

Dr POOJA BIRWATKAR



Designation: Assistant Professor at K J Somaiya Comprehensive College of Education, Training and Research

DETAILED BIO DATA

Educational Qualification

- Visiting fellowship (Post Doctorate) from Homi Bhabha Centre of Science Education.
- Ph.D (Education)
- M.Sc (Zoology), First Class
- Master's of Education (M.Ed) - Gold Medalist. University topper, Distinction with 2 gold Medals for securing highest percentage (89.4%)
- Bachelor of Education (B.ED) First class with distinction
- Post Graduate Diploma in Industrial Relation and Personnel Management-(IRPM) First Class

PROFESSIONAL RECOGNITION, AWARDS, FELLOWSHIPS RECEIVED.

Awards and Scholarships

(1) Secured two Gold Medals in MEd (Masters in Education)

- T.K.N MENON Medal for standing first in compulsory courses securing highest Grade (A)
- S.N. MUKHERJI Medal for standing first with distinction at the overall MEd exam (89.4%,)

(2) Scholarship from M.S University, Baroda for Ph.D

(3) Cleared UGC-NET Examination for lectureship twice UGC-NET Dec 2001 and UGC-NET Dec 2003. Also cleared the Gujarat State Level Eligibility Test for lectureship (GSLET) Jan 2002

(4) Junior research fellowship(JRF) from ICSSR(Indian Council of Social Science Research) for Ph.D

Details of employment (past and present)

TEACHING EXPERIENCE

1. Lecturer: 1 year- (2005-06) **Rizvi College of Education**, Carter Road, Mumbai

Subjects taught: Psychology, Environment Science, Science,

2. Assistant Professor: Somaiya College of Education, Mumbai for 3 years (2006-2009)

Taught at Masters of Education (M.Ed) program, Bachelors of Education (B.Ed) and Post Graduate Diploma in Management of Education (PGDME)

Subjects taught: M.Ed program: Management Of Education, Research Methodology

B.Ed program: School Management, Environment Science, Science,

PGDME: Financial Management and Educational Management

1. **Visiting Faculty:** At Somaiya College of Education, Mumbai for teaching Masters of Education (M.Ed) program and PGDME for the year 2011-12.

2. **Worked** as Visiting Scientist from Sept, 2011- April 2014 in Homi Bhabha Centre for Science Education, Mumbai.

3. Working as an Assistant Professor at K. J Somaiya College of Education, Mumbai since 1st Sept, 2014 till date. Teaching Pedagogy of Science, Management of Education at B.Ed level and Philosophy of Education, Research In Education and Management of Education at M.Ed level

DETAILS OF PROFESSIONAL TRAINING AND RESEARCH EXPERIENCE, SPECIFYING PERIOD

- Did a Dissertation on “*A study on Burnout among the Secondary Teachers of Baroda city*” as a part of Master’s degree(M.Ed) in 2002.

- **Phd Work Details**

Topic of study : “*Development of a training programme on adolescence education for secondary school teachers and students and studying its effectiveness*”. This study was conceptualized so as to attempt to design an Adolescence Education programme for Indian adolescents. It explored the possibilities of converting the school curricular content into meaningful activities that would result in skill building among adolescents and smoothen the journey towards adulthood.

- Conducted a Mumbai University sponsored Independent project on “*A Study of Knowledge and Attitude of Adolescent Girls towards Reproductive Health Issues.*”
- Guided 13 dissertations For Masters of Education (M.Ed) For Mumbai University and 6 students for MA (Education) IGNOU and presently guiding 8 students for MA (Edu) IGNOU and 2 students for M.Ed
- Worked as a Research Associate for DPEP Projects (funded by Gujarat Council of Primary Education)
 4. Terminal Assessment study of District Primary Education Programme.
 5. District Information System for Education of Gujarat State.

