



## **RESUME**

**Name:** Dr. Seema Rani Thappa **Designation:**

Assistant Professor

**Department:** Department of Teacher Education, Nagaland University, Kohima

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**Contact Numbers:** 9797386338

**Academic Qualification:** M.Sc.(Mathematics), M.Ed., Ph.D.in Education

**DOB:** 06-03-1992

**Key Research Areas:** Technological Pedagogical and Content Knowledge (TPACK), Indian Knowledge System, Curriculum Designing, e-content development & designing, Experimental Designing

### **Specialization:**

- **Major:** Instructional Designing, Quantitative Research Methods, Science and Mathematics Education, Curriculum Studies, Teacher Education
- **Minor:** Designing e-Content Modules, Pedagogical and Content Analysis, Designing and Organizing Capacity Building Programme

**Professional Recognition/Award/Prize/Certificate, Fellowship:** NET-JRF, JK-SET, CTET, University Gold Medal (2018), Senior Research Fellow Award, VC Award for Best Teacher-2025

### **Professional Achievements and Contributions**

#### **(I) Publications (in various Journal and Edited Book):**

##### **a) Published Research Papers in Journals – 15**

S.no.	Title of the Paper Published	Year	ISSBN	Vol	Issue	Page no.	Research Journal	Type of Journal
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1.	Effect of Phobia Management Programme on Mathematics Anxiety of Secondary School Students	2017	2320-5237	5	1	7-19	Confluence of Knowledge	UGC Care Listed
2.	Exploring Awareness for Technological Pedagogical and Content Knowledge (TPACK) in Pre-	2021	ISSN: 0976-8203,	11	1	1-14	MIER Journal of Educational Studies Trends & Practices	Web of Science

	Service Teacher Education Programme							
3.	Exploring Key Factors Leading to Low Performance in Mathematics of J&K Students in PISA	2022	1309-4653	13	03	174-185	Turkish Journal of Computer and Mathematics Education	Scopus
4.	Teachers' Techno-Pedagogical Competencies in Socio and Professional Contexts	2022	0976 – 0997	13	75	50789-50797	Indian Journal of Natural Science	Web of Science
5.	Efficacy of TPACK Framework through Blended Learning Approach: An Innovative Integrated Model in Post COVID-19 Era	2022	2278-2435	11	4	1-14	Education India: A Quarterly Referred Journal	UGC Care List
6.	Content Analysis of Life Skills in the 8th Grade Mathematics Textbook of NCERT	2023	2583-5289	02	03	01-06	International Journal of Multidisciplinary Comprehensive Research	Peer Reviewed

7.	Examining the Efficacy of Designed E-Content with reference to Learners Involvement& Satisfaction Level	2023	2347-7180	13	9	8-19	DRResearch Journal	UGCCare List
8.	Perceived PotentialofE-Assessment Strategies:AnI nnovative	2023	2319-3050	12	03	86-93	International Journal of Research Pedagogyand Technologyin	Peer Reviewed
	Pedagogical Approach						Educationand Movement Sciences	
9.	Augmenting Techno-Pedagogical Competencie s of Pre-Service Trainees for Designing E-Content through Collaborative Training Model	2023	2278-1757	02	02		Viksit India	Proceedings in Journal
10.	A Critical Analysis of the Attributes of Images Embedded in the Designed E-Content from the Learner's Perspective	2024	0976 – 0997	15	83	73684-73693	Indian Journal of Natural Sciences	Web of Science
11.	Evincing Research Culture Embedded Teacher Education For Innovative	2024	2320-2882	12	5	522-527	International Journal of Creative Research Thoughts	Peer Reviewed

	Pedagogical Approaches: A Futuristic Roadmap For Nep-2020							
12.	Extent of Cybercrime and Cybersecurity Sensitization among Preservice Teachers	2023	0975-0665	1	28	1-14	Insight: Journal of Applied Research in Education	Peer Reviewed
13.	Carrer Preferences of Senior Secondary School Students in relation to their some Socio-Environmental Variables	2024	0972-5830	36		33-44	Indian Journal of Vocational Education	UGC Care Listed
14.	Effect of Technological Pedagogical and Content Knowledge Framework based Capacity Building Programme Module (CBPM) on Teaching Aptitude of Pre-Service Teachers	2024 Nov.	2319-1945	14	2	511-531	MIER Journal of Educational Studies Trends and Practices	Web of Science
15.	Relationship Between Life Satisfaction and Mental Health Among College Students of Hardoi	2025	2226-0439	14	8s	1068-1073	Journal of Neonatal Surgery	Scopus

	District Of Uttar Pradesh							
16.	Efficacy of e-content designing and development training programme on digital competence of prospective teacher educators	2026						

**b) Chapters Contributed in published books – 11**

<b>S.No.</b>	<b>Title of Article</b>	<b>Year</b>	<b>ISBN:</b>	<b>Page No.</b>	<b>Title of Book</b>	<b>Publisher</b>
1.	Perceived Potential of TPACK in Pre-Service Teacher Education Programme	2020	978-93-87916-71-5	171-189	JMI Conference Proceedings	VL Media Solutions
2.	Technological Pedagogical and Content Knowledge in Education: An Analysis for Futuristic Implications	2021	978-93-90953-42-4	111-118	Meaningful Education (Edited Book)	Twenty First Century Publications Patiala
3.	Integrating TPACK Framework in Teacher Education Curriculum: Necessitated Roadmap for NEP 2020	2022	978-93-94017-31-3	11-23	New Educational Policy: The New Era of Teacher Education (Edited Book)	Twenty First Century Publications Patiala
4.	Exploring the Probable Technological Interventions for Sustained Implementation of NEP 2020	2022	978-93-95606-00-4	11-24	National Education Policy 2020 and its Implementation Strategies	Global Publishing House
5.	Innovative Pedagogical Practices in Mathematics	2022	978-93-91377-17-5	7-10	Chapter in Handbook of Enhancing Pedagogical Practices in Mathematics	Indu Book Services Pvt. Ltd

