhale	Ph.D	2017	Studies in statistical quality control using prior information
Bhargavi Deshpande	Ph.D	2020	Some contributions to nonparametric regression
Shashank Shindhe	Ph.D	2020	Contributions to two- sample scale problem

**17. Awards and Honors:** 2009 – Dr. Masti Venkatesh Iyyangar memorial prize for a Kannada article in statistics.

### 18. Other Experience:

- a. Warden of Rani Chennamma Ladies Hostel Karnatak University, Dharwad. From 30-06-2003 to 31-01-2006.
- b. Executive member of KUPGTA 2002 2004, 2011-15 Treasurer of KUPGTA – 2002 - 2003
- c. Worked and working for various Committees such as Examinations, Admissions, Youth Festivals, Convocation, Gymkhana Activities, Local Inquiry, NAAC, AAA of Karnatak University, Dharwad
- d. Worked as PRO for Assembly Elections, 2008.
- e. Worked and working as Examiner for KPSC Exams since 2008.
- f. Vice-President (Cultural) of Gymkhana during 2013-14, 2018-19.
- g. Worked as Chairperson of the department and chairperson of BOS in Statistics 6<sup>th</sup> June, 2015 5<sup>th</sup> June 2017 and Working as Chairperson of the department and chairperson of BOS in Statistics since 7<sup>th</sup> June, 2021.

#### 19. Hobbies:

a. Hindustani Vocal: B – high artist in light music at AIR, Dharwad(since 2002), Passed Vidwat (Karnataka State, 2000) and Alankar (Gandharva Mahamandal Mumbai, 2005) in First Class, rendered many stage programs (both Classical & Light Music) and received Gandabandhan form Pandit Chandrashekar Puranikmath, in 1999. Published a booklet Varshageet(2007), edited a book Abhinav Bhava Bandish (2009) and published more than 20 articles. Received Rajkumar Rajyotsava award from International Rajkumar Foundation, Bangalore in 2009 and Saraswatishri from International Sanadhi Appanna Kalakarara Sangha, Bilagi in 2015. A life member of RagaDhana, Udupi(since 1989).

b. Philately & Numismatics: Has stamp collection on dance & fine arts, butterflies& General. Has collection of more than 500 coins (Old and Foreign).

20. Seminars / Conferences attended and presented papers:

Sl. No.	Name of Seminar / Symposia / Conference / Workshop, etc	Name of Sponsoring Agency	Place & Year
1.	National XII ISPS Conference	ISPS	Cochin Univ. of Science and technology 9-12 Dec., 1991
2.	International Symposium on Optimization and Statistics	UGC	AMU 2-4 Nov., 1993
3.	National Conference in Recent Developments in Statistical inference	UGC	KUD 26-28 Nov., 1997
4.	National Conference in Statistics Theory and Methods	UGC	KUD 22-24 Dec., 1998
5.	National Conference in Recent Developments in Statistical Models and Inference	UGC	KUD17-19 Feb., 2000
6.	National Seminar on Statistics in Applied Research and industry	UGC	Bangalore University 9 March 2000
7.	National Awareness Workshop on Remote sensing applications	ISRO	KUD 13-14 March 2000
8.	Workshop on syllabus revision for BBA (KU)	SJMVS	Business Administration College for Women, Hubli 19 March 2000
9.	Ninth International Workshop on matrices and Statistics	ISI, et. al	Hyderabad 9-13 Dec. 2000
10.	Workshop on Computer oriented Statistical Methods	UGC	KUD 19-24 March 2001
11.	One day MDP on Quantitative Techniques in Management	KLS	IMER, Belgaum, 9 Sept., 2001 (Resource person)
12.	National Conference on Recent Developments in Statistical	UGC	KUD 26-28 Feb., 2002

