

# SANT GADGE BABA AMRAVATI UNIVERSITY

## DEPARTMENT OF PHYSICS

### Dr. Shreeniwas K. Omanwar

Professor & Head, Department of Physics  
(Ex-Coordinator, UGC-ESS(SC/ST & Mino)  
Near Tapowan, Sant Gadge Baba Amravati  
University, Amravati (M. S.)  
PIN Code: 444 602



### Residence

104-B,  
Saibhakti Apartments  
Samartha Colony,  
**Amravati (M.S.)**  
PIN Code: 444606

E-mail: omanwar@rediffmail.com

Tel No.: +91 721 2676100 (R)

Tel No.: +91-721-2662279 EXT: 269  
: +91-721-2552438 (Direct)

+91 9422856844 (Cell)

Fax No.: +91-721-2662135,2660949 (O)  
: +91-721-2552438 (Direct)

Date of Birth: 1<sup>st</sup> July 1959

### HIGH-LIGHTS OF CURRICULUM VITAE OF DR. S. K. OMANWAR (Page-1 To 6)

FOR DETAILS : Pages 7 Onwards

#### High Lights-Academic career

1	Throughout First Class with Distinction.	
2	Awarded <u>GOLD MEDAL</u> by Nagpur University (Topper in Chemistry) (B.Sc.-1980)	1980
3	Stood <u>SECOND MERIT</u> at M.Sc.(Physics)-1982 of Nagpur University.	1982
4	Distinction class with <u>RECORD SCORING</u> in special papers at M.Sc. examinations Nagpur University (Digital Elect. & SSP).	1982
5	Selected by UPSC 2 times (Jr. Geophysicist; NDA Lecturer) and MPSC 3 times (DC, ACF)	1984
6	Ph.D. thesis was judged as one of the <u>Best Theses of 1985</u> , BRNS, DAE BARC, Bombay.	1985(S) 1987(A)

#### High Lights -Scholarships and Fellowships

1	Awarded <u>Talent Scholarship</u> at IV Std, Scholarship at VII std	1969,1972
2	Open <u>Merit Scholarship</u> at X, XII by Govt. of Maharashtra	1975,1977

3	Open <u>Merit Scholarship</u> at B.Sc. by Govt. of Maharashtra.	1977
4	Also <u>National Merit Scholarship</u> during 1980-82.	1980
5	Awarded <u>J.R.F. &amp; S.R.F.</u> by UGC, New Delhi during 1982-84.	1982-84
6	Awarded <u>S.R.F. and Research Associate</u> during 1984-86 by C.S.I.R. New Delhi.	1985-86
7	Offered <u>free hospitality</u> by BNL, USA and AERE, Harwell UK (post Ph.D.) work but not availed.	1987
<b>High Lights -Research Career</b>		□
1	Ph.D. thesis was judged as one of the <u>Best Theses of 1985</u> , BRNS, DAE BARC, Bombay.	1985
2	International Award/Recognitions for Research Papers ICLA-2008 <u>Best Paper Award</u>	2008
3	International Recognition: <u>Science Direct-TOP-25</u> Articles :Physics & Astronomy <u>RANK-20</u> for two times for <u>two different papers</u> in Oct-Dec-2008 & April-June-2009	2008,2009
4	6 Scholars awarded Ph. D. and 6 are presently working	6 (A) + 6 (W)
5	<u>Governor has appointed</u> on Govt. of Maharashtra GAZ. Department for <u>3 consecutive terms</u> since 2000	2000-2010
6	<u>Editorial Membership</u> on LSI Journal (National), Amravati University Research Journal (Regional)	2008
7	<u>Convener</u> of National Conference on Luminescence and its Applications ( <u>NCLA-2006</u> ), Feb 7-9, 2006.	2006
<b>High Lights -Research Projects</b>		□
1	Major: AERB, Rs. 18,56,000/- (2005-08) Completed	2005-2008
2	Minor completed : 4 projects Rs. 2,22,000/- Completed	
3	Major research projects DST(31,15,400/-) + Rs. 4,12,000/- Industry Contribution Ongoing [IDP/Sen/135/07 dated 14 <sup>th</sup> June 2010]	2010-2013
4	Major research projects UGC : Rs. 7,29,300/- Ongoing [UGC/F.1 /37-332/2009(SR)]	2010-2013
5	For organization Rs. 6,80,000/- for NCLA-2006 [DST, CSIR, DIT, DBT, AERB, BRNS, UGC]	2006
<b>High Lights -Other Developmental Schemes/ Projects</b>		□
1	FIST-2010 Level-1 for Rs. 35.00 lakhs DST, New Delhi April, 2010 [Sanctioned vide letter no. SR/FST/PSI-003/2010 dated 29-10-2010]	2010
2	BARTI, Pune UPSC scheme Rs. 11.25 lakhs Govt. of Maharashtra Aug 2009 [ <u>Completed</u> ]	2009

3	MSJ-Govt. of India Scheme Rs. 15.00 lakhs Ministry of social justice July 2009 [Under <u>active Consideration</u> , Awaited]	2009
4	UGC- Merged schemes proposal Rs. 120.00 lakhs UGC New Delhi June 2009 [Ongoing]	2007-2012
5	Swami Vivekananda Chair Scheme Rs. 12.00 lakhs UGC- New Delhi April 2009 [Ongoing]	2009-2012
6	DDF- Digital Library Facilities Govt. Of Maharashtra Scheme Rs. 70.00 lakhs Govt. of Maharashtra March 2008 [Completed]	2008
7	Competitive Examination Guidance Building proposal Rs. 50.00 lakhs VVVM, Govt. of Maharashtra February 2007 [Ongoing]	2007
8	Restructuring Of Courses At UG Level Rs. 500000/- at SSE's science college Nagpur. in 1984-85 [Completed]	1984-85
<b>High Lights -Research Publications and Presentations ( Total 115)</b>		□
1	Foreign journals (Impact Factor >2) with citations>20.	5
2	Foreign journals (Impact Factor >1) with citations >10	25
3	International Conferences	17
4	National Conferences	56
5	Invited talks	17
6	Chairing of Technical Sessions at National Level	11 times
7	Panel Discussion at National Level	4 times
<b>High Lights -Teaching, Research and Administrative Experience</b>		□
1	24+ years of teaching experience (20+ full time Exclusively at Post Graduate level and 5 yrs at UG Level)	
2	As a Professor 10+ years (Exclusive PG and Research Level)	
3	As a Reader 8 years (Exclusive PG and Research Level)	
4	As Lecture 6 years ((Exclusive PG and Research Level 2 years & UG Lever 4 years)	
5	23+ years of administrative experience (HOD UG 5+, HOD PG 4, & Warden 6, Liaison officer 5, Coordinator-UGC-ESS 3 years, Director)	

6	Worked as Warden, University Boys' Hostel since June (1998-2004).,	
7	Worked as Enquiry Officer (1994-95, 2007-08, 2007-09)	
<b>High Lights -Active Participation with Responsibilities assigned</b>		<b>□</b>
1	Conferences/Symposia/Seminar	42
2	Workshop attended.(UGC , DST, IPA)	17
3	[As a Resource Person for O/R Courses:	30
4	(i)Participation in Orientation Courses:	2
5	(ii)Participation Refresher Courses: -	1
6	(iii)Participation in WORKSHOPS	14
7	(v)Participation as a Resource Person:	30
8	(vi)Helped in Management by following activities/ Various Competitions:	33
9	Extension activities:	6
<b>High Lights - Memberships (Mostly Life Member and representative on executive bodies)</b>		<b>□</b>
1	Life Memberships of National Level academic societies like LSI, MRSI, ISI, SPMR, IPA, IAPT, VUPTA, AUPTA, and RVS.	9
2	Membership of professional bodies:	9
3	Membership of Libraries/academic bodies:	5
4	Social Activities :	3
5	Member, Editorial Board, (2000-2003, 2006-2009) Maharashtra State Gazetteer Department, Mumbai, LSI journal, AURJ etc	5
6	Represented all Academic Authorities (BOS, BUTR, DRC, Faculty, Academic Council and Senate) and other Bodies of Amravati University.	6
7	Academic bodies (University/Regional/Local Level)	36
8	Bodies (Co-curricular) (University/Regional/Local Level)	47
9	Societies (University/Regional/Local Level)	17
<b>High Lights - Scholar's/Student's Leadership Responsible Positions</b>		<b>□</b>

1	Coordinator, Maharashtra State (1987-90) National Co-ordination Committee Of Young Scientists & Research Fellows New Delhi.	
2	President, Revolutionary Researchers' Ring Nagpur University Nagpur. (1986-92)	
3	General Secretary, NURA, Nagpur University (1985-86) Nagpur.	
4	Departmental Representative, Nagpur University (1984-85) Researchers' Association Nagpur University, Nagpur	
5	President Students' Council (1979-80) P. N. College, Pusad	
6	President Science Association (1978-79) P. N. College, Pusad	
7	Class Representative(1976-77) P. N. College, Pusad	
8	School Captain(1974-75) K. D. High school, Pusad	
<b>High Lights - Contribution to Academic Enviorment</b>		□
1	Responsible Positions Held In Academic Committees:	27
2	Worked as expert for interview/assessment/guidance: (Subject Expert:, Member: LEC, Vice-Chancellor Nominee/ Subject Expert Nomination by Govt. of Maharashtra.)	40
3	Worked as examiner for the following Universities:	9
4	Worked as a Member on Committee for examinations of this University:	9
5	Member of IQAR, IQAC, TRDEA, PAT SGBAU, Amravati.	9
6	(H)Departmental work/Achievements:	11
7	(Organizational Contribution: National Seminars/Conferences/Workshop:	25
8	Special efforts to guide the students:	9
9	(ii) Teaching methods adopted.:	15
10	(iii)Contribution in Administration of University/Departments:	11
11	Involved in the pioneering work of the establishment of the University Department Viz Construction of Extension Laboratory Block (1992-93), Establishment of all Laboratories (1992-95)	

<b>Teaching Experience</b>			
1	<b>Professor</b> Department of Physics Sant Gadge Baba Amaravati University, Amaravati	8/06/2000	Till Date
2	<b>Reader (Selected)</b> Department of Physics Sant Gadge Baba Amaravati University, Amaravati	8/06/92	7/06/2000
3	<b>Contributory Lecturer</b> Department of Physics, Nagpur University, Nagpur.	1/12/87	07/06/92
4	<b>Senior Scale Lecturer</b> Department of Electronics Sh. M. M. Science College, Umred Road, Nagpur.	23/09/91	7/06/92
5	<b>Lecturer</b> in Electronics Department of Physics, Sh. M. M. Science College, Umred Road, Nagpur.	1/12/87	22/09/91
6	<b>Lecturer</b> in Physics, Department of Physics, Nagpur University, Nagpur.	20/9/86	30/11/87
7	<b>Lecturer</b> in Electronics, SSE's Science College, Nagpur.	25/9/84	20/4/85
<b>Administrative Experience</b>			
1	<b>HEAD</b> Department of Physics, Sant Gadge Baba Amaravati University, Amaravati	30-3-2010	Till date
2	<b>COORDINATOR</b> UGC Scheme of Coaching for Entry Services for SC/ST & Minorities	12 Jan 2007	15 July 2010
3	<b>WARDEN</b> PG BOYS HOSTEL Amaravati University, Amaravati	8/06/1997	6/9/2004
4	<b>HEAD</b> , Department of Physics Amaravati University, Amaravati	9/2/2000	17/1/2001
5	<b>HEAD</b> , Department of Physics Amaravati University, Amaravati	8/06/92	31/03/95
6	<b>LAISON OFFICER</b> Sh. M. M. Science College, Umred Road, Nagpur.	1/12/87	7/6/1992
7	<b>INCHARGE-HEAD</b> Electronics Department, Sh. M. M. Science College, Umred Road, Nagpur.	1/12/87	22/09/91
8	<b>HEAD</b> Department of Electronics, SSE's Science College, Nagpur	25/9/84	20/4/85

