Shri Shivaji College of Arts, Commerce and Science, Akola

Faculty Profile



1. Name : Dr. Shrikrishna Bhimrao Sawarkar

2. Address (residential) : Flat No. F-3, Siddhivinayak Empire, Kela Plots, Near Ice

Factory, Jatharpeth, Akola

3. Phone No. / Cell No. : 0724-2491098

4. E-mail address : sawarkarsir@yahoo.com

5. Designation : Assistant Professor

6. Department : Physics

7. Date of birth : 23/ 08/ 1963

8. Area of specialization : Digital Electronics and Solid State Physics.

9. Academic qualification

Examination passed	Board/ University	Subject/ Specialization	Year of passing	Division/ Grade/ Merit
B.Sc.	Nagpur	Physics, Mathematics, Chemistry	1984	First
M.Sc.(Physics)	Amravati	Physics	1986	First
B.Ed.	Amravati		1992	First
M. Phil.	Amravati	Advanced Electronics, Materials Science, Research Methodology	1999	
Ph.D.	Amravati	Depolarization Study of Lead Borate Glasses using Thermally Stimulated Discharge	2002	

10. Membership of Academic Organizations:

- 1. Indian Society for Technical Education, New Delhi.
- 2. Indian Association of Physics Teachers, Kanpur.
- 3. Nagpur University Teachers Association.
- 4. Materials Research Society of India (MRSI), Bangalore.
- 5. The Indian Science Congress Association, Kolkata.
- 6. Amravati University Physics Teachers Association
- 7. Maharashtra Rajya Shikshak Parishad

11. Research Experience

a) Guiding M. Sc. Dissertation : 4

c) Publishing research papers.

A) Publications in Journals (07)

1)) "Depolarization study of semiconducting glasses using thermally stimulated discharge" Indian Journal of Pure & Applied Physics (April 1997), **Vol. 35**, 281-289, (ISSN: 0019-5596).

- 2) "Thermally stimulated discharge conductivity of PVC thin film" Indian Journal of Engineering & Material Science (Oct 2002) Vol. 9, 375-382 (ISSN: 0971-4588).
- 3) "Thermally stimulated discharge current (TSDC) and dielectric constant of semiconducting gasses" Bulletin of Material Science (February 2003), Vol. 26 No. 2, 267-271 (ISSN: 0250-4707).
- 4) "Role of spider in agroecosystem", The Ecosphere (November 2011), **Vol.2 No.1 & 2**, 47-50. ((ISSN: 0976-1578).
- 5) "Origin and properties of dragline silk of Nephila pilipes", Journal of Biological and Physical Sciences ((November 2012), **Vol. (IV)**, 45-47, (ISSN: 2319-636X).
- 6) "Nonlinear absorption of L-arginine capped ZnO nano-suspension, International Journal of Basic and Applied Research Special (Jan. 2014), **Vol.04**, 49-52 (ISSN: 2249-3352; online 2278-0505).
- 7) "Biochemical analysis of major ampullate silk of *Nephila pilipes* with FTIR spectroscopy," Asiatic Journal of Biotechnology Resources (Jan. 2014), **Spl 11 Vol.4(4)**, 66-68, 2249-2399; eISSN 0976-4992.

B) Publications in Conferences/ Seminars Proceedings (Published-04)

- 1) "Thermally stimulated discharge current in lead borate glasses" IEEE Proceedings of XX ISDEIV International Symposium on discharges and electrical insulation in Vacuum (30 June 05 July, 2002 ETI De. Tours-France)
- 2) "Nanotechnology and Indian agriculture" National Seminar on Photonic Materials and Nanotechnology, 23 January-24 January, 2009, Department of Physics, Electronics and Photonics, Rajarshi Shahu Mahavidyalaya, Latur
- 3) Proposal to save environment" Interdisciplinary State Level Symposium on Women's Role in Conservation of Environment, 30 December, 2009, S.S.S.K.R. Innani Mahavidyalaya, Karanja-Lad (Washim).
- 4) "Fireworks: One of the most unusual sources of pollution" National Conference on Climate Change & Its Consequences, 12 January-13 January, 2010, Bhartiya Mahavidyalaya, Amravati

C) Papers Presented in Conferences/ Seminars/Symposium cum Workshops (24)

