

CURRICULUM VITAE

DR. S. K. OMANWAR
Professor
Department of Physics
Sant Gadge Baba Amravati University
Amravati

Contents

SN	Particulars	Remarks	Page
1	Name	Dr. S. K. Omanwar	3
2	Address	104-B, Sai Bhakti Samartha Colony, Amravati	3
3	Subject	Physics	3
4	Designation	Professor	3
5	Qualification	Ph.D. at the age of 25 years.	3
	Academic Record	Throughout first class with Distinction and gold medals	3
6	Teaching Experience	23 + years	4
	Administrative Experience	20+ years	4-5
7	Research Experience:	27 Years	5
8	Research Publications		5
	A Numeric Data	93 publications	5
	B International Journals	22 articles/papers	5-6
	C International Conferences proceedings/books	17 articles/papers	6-7
	D National Conferences/ seminars/ symposia	43 articles/papers	8-10
	E Invited talks	11 presentations	10
	F Chairing of Sessions	5 sessions/events at national level	10
	G Panel discussion	1 session at national level	11
	H Research Guidance	10 students	11
	I Research scholars	9 scholars	11
	J Research Projects	Completed 5, Defended 1, ongoing 2	11-12
9	Honors/ Prestigious Appointments/Awards of own contribution	12	12-13
	International Level	1	
	National Level	6	
	State level	3	
	University Level	2	
10	Participation		
	i. International conferences	5	13
	ii. National Conferences	26	13-14
	iii. Orientation Courses	2	15
	iv. Refresher courses	1	15
	v. Workshops	11	15
	vi. As a Recourse Person events	24 events	15-16
11	Extension Activities	6 sessions	16
12	Contribution to Academic Environment		
	A Responsible Positions Held In Academic Committees	27 positions	16-17
	B Worked as expert for interview/ assessment/ guidance	53 times	17
	C Worked as examiner for the Other Universities	7 times	17
	D Worked as a Member on Committee for examinations of this University	9 times	18
	E Membership of professional bodies	9 bodies life memberships	18
	F Membership of Libraries / academic bodies	5 bodies.	18
	G Social Bodies/Activities	3 life memberships	18
	H Departmental work/Achievements	11	18
	I Organizational Contribution: National Seminars/Conferences/Workshop	21	19
13	Made Academic Excellence of Students		19
	i. Special efforts to guide the students	9	19
	ii. Teaching methods adopted	15	20
	iii. Contribution in Administration of University/Departments	11	21
	iv. Admission	4 sessions	21
	v. Extra Mural Activities		21
	vi. Helped in Management by following activities/ Various Competitions	33	21-22

CURRICULUM VITAE OF DR. S. K. OMANWAR

- 1) Name of Teacher : Dr. Shreeniwas K. Omanwar
- 2) Name of Department & Address : Department of Physics,
Sant Gadge Baba Amaravati University
Near Tapowan, Amaravati-444 602 (M.S.)
- 3) Subject : Physics
- 4) Designation : Professor
- 5) Qualification : M.Sc., Ph. D.
(% marks at P.G. level : 74.8 % (748/1000) 1982 Rank Second
Notification No. & Date : Ph. D. thesis Submitted 14/12/1985
for award of Ph.D. Degree) Awarded 11/07/1987

ACADEMIC RECORD

S N	Certificate / Degree	Board/ University	Year of passing	Division / % of Marks	Major Subjects	Awards/ Remarks
1	Ph.D.	Nagpur University Nagpur	Submitted 14/12/85 Awarded. 11/07/87		“Interaction Between Dislocations & Colloid Centres In Alkali Halides” Radiation Physics & Luminescence.	Thesis Award at NS on SSP by BRNS, DAE. (Dec.1985)
2	M.Sc.(Phys)	Nagpur University Nagpur	1982	First 74.80	Specialization in Dig. Elect, Microprocessor & Sol. St. Physics	Distinction in Specialization S.S.P.&D.E.&MP and University Merit Rank-2
3	B.Sc.	Nagpur University Nagpur	1980	First 70.67	PHYS.,CHEM., MTH.,	Distinction in Chemistry & University Gold Medal
4	H.S.C.(XII)	M.S. Board Nagpur Division	1977	First 60.00	PHYS.,CHEM., MTH.,BIO., MAR.,ENG.	Distinction in Physics.
5	S.S.C.(X)	M.S. Board Nagpur Division	1975	First 66.42	SCI., MTH., SOC.SCI., ENG,MAR	Distinction in Mathematics.

6) Teaching Experience at University / Senior College level:

TEACHING EXPERIENCE:

S.N.	Post held & Name of Department/Institution	From	To	Pay Scale	Years
1	Professor (Under CAS) Department of Physics Amaravati University, Amaravati	8/06/2000	Till Date	16400-22400	[P.G.LEVEL]
2	Reader (Selected) Department of Physics Amaravati University, Amaravati	8/06/92	7/06/2000	3700 -5700 Revised 12000 - 18300	8 years [P.G.LEVEL]
3	Contributory Lecturer Department of Physics, Nagpur University, Nagpur.	1/12/87	07/06/92	CHB	4 years & 6 months [P.G.LEVEL]
4	Senior Scale Lecturer Department of Electronics Sh. M. M. Science College, Umred Road, Nagpur.	23/09/91	7/06/92	3000 - 5000	1 years & 9 months [U.G. LEVEL]
5	Lecturer in Electronics Department of Physics, Sh. M. M. Science College, Umred Road, Nagpur.	1/12/87	22/09/91	2200 - 4000	2 years & 9 months [U.G. LEVEL]
6	Lecturer in Physics, Department of Physics, Nagpur University, Nagpur.	20/9/86	30/11/87	2200 - 4000	1 year & 3 months [P.G.LEVEL]
7	Lecturer in Electronics, SSE's Science College, Nagpur.	25/9/84	20/4/85	700 - 1600	1 year [U.G. LEVEL]

ADMINISTRATIVE EXPERIENCE:

S.N.	Post held & Name of Department/Institution	From	To	Remarks	Years
1	COORDINATOR UGC Scheme of Coaching for Entry Services for SC/ST & Minorities	Jan 2007	Till date	Planned, Conducted the programs	For all competitive examinations.
2	WARDEN PG BOYS HOSTEL Amaravati University, Amaravati	8/06/1997	6/9/2004	Established the hostel	[P.G.LEVEL]
3	HEAD Department of Physics Amaravati University, Amaravati	8/06/92 9/2/2000	31/03/95 17/1/200 1	Established the Department	4 years [P.G.LEVEL]

S.N.	Post held & Name of Department/Institution	From	To	Remarks	Years
4	LAISON OFFICER Sh. M. M. Science College, Umred Road, Nagpur.	1/12/87	7/6/1992	Extramural Activity	4 years & 7 months
5	INCHARGE-HEAD Electronics Department, Sh. M. M. Science College, Umred Road, Nagpur.	1/12/87	22/09/91	Establishment of new Department	2 years & 9 months [U.G. LEVEL]
6	HEAD Department of Electronics, SSE's Science College, NGP.	25/9/84	20/4/85	The only person in Nagpur University	1 year [U.G. LEVEL]

7) Research Experience: 26+ Years of consistent experience

S.N.	Research Experience Level	Funding Agency/Organization	Duration	Years
1	Guiding Ph.D. Theses	PGTD of Physics Amravati University	1996-till date	12 years +
2	Guiding M.Phil Dissertations	PGTD of Physics Amravati University	1994-96	3 years
3	Guiding M.Sc. Dissertations	PGTD of Physics Nagpur University	1987-92	4-5 years
4	Senior Research Fellow &/ RA	CSIR New Delhi	1985-86	1 year / 6 months
5	Junior Research Fellow	UGC New Delhi	1982-84	2 years