## DETAIL CURRICULUM VITAE OF DR. S. K. OMANWAR

**ACADEMIC RECORD** | **EXPERIENCE:** Teaching, Administrative and Research | **RESEARCH PUBLICATIONS** International Journals, International Conferences, National Conferences, Invited Talks and Panel Discussion | **RESEARCH GUIDANCE:** List of Ph.D. Awardees, List of Project Fellows, List of Present Scholars | **PROJECTS:** Individual Sponsored Projects, Other Infrastructural Projects | **AWARDS AND RECOGNITION** | **PARTICIPATION:** International Events, National Events, Orientation Courses, Refresher Courses, Workshops | **ORGANIZATIONAL CONTRIBUTION** | **EXTENSION ACTIVITY** | **CONTRIBUTION TO ACADEMIC ENVIRONMENT (A TO H)** | **MADE ACADEMIC EXCELLENCE (i TO v)** | **RECORD OF TEACHING (a TO c)** |

### 1. ACADEMIC RECORD

SN	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.(Physics)	Nagpur University Nagpur	1982	First 74.80	Specialization in Dig. Elect, Microprocessor & Sol. St. Physics	<b>Distinction in Specialization S.S.P.&amp;D.E.&amp;MP and University Merit Rank-2</b>
3	B.Sc.	Nagpur University Nagpur	1980	First 70.67	PHYS.,CHEM., MTH.,	<b>Distinction in Chemistry &amp; University Gold Medal</b>
4	H.S.C.(XII)	M.S. Board Nagpur Division	1977	First 60.00	PHYS.,CHEM., MTH.,BIO., MAR.,ENG.	<b>Distinction in Physics.</b>
5	S.S.C.(X)	M.S. Board Nagpur Division	1975	First 66.42	SCI., MTH.,SOC.SCI., ENG,MAR	<b>Distinction in Mathematics.</b>

**EXPERIENCE: TEACHING, ADMINISTRATIVE AND RESEARCH :****A] TEACHING EXPERIENCE:**

SN	Post held & Name of Department/Institution	From	To	Pay Scale	Years/Level
1	Professor Department of Physics Amaravati University, Amaravati	8/06/20 00	Till Date	37400- 67000	[P.G. / Research LEVEL]
2	Reader (Selected) Department of Physics Amaravati University, Amaravati	8/06/92	7/06/20 00	12000 - 18300	8 years [P.G. / Research LEVEL]
3	Contributory Lecturer Department of Physics, Nagpur University, Nagpur.	1/12/87	07/06/9 2	CHB	4 years & 6 months [P.G.LEVEL]
4	Senior Scale Lecturer Department of Electronics Sh. M. M. Science College, Umred Road, Nagpur.	23/09/9 1	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	22/09/9 1	2200 - 4000	2 years & 9 months [U.G. LEVEL]
6	Lecturer in Physics, Department of Physics, Nagpur University, Nagpur.	20/9/86	30/11/8 7	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]

**B] ADMINISTRATIVE EXPERIENCE:**

S.N.	Post held & Name of Department/Institution	From	To	Remarks
1	HEAD Department of Physics, Sant Gadge Baba Amaravati University, Amaravati	30-3- 2010	Till date	Enhance activities in academics and research
2	COORDINATOR UGC Scheme of Coaching for Entry Services for SC/ST & Minorities	12 Jan 2007	15 July 2010	Planned, Conducted 16 programs
3	WARDEN PG BOYS HOSTEL Amaravati University, Amaravati	8/06/19 97	6/9/200 4	Established the hostel
4	HEAD Department of Physics Amaravati University, Amaravati	8/06/92 9/2/200 0	31/03/9 5 17/1/20 01	Established the Department
5	LAISON OFFICER Sh. M. M. Science College, Umred Road, Nagpur.	1/12/87	7/6/199 2	Extramural Activity

S.N.	Post held & Name of Department/Institution	From	To	Remarks
6	INCHARGE-HEAD Electronics Department, Sh. M. M. Science College, Umred Road, Nagpur.	1/12/87	22/09/9 1	Establishment of new Department
7	HEAD Department of Electronics, SSE's Science College, NGP.	25/9/84	20/4/85	The only person in Nagpur University

C] **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	14 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

**2. Research Publications:**

[A]	Numeric Data:	Journal	Conf. Proc.	Total
i.	International level	25	17	42
ii.	National level	00	53	53
iii.	Invited talks	-	14	14

[B] **International Journals: Papers**

S.N.	Details of Publication in Journals of Dr. S. K. Omanwar	Impact Factor
1	Combustion synthesis and photoluminescence of $\text{Eu}^{2+}$ doped $\text{BaB}_8\text{O}_{13}$ R.P.Sonekar , S.K.Omanwar , S.V.Moharil <i>Indian Journal of Pure &amp; Applied Physics</i> , Vol. 47, June 2009, pp. 441-443	0.36
2	Luminescence in $\text{LaBa}_9\text{O}_{16}$ prepared by combustion synthesis R.P.Sonekar , S.K.Omanwar , S.V.Moharil , S.M.Dhopte , P.L.Muthal and V.K. Kondawar <i>Journal of Luminescence</i> , Volume 129 Issue 2 February 2009 (2009) Pages 624-628(IF-1.611) <a href="#">Top 25 Hottest Articles Physics and Astronomy &gt; Journal of Luminescence</a> April - June 2009 Rank-20	1.611
3	Preparation and Characterization of $\text{LiAEAlF}_6$ : Eu (AE=Mg, Ca, Sr or Ba) phosphors Belsare, P.D.; Joshi, C.P.; Moharil, S.V.; Omanwar, S.K.; Muthal, P.L.; Dhopte, S.M. <i>Journal of Luminescence</i> , Volume 129, Issue 2, February 2009 , Pages 135-139(IF-1.611) <a href="#">Top 25 Hottest Articles Physics and Astronomy &gt; Journal of Luminescence</a> October - December 2008 Rank-20	1.611

4	<b>One step synthesis of Ce<sup>3+</sup> activated alumino-fluoride powders</b> Belsare, P.D.; Joshi, C.P.; Moharil, S.V.; Omanwar, S.K.; Muthal, P.L.; Dhopte, S.M. <i>Optical Materials, Volume 31, Issue 4, February 2009, Pages 668-672(IF-1.589)</i>	1.589
5	<b>One step synthesis of complex fluoride powders for solid-state lasers</b> Belsare, P.D.; Joshi, C.P.; Moharil, S.V.; Omanwar, S.K.; Muthal, P.L.; Dhopte, S.M. <i>Journal of Alloys and Compounds, Vol. 464 Issue 1-2, September 2008 Page 296-300 22(IF-1.455)</i>	1.455
6	<b>Synthesis of CaSO<sub>4</sub>:Dy, CaSO<sub>4</sub>:Eu<sup>3+</sup> and CaSO<sub>4</sub>:Eu<sup>2+</sup> phosphors</b> N.B. Ingle, S.K. Omanwar, P.L. Muthal, S.M. Dhopte, V.K. Kondawar, T.K. Gundurao, S.V. Moharil <i>Journal of Radiation Measurements Elsevier Publication Vol. 43, Issue 7 August, 2008 Page 1191-1197 (IF-1.054)</i>	1.054
7	<b>Thermoluminescence Characteristics of LiF:Mg,Cu,P phosphor prepared by Reactive Atmospheric Processing.</b> Belsare, P.D.; Omanwar, S.K. Moharil, S.V. and Bhatt B. C. <i>Amravati University Research Journal, ISSN- 0973-9173 Volume 3, Issue 1, January 2008, Pages 43-48</i>	--
8	<b>Combustion synthesis of narrow UVB emitting rare earth borate phosphors</b> R.P.Sonekar , S.K.Omanwar , S.V.Moharil , S.M.Dhopte , P.L.Muthal and V.K. Kondawar <i>Optical Materials, Volume 30, Issue 4, December 2007, Pages 622-625 (IF-1.519)</i>	1.519
9	<b>TL in halosulphate phosphors prepared by wet chemical method</b> <i>Eur. Phys. J. Appl. Phys. 39, 39-43 (2007)</i>	1.523
10	<b>Combustion synthesis of borate phosphors</b> D.S.Thakare, S.K.Omanwar, S.V.Moharil, S.M.Dhopte, P.L.Muthal, V.K.Kondawar <i>Optical Materials, Volume 29, Issue 12, August 2007, Pages 1731-1735(IF-1.519)</i>	1.519
11	<b>Luminescence characteristics of LiCaAlF<sub>6</sub>:Eu phosphor</b> G.A.Aghalate, S.K.Omanwar and S.V.Moharil <i>physica status solidi (a) Volume 204, Issue 5, Date: May 2007, Pages: 1561-1566</i>	1.611
12	<b>Combustion synthesis of silicate phosphors</b> V.B.Bhatkar ,S.K.Omanwar ,and S.V.Moharil <i>Optical Materials, Volume 29, Issue 8, April 2007, Pages 1066-1070(IF-1.519)</i>	1.519
13	<b>Combustion Synthesis and Photoluminescence of Eu<sup>3+</sup> doped Sodium Borates.</b> R. P. Sonekar, S. K. Omanwar and S. V. Moharil <i>ACMILLAN Advance Research Series ISBN No. 978-0230-63054-3, January 2007 Page No. 310-313,.</i>	1.101
14	<b>Photoluminescence of Ce<sup>3+</sup> doped UV emitting Borate Compounds</b> R. P. Sonekar, S. K. Omanwar and S. V. Moharil <i>MACMILLAN Advance Research Series ISBN No. 978-0230-63054-3, January 2007 Page No. 272-274,.</i>	1.101
15	<b>Thermoluminescence of LiMAIF<sub>6</sub>: (M = Mg, Ca, Sr) Using Various Dopants Mn, Cu, Eu, and Dy.</b> G. A. Aghalate, S. K. Omanwar and S. V. Moharil <i>MACMILLAN Advance Research Series ISBN No. 978-0230-63054-3, January 2007 Page No. 29-33</i>	1.101
16	<b>Eu<sup>2+</sup> Luminescence in Fluoride Phosphors</b> P. D. Belsare, S. K. Omanwar and S. V. Moharil <i>MACMILLAN Advance Research Series ISBN No. 978-0230-63054-3, January 2007 Page No. 299-302.</i>	1.101
17	<b>UV-emitting phosphors: synthesis, photoluminescence and applications</b> D. S. Thakare, S. K. Omanwar, P. L. Muthal, S. M. Dhopte, V. K. Kondawar and S. V. Moharil <i>physica status solidi (a) Volume 201, Issue 3, Date: February 2004, Pages: 574-581</i>	1.611
18	<b>Combustion Synthesis of the Zn<sub>2</sub>SiO<sub>4</sub>:Mn Phosphor</b> V.B.Bhatkar , S.K.Omanwar , and S.V.Moharil <i>physica status solidi (a) Volume 191, Issue 1, Date: May 2002, Pages: 272-276</i>	1.611
19	<b>Preferred practical microsteps.</b> G. A. Aghalate and S. K. Omanwar <i>Bullatin of IAPT, 13, Issue 6, May 1996 page 137-140</i>	0.312