	Science		
13.	Workshop on Information and Communication Technology	UGC	KUD 17-18 March 2003
14.	National Training program in Human Rights Education for University Teachers	SICHREM	KUD 16-20 Aug 2004
15.	National Workshop on Nonparametric Methods	DST	Shivaji Univ. Kolhapur 2-3 Jan., 2005
16.	SSS Utsav	MGM	MGM College, Udupi 2-3 Dec 2005 (Resource person)
17.	NET / SET Coaching Workshop	DST	Shivaji University, Kolhapur 25 Feb 2006 (Resource person)
18.	Three Day National Seminar on Applied Probability	UGC	University of Mysore 20-22 March 2006
19.	Dwiteeya Kannada Vijnana Sammelana	SVAK	KUD 15-17 Sept., 2006
20.	National Workshop on Capacity Building for Women Managers in Higher Education	UGC	KUD 13-17 Nov., 2006
21.	One Day Workshop On Census Data Dissemination	DOCK	KUD 28 Nov., 2006
22.	Triadic National Seminar on Bhaskariyam, Bharatiyam – Dhan Wantariyam	SVAK	IHA, Bangalore, 22-24 Dec. 2006
23.	International Conference on Statistical Science, OR & IT in Conjunction with XXVI Annual Confession of ISPS	ISPS	Univ. of Kuppam Tirupati, 7 – 9 Jan., 2007
24.	International Hyderabad Symposium in Probability & Statistics	UGC	University of Hyderabad 17 – 19 Dec., 2007
25.	A workshop on Reliability & Simulation for Statistics Teachers in College		KUD 1 -2 March 2008

26.	National Workshop on Innovative Quality Practices Six Sigma & Robust Designs for e- business Excellence	DST	MSRIT Bangalore 10 – 14 March 2008
27.	International Conference on Quantitative Methods, Operations & IT (ICQMOIT)	IBS	IBS, Hyderabad 24 – 25 Oct., 2008
28.	Three Day National Seminar on Recent Development in Probability & Mathematical Statistics	UGC	University of Mysore 29 – 31 Oct 2008
29.	A National Seminar On Statistical Inference & Applications	UGC	Shivaji University, Kolhapur, 22 – 23 May 2009
30.	Workshop on Statistics	NIMS	NIMS,Bangalore, 20 Feb 2010 (Resource person)
31.	Science week program	Aca.Gen.Ed.	Scie. Asso. BKAS College, Kundapur, 6-3-2010 (Resource person)
32.	Two days state inter University symposium on enhancing research and teaching in statistics	VGST	Bangalore University, Bangalore, 29-30 March 2010
33.	Statistics day	NSSO	KUD (Resource person)
34.	National seminar on Women health and Development : Issues and Challenges	UGC	KUD 25-26 Feb 2011
35.	Two days workshop for faculty of KUD on Academic writing	UGC-ASC	KUD 26-27 April 2011
36.	International conference on Stat and Information Analytics (ICSIA-2011)		Loyola college, Chennai 25-27 Aug 2011
37.	National Conference on Advances in statistical Theory and Applications (ASTA-2011)	UGC & ministry of stat and prog. Impl.GOI of	Bangalore Univ. Bangalore, 16-18 Nov. 2011

		India	
38.	A National Seminar on Recent Developments in Statistical Modeling	UGC & DST	Shivaji University, Kolhapur, 12- 13 Oct 2012
39.	National Workshop on Reliability, Survival Analysis and Industrial statistics	University of Pune	University of Pune, 9-10 November, 2012
40.	National Seminar on Statistical Inference and Stochastic modeling	UGC-SAP	K U Dharwad, 15-16 March 2013
41.	Two-weeks capacity building program for social science faculty	ICSSR	K U Dharwad, 15-28, July 2013 (Resource person)
42.	A State level Seminar on Statistical Methods for Practice	UGC	St.Agnes College, Mangalore 30-31, Aug 2013 (Resource person)
43.	Workshop/Seminar on Probability and Statistics	Univ of Mysore	University of Mysore, Mysore 5-6, Nov 2013 (chaired contributory session)
44.	International conference on Statistics and Information Technology for a growing Nation In conjunction with XXXIV Annual Convension of ISPS.	UGC-SAP- DRS-I and DST-FIST	Sri Venkateswara University, Tirupati, 30 Nov-2 Dec 2014
45	Two days National Seminar on Statistical Inference and Stochastic modeling	UGC-SAP	K U Dharwad 27-28 February, 2015
46	National Seminar on Recent Developments in Applied Statistics	UGC	Balwant College, Vita, sangli 25-26 Sept, 2015 (Resource Person)
47	National Seminar on Recent Trends in Statistical Inference	UGC	SDM College, Ujire, 30-31 Oct, 2015 (Resource Person and