- 1) "Transport properties of Zinc doped lead borate gasses" National Conference on Recent Trends in Composites, 28 February -2 March 2001, Department of Physics, Shri Shivaji Science College, Amravati.
- 2) "Fortran in physics laboratory" State Level Seminar on Recent Trends in Teaching Basic and Applied Sciences, 03 January, 2009, Phulsing Naik Mahavidyalaya, Pusad (Yavatmal).
- 3) "Inexpensive laser wavelength determination kit" State Level Seminar on Recent Trends in Teaching Basic and Applied Sciences, 03 January, 2009, Phulsing Naik Mahavidyalaya, Pusad (Yavatmal).
- 4) "Improving laboratory instructions" State Level Seminar on Recent Trends in Teaching Basic and Applied Sciences, 03 January, 2009, Phulsing Naik Mahavidyalaya, Pusad (Yavatmal).
- 5) "Biometric supported ATM banking" National Seminar on Information Technology Enabled Services-2009, 11 April, 2009, Shri Shivaji College of Arts, Commerce, Akola.
- 6) "The Impact of Mathematics on Biology" State Level Seminar in Mathematics on Expanding Wings of Mathematics in the Field of Science & Social Sciences, 04 January, 2010, Shri R.L.T.College of Science, Akola.
- 7) "Effects of idol immersion on some water quality parameters of Morna river", National Level Seminar on Water, Energy, Environment & Society, 30 January, 2010, Phulsing Naik Mahavidyalaya, Pusad (Yavatmal).
- 8) "Restoration of forest ecosystem in katepurna wildlife sanctuary, Akola"National Level Seminar on Water, Energy, Environment & Society, 30 January, 2010, Phulsing Naik Mahavidyalaya, Pusad (Yavatmal).
- 9) "Synthesis, growth and characterization for urea phosphate doped KDP single crystals for their NLO applications" National Seminar on "Current Trends in Physical Sciences & Electronics Research, 28 March, 2010, Shri Shivaji College of Arts, Commerce & Science, Akola.
- 10) "Study of physical properties of lead borate glasses" National Seminar on Current Trends in Physical Sciences & Electronics Research, 28 March, 2010, Shri Shivaji College of Arts, Commerce & Science, Akola.
- 11) "Development of CO₂ Gas Sensor Instrumentation using Soft Molecular Electronics" National Conference on "Nanoscience and Technology", 21 Feb-22 Feb 2011, Shri Shivaji Education Society's Science College, Nagpur.
- 12) Role of Spider in Agroecosystem" National Conference on "Advances in Life Sciences for Sustainable Rural Development", 11 Oct-12 Oct, 2011, Shankarlal Khandelwal College, Akola. 13) "Dr. Ambedkar and Buddha's path to equality" Interdisciplinary International Conference on "Dr. Ambedkar's Buddhism and its Emancipatory Potential", 27 Jan-28 Jan 2011, Shri Shivaji College of Arts, Commerce & Science, Akola.