20	<b>On the role of electron centres in TL processes.</b> B. T. Deshmukh, S. K. Omanwar and S. V. Moharil <i>Crys.Latt. Def.&amp;Am.Sols</i> , 18, 441 (1989)	4.331
21	<b>Colloid formation in microcrystalline powders of NaCl.</b> B. T. Deshmukh, S. K. Omanwar and S. V. Moharil <i>Crys. Latt. Def.&amp;Am.Sols</i> , 14,35 (1987)	4.331
22	<b>Thermoluminescence of Colloid centres in NaCl.</b> B. T. Deshmukh, S. K. Omanwar and S. V. Moharil <i>Phys.Stat. Sol(a)</i> .,96, 211 (1986)	1.611
23	<b>Spontaneous colloid formation in microcrystalline powders of Synthetic NaCl in Electrode less discharge: particle size dependence.</b> B. T. Deshmukh, S. K. Omanwar and S. V. Moharil <i>Rad. Eff.</i> 97, 21 (1986)	3.229
24	<b>Growth of Colloids in microcrystalline powders of coloured KCl: particle size dependence.</b> B. T. Deshmukh, S. K. Omanwar and S. V. Moharil <i>J.Phys. C</i> , 18, 2615 (1985)	5.221
25	<b>A new colour centre in NaCl</b> B. T. Deshmukh, S. K. Omanwar and S. V. Moharil <i>Physics Letters A</i> , Volume 98, Issue 4, 17 October 1983, Pages 203-204	1.715

[C] International Conferences: Papers

S.N.	<b>Details of Publication in International Conferences (Full Text Papers) of Dr. S. K. Omanwar</b>	
1	<b>Developing Lif: Mg, Cu, P Using Wet Chemical Synthesis At Reduced Cost</b> P. D. Belsare, S. K. Omanwar, S. V. Moharil and B. C. Bhatt <i>International Conference on Luminescence and its Applications-2008 (ICLA-2008)</i> , National Physical Laboratory, New Delhi, February 12-17, 2008	
2	<b>PL &amp; TL Studies of Li<sub>3</sub>PO<sub>4</sub>:Cu &amp; Li<sub>3</sub>PO<sub>4</sub>:Cu,Mg</b> G. A. Aghalate , S. K. Omanwar, and S. V. Moharil <i>International Conference on Luminescence and its Applications-2008 (ICLA-2008)</i> , National Physical Laboratory, New Delhi, February 12-17, 2008	
3	<b>On the Preparation of Complex Aluminium Fluorides</b> P. D. Belsare, S. K. Omanwar, C. P. Joshi and S. V. Moharil <i>International Conference on Luminescence and its Applications-2008 (ICLA-2008)</i> , National Physical Laboratory, New Delhi, February 12-17, 2008	
4	<b>Combustion Synthesis And Photoluminescence Of Eu<sup>2+</sup> Doped BaB<sub>8</sub>O<sub>13</sub></b> R. P. Sonekar, S. K. Omanwar, and S. V. Moharil <i>International Conference on Luminescence and its Applications-2008 (ICLA-2008)</i> , National Physical Laboratory, New Delhi, February 12-17, 2008	
5	<b>Phototherapy with fluoride phosphors</b> P. D. Belsare, S. K. Omanwar, C. P. Joshi and S. V. Moharil <i>International Conference on Luminescence and its Applications-2008 (ICLA-2008)</i> , National Physical Laboratory, New Delhi, February 12-17, 2008 (Awarded outstanding presentation prize)	
6	<b>Thermoluminescence studies of LiMBO<sub>3</sub>:Re ( M=Mg, Ca, Sr, Ba &amp; Re=Ce, Dy)</b> G. A. Aghalate, S. K. Omanwar, and S. V. Moharil <i>International Conference on Luminescence and its Applications-2008 (ICLA-2008)</i> , National Physical Laboratory, New Delhi, February 12-17,	
7	<b>Synthesis And Photoluminescence Of Eu<sup>2+</sup> Doped Alkali ``C Alkaline Earth Borates Mm<sub>i</sub>ÄB<sub>9</sub>O<sub>15</sub> (M=Na, M<sub>j</sub>ä=Ba; M=Li, M<sub>j</sub>ä=Ba, Sr)</b> R. P. Sonekar, S. K. Omanwar, and S. V. Moharil <i>International Conference on Luminescence and its Applications-2008 (ICLA-2008)</i> , National Physical Laboratory, New Delhi, February 12-17, 2008	

8	<b>Photoluminescence Of <math>Y_2O_3:Eu^{3+}</math> And <math>YVO_4:Eu^{3+}</math> Phosphors Synthesized By Reactions In Molten Salts.</b> B. K. Katore, S. K. Omanwar and S. V. Moharil <i>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</i>
9	<b>An Efficient Blue Emitting Phosphor For Photoluminescent Liquid Crystal Display Application</b> V. B. Bhatkar, S. K. Omanwar and S. V. Moharil <i>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</i>
10	<b>Improved Yttria Yet At Reduced Cost</b> N. B. Ingle, S. K. Omanwar and S. V. Moharil <i>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</i>
11	<b><math>Li_5AlO_4: Cu</math>, A Promising TLD Material</b> <i>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</i>
12	<b>Thermoluminescence and Photoluminescence of <math>CaSO_4:Eu</math> phosphor prepared by different Co-precipitation routes.</b> N. B. Ingle, B. K. Katore, S. K. Omanwar and S. V. Moharil <i>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</i>
13	<b>Preparation and characterization of Nano-crystalline <math>MgB_4O_7: Dy</math> for Radiation Dosimetry using Thermoluminescence Technique</b> A. K. Pandey, P. D. Sahare, S. K. Omanwar <i>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.</i>
14	<b>Combustion Synthesis of Pb Activated Barium Disilicate Phosphor.</b> V. B. Bhatkar, S. K. Omanwar and S. V. Moharil <i>International Symposium on Recent Trends in Inorganic Materials, December 11-13, 2002 I.I.T. Pawai, Mumbai. Proceeding page OE-120</i>
15	<b>Role of Physics Education in Industrial Development.</b> B. T. Deshmukh, S. K. Omanwar and S. V. Moharil <i>Int. Nat. Conference of Physics &amp; Industrial Development: Bridging the Gap, New Delhi. (1993)</i>
16	<b>Easy growth of colloids in microcrystalline powders of KCl.</b> B. T. Deshmukh, S. K. Omanwar and S. V. Moharil <i>Proc. of Int.Conf.on Defects in Ionic Crystals. University of Utah Salt Lake City, USA. Page 221. (1984)</i>
17	<b>On the mechanism of ease of colloid formation in microcrystalline powders of NaCl.</b> B. T. Deshmukh, S. K. Omanwar and S. V. Moharil <i>Proc. Int. Conf.on Defects in Ionic Crystals Univ. of Utah, Salt Lake city USA. Page 223. (1984)</i>

**[D] National Conferences: Papers**

S.N.	Details of Publication in National Conferences (Full Text Papers) of Dr. S. K. Omanwar
1	Synthesis and Photoluminescence Characteristics of $LiBaB_9O_{15}:Eu^{2+}$ National Conference on Recent Trends in Engineering Sciences, 11-12 October 2010, Dr. B. N. College of Engg. & Tech., Yavatmal.
2	Recent Trends in Solid State Lighting Devices Invited Talk at National Conference on Recent Trends in Engineering Sciences, 11-12 October 2010, Dr. B. N. College of Engg. & Tech., Yavatmal.

3	Developing Frontiers of Physics Special Reference to Phosphors for Solid State Lighting and Display Devices National Conference of DFPASS, 24-25 September 2010, at RLT College Akola
4	Fluoride Preparation: Problems And Solutions. P.D.Belsare, S.Y.Pant C.P.Joshi, S.V.Moharil And S.K.Omanwar National Conference on Luminescence and its Application-2010 (NCLA-2010), Gandhigram Rural Institute (Deemed University), Dindigul, T.N. & Kalasalingam University February 9-11, 2010 PL-22, Page 47 2010 proceedings
5	Luminescence Study Of $\text{NaBa}_9\text{O}_{15}\text{-Eu}^{2+}$ P. A. Nagpure, D. Chikte, R. P. Sonekar, S. K. Omanwar National Conference on Luminescence and its Application-2010 (NCLA-2010), Gandhigram Rural Institute (Deemed University), Dindigul, T.N. & Kalasalingam University February 9-11, 2010 PL-58, Page 83, 2010 proceedings
6	Synthesis And Luminescence In Novel Rare Earth Pentaborate $\text{La}_5\text{O}_9$ R P Sonekar, S K Omanwar & S V Moharil National Conference on Luminescence and its Application-2010 (NCLA-2010), Gandhigram Rural Institute (Deemed University), Dindigul, T.N. & Kalasalingam University February 9-11, 2010 PL-59, Page 84, 2010 proceedings
7	Radiation Environment Monitoring using Luminescence Techniques S. K. Omanwar, National Level Seminar on Water, Energy, Environment and Society 30 <sup>th</sup> January 2010, at P. N. College, Pusad PP–23, pages -151-152
8	Our experiences in synthesis of Re doped borate phosphors. S. K. Omanwar Invited Talk (perspective talk in a special Session) National Conference on Luminescence and its Application-2009 (NCLA-2009) at Indian Association of Cultivation of Sciences (IACS), CGCRI, Kolkata during 19-21 February 2009, Proceedings Book Vol XIX PT-4 page 21-26.
9	Synthesis and photoluminescence of $\text{eu}^{2+}$ doped blue emitting borate phosphor $\text{SrAl}_2\text{B}_2\text{O}_7$ . R. P. Sonekar, S. K. Omanwar, S. V. Moharil National Conference on Luminescence and its Application-2009 (NCLA-2009) at Indian Association of Cultivation of Sciences (IACS), CGCRI, Kolkata during 19-21 February 2009, Proceedings Book Vol XIX 42 page 160-163.
10	Synthesis and optically stimulated luminescence of $\text{LiCaAlF}_6\text{:Eu}$ and $\text{Li}_3\text{PO}_4\text{:Cu}$ . G. A. Aghalate, S. K. Omanwar, S. V. Moharil National Conference on Luminescence and its Application-2009 (NCLA-2009) at Indian Association of Cultivation of Sciences (IACS), CGCRI, Kolkata during 19-21 February 2009, Proceedings Book Vol XIX 71, Page 272-275
11	Radiation measurements with novel techniques in Luminescence S. K. Omanwar Invited Talk at National Conference o Recent trends Basic and Applied Materials at Institute of Science, Nagpur 10-11 January 2009.
12	Combustion Synthesis and Photoluminescence of $\text{Eu}^{2+}$ doped UV Emitting Borate Phosphor: $\text{BaAl}_2\text{B}_2\text{O}_7$ Full Txt Paper in Proceedings of National Conference o Recent trends Basic and Applied Materials at Institute of Science, Nagpur 10-11 January 2009
13	Novel Techniques in Radiation Measurements S. K. Omanwar Invited Talk at National Conference on Display Phosphors Application NSDPA-2008, Savitha University, Chennai, Tamilnadu 10-11 October, 2008.
14	Effect of medium on Particle size of $\text{CaSO}_4\text{:Eu}$ during co-precipitation routes. G. A. Aghalate, S. K. Omanwar <i>National Conference on Recent Trends in Nanoscience (NS-2006)</i> , <i>Proceedings of Page 169-172</i> . Kamla Nehru College, Nagpur., January 15, 2006