8) Research Publications:

RESEARCH PUBLICATIONS of Dr. S. K. Omanwar:

[A]	Numeric Data:	Journal	Conf. Proc.	Total
i.	International level	23	17	40
ii.	National level		43	43
iii.	Invited talks			11

[B] International Journals: Papers

- Preparation and Characterization of LiAEAlF₆ : Eu (AE=Mg, Ca, Sr or Ba) phosphors
Journal of Luminescence, In press, Corrected Proof, Available Onlie 17 September 2008
- One step synthesis of Ce³⁺ activated alumino-fluoride powders
J. Optical Materials xxx (2008) xxx-xxx OPTMAT 3681 No. of Pages 5, Model 5G, 9 August 2008 Disk Used doi:10.1016/j.optmat.2008.07.009
- Synthesis of CaSO₄:Dy, CaSO₄:Eu³⁺ and CaSO₄:Eu²⁺ phosphors
Journal of Radiation Measurements Elsevier Publication Vol. 43, Page 1191-1197 (March, 2008)
- Thermoluminescence Characteristics of LiF:Mg,Cu,P phosphor prepared by Reactive Atmospheric Processing.

Amravati University Research Journal, ISSN- 0973-9173 Volume 3, Issue 1, January 2008, Pages 43-48

5. **One step synthesis of complex fluoride powders for solid-state lasers**
Journal of Alloys and Compounds, Vol. 464 Issue 1-2, Page 296-300 22 September 2008
6. **Combustion synthesis of narrow UVB emitting rare earth borate phosphors**
Optical Materials, Volume 30, Issue 4, December 2007, Pages 622-625
7. **TL in halosulphate phosphors prepared by wet chemical method**
Eur. Phys. J. Appl. Phys. 39, 39-43 (2007)
8. **Combustion synthesis of borate phosphors**
Optical Materials, Volume 29, Issue 12, August 2007, Pages 1731-1735
9. **Luminescence characteristics of LiCaAlF₆:Eu phosphor**
physica status solidi (a)
Volume 204, Issue 5, Date: May 2007, Pages: 1561-1566
10. **Combustion synthesis of silicate phosphors**
Optical Materials, Volume 29, Issue 8, April 2007, Pages 1066-1070
11. **Combustion Synthesis and Photoluminescence of Eu³⁺ doped Sodium Borates.**
MACMILLAN Advance Research Series ISBN No. 978-0230-63054-3, Page No. 310-313, January 2007.
12. **Photoluminescence of Ce³⁺ doped UV emitting Borate Compounds**
MACMILLAN Advance Research Series ISBN No. 978-0230-63054-3, Page No. 272-274, January 2007.
13. **Thermoluminescence of LiMAlF₆: (M = Mg, Ca, Sr) Using Various Dopants Mn, Cu, Eu, and Dy.**
MACMILLAN Advance Research Series ISBN No. 978-0230-63054-3, Page No. 29-33 January 2007
14. **Eu²⁺ Luminescence in Fluoride Phosphors**
MACMILLAN Advance Research Series ISBN No. 978-0230-63054-3, Page No. 299-302 January 2007.
15. **UV-emitting phosphors: synthesis, photoluminescence and applications**
physica status solidi (a)
Volume 201, Issue 3, Date: February 2004, Pages: 574-581
16. **Combustion Synthesis of the Zn₂SiO₄:Mn Phosphor**
physica status solidi (a)
Volume 191, Issue 1, Date: May 2002, Pages: 272-276
17. **Preferred practical microsteps.**
Bullatin of IAPT, 13, 137 (1996)
18. **On the role of electron centres in TL processes.**
Crys.Latt. Def.&Am.Sols, 18, 441 (1989)
19. **Colloid formation in microcrystalline powders of NaCl.**
Crys. Latt. Def.&Am.Sols, 14,35 (1987)
20. **Thermoluminescence of Colloid centres in NaCl.**
Phys.Stat. Sol(a),96, 211 (1986) Deshmukh
21. **Spontaneous colloid formation in microcrystalline powders of Synthetic NaCl in Electrode less discharge: particle size dependence.**
Rad. Eff. 97, 21 (1986)
22. **Growth of Colloids in microcrystalline powders of coloured KCl: particle size dependence.**
J.Phys. C, 18, 2615 (1985)
23. **A new colour centre in NaCl**
Physics Letters A, Volume 98, Issue 4, 17 October 1983, Pages 203-204

[C] International Conferences: Papers

1. **Developing Lif: Mg, Cu, P Using Wet Chemical Synthesis At Reduced Cost**
International Conference on Luminescence and its Applications-2008 (ICLA-2008), National Physical Laboratory, New Delhi, February 12-17, 2008
2. **PL & TL Studies of Li₃PO₄:Cu & Li₃PO₄:Cu,Mg**
International Conference on Luminescence and its Applications-2008 (ICLA-2008), National Physical Laboratory, New Delhi, February 12-17, 2008
3. **On the preparation of Complex Aluminium Fluorides**
International Conference on Luminescence and its Applications-2008 (ICLA-2008), National Physical Laboratory, New Delhi, February 12-17, 2008
4. **Combustion Synthesis And Photoluminescence Of Eu²⁺ Doped BaB₈O₁₃**
International Conference on Luminescence and its Applications-2008 (ICLA-2008), National Physical Laboratory, New Delhi, February 12-17, 2008
5. **Phototherapy with fluoride phosphors**
International Conference on Luminescence and its Applications-2008 (ICLA-2008), National Physical Laboratory, New Delhi, February 12-17, 2008 (Awarded outstanding presentation prize)
6. **Thermoluminescence studies of LiMBO₃:Re (M=Mg, Ca, Sr, Ba & Re=Ce, Dy)**
International Conference on Luminescence and its Applications-2008 (ICLA-2008), National Physical Laboratory, New Delhi, February 12-17,
7. **Synthesis And Photoluminescence Of Eu²⁺ Doped Alkali ¹¹C Alkaline Earth Borates Mm₁ÄB₉O₁₅ (M=Na, M₁ä=Ba; M=Li, M₁ä=Ba, Sr)**
International Conference on Luminescence and its Applications-2008 (ICLA-2008), National Physical Laboratory, New Delhi, February 12-17, 2008
8. **Photoluminescence Of Y₂O₃:Eu³⁺ And YVO₄:Eu³⁺ Phosphors Synthesized By Reactions In Molten Salts.**
Proceeding of International Conference on Luminescence and its Applications (ICLA-2004) Full Test Paper O-12, page- 170, B.A.R.C., Mumbai Feb.9-12, 2004
9. **An Efficient Blue Emitting Phosphor For Photoluminescent Liquid Crystal Display Application**
Proceeding of International Conference on Luminescence and its Applications (ICLA-2004) Full Test Paper O-14, page-176, B.A.R.C., Mumbai Feb.9-12, 2004
10. **Improved Yttria Yet At Reduced Cost**
Proceeding of International Conference on Luminescence and its Applications (ICLA-2004) Full Test Paper O-21, page-199, B.A.R.C., Mumbai Feb.9-12, 2004
11. **Li₅AlO₄: Cu, A Promising Tld Material**
Proceeding of International Conference on Luminescence and its Applications (ICLA-2004) Full Test Paper TLDOS-1, page-230, B.A.R.C., Mumbai Feb.9-12, 2004
12. **Thermoluminescence and Photoluminescence of CaSO₄:Eu phosphor prepared by different Co-precipitation routes.**
Proceeding of International Conference on Luminescence and its Applications (ICLA-2004) Full Test Paper PL-3, page-317, B.A.R.C., Mumbai Feb.9-12, 2004
13. **Preparation and characterization of Nano-crystalline MgB₄O₇: Dy for Radiation Dosimetry using Thermoluminescence Technique**
Proceeding of International Conference on Luminescence and its Applications (ICLA-2004) Full Test Paper NP-5, page-354, B.A.R.C., Mumbai Feb.9-12, 2004.
14. **Combustion Synthesis of Pb Activated Barium Disilicate Phosphor.**
International Symposium on Recent Trends in Inorganic Materials, December 11-13, 2002 I.I.T. Pawai, Mumbai. Proceeding page OE-120
15. **Role of Physics Education in Industrial Development.**
Int. Nat. Conference of Physics & Industrial Development: Bridging the Gap, New Delhi. (1993)