- 14) "The Form and Function of Orb Web of Spider *Nephila pilipes*" National Conference on "Innovative Research Trends in Biological Sciences", 8 Sept- 9 Sept, 2012 Shri Shivaji College of Arts, Commerce & Science, Akola.
- 15) "Impact of Climate Change on Agriculture" Interdisciplinary National Seminar on "Impact of Climate Change on Agriculture Production in India", Oct. 6, 2012, Shri Shivaji College of Arts, Commerce & Science, Akola.
- 16) "Mahatma Gandhi's Vision of Rural Development" Interdisciplinary International Conference on "Relevance of Dr. Babasaheb Ambedkar, Mahatma Gandhi and Pandit Nehru's Ideology in the Present Scenario", 29 Oct-30 Oct, 2012, Shri Shivaji College of Arts, Commerce & Science, Akola.
- 17) "Origin and properties of dragline silk of Nephila pilipes" II Word Congress for Man & Nature-2012 on "Global Change: Impact on Biodiversity, Culture & Technology", 3 Nov-5 Nov., 2012, Sevadal Mahila Mahavidyalaya, Nagpur.
- 18) "Microstrip patch antenna for 1900 MHz band" National Conference on "Recent Initiatives towards Green Electronics", 8 Feb 9 Feb, 2013, Brijlal Biyani Science College, Amravati.
- 19) "Effect of capping agents on the particle size of ZnO quantum dots", National Conference on "Upcoming Trends in Chemical Science", 6 Sept-7 Sept., 2013, Shri Anand College of Science, Pathardi –Ahmednagar.
- 20) "Nonlinear absorption of L-arginine capped ZnO nano-suspension", National Conference on "Materials Science: Trends and Future', 10-11 Jan., 2014, Bhartiya Mahavidyalaya, Amravati.
- 21) "Biochemical analysis of major ampullate silk of *Nephila pilipes* with FTIR spectroscopy", State level Seminar on "Exploration of Biochemistry and Molecular Biology for Betterment of Human Life", 29 Jan. 2014, Arts and Science College, Pulgaon-Wardha.
- 22) "Effect of PVP as capping agent on the optical properties of ZnO nanoparticles)", National Conference on "Recent Trends in Mathematics, Physics & Their Applications", 19 March, 2014, Shankarlal Khandelwal College, Akola.
- 23) "X- ray diffraction study of egg sac silk of *Nephila pilipes* (Araneae: Nephilidae)", National Conference on "Recent Trends in Mathematics, Physics & Their Applications", 19 March, 2014, Shankarlal Khandelwal College, Akola.
- 24) "AFM study of dragline silk of *Nephila pilipes* (Araneae: Nephilidae)", National Symposium Cum Workshop on "Diversity of Spiders with Special Reference to Taxonomy and Molecular Systematics", 26-29 Nov. 2014, Shankarlal Khandelwal College, Akola.

12. Seminars/ Conferences/ Symposia/ Conferences/Orientation/Refresher Courses attended and organised:

Sr.	Name of the Conf./Seminar/	Place and Name of the	Place and	Paper
No.	Workshop etc	Sponsoring Agency	Date	Presented/
	1			Attended
1	Indian Society for Technical	Shri G.S. Institute	Indore,	Attended
	Education, XXII Annual	Technology & Science,	Dec. 26-28,	
	Convention.	Indore.	1992	
2	II National Conference on	S.S.G.M. College of	Shegaon	Attended
	Educational Technology for	Engineering,	(Buldana)	
	Higher Technical Education and	Shegaon(Buldana).	Jan. 22-23,	
	Training.		1994	
3	Induction Phase I Training	Govt. Polytechnic, Amravati.	Amravati,	Attended
			Nov. 02-	
			27,1998	
4	Induction Phase II Training	Govt. Polytechnic, Amravati.	Amravati,	Attended
			Oct. 12-	
			Nov.06,	
			1999	
5	National Conference on Recent	U.G.C.	Amravati,	Paper
	Trends in Composites	P.G. Department of Physics	Feb 28-	Presented
		Shri Shivaji Science College,	Mar 02,	
		Amravati	2001	
6	National Conference on Lasers	U.G.C.	Amravati,	Attended
	and Their Applications	Department of Physics,	Jan 28-30,	
		Amravati University,	2004	
		Amravati		
7	International Conference on	U.G.C.	Amravati,	Attended
	Relativity	P.G.T.D. of	Jan. 11-14,	
		Mathematics, Amravati	2005	
		University, Amravati		
8	Workshop on Scope &	Department of Physics,	Amravati,	Attended
	Limitations of B.Sc. III (Physics)	Amravati University,	Jan. 30,	