15	Luminescence in $\text{Ce}^{3+}$ & $\text{Eu}^{3+}$ in Chloroborate $\text{Ba}_2\text{Y}(\text{BO}_3)_2\text{Cl}$ R. P. Sonekar, S. K. Omanwar, S. V. Moharil <i>National Conference on Recent Trends in Nanoscience (NS-2006)</i> , Proceedings of Page 128-132 Kamla Nehru College, Nagpur., January 15, 2006
16	Combustion Synthesis And Luminescence Properties Of $\text{Eu}^{3+}$ Activated Lithium Rare-Earth Borates. R. P. Sonekar, S. K. Omanwar, S. V. Moharil National Conference on Luminescence an its Applications NCLA-2006, Proceedings of NCLA-2006, Vol 14, page 191-192, Sant Gadge Baba Amravati University Amravati, February 7-9-, 2006
17	Combustion Synthesis And Characterization Of $\text{Y}_2\text{O}_3:\text{Eu}$ Phosphor B. K. Katore, S. K. Omanwar, S. V. Moharil National Conference on Luminescence an its Applications NCLA-2006, Proceedings of NCLA-2006, Vol 14, page 193-195 Sant Gadge Baba Amravati University Amravati, February 7-9-, 2006
18	Synthesis And Photoluminescence Study Of $\text{LaMgB}_5\text{O}_{10}:\text{Re}$ (Re = Ce & Ce, Gd) R. P. Sonekar, S. K. Omanwar, S. V. Moharil National Conference on Luminescence an its Applications NCLA-2006, Proceedings of NCLA-2006, Vol 14, page 205-208, Sant Gadge Baba Amravati University Amravati, February 7-9-, 2006
19	Effect Of Synthesis Conditions On Photoluminescence Of $\text{CaSO}_4:\text{Eu}$ Phosphor, N. B. Ingle, S. K. Omanwar, S. V. Moharil National Conference on Luminescence an its Applications NCLA-2006, Proceedings of NCLA-2006, Vol 14, page 211-214, Sant Gadge Baba Amravati University Amravati, February 7-9-, 2006
20	$\text{Ce}^{3+}$ Emission In Some Mixed Fluorides P. D. Belsare, S. K. Omanwar, S. V. Moharil National Conference on Luminescence an its Applications NCLA-2006, Proceedings of NCLA-2006, Vol 14, page 217-218, Sant Gadge Baba Amravati University Amravati, February 7-9-, 2006
21	Fabrication of Low Cost Combustion Chamber for Synthesis of Luminescent Materials. G. A. Aghalate, S. K. Omanwar NSPAET-2005, VNIT, Nagpur 3-5 March 2005 page 51
22	Combustion Synthesis of $\text{Li}_5\text{AlO}_4:\text{Cu}$ TLD Phosphor B. K. Katore, S. K. Omanwar, NSPAET-2005, VNIT, Nagpur 3-5 March 2005 page 43
23	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.
24	Synthesis and characterization of Eu doped $\text{YVPO}_4$ HPMV Lamp Phosphor, B. K. Katore, D. S. Thakre, S. K. Omanwar, S. V. Moharil Proc. Of National Seminar on Advance Low Dimension Devices. Nabira College, Katol December 20, 2004. Page 36-41
25	Combustion Synthesis of Advanced Inorganic Materials B. K. Katore, N. B. Ingle and S. K. Omanwar Proc. Of NSGCSM-2004, LIT, Nagpur University, Nagpur 20-21 Nov. 2004 page-74-77
26	Novel Synthesis of Luminescent Materials B. K. Katore, N. B. Ingle and S. K. Omanwar Proc. Of NSGCSM-2004, LIT, Nagpur University, Nagpur 20-21 Nov. 2004 page-80-83
27	Low cost synthesis of $\text{MgB}_4\text{O}_7:\text{Dy},\text{Na}$ 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.
28	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

29	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
30	Photoluminescence of CaO:Bi <sup>3+</sup> 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
31	Photoluminescence of CaS:Eu <sup>3+</sup> 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
32	Thermoluminescence of Li <sub>5</sub> AlO <sub>4</sub> :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
33	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.
34	Synthesis of YVO <sub>4</sub> : Eu and YVO <sub>4</sub> :Dy Phosphors. National Seminar on Luminescence & Its Application, Proceeding Volume XI,PP 386-389 Feb. 12-14, 2003 at NPL New Delhi.
35	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)
36	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)
37	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)
38	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)
39	Materials for Photoluminescent Liquid Crystal Displays. National Seminar on Materials for Electronic & Optoelectronic Devices, 2002, JNV University, Jodhpur Vol. OP36, PP 43
40	Core Exposition of Basic Concepts in Digital Techniques Accepted at IAPT Convention during November 15-17, 2002 Gulbarga.
41	Cost Effective Studies in Eu <sup>3+</sup> Activated Yttrium Host Phosphors. Proceeding of the National Seminar on Luminescence and its Application, <i>December 16-18, 2001, Vol . IX, page 78-82.</i>
42	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)
43	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)
44	Higher Education: A Right Perspective. National Science Congress Jan 3-7, 2002. Lakhanow (Focal Theme Poster Presentation).

45	Cost Effective Novel Techniques for the Synthesis of Luminescent Materials. Presented at National Conference on Recent Trends in Composites. Feb 28-March2, 2001, Proceeding page-42
46	Development of better research facility through low cost instrumentation. IAPT Convention 21-22 Dec. 1994. Omanwar S. K. and Ingle N.B.
47	Colloid growth in NaCl powder, XVII NS on crystallography 7-9(1986) Deshmukh B.T., Omanwar S.K. and Moharil S. V.
48	On the role of colloids in TL processes, DAEs SSP Symp. 29C.52 (1986) Deshmukh B.T., Omanwar S.K. and Moharil S. V.
49	Characterization of colloids : origin of growth is F centre aggregation. .XVINSNC, E-21. 217. (1985) Deshmukh B.T., Omanwar S.K. and Moharil S. V.
50	E Centres in NaCl.. XVI NS on crystallography, E-20, 216(1985) Omanwar S. K. and Deshmukh B.T.
51	Interactions between dislocations and colloid centres in alkali halide DAEs SSP Symp ; 28C,T-8 19(1985) Omanwar S.K
52	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.
53	Interaction between dislocations and colloid centres alkali halides. DAE's SSP Symposium. 28A, 222 (1985) Omanwar S.K.
54	Colloid formation in NaCl, DAE's SSP Symp; 27C. 34(1984) Deshmukh B.T., Omanwar S.K. and Moharil S. V.
55	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.
56	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:**

<b>S.N.</b>	<b><i>Details of Invited Talks (Full Text Papers) of Dr. S. K. Omanwar</i></b>
1	<b><i>Recent Trends in Solid State Lighting Devices Invited Talk at National Conference on Recent Trends in Engineering Sciences, 11-12 October 2010, Dr. B. N. College of Engg. &amp; Tech., Yavatmal.</i></b>
2	<b><i>Types of Question and evaluation strategy 2<sup>nd</sup> National Work Shop on Preparation of Question Bank jointly organized by AIU and SGBAU, Amravati 9-10 August, 2010</i></b>
3	<b><i>Content Preparation summary of work done presentation for Physics Committee 1<sup>st</sup> National Work Shop on Preparation of Question Bank jointly organized by AIU and SGBAU, Amravati 2-4 July, 2010</i></b>
4	<b><i>Novel techniques in Luminescence for radiation measurement and assessment., Invited Talk at UGC Sponsored National Seminar on Synthesis of Advanced Materials and their Applications (SAMA-10) at N. H. College Bramhapuri, Dist. Chandrapur on 13<sup>th</sup> march 2010.</i></b>
5	<b><i>Our experiences in synthesis of Re doped borate phosphors. Invited Talk (perspective talk in a special Session) Invited for Lead Lecture at NCLA-2009 to be held at CGCRI, Kolkatta during February 19-21, 2009</i></b>

6	<i>Radiation measurements with novel techniques in Luminescence Invited Talk at National Conference o Recent trends Basic and Applied Materials at Institute of Science, Nagpur 10-11 January 2009.</i>
7	<i>“A scientific Approach towards student’ preparation and Inter-active Class room/Laboratory activity” Lecture at First Regional District Conference of High school science teachers at Warud on 21 December 2008.</i>
8	<i>“Novel techniques of radiation measurements using luminescence” National Seminar on Display Phosphors Applications NSDPA-2008 at Savitha College of Engineering, Thandalam, Chennai (TN) November 10-11, 2008</i>
9	<i>Potential TLD Phospor: LiCaAlF<sub>6</sub>:Eu. National Conference on Luminescence and its Applications, Bharti University, Coimbtore (TN), January 19, 2007. IT-VII 11.35 a.m. Chairman Dr. A. G. Page, Ex-President, LSI.</i>
10	<i>Novel Methods of Synthesis of Photo luminescent Materials Invited Talk to be delivered at National Seminar NSNSM, Nagpur Dec. 22, 2002.</i>
11	<i>Laser Systems &amp; Applications. Sh. Shivahi Science College, Akot under COSIP. (1999-2000)</i>
12	<i>Fundamentals of LASER &amp; Industrial Applications. Invited guest lecture at Kutuhal Science Meet. (1998-99)</i>
13	<i>Energizing P.G. Lab Activity. National Symp. on Live Issues Physics Education.TIET, Patiyala (1995)</i>
14	<i>Data acquisition interfacing modules using 8085 <math>\mu</math>P systems. DST Nat. W/S <math>\mu</math>P and PC Sys. Dr. B. A. Marathawada Univ., Aurangabad (1994).</i>
15	<i>Some aspects of Radiation damage in inorganic solids. Nat. W/S on Radiation Physics Nagpur University, Nagpur.(1992)</i>
16	<i>8085 Microprocessor and interfacing. TTP, MS Board Pune, J.B.Sci. College, Wardha.(1989)</i>
17	<i>Radiation Hazards : Health of living organisms. National Convention of NCCYS &amp; RF, New Delhi. (1987)</i>

[F] Chairing of Session:

S.N.	Level	Event	Place	Dates
1	National	National Conference on Recent Trends in Engineering Sciences(NSRTEES-2010)	Dr. B. N. College of Engg. & Tech., Yavatmal.	11-12 October 2010,
2	National	National Conference of Developing Frontiers of Physics : Astronomy & Space Sciences	“Guest of honour for Valedictory Function.RLT College Akola	24-25 September 2010,
3	National	National Level Seminar on Water, Energy, Environment and Society (WEES-2010)	P. N. College Pusad Dist Yavatmal	January 30 2010
4	National	National Seminar on Synthesis of Advance Materials and their Applications SAMA-2010	N. H. College Bramhapuri Dist Chandrapur	March 13, 2010
5	National	National Conference on Materials Science : Trends & Future - 2010 (NCMS-2010)	Vidyabharati Mahavidyalaya, Amravati	January 6-7, 2010
6	National Level	Workshop on recent trends in Physics Chairing of Session	Department of Physics SGBAU, Amravati	December 17-19, 2009