16. **Easy growth of colloids in microcrystalline powders of KCl.**
Proc. of Int. Conf. on Defects in Ionic Crystals. University of Utah Salt Lake City, USA. Page 221. (1984)
17. **On the mechanism of ease of colloid formation in microcrystalline powders of NaCl.**
Proc. Int. Conf. on Defects in Ionic Crystals Univ. of Utah, Salt Lake city USA. Page 223. (1984)

[D] National Conferences: Papers

1. Novel Techniques in Radiation Measurements Invited Talk at National Conference on Display Phosphors Application NSDPA-2008, Savitha University, Chennai, Tamilnadu 10-11 October, 2008.
2. Effect of medium on Particle size of CaSO₄:Eu during co-precipitation routes. *National Conference on Recent Trends in Nanoscience (NS-2006), Proceedings of Page 169-172. Kamla Nehru College, Nagpur., January 15, 2006*
3. Luminescence in Ce³⁺ & Eu³⁺ in Chloroborate Ba₂Y(BO₃)₂Cl *National Conference on Recent Trends in Nanoscience (NS-2006) , Proceedings of Page 128-132 Kamla Nehru College, Nagpur., January 15, 2006*
4. Combustion Synthesis And Luminescence Properties Of Eu³⁺ Activated Lithium Rare-Earth Borates. National Conference on Luminescence and its Applications NCLA-2006, Proceedings of NCLA-2006, Vol 14, page 191-192, Sant Gadge Baba Amravati University Amravati, February 7-9-, 2006
5. Combustion Synthesis And Characterization Of Y₂O₃:Eu Phosphor National Conference on Luminescence and its Applications NCLA-2006, Proceedings of NCLA-2006, Vol 14, page 193-195 Sant Gadge Baba Amravati University Amravati, February 7-9-, 2006
6. Synthesis And Photoluminescence Study Of LaMgB₅O₁₀: Re (Re = Ce & Ce, Gd) National Conference on Luminescence and its Applications NCLA-2006, Proceedings of NCLA-2006, Vol 14, page 205-208, Sant Gadge Baba Amravati University Amravati, February 7-9-, 2006
7. Effect Of Synthesis Conditions On Photoluminescence Of CaSO₄:Eu Phosphor, National Conference on Luminescence and its Applications NCLA-2006, Proceedings of NCLA-2006, Vol 14, page 211-214, Sant Gadge Baba Amravati University Amravati, February 7-9-, 2006
8. Ce³⁺ Emission In Some Mixed Fluorides National Conference on Luminescence and its Applications NCLA-2006, Proceedings of NCLA-2006, Vol 14, page 217-218, Sant Gadge Baba Amravati University Amravati, February 7-9-, 2006
9. Fabrication of Low Cost Combustion Chamber for Synthesis of Luminescent Materials "NSPAET-2005, VNIT, Nagpur 3-5 March 2005 page 51
10. Combustion Synthesis of Li₅AlO₄:Cu TLD Phosphor" NSPAET-2005, VNIT, Nagpur 3-5 March 2005 page 43
11. Combustion Synthesis of Borate Phosphors. S. K. Omanwar, Invited Talk Proc. Of National Conference on Luminescence and its Applications (NCLA-2005), Vol XII, P-72. Bangalore University, Bangalore 2-4 February 2005.
12. Synthesis and characterization of Eu doped YVPO₄ HPMV Lamp Phosphor, Proc. Of National Seminar on Advance Low Dimension Devices. Nabira College, Katol December 20, 2004. Page 36-41
13. Combustion Synthesis of Advanced Inorganic Materials" Proc. Of NSGCSM-2004, LIT, Nagpur University, Nagpur 20-21 Nov. 2004 page-74-77
14. Novel Synthesis of Luminescent Materials "Proc. Of NSGCSM-2004, LIT, Nagpur University, Nagpur 20-21 Nov. 2004 page-80-83

15. Low cost synthesis of $\text{MgB}_4\text{O}_7:\text{Dy,Na}$ N.B. Ingale, B.K. Katore, S.K. Omanwar and S. V. Moharil Proceeding of National Workshop on Accelerator and Radiation Environment Monitoring, Only Abstract, Book page Sr. No. ____ Nuclear Science Centre, New Delhi April 22-23, 2004.
16. Combustion synthesis of $\text{BaMgAl}_{10}\text{O}_{17}:\text{Eu}^{2+}$ phosphor B.K. Katore, N.B. Ingale, S.K. Omanwar National Seminar on Lasers and Their Applications, 28-30 January, 2004
17. Combustion Synthesis of some UV Emitting Phosphors. D.S.Thakare, V.B.Bhatkar, R. P. Sonekar, S.K.Omanwar and S.V.Moharil Proceeding of National Seminar on Advanced Materials, Nagpur December 20, 2003 Full Text Paper, (37) Page-167-170
18. Photoluminescence of $\text{CaO}:\text{Bi}^{3+}$ phosphor N.B. Ingale, B.K. Katore, S.K. Omanwar Proceeding of National Seminar on Advanced Materials, Nagpur December 20, 2003 Full Text Paper, (20) Page-106-107
19. Photoluminescence of $\text{CaS}:\text{Eu}^{3+}$ phosphor prepared by co-precipitation method. N.B.Ingale, B.K.Katore, S.K. Omanwar Proceeding of National Seminar on Advanced Materials, Nagpur December 20, 2003 Full Text Paper, (12) Page-73-75
20. Thermoluminescence of $\text{Li}_5\text{AlO}_4:\text{Mn}$ phosphor.N.B. Ingale, B.K. Katore, S.K. Omanwar, and P.D. Sahare Proceeding of National Seminar on Advanced Materials, Nagpur December 20, 2003 Full Text Paper, (32) Page-150-152
21. Implementing Delay Using Microprocessor 8085 A Comprehensive Study. H. Mehata, G. G. Muley and S. K. Omanwar. Accepted at IAPT Convention during December 17-20, 2003 Chandigarh.
22. "Synthesis of $\text{YVO}_4:\text{Eu}$ and $\text{YVO}_4:\text{Dy}$ Phosphors". National Seminar on Luminescence & Its Application, Proceeding Volume XI, PP 386-389 Feb. 12-14, 2003 at NPL New Delhi.
23. Novel synthesis of lamp phosphors. Proceedings of the National Seminar on Novel Synthesis of Materials (NSNSM - 2002), December 22, 2002, Page 56-65. (Full Text Paper)
24. Novel synthesis of UV emitting phosphors. Proceedings of the National Seminar on Novel Synthesis of Materials (NSNSM - 2002) December 22, 2002, Page 103-107. (Full Text Paper)
25. Combustion synthesis of borate phosphors. Proceedings of the National Seminar on Novel Synthesis of Materials (NSNSM - 2002) December 22, 2002, P. 108-111. (Full Text Paper)
26. Combustion synthesis of silicate phosphors. Proceedings of the National Seminar on Novel Synthesis of Materials (NSNSM - 2002) December 22, 2002, P. 104-107. (Full Text Paper)
27. Materials for Photoluminescent Liquid Crystal Displays. National Seminar on Materials for Electronic & Optoelectronic Devices, 2002, JNV University, Jodhpur Vol. OP36, PP 43
28. Core Exposition of Basic Concepts in Digital Techniques Accepted at IAPT Convention during November 15-17, 2002 Gulbarga.
29. Cost Effective Studies in Eu^{3+} Activated Yttrium Host Phosphors. Proceeding of the National Seminar on Luminescence and its Application, *December 16-18, 2001, Vol . IX, page 78-82.*
30. A Comprehensive Model for P.G. Curriculum. ECUS, OP/EA-03,6-8 (2001), Regional Work-Shop on Energizing Curriculum for Up-gradation of Standards,(July 14-15 2001) Amravati University, Amravati. (TRDEA)
31. A Uniform Model Curriculum at Science Graduate Level in Maharashtra State. ECUS, OP/EA-07, 19-21 (2001), Regional Work-Shop on Energizing Curriculum for Up-gradation of Standards,(July 14-15 2001) Amravati University, Amravati. (TRDEA)
32. Higher Education: A Right Perspective. National Science Congress Jan 3-7, 2002. Lakhanow (Focal Theme Poster Presentation).