	and Data Analysis		chaired invited session)
48	International Conference on Celebrating Statistical Innovation and Impact in a world of Big and Small data.	IISA	Pune University, Pune, 20-24 Dec 2015 (Resource Person and chaired contributory session)
49	National Conference on Applied Statistics	UGC	Shivaji University, Kolhapur,11- 12, Mar 2016 (Resource Person and chaired contributory session)
50	International Conference on Recent Advances in Statistics	Dept of Statistics	Mumbai University, Mumbai, 27-29, June 2016
51	Two days National Seminar on Statistical Inference and Stochastic modeling	UGC	K U Dharwad 22-23 February, 2017
52	National Conference on Applied Statistics and Informatics	UGC	Shivaji University, Kolhapur,10- 11, Mar 2017(Resource Person)
53	International Conference on Theory and Applications of Statistics and Information Sciences(TASIS-2018)	ISPS and IBS  NBH and  CSIR	Bharathiar University, Coimbatore 5-7, Jan 2018 (Resource Person and chaired one contributory and one invited session)
54	National Seminar on Statistical Modeling and Applications	UGC	Shivaji University, Kolhapur,23- 24 Feb 2018
55	Refresher Course in Social Sciences	UGC	HRDC, KUD, 5 Mar 2018
56	National Seminar on Recent trends in Statistics(NSRTS)		University of Calicut, Calicut, 13- 15, March 2018
57	International Conference on Advances in Pure and Applied Sciences (ICAPAS)	DST-FIST and RUSA funded	Balwant College, Vita, Sangli, 5-6, Jan 2019 (Resource Person)
58	UGC sponsored National workshop on New trends on SQC, Reliability and R- programming		Acharya Nagarjuna University, Gunturu, 30-31, Jan 2019 (Resource Person)
59	Three Days Workshop on Statistical skills and research writing skills		Skill Development centre, KU Dharwad. 24-26, Sept 2019 (Resource Person)

60	National Seminar on Advances	DST-FIST	Shivaji University, Kolhapur,14-
	in Statistical modeling and	and UGC-	15 Feb 2020
	Inference (NSASMI-2020)	SAP-DRS-I	
61	International Conference on		Sadguru Gadage Maharaj College,
	Recent Advances in Statistics		Karad, Maharastra,11-12 Oct
	(ICRAS-2021) (Online)		2021(Resource person)
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# Refresher Course Attended

	Course	Date	Place
1.	School on Sample Survey	28 <sup>th</sup> Oct - 5 Nov., 1996	Calcutta
2.	UGC Refresher Course in Statistics (PG Level)	10 – 30 March, 1998	Stat – Math Unit, ISI Calcutta
3.	Refresher Course in Statistics	11 Nov. – 1 Dec. 2000	UGC – ASC, KUD
4.	Refresher Course in Statistics	14 Dec. – 02 – 03 Jan. 03	UGC – ASC, KUC

# Webinars:

sl.no.	Name of webinar	organizers	Date & Year	Topic	Туре
1	National Level	Bangalore	12-14 Aug 2020	Some aspects of	Invited
	Webinar on Statistical	University		Estimation	
	Inference and Related				
	Areas (SIARA)				
2	International webinar	ISPS	7-10 Sept 2020		Attended
	on Advances in				
	Statistics, data science				
	for sustainable human				
	development				
3	National Conference	NSO,	9-10 Feb 2021	U-Statistics for	Invited
	on Theoretical and	MoSPI,		two-sample	
	Applied Statistics	ĺ		•	
	(NCTAS-2021)	GOI and		scale problem	
		Bangalore			
		University			

# 21. Research Project completed

1. Minor research project as co investigator

Year	Title of the project	Fund.	Grant	Duration
		agency	sanctd.	
May 2009- Oct 2010	Estimation of Reliability in nonaccumula ting damage shock model(Successive shocks cause greater damage)  F No.36-362 2008 (SR) dtd. 31- 03-2009	UGC	1,05000	1-5-2009 to 31-10-2010