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

[G] Panel discussion

04

S.N.	Level	Event	Place	Dates
1	National Level	National Conference on Luminescence and its Application-2009 (NCLA-2009) Special Industrial session panel discussion	Indian Association of Cultivation of Sciences (IACS), CGCRI, Kolkata	19-21 February 2009
2	Regional Level	Inter-active Class room/Laboratory activity” Regional District Conference of High school science teachers at on 21 December 2008.	A T R High School, Warud, Distict Amravati	Dec 21-2008
3	National Level	National Seminar on Live Issues in Physics Education	Thapar Inst. of Engg. Tech. Patiyala.	6-9 Oct. 1995
4	National	National Convention of NCCYS & RF	AIIMS, New Delhi	April 5-7 1987

### 3. Research Guidance (No. of Students)

#### A] LIST OF Ph.D. AWRDEES

S.N.	NAME OF THE SCHOLER	TITLE OF THE THESIS	DATE OF AWARD	PUBLICATIONS REMARKS
1	Shri. G. A. Aghalate Assistant Professor, Department of Physics, L. T. College Wani, Dist: Yavatmal	Synthesis & Characterization of Lithium Based Luminescent Materials	16-10- 2008	Journal-2 Int.Conf-2 Nat. Conf-11 & FDP
2	Shri. R. P. Sonekar Associate Professor & Head, Department of Physics, G. S. Science, Arts & Commerce College, Khamgaon, Dist. Buldhana	Synthesis of Borate Host Luminescent Materials	16-10- 2008	Journal-3 Int. Conf-2 Nat. Conf- 12 FDP: MRP Sanctioned & Completed
3	Shri. B. K. Katore Associate Professor, Department of Physics, Dr. P.D. Polytechnic, Amravati	Synthesis & Characterization of Some Fluoride Based Luminescent Materials	14-12- 2006	Int. Conf-1 National Conf-10
4	Sh. N. B. Ingle Associate Professor, Department of Physics Ram Meghe Institute of Technology & Research, Badnera, Amravati	Some Aspects Of Luminescent Phosphors: Synthesis, Characterization And Development	23-2- 2004	Journal-1 Int.Conf-1 National Conf-12
5	Shri. D. S. Thakre Associate Professor, Department of Physics, Shri Shivaji College Akot, Dist Akola	Development of Photoluminescence Phosphors: Lamp Phosphors	28-11- 2003	Journal-2 Nat. Conf-8 FDP: MRP Sanctioned & Completed
6	Shri. V. B. Bhatkar Associate Professor & Head, Department of Physics, Shri Shivaji College Akot, Dist Akola	Study of Luminescence of Silicate & Vanadate based Phosphors	7-11- 2003	Journal-2 Int. Conf-2 Nat. Conf-8 FDP: MRP Sanctioned & Completed

## B] LIST OF PROJECT FELLOWS

S.N.	NAME OF THE SCHOLER	TITLE OF THE PROJECT , Outlay & SPONSORING AGENCY	PUBLICATIONS
1	Shri. Pankaj Belsare Assistant Professor, Department of Physics, Shri Ramdeo Baba College of Engineering ,Nagpur	<i>Developing Tissue Equivalent TLD Materials for Personnel Monitoring</i> Rs. 1856589.00 AERB, Department of Atomic Energy Government of India	Journal-4 International Conf-3 National Conf-15
2	Shri Nikhilesh Bajaj,	Developing Higher sensitive better tissue equivalent TLD Materials at Lower Cost, Rs. 729300/- University Grants Commission, New Delhi	

## C] LIST OF PRESENT SCHOLERS

S N	NAME OF THE SCHOLER	TITLE OF THE THESIS	REMARKS & DATE OF REGISTRATION
1	Shri. Pankaj Nagpure Assistant Professor, Department of Physics, Shri Shivaji Science College, Amravati	<i>Synthesis and Characterization of Borate Based Luminescent Materials</i>	Registered- July 2008 FDP -MRP Under process
2	Shri. Vishal Sonsale	<i>Comparative studies on Response of TLD materials to Low and very High ionizing radiations”.</i>	<i>Registered- January 2008.</i>
3	Shri. Nikhilesh Bajaj	Synthesis & Characterization of Some OSL Phosphors	Registered- January 2009
4	Ms. Devayani Chikte Assistant Professor, Department of Physics	<i>Synthesis &amp; Characterization of Some Promising Luminescent Materials: Special Reference to Solid State Lighting</i>	<i>Registered from July 2009 MRP Submitted &amp; it is Under Process</i>
5	<i>Shri. Suresh Bhagat</i> Assistant Professor, Department of Physics, R. A. Arts, S.M.K. Commerce & S.S.R.R. Science College Wasim	<i>Study of Multi-Application phosphor hosts with different activators</i>	<i>Registered from July 2009 MRP Sanctioned Rs. 2.00 Lakhs</i>
6	<i>Ku. Ujwala Raikwar Assistant Professor Thane Mumbai</i>	<i>Study of silicate materials for solid state lighting applications</i>	<i>Registered from July 2010</i>

## 4. Research Projects:

### A] Individual Sponsored projects

SN	AGENCY	TITLE	OUTLAY	YEAR	REMARKS
1	Major DST New Delhi	Developing OSL/RPL Sensors Based Instrument for radiation measurements.	Rs. 31,15,400/- IDP/Sen/135/07 dated 14 <sup>th</sup> June 2010	2010-2013	Ongoing
2	Major UGC, New Delhi	Developing Higher sensitive better tissue equivalent TLD Materials at Lower Cost	Rs. 7,29,300/- 37-332/2009(SR)	2010-2013	1-2-2010 to 31-1-2013
3	Major AERB, Govt. of India	Developing Tissue Equivalent TLD Materials for Personnel Monitoring	Rs. 18,56,589/- AERB/CSRP/31/02	(2005-08)	1-4-2005 to 31-3-2008
4	Minor UGC, New Delhi	<i>Synthesis of Borate Host Luminescent Materials</i>	42,000/-	(2002-04)	Sanctioned to Sh. R.P. Sonekar for Ph.D.
5	Minor UGC, New Delhi	<i>Development of photoluminescent phosphors: Lamp phosphors</i>	42,000/-	(1999-2001)	Sanctioned to Sh. D.S. Thakare for Ph.D.
6	Minor UGC, New Delhi	<i>Luminescence studies of silicate and Vanadate based phosphors</i>	48,000/-	(2000-2002)	Sanctioned to Sh. V.B. Bhatkar for Ph.D
7	Minor UGC, New Delhi	<i>Luminescence study of Silicate and Vanadate based phosphors</i>	25,000/-	(2001-2003)	

### B] Other Infrastructure Projects

S. N	AGENCY	TITLE	OUTLAY	YEAR	REMARKS
1	UGC, New Delhi	Additional Grant Proposal	30.32 Lakhs	Dec. 2010	Sanctioned
2	DST, New Delhi	FIST-2010 Level-1 Proposal	35.00 lakhs	Oct., 2010	Sanctioned
3	Govt. of Maharashtra	BARTI, Pune UPSC scheme	11.25 lakhs	Aug 2009	Sanctioned
4	Ministry of social justice	MSJ-Govt. of India Scheme	15.00 lakhs	July 2009	Awaited
5	UGC New Delhi	UGC- Merged schemes proposal	120.00 lakhs	June 2009	Sanctioned
6	UGC- New Delhi	Swami Vivekananda Chair Scheme	12.00 lakhs	April 2009	Sanctioned
7	Govt. of Maharashtra	DDF- Digital Library Facilities Govt. Of Maharashtra	70.00 lakhs	March 2008	Sanctioned
8	VVVM, Govt. of Maharashtra	Competitive Examination Guidance Building proposal	50.00 lakhs	February 2007	Sanctioned

## 5. Award/Recognition for own contribution received:

S.N	AWARD LEVEL	AWARD	PLACE/SESSION/PERIOD	REMARKS
1	International	Top 25 Hottest Articles Rank-20	Physics and Astronomy > Journal of Luminescence April - June 2009	Guide
2	International	Top 25 Hottest Articles Rank-20	Physics and Astronomy > Journal of Luminescence September - December 2008	Guide
3	International	Out standing paper presentation award	ICLA-2008, NPL, New Delhi 17-2-2008	Guide
4	National level	Research Associate ship	C.S.I.R. New Delhi 1986 for 5 years not joined	Associate
5	National level	Senior Res. Fellowship	C.S.I.R. New Delhi 1984-86	Fellow
6	National level	Senior Res. Fellowship	UGC, New Delhi during 1984-85	Fellow
7	National level	Junior Res. Fellowship	UGC, New Delhi during 1982-84	Fellow
8	National level	National Merit Scholarship	For PG Studies New Delhi 1980-82	Scholar
9	National level	Best Ph.D. thesis	National DAE SSP Symposium BRNS, DAE BARC, Bombay Aug 20-23 1985	Scholar
10	State Level	Appointed by Governor	as Member of Editorial Board Gazetteer of State of Maharashtra Govt. of Maharashtra (2006-2009)	Recognition
11	State Level	Appointed by Governor	as Member of Editorial Board Gazetteer of State of Maharashtra Govt. of Maharashtra (2003-2006)	Recognition
12	State Level	Appointed by Governor	as Member of Editorial Board Gazetteer of State of Maharashtra Govt. of Maharashtra (2000-2003)	Scholar
13	University Level	Merit Award	Merit rank-2 Nagpur University M.Sc (Physics)- 1982	Scholar
14	University Level	Awarded GOLD MEDAL	Top Scorer in Chemistry Nagpur University (B.Sc.-1980)	Scholar
15	State Level	Open Merit Scholarship	Maharashtra state Scholarship M.Sc. 1980-82	Scholar
16	State Level	Open Merit Scholarship	Maharashtra state Scholarship B.Sc. 1977-80	Scholar
17	State Level	Open Merit Scholarship	Maharashtra state Scholarship X Std 1975-1977	Scholar
18	State Level	Talent Scholarship	Maharashtra state Scholarship VII Std, 1973-1975	Scholar
19	State Level	Talent Scholarship	Maharashtra state Scholarship IV Std, 1971-1973	Scholar

## 6. 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 Recent Trends in Engineering Sciences(NSRTEs-2010)	Dr. B. N. College of Engg. & Tech., Yavatmal.	11-12 October 2010,	Invited Talk
2	National Conference of Developing Frontiers of Physics : Astronomu & Space Sciences "Guest of honour for Valedictory Function.	RLT College Akola	24-25 September 2010,	Guest at Valedictory Function
3	National Seminar on Synthesis of Advance Materials and their Applications SAMA-2010	N. H. College Bramhapuri Dist Chandrapur	March 13, 2010	Invited Talk
4	National Level Seminar on Water, Energy, Environment and Society (WEES-2010)	P. N. College Pusad Dist Yavatmal	January 30 2010	Chairman Technical Session and Paper presented

