


Curriculum Vitae

Title	Dr.	First Name	BHAWANA	Last Name	ARORA	
Designation	Assistant Professor					
Department	Elementary Education					
Institutional Email Address	b_arora@jmc.du.ac.in					
EDUCATION						
Degree	Institution	Year	Details			
PhD (Education)	Central Institute of Education (CIE), University of Delhi	2017	Thesis Title: “Understanding the Socio-Economic Environment and its Impact on Science as a Subject in Delhi Schools”			
Med	Central Institute of Education (CIE), University of Delhi	2009	Gold Medalist. Specialization: Teacher Education and Education Administration & Supervision			
Bed	IASE, Jamia Millia Islamia	2007	Among Top 10 candidates in Entrance Examination of BEd and received the scholarship for the same. Also, Gold Medalist in Bed			
MSc (Physics)	Miranda House, University of Delhi	2005				
BSc (H) Physics	Miranda House, University of Delhi	2003	Integrated Physics with Mathematics, Chemistry and Economics also as main subjects			
MA (Philosophy)	IGNOU	2022				
CAREER PROFILE						
Organisation / Institution	Designation	Duration	Role			

Shiv Vani Model Sr. Sec. School	TGT Physics	2005-2006	Teaching of Physics (IX- XII). Coordinator Science and Environment Club
Hansraj Model School, Punjabi Bagh	PGT Physics	2007-2008	Teaching of Physics (XI & XII)
Springdales School, Pusa Road	PGT Physics	2008-2013	<ul style="list-style-type: none"> • Teaching of Physics (X- XII). • Coordinator, Robotics Club, Space and Environment Club
Lady Shri Ram College for Women, Lajpat Nagar, University of Delhi	Assistant Professor (Adhoc)	24 th July 2013-19 th April 2017	Teaching of: <ul style="list-style-type: none"> • Theory and Practicum papers in BEIEd; • Science and Life under FYUP and • Environmental Studies under CBCS. Staff Advisor to Dance Society and Women Development Cell
Jesus and Mary College, Chankyapuri, University of Delhi	Assistant Professor (Adhoc)	20 th July 2017-31 st July 2017	Teaching of Theory and Practicum papers in BEIEd and Environmental Studies under CBCS
Lady Shri Ram College for Women, Lajpat Nagar, University of Delhi	Assistant Professor (Adhoc)	1st Aug 2017-23 rd January 2024	<ul style="list-style-type: none"> • Teaching of Theory and Practicum papers in BEIEd; • Attendance, Internal Assessment and Internship In-charge; • Staff Advisor to Women Development Cell; Prakriti (Environment Consciousness Society); Quiz and Elocution Society; • Member of Garden Committee and Department Admission Committee.
Jesus and Mary College, Chankyapuri, University of Delhi	Assistant Professor	24 th Jan 2024 till date	Teaching of Theory and Practicum papers in BEIEd.
AREA OF INTEREST: Education, Teacher Education, Science Education, Mathematics Education, Globalization, Sustainable Development			

TEACHING EXPERIENCE (Subjects/Courses taught)

Total teaching experience of 17+ years in the capacity of Teacher and Teacher Educator

- I. More than 7 years of experience in the capacity of PGT Physics in reputed schools of Delhi
- II. More than 10 years of experience as Assistant Professor in University of Delhi. Taught various theory and practicum papers in BEIED; along with this have also taught papers of Science and Life under FYUP and Environmental Studies under CBCS at an undergraduate level.

The various theory papers taught in BEIED includes:

Core Natural Science, Logico- Mathematics Education, School Planning and Management, Basic Concepts in Education, Curriculum Studies and Pedagogy of Mathematics

The various practicum taught in BEIED includes:

School Contact Programme (Colloquia), Observing Children, Material Development and Evaluation in Mathematics and Environmental Studies, Project, Reflection and Planning, Internship.