## 22. Research Publications:

- 1. 2022 Estimation of Process Capability in Bayesian Paradigm. International Journal of Engineering Technologies and Management Research (IJETMR). Vol 9, No. 7, pp 8-19.
- 2. 2021 R-posterior control charts for process variation. International journal of Research in Engineering and science (IJRES), Vol 9, Issue 6, Series 6, pp 14-33.
- 3. 2021 Class of tests based on subsample quantiles for two-sample scale problem. Asian journal of probability and statistics (AJPAS), Vol. 12, No.1, pp 20-33.
- 4. 2021 Range based posterior average control chart. Stochastic modeling and applications. Vol. 25, No.1. pp 189-203.
- 5. 2020 Classes of nonparametric regression tests, IJAMS, Vol 3, 1, pp 1-13.
- 6. 2020 A class of outlier resistant two-sample scale tests. RJMSS. Vol 8, No.1, pp 6-15.
- 7. 2019 A general class of nonparametric tests for two-sample scale problem. JISA, Vol 57, No.1, pp 41-58.
- 2019 Classes of nonparametric tests for two-sample scale problem. IJMSEA. Vol 13, No 2, pp 17-35.
- 9. 2019- A generalized class of varying kernel regression estimators IJCTS. Vol.6, No.2, pp.155-163.

- 2019-A class of two-sample scale tests based on U-statistics- IJR Granthalaya, Vol.7,
   No.9, pp.138-147.
- 11. 2019- Distribution-free tests based on subsample maxima or minima for two- Sample scale problem. BOMSR, Vol.7, No.3, pp.20-35.
- 12. 2019- A class of tests for testing parametric regression against non-parametric alternatives IJCAR. Vol. 8, No.4, pp.17166-17173.
- 13. 2019- A test based on half range for nonparametric regression IJSRMSS, Vol.6, No.1, pp. 294-302.
- 14. 2019- Random design kernel regression estimator IJASS, Vol.15, No.1, pp.11-17.
- 15. 2018- A class of regression estimators for fixed designs. IJRAR,Vol 5. No.3, pp. 677-686.
- 2018- A class of outlier resistant tests for two-sample scale problem. IJASS. Vol. 14,
   No. 2, pp. 455-463.
- 17. 2017 Bayesian S and S<sup>2</sup> control charts for process variation. IJASS, Vol. 13, No.1, pp. 33-42.
- 18. 2016 Process average posterior control charts with mixture of several normal priors, KUJS, 50. Pp. 66-73.
- 2016 Posterior control chart for standard deviation based conjugate prior. JISA, Vol.54, pp 157-166.
- 20. 2015 Bayesian control chart for Process average when prior distribution is a mixture of two normal distributions. K U Journal of Science, 50. Pp. 5-13.
- 2014 Posterior control charts for Process Variance based on various priors. Journ ISPS,
   Vol. 15, pp 52-66.
- 22. 2014 Posterior control chart for process average under conjugate prior distribution. Econ Qual.Cont. Vol 29, No.1, pp.19-27.
- 23. 2013 Identities emerging from two-sample U-statistics. Jour.Ker.Stat.Assoc, vol.24, pp. 1-11.
- 24. 2011 Reliability estimation in shock model when successive shocks cause greater damage (Non-accumulating damages) Res.Jour.Math.Stat, Vol.3, No.1 pp. 61 66.
- 25. 2010 Estimation of Reliability in non accumulating damage shock model. Arya.Jour.Math.Inform, vol.2, pp175-182.