RESEARCH /ACADEMIC WORK AT HOMI BHABHA CENTRE OF SCIENCE EDUCATION DURING POST DOCTORAL PROGRAM (from 2011-2014)

RESEARCH WORK

1. Was a part of an International project **Science Education for Diversity (SED)** funded by the European Union's FP7 programme. This project through the various work packages namely WP2, WP3, WP4 and WP5 attempted to understand the role of science education in addressing the mosaic of diversities. Was involved in the following packages:

Work Package 3 involved conducting survey and case studies of students and teachers, analysing the data and preparing a research report.

Work package 4: Developing a theoretical framework

Work package 5: Carrying interventions in schools, analysing the collected data and making a report.

Work Package 6: dissemination of information regarding the project.

RESEARCH PROJECTS

- Completed a Mumbai University sponsored Minor Research project on "A Study of Knowledge and Attitude of Adolescent Girls towards Reproductive Health Issues in 2006"

- Completed a Mumbai University sponsored Minor Research project on "Exploring the prospective teacher's sense of efficacy, their attitude and beliefs regarding student diversity and preparedness to teach in multicultural classrooms"

-Worked as a Research Associate for DPEP Projects (funded by Gujarat Council of Primary Education)

1. Terminal Assessment study of District Primary Education Programme.
2. District Information System for Education of Gujarat State.

PUBLICATIONS

PAPERS

1. Chunawala, S., Birwatkar, P., Muralidhar, A., & Natarajan, C. (2013). Looking at science through the lens of diversity: Views of Indian students and teachers. In G. Nagarjuna, A. Jamakhandi, & E. M. Sam, (Eds.), *Proceedings of epiSTEME 5* (pp. 185-191). Margao, India: Cinnamontea.

2. Chunawala, S., Natarajan, C., Muralidhar, A., Birwatkar, P., Thakur, B., Battin, G & Karade, D. (2012). *Science education for diversity - WP5 India report*. Mumbai: HBCSE, TIFR.
3. Chunawala, S., Natarajan, C., Birwatkar, P., Muralidhar, A., & Thakur, B. (2012). *Case study 1– Atomic energy central school*. Mumbai: HBCSE, TIFR.
4. Chunawala, S., Natarajan, C., Birwatkar, P., Muralidhar, A., & Thakur, B. (2012). *Case study 2– Atomic energy central school*. Mumbai: HBCSE, TIFR.
5. Chunawala, S., Natarajan, C., Birwatkar, P., Muralidhar, A., & Thakur, B. (2012). *Case study 3 – Amulakh amichand bhimji vidhyalaya*. Mumbai: HBCSE, TIFR.
6. Chunawala, S., Natarajan, C., Birwatkar, P., Muralidhar, A., & Thakur, B. (2012). *Case study 4 – Academy of fine arts and crafts (AFAC)*. Mumbai: HBCSE, TIFR.

BOOKS

Wrote a chapter “ A Techno Laden Curriculum Accommodation Plan for Special Group” in the book, *Educating children with Special Needs*. Published By APH Publishing Corporation, 2013.

Publications-Research Papers and Articles

Sr No	Nature of Publication	Title	Year	Journal/Book	ISSN No
1	Research Paper	Looking at science through the lens of diversity: Views of Indian students and teachers.	2013	Proceedings of epiSTEME 5 (pp. 185-191). Margao, India: Cinnamonteal.	
2	Research paper	Comprehending and Creating Space for Inclusion	2014	PCER Seminar proceedings for ICSSR sponsored National Seminar.	ISBN 978-93- 82626-11-4
3	Research paper	Using Design and Technology Task to Foster Learning Through The ‘Joy of Making’ Among Students of Class VII	2014	Conference proceedings for ICSSR Sponsored National Seminar on “Nobody can bring you peace but yourself” at K. J. Somaiya Comprehensive College of Education, Training and	ISBN: 978-81-7039-287-3

