# CURRICULUM VITAE

**Dr. MEENA GUPTA**

**Specialization: PhD. (Biomedical Engineering and Rehabilitation), Master of Physiotherapy (Neurology) Email:** [**mgupta9@amity.edu**](mailto:mgupta9@amity.edu)**,** [meenaguptaphysio@gmail.com](mailto:meenaguptaphysio@gmail.com)

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# To gain a position of responsibility in the organizational hierarchy by providing ability & competence in the work assigned to meet organization objectives.



**Professional Overview**

* Excellent written and verbal communication skills, along with good multi-tasking and project management skills to ensure the completion of both short term and long term tasks.
* Able to bring energy, enthusiasm and humor to motivate team members to achieve potential and meet objectives.

# Professional Qualification

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| **S. No** | **Qualification** | **Institute/University** | **Year of**  **Passing** |
| 1 | PhD **(**Biomedical Engineering) | Department of Biomedical Engineering, North Eastern Hill University, Meghalaya, India | 2020 |
| 2 | Master of Physiotherapy(**Neurology**) | Institute of Allied Health and Medical Research, Ghaziabad with Chaudhary Charan Singh University Meerut, Uttar Pradesh, India | 2010 |
| 3 | Bachelor of Physiotherapy | Santosh Medical College, Ghaziabad affiliated with Chaudhary Charan Singh University Meerut, Uttar Pradesh, India | 2007 |
| 4 | 9 month diploma in computer application | F-Tech, Delhi, India | 2000 |
| 5 | 12th | CBSE Delhi | 1999 |
| 6 | 10th | CBSE Delhi | 1996 |

**WORKING EXPERIENCE:**

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| **Name of Organization** | **Designation** | **From - To** | **Duration** |
| Arpana Swasthya Kendra(Project Under IPP-VII MCD), Goutum Puri, Phase-I, Mollar Bandh, New Dlhi-44 | Physiotherapist | March 2007- May  2008 | 1 Year 2 months |
| The Child Centre, Banglow no-4, near vinobha puri, Lajpat Nagar-IV | Pediatric physiotherapist (freelancer) | November 2009-November 2015 | 6 year |
| National Institute of Mentally Handicap(NIMH) Lajpath Nagar-II, New Delhi-24 | Lecturer ( part time) | Jan 2010-Oct 2012 | 2 years 10 months |
| North Eastern Hill University (central university) Shillong, Meghalaya, India | Junior research fellow | Feb 2015-Jan 2017 | 2 years |
| North Eastern Hill University (central university) Shillong, Meghalaya, India | Senior research fellow | Feb 2017-Oct 2017 | 8 months |
| Amity Institute of Physiotherapy, Amity University, Noida, Uttar Pradesh, India | Assistant Professor-II | July 2019- till date | Currently working |

**\*Total Experience- 13 years (Clinical experience 6 yrs, Teaching experience 5 years and Research experience 2 year 8 months)**