- 26. 2010 A Convex linear combination of any two U-statistics. Arya.Jour.Math.Inform, vol.2, No.2, pp291-294.
- 27. 2010 Empirical power of two sample distribution free tests under mixture of distributions. MASA, Vol. 5, No.1. pp. 21- 29.
- 28. 2009 Null distribution and empirical power of generalized class of two sample distribution-free tests. Jour.Ker.Stat.Assoc, 2009, vol.20. pp. 54-62.
- 29. 2009 A new approach to the notion of sample quantiles IJASS, Vol. 5, No. 2, pp. 335-340.
- 30. 2009 Simple k-sample rank tests for Umbrella alternatives RJMS, Vol. 1, No.1 pp. 27 29.
- 31. 2008 A most general class of distribution free tests for two sample location problem. IJASS, Vol. 4, No. 2, pp 325 338.
- 32. 2008 A note on two simple efficient tests for testing exponentially against increasing failure rate alternatives. IJASS, Vol. 4, No.1, pp. 163 168.
- 33. 2008 A class of k sample distribution free tests for the umbrella alternatives. IJASS, Vol. 4, No. 1, pp. 53 61.
- 34. 2007 A general and more general classes of distribution free tests for ordered location alternatives. IJASS, Vol. 3, No. 2, pp. 319 335.
- 35. 2007 A note on the asymptotic covariance between the two sample U statistics. ASR Vol. 21, No. 2, pp. 249 253.
- 36. 2006 A funicle relationship between a simple laya sutra and some math stat concepts.
   Sastra Trayi. pp. 122 124.
- 37. 2006 The idea of infinity in statistics. Sastra Trayi. pp. 77 78.
- 38. 2004 06 A class of distribution free tests based on linear combination of U statistics for two sample location problem. Jour. K.U. Sci. Vol. 45 46. pp. 76 89.
- 39. 2004 06 A numerical study of the efficacy of certain classes of distribution free tests for two sample location problem. Jour. K.U. Sci. Vol. 45 46. pp. 59 75.
- 40. 2005 Linear combinations of U-statistics for one-sample location problem. Proc. Vol.
   Nat. Sem on recent developments in Stat.Sci. pp.98-106
- 41. 2004 Statistics is inevitable for higher studies in social science. Proc. Nat. Sem. On higher education in India emerging challenges. Pp. 155-160

- 42. 2003-2004 A distribution free test for ordered location alternatives. Jour KU Sci. Vol. 44.pp 29-37
- 43. 2003 A class of outlier resistant distribution free tests for testing homogeneity against ordered scale alternatives. Comm. Stat. Theory and Methods. Vol.32. No.2. pp.347–379
- 44. 2002 A note on the performance of sign test as a goodness of fit test. ASR, Vol.16. pp.120-123
- 45. 1998 A class of distribution free tests for testing homogeneity against ordered location alternatives. Comm.Stat.Theory and Methods. Vol.27, No.3. pp. 747 760.
- 46. 1997 A general class of two sample nonparametric tests based on sub-sample quintiles. Jour. KU. Sci. Vol.41.pp.104-125
- 47. 1997 A distribution-free test for umbrella alternatives based on sub sample medians. Jour. KU. Sci. Vol.41.pp.86-94.
- 48. 1994 A note on the generalization of Mathisen's median test. SPL. Vol.19.pp.199-204.
- 49. 1993 Some competitors of Mood's median test for the location alternative. Jour. KU.Sci. Vol.37, pp.138-146.
- 50. 1993 A class of distribution –free test for the two- sample scale problem. Proc. II Int. Symp.Opt.and Stat.pp.91-96.

### **Publications in Kannada:**

- 2009 Nambalarhata vadatatwa hagoo sankhyashastradalliya asaphalata madarigalu. KANAADA(a Kannada Science Journal published by NAL).Vol. 35. pp.47-51( the article fetched Masti Venkatesh Iyyangar memorial prize ).
- 2006 Anantateya parikaplane hagoo sankhyashastradalli athera pariganane. Suvarna Karnataka Publication of KANADA Vol.32.pp.41-43.
- 2006 Sankhyashastradallina halavu notagala Melina kshanika darhana. Proc. Sec. Kan. Vijanana Sammelana.
- 4. 2006 Vividha Shastragala adhyayanadalli Sankhyashstrada patra. Proc. Sec. Kan. Vijnana Sammelana. pp. 42-46.
- 5. 1994 Antarastreeya khyatiya Sankhya shastrajna Prof. B.R. Bhat. KASTURI (Kannada Monthly). Nov. pp. 97 104.

### **Book Publications:**

1. 2011 – Vitarana swatantra pratidarshakagalu, Mantapamale-271, Prasaranga, Kannada Vishwavidyalaya, Hampi, ISBN 978-93-81645-08-6.

## 23. Refereeing work done:

- 1. 2012, 2014 Karnataka Journal of Agricultural sciences, UAS Dharwad.
- 2. 2012 Journal of Shivaji University (Science).
- 3. 2020, 2021 Thailand Statistician
- 4. 2021 Asian Journal of Probability and Statistics
- 5. 2021 International Journal of Agricultural and statistical Sciences
- 6. 2021 Journal of Advances in Mathematics and Computer Science

## 24. Radio Talk (Science talk of Statistics):

1. 24-2-2006: Infinity – Is it a myth? AIR, Dharwad.