				Research	
4	Research paper	An innovative strategy for addressing diversity in a science class.	2014	Conference proceedings for ICSSR Sponsored National Seminar on “Nobody can bring you peace but yourself” at K. J. Somaiya Comprehensive College of Education, Training and Research	ISBN: 978-81-7039-287-3
5	Research paper	Essentials of Dialogic Leadership	2015	Conference proceedings for National Seminar on Leadership in educational institutions: opportunities and challenges- guiding the way to 21st century	ISBN: 978-81-7039-287-3
6	Research Article	Science Teaching with a difference	2015	Teacher Plus, Feb 2015 issue, pg 24-26	ISSN 0973-778
7	Research Article	Evolution in Indian Curriculum and classroom	2015	Teacher Vol 9 (3) pg 28-31.	ISSN 0973-6689
8	Research Article	Don't Argue	2015	Teacher, Vol 9 (4), pg 20-21. Oct- Dec 2015	ISSN 0973-6689
9	Research Paper	A Novice's Step in the Real diverse World: Uncovering Pre-service Teachers Preparedness for Dealing with Diversity.	2015	Dr. Pooja Birwatkar Pillai Journal of Educational Research and Technology.	ISSN 2249-4367
10	Research Article	Gender Bender: be upfront, not subtle		Teacher Plus, Vol.14, No.1, pg 38-39	ISSN: 0973-778

11	Research Article	What's up with parent Whats App groups?	2017	Teacher Plus, March 2017	ISSN 0973-6689
12	Research Article	Colour-blind in Acknowledging the inner conflicts of students: The Escapist Education System- Education For Peace	2017	Conference proceedings for National Seminar on the theme- .Education for Peace held at K. J. Somaiya Comprehensive College of Education, Training and Research on 9-10 th March, 2016	ISBN:978- 81-7039- 287-3
13	Research Article	Finland's herculean Stride towards altering Education system's DNA. Can India change its DNA too?.	2018	Conference proceedings for National Seminar on "New Challenges and New Pedagogies for 21st Century Education. at K. J. Somaiya Comprehensive College of Education, Training and Research	ISBN: 978-81-7039-287-3
14	Research Article	Pre Service Teachers on the threshold of entering the actual classroom: Are they really prepared to manage the Classroom Diversities? ”	2018	Journal of Education-Knowledge Consortium of Gujarat, Continuous Issue 16- Dec-Feb, 2018	ISSN 2320-0014 UGC Recognized National level Peer Revised e- Journal. Impact factor-1.3
15	Research Article	Establishing the Effectiveness of a Training programme on Adolescence Education	2018	Journal of Education-Knowledge Consortium of Gujarat, Continuous Issue 19-July-Sept, 2018	ISSN 2320-0014 UGC Recognized National level Peer Revised e- Journal. Impact factor-1.3
16	Research Article	A Study on Effectiveness of Multimedia for Teaching Biology at Higher		International Journal of Emerging Technologies and Innovative Research Vol 5, 2017-18 pg 606-609	International Peer Reviewed Open Access Journal UGC and

		Secondary School Level.			ISSN approved ISSN: 2349-5162 Impact Factor: 5.87
	BOOK	Educating children with Special Needs Pooja Birwatkar Wrote a chapter “ A Techno Laden Curriculum Accommodation Plan for Special Group	2013	Published By APH Publishing Corporation, 2013.	ISBN 978-93-313-1747-6

Paper Presentations

- 1. "Creating a Global Environment in Management of Higher Education"** Paper presented at **National Conference on Globalization** held on 17-18 Jan 2003 at The M.S. University, Baroda.
- 2. "Result of Mental construction-Constructivism"** Paper presented at **International Conference** held on 10-12 Jan 2004 organized by AIAER at Rajkot.
- 3. "Contractual Appointment of Teachers In Universities and Institutions of Higher Education: Time has come for a change."** Paper presented at National Conference on Higher Education, Society and State held on 10-11 Jan 2005 at The M.S. University, Baroda.
- 4. "Emotional Learning in Teacher Education Program"**. Paper presented at National Seminar on Teacher Education: Vision and Action, held on 25-26th Feb, 2005 at Navrachana College of Education, Baroda.
- 5. "Nurturing Creativity in Adolescents"** Paper presented at **National Conference on Creating A Learning Society** held on 27-28 Nov 2004 organized by AIAER at Rizvi Education Society, Mumbai.
- 6. "Making the teacher's tool box complete for enhanced success"**- Paper presented at Seminar on Innovative Practices in Teacher Education held on 23-24th march, 2006 at Dept of Edu, University of Mumbai- 2006