National Conference on Luminescence & Its Applications S.G.B.Amravati University, 2006 Materials Department of Chemistry, 2006 March 30 Magpur, 2007 Magpur March 30 Marc		Syllabus	Amravati	2005	
Amravati 2006 Attender Materials Materials Department of Chemistry, Nagpur Feb. 12, 2007 Sept. 12, 2007 Attender Nagpur Feb. 12, 2007 Marchials Marc	9	·	U.G.C.	Amravati,	Attended
National Seminar on Advanced Materials		Luminescence & Its Applications	S.G.B.Amravati University,	Feb.07-09,	
Materials			Amravati	2006	
National Seminar on Information Technology Enabled Services- 2009 Paper Curieval in Contemporary Universities: Challenges and Innovations and Convention of Physics Teachers (Physics) Tutor Seciences (Physics) Physics Teachers (Physics) Philosophy and Indian Economic	10	National Seminar on Advanced	Department of Chemistry,	O1	Attended
Workshop on "Development & Implementation of Question Bank" U.G.C. So.G.B. Amravati University, Amravati University, Amravati University, Amravati University, Amravati University, Nagpur University,		Materials	R.T.M. Nagpur University,		
Implementation of Question Bank"				2007	
Bank" U.G.C. Sponsored 59th Orientation Programme	11	Workshop on "Development &	U.G.C. S.G.B.Amravati	Amravati,	Attended
12 U.G.C. Sponsored 59th Orientation Programme			University, Amravati		
Orientation Programme				31, 2007	
University, Nagpur	12				Attended
13 National Seminar on Current Trends in Chemical Sciences Research Commerce & Science, Akola Aktended Applied Sciences Commerce & Science, Akola Cyavatmal) Paper Presente P		Orientation Programme			
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State Level Seminar in Mathematics on "Expanding Wings of Mathematics in the Field of Science & Social Sciences". Department of Mathematics, Shri R.L.T.College of Science, Akola Sciences". Shri R.L.T.College of Science, Akola Sciences". Shri R.L.T.College of Science, Akola Sciences". U.G.C. CSIR Materials Science : Trends & Future-2010". Matoinal Level Seminar on "Water, Energy ,Environment and Society". U.G.C. Pusad (Yavatmal) Paper Presente Present		Policy in the Global Scenario".	· · · · · · · · · · · · · · · · · · ·		
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	25	A Seminar on "Current	Shri Shivaji Science College	Amravati	Attended
Challenges in Physics Education", Amravati April 25,		Challenges in Physics Education"	, Amravati	April 25,	

	and Annual Convention of AUPTA		2010	
26	National level Conference on "Developing Frontiers of Physics, Astronomy & Space Sciences"	U.G.C. Department of Physics & Mathematics, Shri R.L.T.College of Science, Akola	Akola, Sept 24-25, 2010	Attended
27	National Conference on "Nanoscience and Technology"	U.G.C. Department of Physics, Shri Shivaji Education Society's Science College, Nagpur	Nagpur, Feb. 21- 22, 2011	Paper Presented
28	State Level Workshop on "Research Methodologies in Science"	U.G.C. Shankarlal Khandelwal College, Akola	Akola, Feb. 26, 2011	Attended
29	National Seminar on "Mahatma Gandhi & Pt. Jawaharlal Nehru's Thoughts on Socio-economic and Political Issues."	U.G.C. Shri Shivaji College of Arts, Commerce & Science, Akola	Akola, Feb. 28, 2011	Attended
30	National Conference on "Advanced Technologies in Material Science & Their Applications"	U.G.C. Department of Physics & Chemistry, Arts, Commerce & Science College, Arvi Dist- Wardha	Arvi (Wardha), March 06, 2011	Attended
31	U.G.C. Sponsored National Conference on "Advances in Life Sciences for Sustainable Rural Development"	U.G.C. Department of Microbiology and Zoology, Shankarlal Khandelwal College, Akola	Akola Oct. 11-12, 2011	Paper Presented
32	National Seminar on "Current Trends in Material Science-2011"	Department of Physics, Shri Dr.R.G. Rathod Arts & Science College, Murtizapur	Murtizapur , Dec. 03, 2011	Attended
33	Regional level Interdisciplinary Workshop on "Research Methodology"	Department of Commerce & Management, Takshashila Mahavidyalaya Amravati	Amravati, Dec.30, 2011	Attended
34	Workshop on "Information and Technology Training"	Shri Shivaji College of Arts, Commerce & Science, Akola	Akola , Jan.16, 2011	Attended
35	U.G.C.Sponsored Interdisciplinary International Conference on "Dr. Ambedkar's Buddhism and its Emancipatory Potential	Shri Shivaji College of Arts, Commerce & Science, Akola	Akola , Jan. 27-28, 2011	Paper Presented
36	Workshop on "Sant Gadge Baba's Dashasutri and Rashtrasant Tukdoji Maharaj's Gramgeeta"	Shri R.L.T.College of Science, Akola	Akola , Feb.7, 2012	Attended
37	National Seminar on "Technological Innovations with Environmental Integrity"	HVPM"s College of Engineering and Technology, Amravati	Amravati Feb 28, 2012	Attended
39	National Conference on "Role of Basic Sciences in Emerging Industrial Scenario"	Prof. Ram Meghe Institute of Technology and Research, Badnera, Amravati	Amravati Mar. 08, 2012	Attended
40	National Conference on "Lasers and Advanced Materials".	S.G.B. Amravati University, Amravati	Amravati May 29-30, 2012	Attended
41	National Conference on "Innovative Research Trends in Biological Sciences"	Shri Shivaji College of Arts, Commerce & Science, Akola	Akola Sept 08-09, 2012	Paper Presented
42	Interdisciplinary National Seminar on "Impact of Climate Change on Agriculture Production in India"	Shri Shivaji College of Arts, Commerce & Science, Akola	Akola Oct. 6, 2012	Paper Presented
43	Interdisciplinary International Conference on "Relevance of Dr. Babasaheb Ambedkar, Mahatma Gandhi and Pandit Nehru's Ideology in the Present Scenario	Shri Shivaji College of Arts, Commerce & Science, Akola	Akola Oct. 29-30, 2012	Paper Presented