33. Cost Effective Novel Techniques for the Synthesis of Luminescent Materials. Presented at National Conference on Recent Trends in Composites. Feb 28-March 2, 2001, Proceeding page-42
34. Development of better research facility through low cost instrumentation. IAPT Convention 21-22 Dec. 1994. Omanwar S. K. and Ingle N.B.
35. Colloid growth in NaCl powder, XVII NS on crystallography 7-9(1986) Deshmukh B.T., Omanwar S.K. and Moharil S. V.
36. On the role of colloids in TL processes, DAEs SSP Symp. 29C.52 (1986) Deshmukh B.T., Omanwar S.K. and Moharil S. V.
37. Characterization of colloids : origin of growth is F centre aggregation. .XVINS, E-21. 217. (1985) Deshmukh B.T., Omanwar S.K. and Moharil S. V.
38. E Centres in NaCl. XVI NS on crystallography, E-20, 216(1985) Omanwar S. K. and Deshmukh B.T.
39. Interactions between dislocations and colloid centres in alkali halide DAEs SSP Symp ; 28C,T-8 19(1985) Omanwar S.K.
40. On the growth rate of colloids in coloured NaCl, DAEs SSP Symp, 28C,34(1985) Deshmukh B.T., Omanwar S.K. and Moharil S. V.
41. Interaction between dislocations and colloid centres alkali halides. DAE's SSP Symposium. 28A, 222 (1985) Omanwar S.K.
42. Colloid formation in NaCl, DAE's SSP Symp; 27C. 34(1984) Deshmukh B.T., Omanwar S.K. and Moharil S. V.
43. On the Mechanism of TL damage in LiF, TSL and RP, 0/6, 0/12,(1984)Deshmukh B.T., Omanwar S.K. and Moharil S. V.
44. Effect of divalent impurities on TL of KCl, Rad.Eff. 4B. 1(1983) Deshmukh B.T., Omanwar S.K., Moharil S. V. and Nainani R.W.

[E] Invited talks& Guest Lectures:

1. Invited for Lead Lecture at **NCLA-2009** to be held at CGCRI, Kolkatta during February 19-21, 2009
2. "Novel techniques of radiation measurements using luminescence" **National Seminar on Display Phosphors Applications NSDPA-2008** at Savetha College of Engineering, Thandalam, Chennai (TN) **November 10-11, 2008**
3. Potential TLD Phosphor: LiCaAlF₆:Eu. National Conference on Luminescence and its Applications, Bharti University, Coimbatore (TN), January 19, 2007. IT-VII 11.35 a.m. **Chairman Dr. A. G. Page, Ex-President, LSI.**
4. Novel Methods of Synthesis of Photo luminescent Materials Invited Talk to be delivered at **National Seminar NSNSM, Nagpur Dec. 22, 2002.**
5. Laser Systems & Applications. **Sh. Shivahi Science College, Akot under COSIP. (1999-2000)**
6. Fundamentals of LASER & Industrial Applications. **Invited guest lecture at Kutuhal Science Meet. (1998-99)**
7. Energizing P.G. Lab Activity. **National Symp. on Live Issues Physics Education. TIET, Patiyala (1995)**
8. Data acquisition interfacing modules using 8085 μ P systems. **DST Nat. W/S μ P and PC Sys. Dr. B. A. Marathwada Univ., Aurangabad (1994).**
9. Some aspects of Radiation damage in inorganic solids. **Nat. W/S on Radiation Physics Nagpur University, Nagpur.(1992)**
10. 8085 Microprocessor and interfacing. **TTP, MS Board Pune, J.B.Sci. College, Wardha.(1989)**
11. Radiation Hazards : Health of living organisms. **National Convention of NCCYS & RF, New Delhi. (1987)**

[F] Chairing of Session:

Level	Event	Place	Dates
National Level	National Seminar on Live Issues in Physics Education	Thapar Inst. of Engg. Tech. Patiyala.	6-9 Oct. 1995
National Level	National conference on Recent Trends in Composites	Sh. Shivaji Science College Amravat	Feb 28 March 2, 2001
National Level	Annual Convention of Physics Teachers	SSGM College of Engineering Sheaon	Dec 19-20, 2005
State Level	Regional workshop on Instrumentation (Felicitation of Prof Bagade)	Vidarbha Mahavidyalaya Amravati	Dec. 1993
University Level	Restructuring of Courses At UG Level,	L.T.College,Wani	July 15-16 1995

[G] Panel discussion 01

National Seminar on Live Issues in Physics Education Thapar Inst. of Engg. Tech., Patiyala. 6-9 Oct. 1995.

[H] Research Guidance (No. of Students)

SN	Level	Registered	Complete	Awarded
i.	P. G.		04	04
ii.	M. Phil.	02	01	--
iii.	Ph. D.	08 (4 under FDP)	02	06

[I] PRESENT RESEARCH GUIDANCE: Ph.D. Scholars:

- Shri. V. B. Bhatkar:**
“ Study of Luminescence of Silicate & Vanadate based Phosphors.
Awarded Degree Worked under FDP: MRP Sanctioned & Completed.
- Shri. D. S. Thakre:**
“ Development of Photoluminescence Phosphors: Lamp Phosphors.”
Awarded Degree Worked under FDP: MRP Sanctioned & Completed.
- Sh. N. B. Ingle:**
“Some Aspects Of Luminescent Phosphors: Synthesis, Characterization And Development”.
Awarded Degree.
- Shri. B. K. Katore:**
“ Synthesis & Characterization of Some Fluoride Based Luminescent Materials.”
Awarded Degree during February 2007
- Sh. R. P. Sonekar:**
“ Synthesis of Borate Host Luminescent Materials.”
Awarded October 2008 under FDP X th Plan of UGC (1-5-2004 to 30-04-2006): MRP Sanctioned under current year.
- Shri. G. A. Aghalate:**
“Synthesis & Characterization of Lithium Based Luminescent Materials.
Awarded October 2008 under FDP X the Plan of UGC (1-5-2004 to 30-04-2006): MRP is in active consideration.
- Shri. Vishal Sonsale:**
“Comparative studies on Response of TLD materials to Low and very High ionizing radiations”. Submitted the application for registration January 2008.