S.N.	Name of the Event	Place	Dates	Remarks
5	National Conference on Materials Science : Trends & Future - 2010 (NCMS-2010)	Vidyabharati Mahavidyalaya, Amravati	January 6-7, 2010	Member Judges for poster evaluation
6	National Conference on Luminescence and its Applications NCLA-2010	Department of Physics Gandhigram Rural Institute (Deemed Univ.) Dindigul, (TN)	February 9-11, 2010	Member, NOC, TC
7	Indo-Russian WS on Nanotechnology & Laser Induced Plasm-2009 (IRNANO-2009)	Department of Physics & Astrophysics, University of Delhi, Delhi	November 24-26, 2009	Invited talk, Member, NOC
8	National Conference on Accelerator & Low Level Radiation Safety	Inter University Accelerator Centre, New Delhi	November 18-20, 2009	Invited to present a paper
9	National Seminar on Display Phosphors and its Applications NSDPA-2009	Vivekanand Degree College, Bangalore	October 22-23, 2009	Invited Talk & Member, NOC
10	National Conference on Luminescence and its Applications NCLA-2009	CGCRI, Kolkatta	February 19-21, 2009	Invited Talk Perspective talk & 2 papers
11	National Seminar on Display Phosphors Applications NSDPA-2008	Savitha College of Engg, Thandalam, Chennai (TN)	November 10-11, 2008	Invited Talk
12	National Conference on Nanotrends-2008	M.P.Deo Dharampeth College Nagpur	September 27, 2008	
13	National Conference on Luminescence an its Applications NCLA-2007	<i>Bhartiar University, Coimbtore</i>	January 19-21, 2007	4 Full text papers
14	<i>National Conference on Recent Trends in Nanoscience (NS-2006),</i>	.Kamla Nehru College, Nagpur.,	January 15, 2006	2 full text papers
15	National Conference on Luminescence an its Applications NCLA-2006	Sant Gadge Baba Amravati University Amravati	February 7-9-, 2006	5 full text papers
16	NSPAET-2005	VNIT, Nagpur	3-5 March 2005	2 full text papers
17	National Conference on Luminescence and its Applications (NCLA-2005),	Bangalore University, Bangalore	2-4 February 2005	Invited Talk
18	National Seminar on Advance Low Dimension Devices.	Nabira College, Katol	December 20, 2004	1 Full text paper

S.N.	Name of the Event	Place	Dates	Remarks
19	NSGCSM-2004,	LIT, Nagpur University, Nagpur	20-21 Nov. 2004	2 full text papers
20	National Workshop on Accelerator and Radiation Environment Monitoring	Nuclear Science Centre, New Delhi	April 22-23, 2004	Only Abstract
21	National Seminar on Lasers and Their Applications,	Sant Gadge Baba Amravati University, Amravati	28-30 January, 2004	1 full text paper
22	National Seminar on Advanced Materials,	K. N. College, Nagpur	December 20, 2003	4 Full Text Papers
23	IAPT Convention	Chandigarh	December 17- 20, 2003	1 Abstract only
24	National Seminar on Luminescence & Its Application,	NPL New Delhi	Feb. 12-14, 2003	1 full text paper
25	National Seminar on Novel Synthesis of Materials (NSNSM - 2002),	K. N. College, Nagpur	December 22, 2002	4 full text papers
26	National Seminar on Materials for Electronic & Optoelectronic Devices	JNV University, Jodhpur	2002	1 full text paper
27	National Seminar on Luminescence and its Application,	R. D. University Jabalpur	<i>December 16- 18, 2001,</i>	1 Full text paper
28	Regional Work-Shop on Energizing Curriculum for Up-gradation of Standards	Amravati University, Amravati	July 14-15 2001	2 Full text papers
29	National Science Congress.	Lakhanow	Jan 3-7, 2002	1 paper
30	National Conference on Resent Trends in Composites.	Shri Shiwaji Science College, Amravati	Feb 28-March2, 2001	1 full paper
31	IAPT Convention	Patiyala	21-22 Dec. 1994	1 full paper
32	XVII NS on crystallography	Delhi University, New Delhi	December(1986)	1 full text paper
33	DAEs SSP Symp. 29C.52 ()	G. B. Pantnagar University, Pantnagar	December 21- 22, 1986	1 full paper
34	XVINSO crystallography	Nagpur University,	1985	2 full paper
35	DAEs SSP Symp	Nagpur University,	1985	3 papers
36	TSL and RP	PRL, Ahemadabad	February 2-5, 1984	1 full paper

S.N.	Name of the Event	Place	Dates	Remarks
37	National Symposium on	BARC, Mumbai	September 22-23, 1983	1 full paper

S.N.	Name of the Event	Place	Academic session	Duration
(iii)	<b>Participation in Orientation Courses</b>			
1	Orientation Course	Goa Univ.Goa	1989-90	30 days
2	Orientation Course Electronics	Nag.University Nagpur	1989-90	15 days
(iv)	<b>Participation Refresher Courses</b>			
1	Refresher Course in Physics	Univ. of Pune Pune	1990-91	28 days
(v)	<b>Participation in WORKSHOPS</b>			
1	3 <sup>rd</sup> National Work Shop on Preparation of Question Bank	AIU and SGBAU, Amravati	September 27-29, 2010	3 days
2	2 <sup>nd</sup> National Work Shop on Preparation of Question Bank	AIU and SGBAU, Amravati	9-10 August, 2010	2 days
3	1 <sup>st</sup> National Work Shop on Preparation of Question Bank	AIU and SGBAU, Amravati	2-4 July 2010	3 days
4	Workshop on recent trends in Physics	Department of Physics SGBAU, Amravati	December 17-19, 2009	3 days
5	CDEEP's One Day TTP for teachers of Science & Engg. Faculty	SGBAU, Amravati	August 8, 2009	1 day
6	Total Solar Eclipse 2009 workshop	Department of Mathematics, SGBAU, Amravati	13-14 June 2009	2 days
7	Pre-Conference School on Science of Luminescent Materials	NPL New Delhi	2007-08	1 Day
8	Workshop on Advanced Microscopic Techniques For Materials Analysis	Uni. Of Pune Pune	2000-01	6 days
9	UGC Natl. Workshop on Structural & Electrical Characterization of Materials	Amravati Univ Amravati	1998-99	3 days
10	UGC's TTP on "Embedded controllers"	I.I.Sc Bangalore	1996-97	14 days
11	Workshop on Re- structuring of	L.T.College Wani	1995-96	3 days

	<b>Courses at UG Level</b>			
12	National UGC's W/S on Lasers & Modern Optics	I.I.Sc. Bangalore	1994-95	15 days
13	National DST W/S on Mp & PC based Systems.	Dr.B.A.Univ Aurangabad	1993-94	20 days
14	IPA Workshop on Radiation Physics	Nagpur Univ Nagpur	1992-93	5 days
15	IPA Workshop on Astro-Physics	Nagpur Univ Nagpur	1991-92	3 days
16	Introduction of MP and Applications	I. I.Sci Banglore	1988-89	10 days
17	IPA Workshop on micro mini and PCs	Nagpur Univ Nagpur	1985-86	5 days
<b>(vi)</b>	<b>Participation as a Resource Person</b>			
1	Orientation Courses	SGBAU	2010-11	6 lectures
2	Refresher Course in Physics	SGBAU	2010-11	2 lectures
3	Orientation Course	SGBAU	2009-10	5 lectures
4	Refresher Course in Education	SGBAU	2009-10	1 lecture
5	Refresher Course in Basic Sciences	SGBAU	2009-10	2 lectures
6	Coaching for IAS BARTI Scheme	SGBAU	2009-10	4 lectures
7	Coaching for Entry in Services	SGBAU	2009-10	24 lectures
8	Coaching for Entry in Services	SGBAU	2008-09	16 lectures
9	Coaching for Entry in Services	SGBAU	2007-08	28 lectures
10	IAS Coaching	SGBAU, Amravati	2007-08	4 Lectures
11	Refresher course Jr. College Teachers	Shivaji Sci. College	2007-08	3 Lectures.
12	NET Coaching UGC Plan)	SGB AU	2006-07	16 Lecturs
13	NET Coaching UGC Plan)	SGB AU	2005-06	20 Lectures
14	Refresher Course in Physics	Amravati Univ.	2004-05	3 Lectures
15	IAS Pre-Exam Training	Amravati Univ.	2003-04	1 Lecturer
16	Refresher Course in Physics	Dr. BAM University Aurangabad	2003-04	2 Lectures
17	Orientation Course	Amravati Univ.	2001-02	2 Lectures
18	Refresher Course in Commerce	Amravati Univ.	2001-02	1 Lectures
19	Refresher Course in Statistics	Amravati Univ.	2000-01	4 Lectures
20	Refresher Course in Physics	Amravati Univ.	2000-01	5 Lectures
21	Orientation Course	Amravati Univ.	2000-01	8 Lectures
22	Refresher Course in Physics Com. Sci. & Electronics	Amravati Univ.	1999-2000	6 Lectures
23	Refresher Course in Physics	Amravati Univ.	1997-98	3 Lectures
24	Refresher Course in Physics	Amravati Univ.	1995-96	4 Lectures15 Lab.

				sess.
25	Refresher Course in Physics	H.P.Univ. Shimla	1995-96	7 Lectures
26	Orientation Course	Amravati Univ.	1998-99	1 Lectures
27	Orientation Course	Amravati Univ.	1997-98	1 Lectures
28	Orientation Course	Amravati Univ.	1996-97	2 Lectures
29	Orientation Course	Amravati Univ.	1995-96	2 Lectures
30	Orientation Course	Amravati Univ.	1994-95	1 Lectures

## 7. Organizational Contribution: National Seminars/Conferences/Workshop:

S.N.	Nomination	Event	Date/year	Place	Level
1	<b>Member of National Advisory Committee</b>	National Conference on Luminescence and its Applications NCLA-2011	February 7-9, 2011	Department of Physics, Pt. R. S. University, Raipur	National
2	<b>Member of National Advisory Committee</b>	National Conference on Recent Trends in Engineering Sciences(NSRTEs-2010)	11-12 October 2010,	Dr. B. N. College of Engg. & Tech., Yavatmal.	National
3	<b>Member of National Advisory Committee</b>	National Conference of Developing Frontiers of Physics : Astronomu & Space Sciences "Guest of honour for Valedictory Function.	24-25 September 2010,	RLT College Akola	National
4	<b>Member of National Advisory Committee</b>	National Seminar on Synthesis of Advance Materials and their Applications SAMA-2010	March 13, 2010	N. H. College Bramhapuri Dist Chandrapur	National
5	Chairman Technical Session and Paper presented	National Level Seminar on Water, Energy, Environment and Society (WEES-2010)	January 30 2010	P. N. College Pusad Dist Yavatmal	National
6	<b>Member, Panel of Judges</b>	National Conference on Materials Science : Trends & Future - 2010 (NCMS-2010)	January 6-7, 2010	Vidyabharati Mahavidyalaya, Amravati	<b>National</b>
7	Member of National Organizing Committee	National Conference on Luminescence and its Applications NCLA-2010	February 9-11, 2010	Department of Physics Gandhigram	National

				Rural Institute , Tamilnadu	
8	Member of National Organizing Committee	Indo-Russian WS on Nanotechnology & Laser Induced Plasm-2009 (IRNANO-2009)	November 24-26, 2009	Department of Physics & Astrophysics, University of Delhi, Delhi	International
9	Member of National Organizing Committee	National Seminar on Display Phosphors and its Applications NSDPA-2009	October 22- 23, 2009	Vivekanand Degree College, Bangalore	National
10	Member of National Advisory Committee	National Conference NANOTRENDS-2008	Sept 27, 2008	MP Deo Dharmath College Nagpur	National
11	Member of National Organizing Committee	National Conference NCLA-2009	19-21 February, 2009	CGCRI, Kolkata	National
12	Member of National Organizing Committee	Workshop on Recent Trends in Luminescence Applications	January 19, 2008	RKNEC, Nagpur	National
13	Member of National Organizing Committee	ICLA-2008	12-16 February 2008	NPL, New Delhi	Inter national
14	Member of National Organizing Committee	NCLA-2007	17-20 January 2007	Bhartiyar University, Coimbtour	National
15	Convener of NCLA-2006	NCLA-2006	7-9 February 2006	SGBAU, Amravati	National
16	Member of National Organizing Committee	NCLA-2005	7-9 February 2005	Bangalore University, Banglore	National
17	Member of National Organizing Committee	ICLA-2004	12-15 February 2004	BARC, Mumbai	Inter National
18	Member Programme Committee	International Conference on PSBC	February 17- 20, 2005	Amravati University Amravati	National
19	Member Programme Committee	International Conference on Relativity	January 11- 14, 2005	Amravati University,	National