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44	II Word Congress for Man & Nature-2012 on "Global Change:	Sevadal Mahila Mahavidyalaya, Nagpur	Nagpur Nov.3- 5,	Paper Presented
	Impact on Biodiversity, Culture & Technology"		2012	
45	National Conference on "Recent	Brijlal Biyani Science	Amravati	Paper
	Initiatives towards Green Electronics"	College, Amravati	Feb 8–9, 2013	Presented
46	18 th One Day Physical Education	Shri Shivaji College of Arts,	Akola	Attended
	Teachers conference	Commerce & Science, Akola	Mar. 17, 2013	
47	Workshop on "Effective	Shri Shivaji College of Arts,	Akola	Attended
	Communication Skills in English for Senior College Teachers"	Commerce & Science, Akola	Apr 5-13, 2013	
48	Workshop on "Information and	Shri Shivaji College of Arts,	Akola	Attended
	Communication Technology"	Commerce & Science, Akola	April 5-20, 2013	
49	National Conference on	Shri Anand College of	Pathardi	Paper
	"Upcoming Trends in Chemical Science"	Science, Pathardi (Ahmednagar)	Sept. 6-7, 2013	Presented
50	Orientation Workshop on "Eyes	Shri Shivaji Science College,	Amravati	Attended
	on ISON", Comet of the century.	Amravati	Oct. 19,	
	,		2013	
51	National Conference on	Bhartiya Mahavidyalaya ,	Amravati	Paper
	"Materials Science: Trends and Future'.	Amravati	Jan., 10-11, 2014	Presented
52	State level Seminar on	Arts and Science College,	Pulgaon	Paper
	"Exploration of Biochemistry and Molecular Biology for Betterment	Pulgaon (Wardha)	Jan. 29, 2014.	Presented
	of Human Life".		2014.	
53	National Conference on "Recent	Shankarlal Khandelwal	Akola	Paper
	Trends in Mathematics, Physics & Their Applications"	College, Akola	March 19, 2014	Presented-2
54	National Level Two Days	Shri Shivaji Science College,	Amravati	Attended
	Laboratory Workshop On Physics	Amravati	June 27-28,	
	For UG Teachers		2014	
55	Workshop on "Spectroscopic &	Shri R.L.T.College of	Akola	Attended
	Stereospecific Perspectives of Chemistry"	Science, Akola	Oct. 2, 2014	
56	National Symposium Cum	Shankarlal Khandelwal	Akola	Paper
	Workshop on "Diversity of	College, Akola	Nov. 26-	Presented
	Spiders with Special Reference to Taxonomy and Molecular		29, 2014	
	Systematics"			
57	Short Term Course in Nano	U.G.C. Academic Staff	Amravati	Attended
	Biotechnology (For all Science	College,S.G.B. Amravati	Dec. 15-20,	
	Subjects-ID)	University, Amravati	2014	

13. Research Projects Completed / Ongoing:

Sr.	Title of the project	Name of the	Duration	Remarks
No.		funding agency		
1	Conductivity and Thermally Stimulated	University Grants	Two	Completed
	Discharge Current Studies in Semi	Commission (Rs. 1,10,000/-)	Years (2009-11)	
	conducting Glasses.			
2	Study of Web Architecture, Silk, Silk	University Grants	Two	Ongoing
	Glands and Spinnerets of Giant Wood	Commission (Rs. 1,35,000/-)	Years (2013-15)	
	Spider, Nephila pilipes. (Co-Investigator)			