8. **Shri. Pankaj Nagpure**
"Synthesis and Characterization of Borate Based Luminescent Materials."
 July 2008 MRP Under process.
9. **Shri. Mahesh Betkar:**
"Value added physics education at +2 Level" . Submitted the application for registration January 2008 to YCMOU.

[J] Research Projects

Completed:

1. Minor Research Project sanctioned by UGC, New Delhi: 25,000/- (2001-2003)
 Title: *"Luminescence study of Silicate and Vanadate based phosphors"*
2. Minor Research Project sanctioned by UGC, New Delhi: 48,000/- (2000-2002)
Sanctioned to Sh. V.B. Bhatkar for Ph.D.
 Title: *"Luminescence studies of silicate and Vanadate based phosphors"*
3. Minor Research Project sanctioned by UGC, New Delhi: 42,000/- (1999-2001)
Sanctioned to Sh. D.S. Thakare for Ph.D.
 Title: *"Development of photoluminescent phosphors: Lamp phosphors"*
4. Minor Research Project sanctioned by UGC, New Delhi: 42,000/- (2002-04)
Sanctioned to Sh. R.P. Sonekar for Ph.D.
 Title: *"Synthesis of Borate Host Luminescent Materials"*

5. Ongoing:

Title of the Project: **Developing Tissue Equivalent TLD Materials for Personnel Monitoring**

Agency: **AERB, Govt. of India**
 Total cost: **Rs. 15,55,000/-**
 Date of Sanction: **January 7, 2005**
 Project No.: **AERB/CSRP/31/02**
 Period: **1-4-2005 to 31-3-2008**

6. Defended:

Title of the Project: **Developing Cost Effective Methods of Synthesis For Luminescent Materials**

Agency: **UGC, New Delhi**
 Total cost: **Rs. 12,61,000/-**
 Date of Defend: **August 16, 2004**

7. Submitted: (Short Listed)

Title of the Project: **Developing Higher sensitive better tissue equivalent TLD materials at lower cost.**

Agency: **Rajiv Gandhi Science & Technology Commission Govt. of Maharashtra**
 Total cost: **Rs. 5298200.00**
 Date of Sanction: **March 14, 2008**
 Project No.: **0334**
 Period: **Under Active consideration and period is awaited.**

8 Title of the Project: Developing OSL/RPL Sensors Based Instrument for radiation measurements.

Agency: **Short listed by DST through NEERI New Delhi**
 Total cost: **Rs. 2988720/-**
 Date of Submission: **June 2008 Recommended by the Committee for Rs. 25,00,000/-**

- 10) Award of own contribution received:**
- i. International **01**
 - ii. National level **06**
 - ii. State level **03**
 - iii. University level **02**

International Level Award:

1. Out standing paper presentation award, ICLA-2008, NPL, New Delhi 17-2-2008.

National Level Awards:

2. Best Ph.D. thesis 1985, BRNS, DAE BARC, Bombay
3. National Merit Scholarship during 1980-82
4. Junior Res. Fellowship by UGC, New Delhi during 1982-84
5. Senior Res. Fellowship by UGC, New Delhi during 1984-85
6. Senior Res. Fellowship during 1984-86 by C.S.I.R. New Delhi
7. Research Associateship during 1986 for 5 years by C.S.I.R. New Delhi, but not availed.

State/University Level Awards:

8. Talent Scholarship at IV Std, Scholarship at VII std,
9. Open Merit Scholarship at X, XII and continued till B.Sc. by Govt. of Maharashtra.
10. Appointed by Govt. of Maharashtra on Gazeteeer of State of Maharashtra for the period of 3 years w.e.f. 19-09-2000. Appointed by Govt. of Maharashtra on Gazeteeer of State of Maharashtra for the period of 3 years w.e.f. 28-06-2006.
11. Awarded GOLD MEDAL by Nagpur University (B.Sc.-1980)
12. Merit Award at M.Sc (Physics)-1982 of Nagpur University.

11) Participated in Conferences/symposia/Courses/Schools:

Participation in Conferences/Symposia/Seminars:

(i) International Level:

S.N.	Name of the Event	Place	Dates	Remarks
1	International Conference on Luminescence and its Applications-2008 (ICLA-2008)	National Physical Laboratory, New Delhi	February 12-17, 2008	7 Full Test Papers
2	International Conference on Luminescence and its Applications (ICLA-2004)	B.A.R.C., Mumbai	Feb.9-12, 2004	6 Full Test Papers
3	International Symposium on Recent Trends in Inorganic Materials,	I.I.T. Pawai, Mumbai.	December 11-13, 2002	1 Full Text Paper
4	Int. Nat. Conference of Physics & Industrial Development: Bridging the Gap,.	New Delhi	January 2-5, 1993	1 Full text Paper
5	Int.Conf.on Defects in Ionic Crystals..	University of Utah Salt Lake City, USA	August 21-24 1984	2 full text papers

(ii) National Level:

S.N.	Name of the Event	Place	Dates	Remarks
1	National Conference on Nanotrends-2008	M.P.Deo Dharampeth College Nagpur	September 27, 2008	
2	National Conference on Luminescence an its Applications NCLA-2007	Bhartiar University, Coimbtore	January 19-21, 2007	4 Full text papers
3	National Conference on Recent Trends in Nanoscience (NS-2006),	.Kamla Nehru College, Nagpur.,	January 15, 2006	2 full text papers
4	National Conference on Luminescence an its Applications NCLA-2006	Sant Gadge Baba Amravati University Amravati	February 7-9-, 2006	5 full text papers
5	NSPAET-2005	VNIT, Nagpur	3-5 March 2005	2 full text papers
6	National Conference on Luminescence and its Applications (NCLA-2005),	Bangalore University, Bangalore	2-4 February 2005	Invited Talk
7	National Seminar on Advance Low Dimension Devices.	Nabira College, Katol	December 20, 2004	1 Full text paper
8	NSGCSM-2004,	LIT, Nagpur University, Nagpur	20-21 Nov. 2004	2 full text papers
9	National Workshop on Accelerator and Radiation Environment Monitoring	Nuclear Science Centre, New Delhi	April 22-23, 2004	Only Abstract
10	National Seminar on Lasers and Their Applications,	Sant Gadge Baba Amravati University, Amravati	28-30 January, 2004	1 full text paper
11	National Seminar on Advanced Materials,	K. N. College, Nagpur	December 20, 2003	4 Full Text Papers
12	IAPT Convention	Chandigarh	December 17-20, 2003	1 Abstract only
13	National Seminar on Luminescence & Its Application,	NPL New Delhi	Feb. 12-14, 2003	1 full text paper
14	National Seminar on Novel Synthesis of Materials (NSNSM - 2002), ,	K. N. College, Nagpur	December 22, 2002	4 full text papers
15	National Seminar on Materials for Electronic & Optoelectronic Devices	JNV University, Jodhpur	2002	1 full text paper
16	National Seminar on Luminescence and its Application,	R. D. University Jabalpur	December 16-18, 2001,	1 Full text paper
17	Regional Work-Shop on Energizing Curriculum for Up-gradation of Standards	Amravati University, Amravati	July 14-15 2001	2 Full text papers
18	National Science Congress.	Lakhanow	Jan 3-7, 2002	1 paper on focal theme.
19	National Conference on Resent Trends in Composites.	Shri Shiwaji Science College,	Feb 28-March2, 2001	1 full paper