**Achievements**

**PAPER PUBLICATION:**

1. S. Bhatt**, M.Gupta**, A. Nautiyal. Impact of COVID on corporate employees working from home in quality of life. NOVIY MIR research journal, 6(7), 282-291, 2021. (6.1)
2. A. Nautiyal**, M.Gupta**, S. Bhatt, Prevalence of stress level in physiotherapy working profession during covid-19 pandemic. International journal of public health research and development, 12(4), 18-22, 2021 9(.08)
3. **M. Gupta,** R. Jain. Study on prevalence of musculoskeletal discomforts and quality of life in among Indian shopkeepers due to chronic osteoarthritic pain. Medical and clinical reviews, 7(7) 145-149, 2021 (0)
4. **M. Gupta,** R. Kalra. Methods of virtual rehabilitation for healthcare workers-A review. Medical and clinical reviews, 7(5) 134-143, 2021 (0)
5. M. Gupta, D. Pandey. Pulmonary rehabilitation for patients with covid-19. Medical and clinical reviews, 7(6) 139-143, 2021 (0)
6. **M. Gupta,** R. Kalra. A Review on potential of robotic rehabilitation in health care system. International journal of medical science and clinical invention, 8(5), 5392-5413, 2021 (0)
7. **M.Gupta**, D. Bhatia. Study the cognitive changes in cerebral palsy children employing repetitive transcranial magnetic stimulation and neurofeedback training. Proceedings of international conference on computing and communication, April 2021.
8. **M.Gupta,** A Mukherjee. Open pilot study of stimulive tablets in augmenting immunity to benefit children with autism. International journal of herbal medicine 5(2), 84-85, 2017 (5.20)
9. **M. Gupta**, D. Bhatia, T.K.Sinha, S.Dogra, SK. Jha. Investigation of cognitive changes in cerebral palsy children employing different integrated sensing technique. Sensors international, 1(1), 2020
10. **M. Gupta,** D. Bhatia. Retrain the brain through noninvasive medically acclaimed instruments. Application pf biomedical engineering in neuroscience, 51-60, 2019
11. B. L. Rajak, M. Gupta, D. Bhatia, A. Mukherjee. Increasing number of therapy sessions of repetitive transcranial magnetic stimulation improves motor development by reducing muscle spasticity in cerebral palsy children. Annals of Indian academy of neurology, 22(3), 302-307, 2019 (1.383)
12. **M.Gupta** B. L. Rajak, D. Bhatia, A Mukherjee. Effect of repetitive transcranial magnetic stimulation on motor function and spasticity in spastic cerebral palsy. International journal of biomedical engineering and technology 31(4) 364,2019. (1.3)
13. **M.Gupta** B. L. Rajak, D. Bhatia, A Mukherjee. Neuromodulatory effect of repetitive transcranial magnetic stimulation pulses on functional motor performances of spastic cerebral palsy children. Journal of Medical Engineering and Technology 42(5):1-7, 2018 (1.03)
14. **M.Gupta**, D. Bhatia. Evaluating the effect of Repetitive Transcranial Magnetic Stimulation in Cerebral Palsy children by employing Electroencephalogram Signals. Annals of Indian academy of Neurology, 21(4) 280-284, 2018 (1.383)
15. B. L. Rajak, **M.Gupta**, D. Bhatia, A Mukherjee. Effect of Repetitive Transcranial Magnetic Stimulation Pulses on Muscle Spasticity of Cerebral Palsy Children. Internal journal of physical medicine and rehabilitation. 6(2), 2018. (0.98)
16. A Mukherjee, **M.Gupta**, Sumit Sinha, Sashi Prabha Gaur , Tarun Sahani. Effectiveness of low-pressure hyperbaric oxygen therapy in autism and hypoxic brain injury cases mimicking autism. International journal of current advanced research 7(5), 12419-12421, 2018 (6.614)
17. **M.Gupta.** New rehabilitation approaches for Neurodevelopmental disorders. Degenerative intellectual and developmental disabilities.1(3), 1-2, 2018 (1.172)
18. **N. N Prem , M .**Gupta, T .Gupta. Existing predictive model of diabetes-A review. Sci Fed Journal of diabetes and endocrinology.2(2), 1-6, 2018.
19. B. L. Rajak, **M. Gupta**, D. Bhatia, Arun Mukherjee Sudip paul, Tapas Kumar Sinha. Power spectrum study of EEG signals from the frontal brain area of autistic children. Proceeding of the international conference on computing and communicating system.523-523, 2018
20. A. Mukherjee, V. Sharma, I.N. Roy, M. Gupta. Case history of a noval treatment approach for congenital cardiomyopathy due to carnitine transporter deficiency. Degenerative intellectual and developmental disabilities,1-5, 2017. (1.172)
21. A. Mukherjee, V. Gomber, M. Gupta, S. Sinha, Y Shamsi. Effectiveness of centella asiatica in varios illnesses-A Review. International journal of current medical and pharmaceutical research, 3(12), 2748-2772, 2017. (0)
22. **M.Gupta,** D. Bhatia Effective of Repetitive Transcranial magnetic stimulation on cognition in spastic cerebral palsy cerebral palsy children. Journal of neurological disorders, 5(2), 1-2, 2017. (3.1)
23. **M.Gupta**, D. Bhatia, B.Rajak. Study of available intervention techniques to improve cognitive function in cerebral palsy patients. Curr Neuobiol;8(1): 51-59, 2017. (2.46)
24. A. Mukherjee, **M.Gupta**, S. Dogra, S.Sinha Y.Samsi. Studies of brahmi based unani compound formulation on autism to assess its efficacy. International journal of Ayurveda and pharma research, vol. 5(5), 62-64, 2017. (0)
25. B. L. Rajak, **M. Gupta**, D. Bhatia, A. Mukherjee, Effect of repetitive Transcranial magnetic stimulation on hand function of spastic cerebral palsy. journal of neurological disorders, vol.5(1), 2-5, 2017. (3.1)
26. D. Bhatia, B. L. Rajak, **M. Gupta**. Computational approaches in neuroprotection and neurorehabiltaion. Journal of biological engineering research and review vol. 4(1). International brain research organization (IBRO) 2017. (0)
27. B. L. Rajak, M. Gupta, D. Bhatia, A. Mukherjee,Effect of RMS on hand function of spastic cerebral palsy children, journal of neurological disorders, 2017. (3.18)
28. Arun Mukherjee and Meena Gupta. Open pilot study of stimulive tablets in augmenting immunity to benefit children with autism. 2017; 5(2): 84-85.
29. **M. Gupta**, D. Bhatia comparative study of Alpha and Theta waves between normal and cerebral palsy patients. International journal of Bionic and Biomaterials, vol.2 (2), 12-15, 2016. (0)
30. B. L. Rajak, **M. Gupta**, D. Bhatia, A. Mukherjee, S. Paul, T. K. Sinha. “Power spectral analysis of EEG as a potential marker in the diagnosis of spastic cerebral palsy cases”. ***International Journal of Biomedical Engineering and Sciences***. dio: 10.5121/ijbes.2016.3303,2016. (0)
31. M. Gupta, B. L. Rajak, D. Bhatia, A. Mukherjee. Transcranial magnetic stimulation therapy in spastic cerebral palsy children improves motor activity.journal of neuroinfectious disease. 2016. (0)
32. B. L. Rajak, **M. Gupta**, D. Bhatia, A. Mukherjee, S. Paul, T. K. Sinha. “Power Spectrum Density analysis of EEG signals in spastic cerebral palsy patients by inducing r-