HONORS & AWARDS

- I. Awarded the Gold Medal (Salamatullah Medal) for University Topper in BEd (2006-2007), Jamia Millia Islamia
- II. Awarded the Gold Medal (University Medal) for University Topper in MEd (2007-2009), University of Delhi

PUBLICATION DETAILS

Journal Articles:

- Bhawana A. (2019) Globalization and Changing Trends in Science Education in Schools: Implications for Teacher Education Programmes, *In Jamia Journal of Education*, Vol. 5 (2), p77-87. ISSN: 2348-3490 (**Peer Reviewed**)
- Bhawana A. (2016) Changing Paradigms in Education under Globalization: Implications for Preparing Teachers for Diversity In Annubhooti: National Journal of Teacher Education, Vol (i). Faridabad: B.S. Anangpuria Institute of Education. ISSN: 2454-9657 (**Peer Reviewed**)
- Bhawana A. (2016) Perspectives on Education and Globalization: Policy and Implications In *Contemporary Dialogue*. ISSN: 2348-8697. New Delhi: Samwaad Shiksha Samiti. (**Peer Reviewed**)
- Bhawana A. (2015) Preparedness of State, Administrators and Teachers for Implementing RTE- Issues and Concerns (**Research Paper**) In *Education as a Basic Right of Humankind by Indialogue Foundation: Dialogue for Peace*. International Education Conference, Faculty of Education, Jamia

Millia Islamia and Gandhi Smriti & Darshan Samiti. New Delhi: Indialogue Foundation. ISBN: 978-81-931347-0-2

- Bhawana A. (2015) *Globalization and Technology: The Growing Interdependence and its Impact In Learning Technologies in Education*, International Education Conference, Faculty of Education, Jamia Millia Islamia. New Delhi: Excel India Publishers. ISBN: 978-93-84869-29-8
- Bhawana A. (2014) *Role of Teachers in Globalized Context: Bridging the Gap between Theory and Practice In Education As a Right Across the Levels: Challenges, Opportunities and Strategies*, International Education Conference, Faculty of Education, Jamia Millia Islamia. New Delhi: Viva Books Pvt. Ltd. ISBN: 978-81-309-2742-8
- Bhawana A. (2013) *Perspective on Social Environment and Globalization: Policy and Practice In Anveshnam*, Journal of Education, Global Institute of Education, Greater Noida. ISSN: 2279-0004, Online ISSN: 2320-1843. **(Peer Reviewed)**

Chapters in Books

- Bhawana A. (2017) *Global Perspective in Higher Education Policy: Impact on Science as a Subject In D. Parimala (Ed.). Higher Education in India: Challenges and Possibilities*. Kanishka Publishers. New Delhi. ISBN: 978-81-8457-745-7.
- Bhawana A. (2017) *Perspectives on Globalization and Education: Policy and Implications In D. Idnani (Ed.). Right to Education and Schooling*. Rawat Publications. New Delhi. ISBN: 978-81-316-0839-5.
- Bhawana A. (2012) *Teachers in Globalized Scenario: Issues and Concerns In D. Parimala (Ed.). Role of Teachers in Changing Context: Policy and Practice*. New Delhi: Kanishka Publishers. ISBN: 978-81-8457-374-9.

Papers presented in Seminars/Conferences:

(I) INTERNATIONAL CONFERENCES

1. *“Role of Teachers in Globalized Context: Bridging the Gap between Theory and Practice”* Presented at the International Education Conference titled “Education as a Right Across the Levels: Challenges, Opportunities and Strategies” held on March 10-11, 2014 at Jamia Millia Islamia, New Delhi.
2. *“Globalization and Technology: The Growing Interdependence and its Impact”* Presented at the International Education Conference titled, “Learning Technologies in Education” held on February 24-25, 2015 at Jamia Millia Islamia
3. *“Preparedness of State, Administrators and Teachers for Implementing RTE- Issues and Concerns”* Presented at the International Conference on “Education as a Basic Right of Humankind” held on October 2- 3, 2015 organized by Indialogue Foundation: Dialogue for Peace; Jamia Millia Islamia and Gandhi Smriti & Darshan Samiti.
4. *“Global Perspective in Higher Education Policy: Impact on Science as a Subject”* Presented at

International South Asian Conference on “Social Policy in Higher Education: Challenges and Possibilities” held on November 19- 21, 2015 at Central Institute of Education, New Delhi.