S.N.	Name of the Event	Place	Dates	Remarks
		Amravati		
20	IAPT Convention	Patiyala	21-22 Dec. 1994	1 full paper
21	XVII NS on crystallography	Delhi University, New Delhi	December(1986)	1 full text paper
22	DAEs SSP Symp. 29C.52 ()	G. B. Pantnagar University, Pantnagar	December 21-22, 1986	1 full paper
23	XVINSO crystallography	Nagpur University, Nagpur	1985	2 full paper
24	DAEs SSP Symp	Nagpur University, Nagpur	1985	3 papers
25	TSL and RP	PRL, Ahmedabad	February 2-5, 1984	1 full paper
26	National Symposium on	BARC, Mumbai	September 22-23, 1983	1 full paper

S.N.	Name of the Event	Place	Academic session	Duration
(iii)	Participation in Orientation Courses			
1	Orientation Course	Goa Univ. Goa	1989-90	30 days
2	Orientation Course Electronics	Nag. University Nagpur	1989-90	15 days
(iv)	Participation Refresher Courses			
1	Refresher Course in Physics	Univ. of Pune Pune	1990-91	28 days
(v)	Participation in WORKSHOPS			
1	Pre-Conference School on Science of Luminescent Materials	NPL New Delhi	2007-08	1 Day
2	Workshop on Advanced Microscopic Techniques For Materials Analysis	Uni. Of Pune Pune	2000-01	6 days
3	UGC Natl. Workshop on Structural & Electrical Characterization of Materials	Amravati Univ Amravati	1998-99	3 days
4	UGC's TTP on "Embedded controllers"	I.I.Sc Bangalore	1996-97	14 days
5	Workshop on Re- structuring of Courses at UG Level	L.T.College Wani	1995-96	3 days
6	National UGC's W/S on Lasers & Modern Optics	I.I.Sc. Bangalore	1994-95	15 days
7	National DST W/S on Mp & PC based Systems.	Dr.B.A.Univ Aurangabad	1993-94	20 days
8	IPA Workshop on Radiation Physics	Nagpur Univ Nagpur	1992-93	5 days
9	IPA Workshop on Astro- Physics	Nagpur Univ Nagpur	1991-92	3 days
10	Introduction of MP and Applications	I. I.Sci Banglore	1988-89	10 days
11	IPA Workshop on micro mini and PCs	Nagpur Univ Nagpur	1985-86	5 days

(vi)	Participation as a Resource Person			
1	Coaching for Entry in Services	SGBAU	2008-09	16 lectures
2	Coaching for Entry in Services	SGBAU	2007-08	28 lectures
3	IAS Coaching	SGBAU, Amravati	2007-08	4 Lectures
4	Refresher course Jr. College Teachers	Shivaji Sci. College	2007-08	3 Lectures.
5	NET Coaching UGC Plan)	SGB AU	2006-07	16 Lecturs
6	NET Coaching UGC Plan)	SGB AU	2005-06	20 Lectures
7	Refresher Course in Physics	Amravati Univ.	2004-05	3 Lectures
8	IAS Pre Exam Training	Amravati Univ.	2003-04	1 Lecturer
9	Refresher Course in Physics	Dr. BAM University Aurangabad	2003-04	2 Lectures
10	Orientation Course	Amravati Univ.	2001-02	2 Lectures
11	Refresher Course in Commerce	Amravati Univ.	2001-02	1 Lectures
12	Refresher Course in Statistics	Amravati Univ.	2000-01	4 Lectures
13	Refresher Course in Physics	Amravati Univ.	2000-01	5 Lectures
14	Orientation Course	Amravati Univ.	2000-01	8 Lectures
15	Refresher Course in Physics Com. Sci. & Electronics	Amravati Univ.	1999-2000	6 Lectures
16	Refresher Course in Physics	Amravati Univ.	1997-98	3 Lectures
17	Refresher Course in Physics	Amravati Univ.	1995-96	4 Lectures 15 Lab. sess.
18	Refresher Course in Physics	H.P.Univ. Shimla	1995-96	7 Lectures
19	Orientation Course	Amravati Univ.	1998-99	1 Lectures
20	Orientation Course	Amravati Univ.	1997-98	1 Lectures
21	Orientation Course	Amravati Univ.	1996-97	2 Lectures
22	Orientation Course	Amravati Univ.	1995-96	2 Lectures
23	Orientation Course	Amravati Univ.	1994-95	1 Lectures

12) Extension activities:

Research activities:

(Consultancy, Advisory and Consultative Activities)

Professional Guidance is given to the Engineering graduate students for the project completion in the field of microprocessor based Instrumentation Systems.

[a] College of Engg. Badnera. 1994-95, 1995-96, 1997-98

[b] Govt. College of Engg Amravati. 1998-99

[c] B. N. College of Engg. Pusad. 1998-99, 1999-2000

13) Contribution to academic environment:

(A) Responsible Positions Held In Academic Committees:

S.N.	Membership & Committee	Organization	Duration
1.	Sub committee of B.O.S.(Elect)	Nagpur Uni.	1990-1992
2.	Board of Studies, (Physics)	Amravati Uni.	1992-1995 2000-2001
3.	Library Committee, member	Amravati Uni.	1993-1995

4. Member of B.U.T.R.	Amravati Uni.	1992-1995
5. Member of D.R.C.	Amravati Uni.	1992-1995
6. Member of Faculty of Science	Amravati Uni.	1993-1994
7. Enquiry Officer (One Case)	Amravati Uni.	1993-1994
8. Convener of the Committee	Amravati Uni.	1994-1995
9. Appointed by Faculty of Science		
10. Member of Academic Council	Amravati Uni.	1993-1994
11. Member of Senate	Amravati Uni.	1994-1995
12. Member: "Delinking....." B.C.U.D. Appointed by Hon.V.C.	Amravati Uni.	1998-2000
13. Member of R.R.C.	Amravati Uni.	2000-2001
14. Member of B.U.T.R.	Amravati Uni.	2000-2001
15. Member: Admission Committee (Centralized: P.G. Admissions)	Amravati Uni.	1998-1999 1999-2000 2000-2001
16. Regulation Draft Committee	Amravati Univ.	2001-2002
17. NAAC Sub committee	Amravati Univ.	2001-2002
18. Post-Naac Committee	Amravati Univ.	2002-2003
19. IQAC Sub-committee	Amravati Univ.	2003-2004
20 Member, Advisory Committee DST Prj	SGBAU	2005-2006
21. Member, Advisory Committee NET	SGBAU	2005-2006
22. Member, IQAC	Amravati Univ.	2005-2007
23. Building & works Committee Nominated UGC Member	Amlokchand College Yavatmal	2002-2007
24 Member of PAT Committee	SGBAU	2005-2008
25 SET Observer	Pune Nanded Chandrapur	2006 2007 2008
26. Pay Review Committee(Nomination	Pune Meeting	2008
27. Regional Advisory Committee, Dept. Of Income Tax, Nagpur Region	Nagpur Region	2008-2010

(B) Worked as expert for interview/assessment/guidance:

1. Subject Expert:	Govt. of Maharashtra TTP for Jr. College Teachers. (Guidance)	1998-1999 1999-2000
2. Member: LEC,	Vidyabharati College (Assessment)	1999-2000
3. Vice-Chancellor Nominee/ Selection Committees for Lecturers in affiliated colleges. (Interview)[about 20 times]	Amravati University	1993-1994 1994-1995 1995-1996 1996-2001
4. Vice-Chancellor Nominee on Placement Committee for Assessment/placement and Promotion of Lecturers in Affiliated Colleges (Assessment)[about 15 times]	Amravati University	2000-2001 2001-2002 2002-2003 2003-2004 2004-2005 2005-2006 2007-2008
5. Subject Expert Nomination by Govt. of Maharashtra. Technical board (DTE)		2006-2007 2008-2009

(C) Worked as examiner for the following Universities:

1. Nagpur University, Nagpur [For M.Sc, Dissertations]
2. Rani Durgawati Vishwavidyalaya, Jabalpur [For Ph.D. & M.Phil]
3. H. P. University, Simla [For M.Sc. & M.Phil]
4. Dr. Babasaheb Ambedkar Marathwada Univ., Aurangabad[For M.Sc.]
5. Swami Ramanand Teertha University, Nanded [For M.Sc.]
6. Shivaji Univ., Kolhapur[For M.Sc, Dissertations] [For M.Sc.]
7. S. V. University Tirupati.[Ph.D.]