TMS therapy”. ***Journal of Biomedical Engineering and Biosciences***. 2016 (0)

1. **M. Gupta**, B. L. Rajak, D. Bhatia, A. Mukherjee. “Effect of r-TMS over standard therapy in decreasing muscle tone of spastic cerebral palsy patients”. ***Journal of Medical Engineering and Technology***, 2016, Vol. 40, No. 4, pp. 210-216. ISSN: 0309-1902 (Print) 1464-522X (Online). PMID: 27010377. DOI:10.3109/03091902.2016.1161854 (1.03)
2. B. L. Rajak, **M. Gupta**, D. Bhatia. “Growth and Advancements in Neural Control of Limb”. ***Biomedical Science and Engineering***, 2015, Vol. 3, No. 3, pp. 46-64. ISSN (Print): 2373-1257; ISSN (Online): 2373-1265. doi: 10.12691/bse-3-3-1
3. D. Bhatia, B. L. Rajak, M. Gupta, A. Mukherjee. “Application of Micro-Electro- Mechanical Systems as Neural Interface”. ***Journal of Advances in Biomedical Engineering and Technology***, 2015, Vol. 2, pp. 1-10. ISSN: 2409-3394.
4. **M. Gupta**, B. L. Rajak, D. Bhatia, A. Mukherjee. Effect on functional performace of upper extrimities in spastic cerebrla palsy children employing varying rTMS pulses. International journal of biotechnology and biomedical sciences, 2015

**International Conferences**

1. B. L Rajak, **M. Gupta** D. Bhatia, A. Mukherjee. Effect of varying pulses on the efficacy of repetitive Transcranial magnetic stimulation therapy in spastic cerebral palsy children. XXVI congress of the international society of biomechanics 23-27 July 2017. Brisbane, Australia.
2. **M. Gupta**, D. Bhatia. Study the effects of repetitive treanscranial magnetic stimulation for perceived cognitive changes in cerebral palsy patients. VI International conference on early childhood care and education 10-13 May 2017, Lononosov, Russia.
3. Case study in cerebral palsy and its management using RTMS, medical academy of paediatrics special need, 9-11 September, GA,USA 2016.
4. **M. Gupta**, B. L Rajak, D. Bhatia, A.Mukherje. Effect of functional performance of upper extremity in spastic cerebral palsy children employing varying rTMS pulses. Vol.2 (3), 216- 19, 2016.
5. A. Mukherjee, **M. Gupta**, B. L Rajak, D. Bhatia. “Case study in Cerebral Palsy and its Management using repetitive Transcranial Magnetic Stimulation (rTMS)”, ***MAPS Fall 2016 Functional Translational Medicine Conference***, Medical Academy of Pediatric Special Needs (MAPS), Sept 8-10, 2016. Atlanta, GA, USA
6. D. Bhatia, B. L. Rajak, M. **Gupta**, A. Mukherjee, S. Paul, T. K. Sinha. “Improved motor performance in spastic cerebral palsy children after repetitive transcranial magnetic stimulation”. ***Neuroscience 2016***, Nov 12 – 16, 2016. San Diego, USA.
7. **M. Gupta**, B. L Rajak, D. Bhatia, A. Mukherjee. “Effect of r-TMS on motor cortex in spastic Cerebral Palsy”. ***IVth International conference and workshop of Physical Therapy***, Nov 28-29, 2015. AIIMS, New Delhi.