7. “A techno laden Curriculum accommodation plan for Special Groups- Paper presented at National Seminar on Developmental Challenges of Special Group and technological Determinism”, held on 22-23 Dec, 2006, organized by CASE, Baroda.

8. “Design Based Learning- An innovative Strategy to enhance the science content knowledge of Pre Service teachers”. Paper presented in seminar on Disseminating Diversity and Transformative Innovations in Teacher Education, held on 3rd March, 2012 at Cholan College of Education.

9.”Looking at Science through the Lens of Diversity: Views of Indian Students and Teachers” Paper presented at in epiSTEME 5, Fifth International Conference to Review Research on Science , Technology and Mathematics Education, organized by Homi Bhabha Centre for Science Education, Mumbai , held during &-11th Jan, 2013.

10. The voices of a diverse classroom: how to hear them?- Paper presented at ICSSR Seminar -‘Nobody can bring you peace but yourself’ held at K.J. Somaiya college of Education, Mumbai,22-23 March, 2013.

11. Using Design and Technology Task to Foster Learning Through The‘Joy of Making’ Among Students of Class VII . Paper presented at ICSSR Seminar –Innovations in 21st Century Education held at K.J. Somaiya college of Education, Mumbai,4-5th April,2014.

12. An innovative strategy for addressing diversity in a science class. Paper presented at ICSSR Seminar –Innovations in 21st Century Education held at K.J. Somaiya college of Education, Mumbai, 4-5th April, 2014.

13. Comprehending and creating space for inclusion- Poster presented at National Seminar on “Enabling Education: Equipping Students for Life”, held on 18th- 19th July , 2014 at Pillai College of Education and Research.

14. Colorblind in Acknowledging the Inner Conflicts of Students: The Escapist Education System- presented a research paper in Senior Scholar Series on Education for peace, held at K J. Somaiya Comprehensive College of Education, Training and Research in March 2016.

15. From SSR to RAR- Demystifying the crucial role of IQAC- A Case Study- presented a research paper in Seminar-IQAC: Meaning and Manifestations, held at Kirti M. Doongurse College, Mumbai, Jan 2016

16. ‘Dynamism to Stagnation- Institutions Before and After NAAC’ presented a research paper in National Conference on "Academic and Administration Audit" sponsored by NAAC on 13-14 th January, 2017 at K J Somaiya College of Science and Commerce.

17. Death of Cultural Congruence by a Million Tiny Cuts- Are Apparently Innocuous, Potentially Perilous Micro-aggressions in Classrooms Responsible? Paper presented at

National Seminar on the theme-Creating Culturally Congruent Classrooms. Conducted by K. J. Somaiya Comprehensive College of Education, Training and Research, Vidyavihar, Mumbai from 15-16th Dec, 2017.

18. Examining Indian Curriculum—Reading the Inferred Messages of Equivocation or Propounding of Cultural Divides. Paper presented at National Conference on Curriculum Design and Evaluation held at K. J Somaiya College of Science and Commerce on Jan 12-13, 2018

SEMINARS ATTENDED

1. National Seminar on **Social Crisis and Educational Research**, organized at CASE, The M.S. University of Baroda on Feb 27-28, 2003

2. National Seminar on **Philosophy of Education for a Globalising World**, organized at K.J. Somaiya Comprehensive College of Education, Training and Research on 24-25th Feb, 2006.