(D) Worked as a Member on Committee for examinations of this University:

1. Member, Subject Exam Committee 1992-1993 [P.G.]
2. Member, Subject Exam Committee 1993-1994 [P.G.]
3. Chairman, Subject Exam Committee 1994-1995 [P.G.]
4. Member, Subject Exam Committee 1994-1995 [M.Phil.]
5. Member, Subject Exam Committee 1995-1996 [P.G.]
6. Member, Subject Exam Committee 1996-1997 [P.G.]
7. Member, Subject Exam Committee 2000-2001 [P.G.]
8. Member, Subject Exam Committee 2001-2002 [P.G.]
9. Member, Subject Exam Committee 2002-2003 [P.G.]

(E) Membership of professional bodies:

- (i) Life member :Indian Physics Association, Bombay.(1985)
- (ii) Life member :Instrumentation Society of India, Bangalore.(1985)
- (iii) Life member :Indian Association of Physics Teachers.(1999)
- (iv) Life Member :Society for Promotion of Materials. Nagpur.(1999)
- (v) Life Member :Luminescence Society of India B. A. R. C. (1999)
- (vi) Life Member :Material Research Society of India Bangalore.(2000)
- (vii) Life Member :National Centre for Science Information For Library Information I.I.Sc. Bangalore.(CA&DD services)
- (viii) Life Member Physical Society of India, Amravati (2007)
- (ix) Life Member :Indian National Science Congress (2008)

(F) Membership of Libraries / academic bodies:

- (x) Life Member : Vidharbha University Physics Teachers' Association, Nagpur (1986) For Promotion of Quality Education in Physics. At UG and PG Level
- (xi) Life Member : Amravati University Physics Teachers Association. Treasurer : (1996- till date)
- (xii) Life Member :Nagpur University Teachers Association.(1992) Treasurer(PG UNIT) : 2003-04
- (xiii) Executive Body Member:Teaching, Research and Development Council,Amravati University,Amravati.(1996)
- (xiv) Steering Comm. :Teaching, Research Development & Member & Convener Extension Council, Amravati Workshop Committee University,Amravati.(2000-onwords.)

(G) Social Bodies/ Activities :

1. Life member : Aryaviashya Sabha, Amravati Region, Amravati.(1992)
2. Life Member : Swami Vivekanand Samiti, Amravati.(2000)
3. Convener : Hostel Management Committee,(1995 till Date) Aryaviashya Sabha, Amravati.

(H) Departmental work/Achievements:

1. Special guidance for skills improvement:
2. Motivating students for classroom and Lab activity.
3. Dedications to Seminar Activity.
4. Encouraging students to appear for competitive exams.
5. Guiding students to use various library services.
6. Establishment of all Laboratories from "ZERO" state to present state.
7. Creating conducive atmosphere for learning and training.
8. Encouraging for fabrication and prototyping in electronics.
9. Modification of P.G. Courses. 85 % agreement with the NET/SET pattern. Introducing new scheme for the courses and evaluation
10. During my Headship two students are selected at B.A.R.C., 16 students are selected in Telecom Department as J.T.O., 6 are selected at National Labs and IIT's for Ph. D. Program.
11. The overall result was always below 60 % during last 16 years however, for my subjects it is always about 90 %. It means a positive swing of about 30 % is witnessed.

(I) Organizational Contribution: National Seminars/Conferences/Workshop:

1. Member, LOC, National Conference on Bayesian Analysis: Theory And Applications Department of Statistics, Amravati University Amravati. Jan 16-18, 1999.
2. Member, LOC, National Workshop on Structural and Electrical Characterization of Materials. Department of Physics, Amravati University Amravati. Feb 26-28, 1999.
3. Member, LOC, National Conference on Recent Trends in Composites. Shri. Shivaji Science College, Amravati. Feb 28- March 2, 2001.
4. Convener Workshop on Energizing Curriculum for Upgradation of Education, TRDEA, Amravati University, Amravati July 14-15, 2002,
5. Member LOC, National Conference on Novel Methods of Synthesis of Materials, Kamla Nehru College Nagpur, December 22, 2002
6. Co-Chairman, Technical Programme Committee, National Conference on Novel Methods of Synthesis of Materials, Kamla Nehru College Nagpur, December 22, 2002
7. Chairman LOC, Workshop on Career Opportunities Through Competitive Examinations", TRDEA, Amravati University, Amravati Oct. 10, 2003,
8. Member, Advisory Committee, National Workshop on Municipal Solid Waste Management, Amravati University, Amravati November 2003.
9. Member LOC, National Conference on Lasers and Their Applications Department of Physics, Amravati University, Amravati Jan 28-30, 2004.
10. Convener, Technical Programme Committee, National Conference on Lasers and Their Applications Department of Physics, Amravati University, Amravati Jan 28-30, 2004
11. Member LOC, National Conference on Novel Synthesis of Advanced Materials, Kamla Nehru College Nagpur, February 1, 2004
12. Member Programme Committee, International Conference on Relativity, Amravati University, Amravati January 11-14, 2005
13. Member Programme Committee, International Conference on PSBC Amravati University, Amravati February 17-20, 2005
14. Member of National Organizing Committee ICLA-2004 12-15 February 2004, BARC, Mumbai
15. Member of National Organizing Committee NCLA-2005 7-9 February 2005, Bangalore University, Bangalore.
16. Convener of NCLA-2006 7-9 February 2006, SGBAU, Amravati
17. Member of National Organizing Committee NCLA-2007 17-20 January 2007, Bhartiya University, Coimbatore.

18. Member of National Organizing Committee ICLA-2008 12-16 February 2008, NPL, New Delhi.
19. Member of National Organizing Committee Workshop on Recent Trends in Luminescence Applications. January 19, 2008. RKNEC, Nagpur.
20. Member of National Organizing Committee, National Conference NCLA-2009 19-21 February, 2009 CGCRI, Kolkata
21. Member of National Advisory Committee, National Conference NANOTRENDS-2008, Sept 27, 2008, MP Deo Dharmapeth College Nagpur.

14) Made Academic Excellence of Students by:

(i) Special efforts to guide the students

1. Special Coaching Classes for SC/ST & depressed Class Students: **Yes**
2. Special Coaching for NET/SET/GATE: **Yes**
3. Arranged Special Lecturers
4. Motivating students for classroom and Lab activity.
5. Dedications to Seminar Activity.
6. Encouraging students to appear for competitive exams.
7. Guiding students to use various library services.
8. Guiding students for the NET, SET, GATE and JEST examinations.
9. Arranging study circles for solving problems in Physics.

(ii) Teaching methods adopted.