5. “*Globalization and Changing Trends in Science Education in Schools: Implications for Teacher Education Programmes*” presented at International Conference on “Teacher Education: Challenges, Opportunities and Strategies” held on 7-8 December 2016 at Jamia Millia Islamia in collaboration with IFORE (International Forum of Researchers in Education)
6. “*Changing Paradigms in Education: Preparing Students for Emerging Knowledge Economies*” at International Conference on Aligning Education Systems to the Challenges of the Future at Department of Education, Shyama Prasad Mukherji College, University of Delhi from November 8-10, 2017
7. “*Sustainable Development: Need for Interface of Science, Technology and Society*” in International Workshop on Education for Sustainable Development: Curricular and Pedagogic Experiences from Switzerland and India on 30th January 2019 at Mata Sundri College for Women, University of Delhi.

(II) NATIONAL CONFERENCES

8. Presented a paper on “*Perspective on Social Environment and Globalization: Policy and Practice*” at National Conference on “*Emerging Perspectives in Education: A Gateway to Innovations*” organized by Global Institute of Education, Greater Noida, 2013.
9. “*Perspectives on Globalization and Education: Policy and Implications*” presented at an Educational Symposium on “*The Changing Contours of Indian Education- Issues and Challenges*” organized by Shyama Prasad Mukherji College, University of Delhi on February 12-13, 2014
10. “*Preparing Teachers for RTE: Improving Practices in Teacher Education Programmes*” at National Conference on Competency Building for Excellence, Innovation and Social Change held at Lingaya’s Lalita Devi Institute of Management and Sciences (LLDIMS) on 6th – 7th November 2015
11. “*Globalization and Changing Trends in Science Education in Schools: Implications for Teacher Education Programmes*” at National Conference on “Emerging Trends in Education: New Paradigms” organized by Shyama Prasad Mukherji College, University of Delhi March 10- 11, 2016.
12. “*Globalization and Changing Contours of School Education: Issues and Concerns*” at the National Seminar “Exploring Psychological Perspectives in Education” under the aegis of IASE, MHRD, Government of India at CIE, Department of Education, University of Delhi, 28th January 2017.
13. “*Global Perspective on Indian Education: Policies, Programmes and Implications*” at National Conference on “Education in Contemporary India” 22nd to 24th February 2017, under the Department of Education, University of Delhi, India.
14. “*Blended and Experiential Learning through Technology: A Vision of NEP 2020*” in a two- day National Conference on “Inclusive and Equitable Education for Disadvantaged Group: Realizing SDG 4 and NEP 2020” on 19th and 20th May 2023 in collaboration with ICSSR, North Western Region Centre, Punjab University, Chandigarh. The paper was awarded as the best paper under the theme “ICT in Education and Blended Learning”
15. “*Blending Technology and Education in Post Pandemic Era: A Vision of NEP -2020*” in a two- day National Conference on “Impact of Post Pandemic on Management, Science, Information Technology, Education and Commerce (MSITEC)” on 3rd and 4th November 2023, organized by Agra Public Teachers

Training College under Agra Public Group of Institutions, Agra, Uttar Pradesh

(III) OTHERS:

16. “*Teachers in Globalized Scenario: Issues and Concerns*” presented at National Workshop organized by Central Institute of Education, University of Delhi in 2011 on the theme Changing Role of Teachers in Contemporary India: Policy and Practice.
17. Presented a paper on “*Teacher Education for Change: Special Focus to North- East Students*” at National Workshop on “*Understanding North- East India: Dialogue on Educational Issues and Challenges*” organized by Central Institute of Education on 13-14 March, 2015

National Workshops and Seminars Organised:

- Member of the Organizing Committee of a two-day workshop for secondary school mathematics teachers on Technology and Innovations in the Mathematics Classroom at Lady Shri Ram College for Women organized on 9th and 10th October 2013.
- Member of the Organizing Committee of a Two Day ICSSR Sponsored National Seminar on Alternative and Innovative Education in India-The Way Ahead organized by Department of Elementary Education, Lady Shri Ram College for Women on 26-27th March, 2018.
- Member of the Organizing Committee of an interactive session Samvaad 2022: Creating Spaces for Collaborations with School Administrators from Delhi on 22.06.22
- Member of the Organizing Committee of a Two Day ICSSR Sponsored National Seminar on National Education Policy 2020: Themes & Perspectives organized by Department of Elementary Education, Lady Shri Ram College for Women on 29th & 31st March, 2023.