				Amravati	
20	Member LOC	National Conference on Novel Synthesis of Advanced Materials	February 1, 2004	Kamla Nehru College Nagpur	National
21	Convener, Technical Programme Committee	National Conference on Lasers and Their Applications	Jan 28-30, 2004	Department of Physics, Amravati University, Amravati	National
22	Member LOC	National Conference on Lasers and Their Applications	Jan 28-30, 2004	Department of Physics, Amravati University,	National
23	Member, Advisory Committee	National Work shop on Muncipal Solid Waste Management	November 2003	Amravati University, Amravati	National
24	Chairman LOC	Workshop on Career Opportunities Through Competitive Examinations	Oct. 10, 2003	TRDEA, Amravati University	Regional
25	Co-Chairman, Technical Programme Committee	National Conference on Novel Methods of Synthesis of Materials	December 22, 2002	Kamla Nehru College Nagpur	National
26	Member LOC	National Conference on Novel Methods of Synthesis of Materials	December 22, 2002	Kamla Nehru College Nagpur	National
27	Convener	Workshop on Energizing Curriculum for Upgradation of Standards	July 14-15, 2002	TRDEA, Amravati University, Amravati	Regional
28	Member, LOC	National Conference on Recent Trends in Composites	Feb 28- March 2, 2001	Shri. Shivaji Science College, Amravati	National
29	Member, LOC	National Workshop on Structural and Electrical Charectrization of Materials	Feb 26-28, 1999	Department of Physics, Amravati University Amravati	National
30	Member, LOC	National Conference on Baysian Analysis: Theory And Application	Jan 16-18, 1999.	Department of Statistics Amravati University	National

## 8. 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

## 9. Contribution to academic environment:

(A)Responsible Positions Held In Academic Committees:

SN	APPOINTMENT ON COMMITTEE	ORGANIZATION	ACADEMIC SESSION	Remark
1	Member of BOS Physics,	SGBAU, Amravati	2010-2011	Academic
2	Member of B.U.T.R.	SGBAU, Amravati	2010-2011	Research
3	Chairman, Hostels monitoring committee	SGBAU, Amravati	2010-2011	Administration
4	Member RRC (Physics)	SGBAU, Amravati	2009-2010	Research
5	Regional Advisory Committee Of Income Tax	Dept. Nagpur Region Nagpur Region	2008-2010	Academic
6	SET Observer, appointed by SET Centre Govt. Of Maharastra	Nagpur	2009	Academic
7	Pay Review Committee Nomination Pune Meeting	UGC, Pune	2008	Academic
8	SET Observer, appointed by SET Centre Govt. Of Maharastra	Chandrapur	2008	Academic
9	Member of PAT Committee	Amravati University Amravati	2005-2008	
10	SET Observer, appointed by SET Centre Govt. Of Maharastra	Nanded	2007	Academic
11	Nominated UGC Member Building & works Committee	Amlokchand College Yavatmal	2002-2007	Academic
12	SET Observer, appointed by SET Centre Govt. Of Maharastra	Pune	2006	Academic
13	Member, IQAC	Amravati University Amravati	2005-2007	Academic
14	Member, Advisory Committee NET	Amravati University Amravati	2005-2006	Academic

15	Member, Advisory Committee DST Prj	Amravati University Amravati	2005-2006	Academic
16	IQAC Sub-committee	Amravati University Amravati	2003-2004	Academic
17	Post-Naac Committee	Amravati University Amravati	2002-2003	Academic
18	NAAC Sub committee	Amravati University Amravati	2001-2002	Academic
19	Regulation Draft Committee	Amravati University Amravati	2001-2002	Authority
20	Member: Admission Committee Centralized: P.G. Admissions	Amravati University Amravati	2000-2001	Administrative
21	Member: Admission Committee Centralized: P.G. Admissions	Amravati University Amravati	1999-2000	Administrative
22	Member: Admission Committee Centralized: P.G. Admissions	Amravati University Amravati	1998-1999	Administrative
23	Member of B.U.T.R.	Amravati University Amravati	2000-2001	Authority
24	Member of R.R.C	Amravati University Amravati	2000-2001	Authority
25	Member: "Delinking....." B.C.U.D. Appointed by Hon.V.C	Amravati University Amravati	1998-2000	Academic
26	Member of Senate	Amravati University Amravati	1994-1995	Authority
27	Member of Academic Council	Amravati University Amravati	1993-1994	Authority
28	Convener of the Committee Appointed by Faculty of Science	Amravati University Amravati	1994-1995	Authority
29	Enquiry Officer (One Case)	Amravati University Amravati	1993-1994	Administrative
30	Member of Faculty of Science	Amravati University Amravati	1993-1994	Authority
31	Member of D.R.C.	Amravati University Amravati	1992-1995	Authority
32	Member of B.U.T.R	Amravati University Amravati	1992-1995	Authority
33	Library Committee, member	Amravati University Amravati	1993-1995	Authority
34	Board of Studies, (Physics)	Amravati University Amravati	1992-1995	Authority
35	Board of Studies, (Physics)	Amravati University Amravati	2000-2001	Authority
36	Sub committee of B.O.S.(Elect)	Nagpur University, Nagpur	1990-1992	Academic

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

S.N.	EXPERT	PLACE	ACADEMIC SESSION	Remarks
1	Member , Selection Committee Physics	SGBAU, Amravati	2010-2011	Interviews & CAS
2	Subject Expert (P. R. Patil Engg. College)	SGBAU, Amravati University Amravati	2010-2011	University Interviews

3	Subject Expert (Engg. College Badnera) 2-7-2010	SGBAU, Amravati University Amravati	2010-2011	University Interviews
4	Subject Expert (Shivaji Amravati) 30-4-2010	SGBAU, Amravati University Amravati	2009-2010	University Interviews
5	Subject Expert (Chikhali) 27-12-2009	SGBAU, Amravati University Amravati	2009-2010	Adhoc Interviews
6	Subject Expert (Chikhali)	SGBAU, Amravati University Amravati	2009-2010	Regular Committee
7	Subject Expert (Akola)	SGBAU, Amravati University Amravati	2009-2010	Regular Committee
8	Subject Expert	Jawade Polytechnic Bhankhed	2009-2010	Regular Committee
9	Vice Chancellor Nominee Selection Committees	SGBAU, Amravati University Amravati	2009-2010	Regular Committee
10	Subject Expert	Nomination by Govt. of Maharashtra Technical board (DTE)	2008-2009	Regular Committee
11	Vice Chancellor Nominee Selection Committees	SGBAU, Amravati University Amravati	2007-2008	Regular Committee
12	Subject Expert	Nomination by Govt. of Maharashtra Technical board (DTE)	2006-2007	Regular Committee
13	Vice Chancellor Nominee Selection Committees	SGBAU, Amravati University Amravati	2005-2006	Regular Committee
14	Vice Chancellor Nominee Selection Committees	Amravati University	2004-2005	Regular Committee
15	Vice Chancellor Nominee Selection Committees	Amravati University	2003-2004	Regular Committee
16	Vice Chancellor Nominee Selection Committees	Amravati University	2002-2003	Regular Committee
17	Vice Chancellor Nominee Selection Committees	Amravati University	2001-2002	Regular Committee
18	Vice Chancellor Nominee Selection Committees	Amravati University	2000-2001	Regular Committee
19	Member: LEC	Vidyabharati College (Assessment)	1999-2000	Regular Committee
20	Subject Expert	Govt. of Maharashtra TTP for Jr. College Teachers.(Guidance)	1999-2000	Regular Committee

21	Subject Expert	Govt. of Maharashtra TTP for Jr. College Teachers	1998-1999	Regular Committee
22	Vice Chancellor Nominee Selection Committees	Amravati University	1996-2001	Regular Committee
23	Vice Chancellor Nominee Selection Committees	Amravati University	1995-1996	Regular Committee
24	Vice Chancellor Nominee Selection Committees	Amravati University	1994-1995	Regular Committee
25	Vice Chancellor Nominee Selection Committees	Amravati University, Amravati	1993-1994	Regular Committee

**(C) Worked as examiner for the following Universities:**

SN	WORKED AS Examiner, Member subject examination committees	SESSION
1	Acharya Nagarjuna University, A.P.[M.Phil]	2010-2011
2	Gandhigram Rural Institute, T.N. [Ph.D.]	2009-2010
3	Guru Ghasidas University, Vilaspur [Paper setting in Electronics]	2009-2010
4	RSTM Nagpur University [ Paper setting M. Sc.]	2009-2010
5	Guru Ghasidas University, Vilaspur [M.Phil. Desertation]	2008-09
6	Rani Durgawati Vishwavidyalaya, Jabalpur [For Ph.D. & M.Phil]	2006-07
7	Nagpur University, Nagpur [ For M.Sc, Dissertations]	2005-06
8	Swami Ramanand Teertha University, Nanded [For M.Sc.]	1999-2000
9	Shivaji Univ., Kolhapur [ For M.Sc, Dissertations] [For M.Sc.]	1998-99
10	S. V. University Tirupati.[Ph.D.]	1997-98
11	Dr. Babasaheb Ambedkar Marathwada Univ., Aurangabad[For M.Sc.]	1996-97
12	H. P. University, Simla [For M.Sc. & M.Phil]	1994-95

**(D) Worked as examination committee:**

SN	WORKED AS Examiner, Member subject examination committees	SESSION
1	Member, Subject Exam Committee SGBAU Amravati University	2010-2011
2	Member, Subject Exam Committee SGBAU Amravati University	2002-2003
3	Member, Subject Exam Committee SGBAU Amravati University	2001-2002
4	Member, Subject Exam Committee SGBAU Amravati University	2000-2001
5	Member, Subject Exam Committee SGBAU Amravati University	1996-1997
6	Member, Subject Exam Committee SGBAU Amravati University	1995-1996

7	Member, Subject Exam Committee SGBAU Amravati University	1994-1995
8	Member, Subject Exam Committee SGBAU Amravati University	1994-1995
9	Member, Subject Exam Committee SGBAU Amravati University	1993-1994
10	Member, Subject Exam Committee SGBAU Amravati University	1992-1993

**(E) Membership of professional bodies:**

SN	LIFE MEMBERSHIP
1	Indian National Science Congress (2008)
2	Physical Society of India, Amravati (2007)
3	Material Research Society of India Bangalore.(2000)
4	Luminescence Society of India B. A. R. C. (1999)
5	Society for Promotion of Materials. Nagpur.(1999)
6	Indian Association of Physics Teachers.(1999)
7	National Centre for Science Information For Library Information I.I.Sc. Bangalore.(CA&DD services)1996
8	Amravati University Physics Teachers Association 1995)
9	Nagpur University Teachers Association.(1992)
10	Vidharbha University Physics Teachers' Association, Nagpur (1986) For Promotion of Quality Education in Physics. At UG and PG Level
11	Instrumentation Society of India, Bangalore.(1985)
12	Indian Physics Association, Bombay.(1985)