1. Developing friendly relations with the students during first couple of week of their course.
2. Building confidence among them and realization regarding their own potential.
3. Investing 10 sessions on the prerequisite information & feedback on the degree level course contents.
4. Discouraging them for use of notes of others and encouraging the use of standard and those too foreign authors books.
5. Announcing the topics to be discussed in next sessions (periods) in advance and giving them the valued references for prerequisite reading.
6. Using BB Operation as per NEP-1986. Using AV aids for the betterment. Whole of the 6 courses are available on transparencies and PPT presentation form for about 300 lectures.
7. Covering the historical developments, cutting jokes, giving analogy, proving illustrative examples, telling few stories both scientific and usual (which will improve curiosity, thinking level and innovative acceptance), Recent developments and current trends / interests are described with due justification importance is explained.
8. Asking students to collect free running class notes during the lecture just to understand the scope, depth and limitations of the topics.
9. Asking them to read the topic from standard books (Complete references are given), close down the books, and prepare your notes in their own way. Submit the same for checking. Suggesting them the modifications if any, good notes are then highlighted in the class by congratulating those students in the same class in front of others just to motivate the lazy students.
10. Conducting tutorial classes after finishing the unit in hand. Giving them questions from NET/SET/GATE/UPSC/MPSC Physics papers. **(I have question sets of last 12 years with me.)** Solving them in the class by the students on BB. Sending students to BB will definitely build the confidence.
11. Asking few good students to deliver the seminars on the topics not covered in the class to check the potential of independent thinking and presentation of the students. Guiding them at the same instant.

12. Conducting small unit tests of three types. (i) Announcing the dates and the topics in advance i.e. 3 weeks. (ii) Giving them fixed number of questions (set) and assuring them that after exactly one week they will have to solve given five questions from the same set. And (iii) Giving surprise test of 1 hour to be declared in the class at 11 th hour.
13. Checking the performance in all the three above and accordingly identify the areas of emphasis in the class.
14. In laboratory activity, many assignments on practical utility, handling of equipments, identification of components, use of probes, designing on paper and bring to the prototype are the major steps.
15. Giving them tutorials, guiding them in solving their practical own difficulties through thought provoking and open ended lab problems, asking them to determine random, systematic, gross, and limiting errors in the measurements. (To adopt various statistical tools like Least square fitting, standard deviation they are given many numerical problems and are asked to solve them on BB in the laboratory.

(iii)Contribution in Administration of University/Departments:

1. Joined the University as Reader and then assumed the charge of the Head of the Department on June 8, 1992.
2. Looked after overall administration as a H.O.D. during Jun1992 to March 1995 and again from February 2000 till date.
3. Construction of Physics Laboratory Extension Block.(1993)
4. Establishment of all Laboratories from "ZERO" state to present state.(1992-93)
5. Better utilization of available funds and space.(1992-95 & 2000-2001)
6. Single-handed contribution to building plan. Laboratory plan. Library requirements.(1992-95)
7. Special attention to Teaching and Training.[Major contribution to Teaching.]
8. Creating conducive atmosphere for learning and training.
9. During my headship, the % attendance of the students is always more than 90 %, which was again witnessed from Feb 2000.
10. Working as a Coordinator of UGC Scheme of Coaching for Entry in Services for the students belonging to SC/ST and Minority categories.
11. Chairman Central Admission Committee, CAC-2007, On-line process for form submission and online display of all the information including provisional and final merit lists for admission to various 29 courses in the university. First time the process has put up the online for the benefit of the students.

(iv) Admission:

Developed an elegant soft-ware for the admissions of M.Sc.(Phy) during 1994-95. This was later on adapted by Few Departments during 1996-97.The same is modified and made user friendly for making Admissions centrally of all 29 different courses in various University Department. Worked as a Member of the Centralized P.G. Admission Committee of the Amravati University, Amravati for the years 1998-99, 1999-2000, 2000-01.

Appointed as "Chairman, CAC-7", Central Admission Committee, SGBAU, 2007. Developed Web Access to Information and on-line submission of the forms for various courses. Developed the MS-Excel program for subject wise & Category wise merit no. and provided for the first time subject wise applicants specifically in science faculty.

(v) Extra Mural Activities:

1. Worked as Hon. Liaison Officer Sh. M. M. College, Nagpur1987-92.
2. Working as Warden, University Boys' Hostel since June 1998.
3. Worked as Enquiry Officer 1994-95

(vi) Helped in Management by following activities/ Various Competitions:

SN	Responsibility & Activity	Institutions	Academic Year
1	Chairman, PAT-Nov-2008	University Examination	2008-09
2	Convenor Publicity & Public Relation Committee SLAviskar-8	State Level Activity, SGBAU Amravati	2008-09
3	Member Accommodation Committee SLAviskar-8	State Level Activity, SGBAU Amravati	2008-09
4	Convenor, Accommodation Committee SWZ Basket Ball Tournaments	SGBAU, Amravati. Inter University Level Activity	2008-09
5	Member, Prize Distribution Committee SLAviskar-8	State Level Activity, SGBAU Amravati	2008-09
6	Convenor S & T Exhibition committee, Avishkar-8	Amravati University	2007-2008
7	Convenor Invitation committee, NSD-2008	Amravati University	2007-2008
8	Convenor Extempore committee, NSD-2006	Amravati University	2006-2007
9	Convenor Popular Talk committee, NSD-2005	Amravati University	2004-2005
10	Convenor Slide-show committee, NSD-2004	Amravati University	2003-2004
11	Coordinator, Accommodation Arrangements Ashwamedh-2003	Amravati University	2002-2003
12	Member, Organizing Committee Ashwamedh-2003	Amravati University	2002-2003
13	Treasurer NSD-2003	Amravati University	2002-2003
14	Convenor Slide-show committee, NSD-2002	Amravati University	2001-2002
15	Convenor Slide-show committee, NSD-2001	Amravati University	2000-2001
16	Member, Steering Committee NSD-2000.	Amravati University	1999-2000
17	Chairman: General Co-ord. and Publicity, NSD-2000	Amravati University	1999-2000
18	Member: Finance Committee NSD-1999, NSD-2000	Amravati University	1999-2000
19	Convenor: Annual Convention of Physics Society	Amravati University	1999-2000
20	Convenor Seminar committee for National Science Day	Amravati University	1997-98
21	Convenor Program Committee "Atoms in Service of Man" DAE's Exposition, BARC.	Amravati University	1997-98
22	Member, Organizing committee for National Science Day	Amravati University	1996-97
23	Convenor, UNIPHYFAIR for M.Sc.(Phys) students	Amravati University	1996-97
24	Member, Organizing committee. for National Science Day	Amravati University	1995-96
25	Convenor, UNIPHYFAIR M.Sc.(Phys) students	Amravati University	1995-96
26	Vice President Cultural Activities (Students)	Amravati University	1995-96
27	Convenor, UNIPHYFAIR M.Sc.(Phys) students	Amravati University	1994-95

SN	Responsibility & Activity	Institutions	Academic Year
28	Convener University Decade Celebrations(Academic Wing)	Amravati University	1993-94
29	Convener, UNIPHYFAIR M.Sc.(Phys) students	Amravati University	1993-94
30	Incharge M.Sc. Admissions Science faculty courses.	Amravati University	1992-93
31	Member College committee Time Table/Students activities	M.M.College of Science,Nagpur	1989-92
32	Convener of Students Seminar Inter-College competition.	M.M.College of Science,Nagpur	1989-90
33	Member Chess team, Inter-College Staff Tournaments	M.M.College of Science, Nagpur.	1987-92
34	In-charge for Science Exhibition	Department of Physics, Nagpur University	1981-82
35	President, Students' Council	P.N.College,Pusad	1979-80
36	Caption Chess Team	P.N.College,Pusad	1978-80
37	Vice -Caption Foot ball team	P.N. College, Pusad	1976-77
38	Monitor, Scout	K.D.High School, Pusad, Dist.Ytl.	1974-75
39	Caption, Chess Team	K.D.High School, Pusad, Dist.Ytl,	1973-74

Date:

(Shreeniwas K. Omanwar)
Professor, Department of Physics
Amravati University, Amravati