Talks/Lectures:

- Invited for “Sapere Aude”, an Inter-School Science Festival for Students and Teachers organized by **GEMS Modern Academy, Dubai** to judge their online science competition, “Sapere Aude”- Fact or Fiction, on Thursday, 22nd April 2021.
- Invited as Guest of Honour to deliver a lecture for the first orientation program 'Abhinandan' to welcome the first batch of M. Ed. at RCCVG College Ghaziabad on Saturday, 7th January 2023
- Invited for an Online Workshop for undergraduate and post graduate students on “Teacher’s Role as a Manager, a Researcher & a Social Welfare Individual” by the Department of Childhood Care and Education (**DECCE**), Centre for Distance and Online Education (CDOE), **Jamia Millia Islamia** on, 14th July 2023.
- Delivered a Talk on the topic “Sustainable Development: A Step Towards an Uncompromised Future” for PGTs and TGTs at **PM Shree Kendriya Vidyalaya**, Andrews Ganj on Tuesday, 31st October, 2023

- Conducted an interactive session on “Green Initiatives for an Environment Conscious Society” for the Undergraduate Students from Macquarie University, Australia during their Study Tour in LSR, based on the theme, “India and the Indo Pacific: Dialogue and Contestation in the 21st Century” on Tuesday, 21st November 2023.
- Delivered a Talk on the topic “Engaging Citizens for Sustainable Development: Roles, Importance and Challenges” for PGTs and TGTs at **PM Shree Kendriya Vidyalaya**, Andrews Ganj on Tuesday, 8th December, 2023

Participation as Resource Person:

- Part of Workshop on “*Education for Values*” for Creating a “*Value Bank for Classroom Teaching*” organized by Springdales School, Pusa Road, National Progressive Schools’ Conference and CBSE on 1st October, 2012.
- Facilitated a session on “Pedagogical Studies: Sciences (including EVS)” with teacher educators at a National Seminar on “Pedagogical Discourse in Teacher Education- Films as a Pedagogic Tool” supported by USIEF organized by Department of Elementary Education, LSR, on 7th September 2015.
- Conducted a **hands- on workshop** as a Resource Person **for mathematics teacher educators from DIETs and school mathematics teachers** on the topic "Content based Pedagogy in Mathematics" under the programme entitled "State Resource Group Mathematics Training Workshop" organized by the Department of Educational Research Survey and Evaluation, **SCERT, Uttarakhand, Dehradun** on 3rd March 2023.
- Conducted a **hands-on Training Session** for 40 teachers, teaching 2nd- 8th grades, on **Foundational Literacy and Numeracy (FLN)** per the recommendations of NEP 2020, organized by the NGO Khushii (Kinship for Humanitarian Social and Holistic Intervention in India) on 17th June 2023.
- Conducted a workshop on the theme “Inculcating Values Through Mathematics” for mathematics teachers at Ramjas International School, Sector- 4, R K Puram organized in collaboration with Foundation for Restoration of National Values (FRNV) on 20th January 2024.
- Conducted a **hands-on Training Session** for primary and secondary school mathematics teachers as a part of Continuous Professional Development (CPD) workshop on the theme, “Teaching of Mathematics: Learning Processes and Challenges” at Kamal Model Sr. Sec. School, K-1 Extn., Mohan Garden on 1st March, 2024.