3. National Seminar on Reinventing Education for quality Sustenance, organized at Chembur Comprehensive college on 5-6th Feb, 2007.

4. Towards fostering Child rights- A seminar for Dissemination and action held on 23rd –24th Feb , 2007, organized by Somaiya College of Education, Training and Research

5. epiSTEME 5 . An international seminar held in Homi Bhabha Centre for Science Education, Mumbai in January 2013.

6. Nobody can bring you peace but yourself' held at K.J. Somaiya College of Education, Mumbai, 22-23 March, 2013.

7. "Responses to Changing Educational Paradigms" organized by the Homi Bhabha Centre for Science Education (TIFR) , Mumbai, October 11-12, 2012.

WORKSHOPS CONDUCTED

1. Resource Person in Module Writing Workshop on "**Value Education Programme for Parents**" held on 27-29 Aug 2004 at **CASE**, The M.S. University, Baroda.

2. Conducted a workshop on "**Towards Science Education for Diversity -A Teacher Researcher Collaborative Workshop**" held at HBCSE, 4 to 6 December, 2011. This workshop organized for primary and secondary school teachers aimed to sensitize teachers towards the issues that arise in the classroom due to diversity. In this workshop took sessions on 'Approaches to address

diversity' and 'Guided Collaborative Critical Reflection on Action as a way of implementing the SED approach'.

3. Organized a roundtable conference on “**Teacher Education: Enhancing Quality and Relevance**” held at St Xavier’s Institute of Education, Mumbai on 10th May, 2014. This workshop was organized by Observer Research foundation Mumbai in collaboration with St Xavier’s Institute of Education, Mumbai.

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2. Organized a roundtable conference on “Teacher Education: Enhancing Quality and Relevance” held at St Xavier’s Institute of Education, Mumbai on 10th May, 2014. This workshop was organized by Observer Research foundation Mumbai in collaboration with St Xavier’s Institute of Education, Mumbai.

WORKSHOPS/SYMPOSIUM ATTENDED

1. Workshop on '**Emotional Intelligence**' organized by Rizvi College of Education, held on 3rd Oct, 2005.

2. Workshop on '**Multiple Intelligence**' organized by Rizvi College of Education, 4th Oct, 2005.

3. Workshop on '**Concept Attainment Model**' organized by Rizvi College of Education, 19th Jan 2006.

4. Workshop on '**Inquiry Training Model**' organized by Rizvi College of Education, 2nd Feb, 2006.

5. Workshop on '**Creativity**' organized by Rizvi College of Education, 16th Feb, 2006

6. Workshop on '**Transactional Analysis**' organized by Rizvi College of Education, 20th Feb, 2006.

7. Workshop on '**Value Discussion Model** ' organized by Rizvi College of Education, 18th March, 2006.
8. Workshop on '**Jurisprudential Inquiry Model** ' organized by Rizvi College of Education, 21st March, 2006.
9. Workshop on '**Research Methodology**' organized by K.J. Somaiya College of Education, Training and Research, July 2006.
10. Attended a 3 day workshop on “*Collaborative Approach to Develop Science Teaching Methods Suitable for Addressing Diversity in Classrooms* ” in January 2012. This workshop under Australian -Indian Council was jointly conducted by Curtin University, Australia & Homi Bhabha Centre for Science Education (HBCSE) Tata Institute of Fundamental Research, India .The workshop aimed at providing continuing professional development (CPD) to science teachers. It addressed research in areas such as socio-cultural diversity, students' contextual understanding and world-views, quantitative and visuo-spatial reasoning skills and social skills.
11. Attended a 3 day workshop for becoming a trainer For Adolescent Education Program from 21-23rd Dec, 2011 , conducted by Mumbai Districts AIDS Control Society.

TRAINING PROGRAMMES ATTENDED

Attended a Summer Programme on **Data Analysis in Social Sciences**, Sponsored by ICSSR, held at **TATA Institute of Social Sciences**, Mumbai from 19-30 April 2004.