**(F) Membership as executive office bearer**

SN	EXECUTIVE BODY REPRESENTATION /Social Bodies/ Activities :
1	Executive member, Luminescence Society of India (2006-08)
2	Treasurer Amravati University Physics Teachers Association 1996-2009
3	Treasurer(PG UNIT) NAGPUR University Teachers Association 2005-2010
4	Workshop Committee University, Amravati. (2000-2005.)
5	Teaching, Research Development Extension Council, Amravati 1998-2000
6	Teaching, Research and Development Council, Amravati University, Amravati.(1996)

**(G) Membership on social/other bodies**

SN	Social Bodies/ Activities :
1	

2	Swami Vivekanand Samiti, Amravati.(2000)
3	Hostel Management Committee,(1995 till Date) Aryaviashya Sabha, Amravati
4	Aryaviashya Sabha, Amravati Region Amravati.(1992)

(H) Helped in Management /Administrative work of various activities:

SN	Responsibility & Activity	Institutions	Academic Year
1	Committee for investigations in P. S. Rathi Scholarship award problem NSS	SGBAU, Amravati	2010-2011
2	Committee for ASC.	SGBAU, Amravati	2010-2011
3	Committee for Stock Verification	SGBAU, Amravati	2009-10
4	Committee for GAD work	SGBAU, Amravati	2009-2010
5	Committee for Finance Budget	SGBAU, Amravati	2009-2010
6	Enquiry Committee Library Administration	SGBAU, Amravati.	2009-10
7	Director IQAC	SGBAU, Amravati	Dec, 2009
8	Convenor, NAAC Visit Research Interaction	IQAC, SGBAU, Amravati	2009-10
9	Convenor Popular talks NSD-10 committee 2009	SGBAU, Amravati	2009-10
10	Chairman, Committee no. 5 Student Progression, Support & Activities NAAC-2009	IQAC, NAAC-Reaccreditation SGBAU, Amravati	2009-10
11	Member, UGC XI Plan Equipment Grants recommendations	SGBAU	2008-09
12	Chairman, PAT-Nov-2008	University Examination	2008-09
13	Convenor Publicity & Public Relation Committee Aviskar-8	State Level Activity, SGBAU Amravati	2008-09
14	Member Accommodation Committee Aviskar-8	State Level Activity, SGBAU Amravati	2008-09
15	Convenor, Accommodation Committee SWZ Basket Ball Tournaments	SGBAU, Amravati. Inter University Level Activity	2008-09
16	<b>Member, Prize Distribution CommitteeSLAviskar-8</b>	State Level Activity, SGBAU Amravati	2008-09
17	<b>Convenor S &amp; T Exhibition committee, Avishkar-8</b>	Amravati University	2007-2008
18	<b>Convenor Invitation committee, NSD-2008</b>	Amravati University	2007-2008
19	<b>Convenor Extempore committee, NSD-2006</b>	Amravati University	2006-2007
20	<b>Convenor Popular Talk committee, NSD-2005</b>	Amravati University	2004-2005
21	<b>Convenor Slide-show committee, NSD-2004</b>	Amravati University	2003-2004
22	<b>Coordinator, Accommodation Arrangements Ashwamedh-2003</b>	Amravati University	2002-2003

SN	Responsibility & Activity	Institutions	Academic Year
23	<b>Member</b> , Organizing Committee Ashwamedh-2003	Amravati University	2002-2003
24	<b>Treasurer</b> NSD-2003	Amravati University	2002-2003
25	<b>Convenor</b> Slide-show committee, NSD-2002	Amravati University	2001-2002
26	<b>Convenor</b> Slide-show committee, NSD-2001	Amravati University	2000-2001
27	<b>Member</b> , Steering Committee NSD-2000.	Amravati University	1999-2000
28	<b>Chairman</b> : General Co-ord. and Publicity, NSD-2000	Amravati University	1999-2000
29	<b>Member</b> : Finance Committee NSD-1999, NSD-2000	Amravati University	1999-2000
30	<b>Convener</b> : Annual Convention of Physics Society	Amravati University	1999-2000
31	<b>Convenor</b> Seminar committee for <b>National Science Day</b>	Amravati University	1997-98
32	<b>Convener</b> Program Committee “ <b>Atoms in Service of Man</b> ” DAE’s Exposition, BARC.	Amravati University	1997-98
33	<b>Member</b> , Organizing committee for National Science Day	Amravati University	1996-97
34	<b>Convener</b> , <b>UNIPHYFAIR</b> for M.Sc. (Phys) students	Amravati University	1996-97
35	<b>Member</b> , Organizing committee. for National Science Day	Amravati University	1995-96
36	<b>Convener</b> , <b>UNIPHYFAIR</b> M.Sc. (Phys) students	Amravati University	1995-96
37	Vice President Cultural Activities (Students)	Amravati University	1995-96
38	<b>Convener</b> , <b>UNIPHYFAIR</b> M.Sc. (Phys) students	Amravati University	1994-95
39	<b>Convener</b> University Decade Celebrations(Academic Wing)	Amravati University	1993-94
40	<b>Convener</b> , <b>UNIPHYFAIR</b> M.Sc. (Phys) students	Amravati University	1993-94
41	<b>Incharge</b> M.Sc. Admissions Science faculty courses.	Amravati University	1992-93
42	<b>Member</b> College committee Time Table/Students activities	M.M.College of Science, Nagpur	1989-92
43	<b>Convener</b> of Students Seminar Inter-College competition.	M.M.College of Science, Nagpur	1989-90
44	<b>Member</b> Chess team, Inter- College Staff Tournaments	M.M.College of Science, Nagpur.	1987-92
45	<b>In-charge</b> for Science Exhibition	Department of Physics, Nagpur University	1981-82
46	<b>President</b> , <b>Students’ Council</b>	P.N.College, Pusad	1979-80
47	<b>Caption</b> Chess Team	P.N.College, Pusad	1978-80
48	<b>Vice -Caption</b> Foot ball team	P.N. College, Pusad	1976-77
49	<b>Monitor</b> , Scout	K.D.High School, Pusad, Dist.Ytl.	1974-75
50	<b>Caption</b> , Chess Team	K.D.High School, Pusad, Dist.Ytl,	1973-74

(I) **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.

## 10. 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 10 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 solved 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

## 11. Passing percentage of students in the Subject.

(a) PERCENTAGE OF RESULT FOR THE SUBJECTS TAUGHT:

S.N.	Academic Session	Result of M.Sc.-I		Result of M.Sc.-II		Difference Average
		Departmental	Personnel	Departmental	Personnel	
	<b>2008-09 S-9</b>	57%	85.75%	75.8%	100%	+35
1	<b>2008-09 W-Sem-I</b>	50.00 %	83.33 %			+33
2	2007-08	43.47 %	60.86 %	68.75 %	85.26 %	+17
3	2006-07	31.03 %	59.09 %	77.77 %	100 %	+31
4	2005-06	70.00 %	95.00 %	71.42 %	100 %	+28
5	2004-05	38.46 %	83.33 %	60.00 %	77.77 %	+32
6	2003-04	61.53 %	92.33 %	81.25 %	100 %	+25
7	2002-03	47.62 %	70.00 %	53.85 %	70.00 %	+15
8	2001-02	32.00 %	79.00 %	76.00 %	100 %	+36
9	2000-01	46.00 %	89.00 %	72.00 %	77.77 %	+25
10	1999-00	45.45 %	95.00 %	75.00 %	100 %	+37
11	1998-99	31.81 %	79.00 %	70.00 %	100 %	+39
12	1997-98	47.61 %	95.00 %	57.89 %	88.00 %	+36
13	1996-97	70.00 %	95.00 %	71.42 %	100 %	+28
14	1995-96	38.46 %	83.33 %	60.00 %	77.77 %	+32
15	1994-95	61.53 %	92.33 %	81.25 %	100 %	+25
16	1993-94	60.60 %	84.61 %	91.66 %	100 %	+16
17	1992-93	46.66 %	92.85 %	90.90 %	100 %	+22
18	1991-92	25.00 %	-----	76.92 %	-----	
20		<b>49.35%</b>	<b>87.56%</b>	<b>72.64%</b>	<b>92.24%</b>	<b>28.2857</b>

**OBSERVATION/COMMENT:**

1. I use to teach one core module to First year students and one Special paper to M.Sc.-II class.
2. Overall a positive swing of 16-39 % is observed in the result of subject as compared to the of overall result %.

**(b) Contact hours in Class & Laboratory Activity:**

This part is given in SELF APPRAISAL REPORTS during the last 20 years every year as an additional sheet under the CLASS CONDUCT RECORD. However the summary of this is given below.

SN	Academic session	Theory Periods		Practical Periods		Total Periods	
		D-Total	SKO	D-Total	SKO	D-GT	SKOGT
1	2009-10	??	204	??	192	??	296
2	2008-09	??	196	??	186	??	382
3	2007-08	??	192	??	186	??	378
4	2006-07	??	180	??	192	??	372
5	2005-06	??	186	??	198	??	374
6	2004-05	??	182	??	196	??	378
7	2003-04	??	172	??	216	??	388
8	2002-03	??	189	??	215	??	404
9	2001-02	??	182	??	186	??	368
10	2000-01	610	196	1782	232	2392	428
11	1999-00	586	189	1280	212	1866	401
12	1998-99	582	190	1250	221	1832	411
13	1997-98	610	182	1347	216	1957	398
14	1996-97	478	156	1290	229	1768	385
15	1995-96	502	164	1380	276	1882	440
16	1994-95	622	152	1767	280	2389	432
17	1993-94	610	144	1788	327	2398	471
18	1992-93	564	129	1638	285	2202	414
19	1991-92	522	--	780	--	1312	--
20	1990-91	200	--	300	--	500	--

**OBSERVATIONS/COMMENT:**

My contribution to teaching/training amounts to 25 to 33 % every year. Whenever students are free (i.e. contributory teacher doesn't turned) I used to engage the students.

**(c) TABLE - 2: ATTENDANCE RECORD OF STUDENTS**

SN	Academic session	Average of all teachers	Average for my periods M.Sc. -I	Average for my periods M.Sc. -II
1	2009-10	??	77%	83%
2	2008-09	??	73%	89%
3	2007-08	??	87%	96%

4	2006-07	??	91%	94%
5	2005-06	??	93%	95%
6	2004-05	??	91%	94%
7	2003-04	58 %	88 %	91 %
8	2002-03	64 %	90 %	92 %
9	2001-02	70 %	91 %	96 %
10	2000-01	74 %	92 %	98 %
11	1999-00	63 %	90 %	96 %
12	1998-99	62 %	89 %	94 %
13	1997-98	65 %	86 %	91%
14	1996-97	69 %	87 %	96%
15	1995-96	72 %	94 %	97%
16	1994-95	90 %	96 %	98%
17	1993-94	88 %	92 %	95%
18	1992-93	83 %	89 %	91%
19	1991-92	--	--	--
20	1990-91	--	--	--

**OBSERVATION/COMMENTS:**

It was observed that average attendance of every student in every theory subject was around 90 % during the academic sessions 1992-96 but from 1996 onwards it has consistently declined. However, for my periods the average attendance is always around 90 %. I have developed a computer program to obtain attendance statistics such as the figures for (i) % of attendance by every student for my classes and (ii) the % of attendance for other subjects. The difference is obtained and relative % is calculated in each case. This relative difference in my case is found to be (always) more than 15 to 20% positive swing. This shows involvement of students in my lectures

**(Shreeniwas K. Omanwar)**