6.	Ensuring Beneficial Usage of Technology: Footstep to Restore Essential Values	2022	978-93-91377-16-8	136-144	Human Values & Human Rights Amidst Covid-19 Pandemics Elevating Through Educational Interventions A Resource Book	Indu Book Services Pvt. Ltd
7.	Emerging ICT Mediated Tools for Assessment and Evaluation in Education	2022	978-81-952023-3-1	37-45	Development & Standardization of Tools for Research in Social Sciences	Indu Book Services Pvt. Lt.
8.	PARAKH: An Innovative Initiation by NEP 2020	2022	978-81-952023-3-1	84-88	Development & Standardization of Tools for Research	Indu Book Services Pvt. Ltd
9.	Inclusive Teaching Acts as an Asset in Tackling Mathematics Anxiety for Children with Learning Disability	2023	978-81-952023-6-2	205-212	Co-Teaching Present and Future Prospects  (A Resource Book)	Indu Book Services Pvt. Lt.
10.	Desirability Of Pedagogical Change Through Steam Education: Harnessing the Potential of Visualization Tools	2024	978-93-5879-925-5	120-131	EDUCATIONAL RESEARCH Approaches, Trends and Challenges	RED'SHINE PUBLICATION PVT. LTD.
11.	Enhancing Teachers' Professional Competencies: A Dynamic Strategy for Incorporating Technology into the Classroom	2024	978-93-5809-747-4 Doi: 10.25215/9358097477	1-11	Techno-pedagogy: Bridging Technology and Teaching for Effective Learning	Red Unicorn Publishing Pvt. ltd
12.	Articulating the curricular provisions for Indian Knowledge System in Higher Education	2025	978-93-6389-903-2	60-71	Indian Knowledge System	Kunal Books Publisher

**(II) Participation in Seminars/Training Workshops/Conferences International /National/Regional Level---70**

As Resource Person –Seven(7)

As Paper Presenter---Twenty-One(21)

Workshops/FDPs/MOOCs---Forty-Three(43)

**(III) Ongoing/completed Projects during the last 5 years:**

S.No	Title of the Project	Co-PI/PI	Duration	Status	Funding Organization	Amount
1.	Identification of Causative Factors leading to dropout and poor learning level, and preventive and remedial action thereof in light of NEP 2020	Coordinator	2 Years	Completed	DIET-SCERT	2 Lakh
2.	Pedagogical Integration of Dogra Culture and Heritage Content in Indian Knowledge System (IKS) Perspective as Envisioned in NEP 2020	Co-PI	6 Months	Completed	IKS-AICET	7 Lakh
3.	Promoting Panchakosha Vikas Philosophy into the Teacher Education Curriculum: Roadmap for Realising the Vision of the NEP 2020	PI	2 Years	Ongoing	ICPR	5 Lakh
4.	Analyzing Work Life Balance Among Tribal Women Teachers of HEIs in Nagaland	Co-PI	1 Year	Ongoing	ICSSR Punyashloka Devi Ahilyabai Holkar Special Call for Women-Led Research	6.5 Lakh

**(IV) Copyright/PatentRegistered-04**

<b>S.No.</b>	<b>TitleofCopyrightWork</b>	<b>Registration No./filed</b>	<b>Authority</b>
1.	MBCD Scaffolding Model for Potential Development of Technological Pedagogical and Content Knowledge Competencies	L-134607/2023 Dated-10-10-2023	CopyrightOfficeNew Delhi
2.	Quadrant Model for Institutional Development (QMID) for enhancing Technological Pedagogical and Content Knowledge Competencies	L-134623/2023 Dated-10-10-2023	CopyrightOfficeNew Delhi
3.	Five Cs' Pedagogical Designing Analysis Model	L-157940/2024 Dated- 05/12/2024	CopyrightOfficeNew Delhi
4.	Need-Dependence Theory	LD-20250177849 Date of ROC:28/11/2025	CopyrightOfficeNew Delhi

**(V) ProfessionalContributions as aMember/EditorofJournal-One(1).**

**(VI) Having Association/Membership with Reputed National/International Organization (1)**





Dr. Seema R. Thappa has completed her Doctorate in the Department of Educational Studies, Central University of Jammu, India, in the field of Education Technology with the special emphasis on Technology, Pedagogy and Content Knowledge (TPACK) Framework. She is Post graduate in two subjects i.e., Education & Mathematics and many other academic credentials during her academic journey. She has done M.Ed. from Central University of Jammu and is a Gold Medalist. The author has qualified three-time UGC-NET JRF and SET in Education. Dr Thappa has deep research interests including Mathematics Education, Educational Technology, Quantitative Research and Pedagogical Practices in education. She is also initiating her research works in the Indian Knowledge System so as to contribute towards Indigenous System. She also published various research publications both in Journals as well as in Edited Book in her area of Interest. She also registered four IPR/copyrights in her credit on the MBCD Scaffolding Model and QMID Model for institutional development model. She is guiding two research scholars under her supervision.

She has been the member of organizing committee of various seminars, conferences, and workshops both at national as well as international level. Dr Seema Thappa is the member of various Educational Society like AIAER and besides this she is currently working as Executive Editor in Confluence of Knowledge an International Journal. She possesses expertise and background in both 'mainstream issues' and 'traditional knowledge' to present IKS in a contextually relevant fashion. Dr. Thappa, being a local inhabitant from J&K has been extensively involved in initialing the activities for promoting Culture and rich heritage of Jammu & Kashmir women and participated various national level event.