WORKSHOPS ATTENDED

- Participated in the Physics Workshop on “*Higher Order Thinking Skills and Demonstrations*” for senior secondary on 30th- 31st August 2008, organized by National Progressive Schools’ Conference at CRPF School, Rohini
- Participated in the “*9th Asian Regional Seminar on Peaceful Uses of Atomic Energy*” organized by United Schools international in collaboration with the Department of Atomic Energy and Ministry of External Affairs of Government of India at USO International Centre from 8th- 9th December, 2010
- Attended the Training Workshop for PGT Physics, organized by National Progressive Schools’ Conference at Bal Bharti Public School on 30th Nov & 1st Dec, 2012
- Participated in the “*1st Knowledge Conclave for Colleges and Universities*” organized by Centre for Science and Environment, New Delhi on 28th- 29th January, 2016.
- Participated in Two- Days National Workshop on NEP 2020 in Context of ITEP and Other Reforms of NCTE at Indian National Science Academy (INSA), organized by Mata Sundri College, University of Delhi in collaboration with National Council for Teacher Education (NCTE) and Vidya Bharati Akhil Bhartiya Shiksha Sansthan (VBABSS)

OTHER DETAILS

Preparation of Teaching Material:

- Created a YouTube channel during pandemic to facilitate online teaching- learning process.
- Invited as a Resource Person for the Modification and Development of Teaching-Learning Material in Mathematics Laboratory, at **NCERT** on Tuesday, 14th and Friday, 17th February 2023.
- Invited as a Resource Person for a Workshop for development of Teachers’ Manual on Pedagogies for Foundational Stage, at **SCERT**, Delhi on 30th June and 3rd July 2023
- Invited as a Resource person for 5 Days for a Workshop for Brainstorming and finalization of framework for the Manual on Pedagogies for Foundational Stage, at **SCERT**, Delhi on July 5,6,7,10 and 11, 2023
- Invited as a Resource Person for 5 days for a Workshop on “**□□□□□ 1 और 2 □□ □□□□□- □□□□□□□□ □□ □□□ □□□□□□□□□□ □□ □□□□□□□ □□□□□**”, at Department of Elementary Education, **NCERT** from 10th- 14th July 2023.

Membership in Professional Bodies:

- Was On the reviewer board of FIIB Business Review (FBR) in 2016- 2017. FBR (Print ISSN: 2319-7145; Online ISSN: 2455-2658) is the quarterly management journal published by Fortune Institute of International Business, New Delhi.
- Comparative Education Society of India (CESI)

Orientation and Refresher Courses:

- One Week FDP on "*Approach Towards Effective Teaching*" organized by Institute of Vocational Studies, affiliated to GGS Indraprastha University & SCERT, Delhi from 17th- 23rd December, 2020
- FDP on "Promoting Critical Thinking and Research Paper Writing for Teachers" organized by the Department of English and Foreign Languages, Madanapalle Institute of Technology and Science (MITS), Andhra Pradesh from 3rd- 5th August, 2020.
- Successfully completed One Week Online FDP with A+ Grade on "E- Content Development" organized by Guru Angad Dev Teaching Learning Centre, a Centre of MHRD under PMMMNMMT from 27th- 31st July 2020.
- Successfully completed a 4- Week Faculty Induction/ Orientation Programme for "*Faculty in Universities/ Colleges/ Institutes of Higher Education*" with Grade A conducted by Teaching Learning Centre, Ramanujan College, University of Delhi under the aegis of Ministry of Education, Malaviya Mission Teacher Training Programme from 21st February- 19th March 2024.
- Successfully completed the Summer Course for professional development of teacher educators in higher education institutions on the theme, "*Curriculum and Pedagogy in Pre- Service Teacher Education*" organized by Azim Premji University, Bengaluru from 3rd June- 8th June 2024.
- Successfully completed Faculty Development Programme (FDP) on "*NEP Orientation and Sensitization Programme*" conducted by Centre for Professional Development in Higher Education (CPDHE), Malaviya Mission Teacher Training Centre (UGC- MMTTC), University of Delhi, in collaboration with Aditi Mahavidyalaya, University of Delhi from 18th June- 27th June 2024.

Field Work:

Visits to various Innovative and Alternate Education Schools in Rajasthan and Varanasi as part of practicum in III- year of BEIEd.

Visits to various government, private and elite schools of Delhi and few NGOs as a part of various practicum across all the years of BEIEd.

Guided students for projects based on action researches done in schools and teacher education institutions/ programmes.