14. Teaching Experience:

Courses Taught	Name of the University/ College/ Institution	Duration
UG	Shri. Shivaji College Of Arts, Commerce & Science,	10 Years
	Akola	
PG	Shri. Shivaji College Of Arts, Commerce & Science,	
	Akola	7 Years
Diploma Courses	Vidarbha Youth Welfare Society's Polytechnic Badnera	18 Years &
in Engineering	(Amravati)	4 Months

15. Innovations/ Contributions in Teaching:

- a. Design of Curriculum:-
 - Worked as a member of curriculum restructuring committee for design of curriculum of Government Polytechnic, Amravati (Autonomous Institute of Govt of Maharashtra).
- b. Teaching Methods:
 - i) Use of Lecture method, Laboratory method, Project method, Group discussion, Seminar etc. for effective teaching and learning.
 - ii) Topics from unit are announced in advance for discussion in the class so that students can refer text books ,reference books & keep themselves ready for lectures.
 - iii) Use of audio visual teaching aids like LCD/DLP projectors, CDs, etc.
- c Laboratory Experiments:-
 - Setting of new experiments, preparation of study boards (Modules) for conducting practicals.
- d) Preparation of resource materials:-
 - Preparation of Unit wise notes, laboratory manuals
- e) Remedial teaching
 - Special guidance to weak students/ poor students during free time.
- f. Extension activities/ consultancy/ community works:
- i) Worked as a examiner for Tahasil, Distict, Regional and State Level Science Exhibitions.
- ii) Worked as a Presiding/Polling officer for ZP/Panchayat samiti, Assembly and Loksabha Elections.
 - iii) Donations to CM relief funds, Shri Shivaji Education Society, Amravati and Flag Day Fund, contribution to poor boys fund and fund for awarding prizes to students.

16. Role in college activities:

16. Role in college activities:

- a) Working as a Co-ordinator for Student's Teacher Guardian Scheme since 2007.
- b) Organization of functions of Hiroshima day and National science day every year
- c) Member of admission committee for UG &PG, admission register verification committee, Student attendance committee, Prize distribution committee. Science Exhibition committee, committee for coaching classes for entry level in services, Poor Student Fund committee, felicitation committee
- 1. The department has successfully organized UGC Sponsored National Seminar in "Current Trends in Physics and Electronics" on 28th March 2010. Dr.S.B.Sawarkar, Physics was Organizing Secretary of the National Seminar.
- 2. On the eve of Golden Jubilee Year of Shri Shivaji College, Akola, Department of Physics has organized District level "National Science Day" on 28th February2013. A series of science-related events were organized by our college which included Guest lectures by eminent personalities, Essay competition, Debate competition, and Poster competition on the national theme "Genetically Modified Crops and Food Security". Asst. Prof. Dr.S.B.Sawarkar, Physics dept, was member of organizing committee for this activity.
- 3. Department of Physics has organized "Intercollegiate Seminar competition for Physics students" on 29th Dec2013 for SGB Amravati University Students . Asst. Prof. Dr.S.B.Sawarkar, was a member of registration committee for the seminar.
- 4. Second Shivaji Vidnyan Parishad and Science Exhibition" of Shri Shivaji Shikshan Sanstha, Amravati and Homi Bhabha Centre for Science Education (HBCSE), Tata Institute of Fundamental Research (TIFR), Mumbai, was organized during 20-22December 2014, on the occasion of 116th Birth Anniversary of "Dr. Panjabrao Alias Bhausaheb Deshmukh at Shri Shivaji College of Arts, Commerce and Science, Akola. Asst. Prof. Dr.S.B.Sawarkar, Physics was a member of Transport, & Accommodation, Photography Committee for Second Shivaji Vidnyan Parishad.
- 5. Participated in Social Indebtedness programme Fund 10-1-2015.

17. Role in university activities:

- i) Internal and external examiner for conducting University practical examinations.
- ii) Paper setter and Valuer for assessment of answer books of University /College test examinations.

- iii) Invigilator for University and College Test examinations.
- iv) Participation in activities organized by University such as conferences, workshops and seminars etc.
- iv) Worked as a Subject expert and Vice-Chancellor's nominee on the selection committee's for the appointment of Lecturer/ Assistant Professors