# National Conferences

1. Bablu Lal Rajak, **Meena Gupta**, Dinesh Bhatia, Arun Mukherjee, “Transcranial Magnetic Stimulation as assistive technology to enhance motor performance in spastic cerebral palsy children” National conference Jhansi September 1-2 2017.
2. B. L. Rajak, **M. Gupta**, D. Bhatia, A. Mukherjee, S. Paul, T. K. Sinha. “FFT based analysis provide a new dimension for spastic Cerebral Palsy children - Post rTMS therapy”. ***29th Annual Meeting of Society for Neurochemistry, India & National Workshop and Conference on “Advances in Computational Neurochemistry and Neurobiology” (SNCI- ACNN)***, Dec 16 - 21, 2015. NEHU, Shillong.
3. B. L. Rajak, **M. Gupta**, D. Bhatia, A. Mukherjee. “Comparative study between r-TMS and standard therapy in spastic CP kids”. ***National conference on recent trends in Biomedical Engineering****,* Aug 2015. NEHU, Shillong.

# Books Published

* 1. **Pediatric Rehabilitation** (2018) by Renova International Publication, Delhi ISBN No. 978-81-933340-7-2.
  2. **Brain and Spinal Cord Injury Rehabilitation** (2017) by S. R Publication house, Delhi ISBN No. 978-93-82884-78-1.
  3. **Stroke Rehabilitation** (2016) by ABS Books Limited, Delhi ISBN No. 978-93-86088-05-5.
  4. **Clinical Approach of Physiotherapy in Postoperative Conditions** (2016) by Jaypee brothers Publication, ISBN No. 978-93-85999-25-3.
  5. Edited Book- Stroke rehabilitation by ABS BROTHERS in 2017

**Book Chapters Published**

1. Published a chapter in book **PHYSIOTHERAPUTIC APPROCH TO NEUROCARE (ISBN: 978-81-910077-0-1) 2014.**
2. Publish book on clinical approach of **PHYSIOTHERAPY APPROCH IN POST OPERATIVE CONDITION, (ISBN 978-93-5250-162-5).** By JEYPEES BROTHERS , 2016.
3. **Retrain the brain through non-invasive medically acclaimed instruments**. Biomedical Engineering and its Applications in Healthcare. 2019 (51-60), Springer nature.
4. **Artificial intelligence in healthcare & digital Pathology.** Artificial Intelligence- An inducement of technology in human affairs.2019 (204-213), Walters Kluwer.
5. **Neurofeedback- Retrain the brain.** Machine learning 2018 (13-25), IGI global.
6. **Devices for rehabilitation**. Design and development of affordable healthcare technology, 2018 (57-84), IGI global.
7. **Recent advancement in assistive technology for disabled and physically challenged persons**. Book on disability. 2020 by Cambridge Scholars, U.K ( ***Accepted***)

# Others

1. Expert lectures on **cerebral palsy, Asha Awaa special school Delhi cant, 2016**
2. **Tele conference** on role of physiotherapy in mental retardation conducted by RCI. (Rehabilitation council of India) 2015.
3. **Tele conference** on role of physiotherapy in vocational training conducted by RCI (rehabilitation council of India), 2015.
4. **Tele conference** on physiotherapy modalities used in mental retardation conducted by RCI (rehabilitation council of India), 2015 .
5. **Expert lectures** on cerebral palsy and orthopedically handicapped conditions conducted by **State Council of Educational Research and Training, New Delhi,** 2015.

# Awards

1. Awarded **Dr. M.B Athreya award 17 November, 2016** for Best research in field of disability.
2. **Best paper award** in BIOREHAB-2016 National Conference dated 15th -16th September 2016 organized by the Department of Biomedical Engineering, North Eastern Hill University, Shillong, Meghalaya.
3. **NIPMED travel grant 2017 of 15000/-INR** National Institute for Empowerment of person with multiple disabilities (NIPMD) Chennai dated 17th -19th April 2017 to attend National workshop on qualitative research methods for benchmark disability with focus on multiple disability.
4. I**CMR travel grant 2017 of 49000/**- INR from Indian Council of Medical Research to present PhD paper in VI International conference “Early Childhood Care and Education” held on 10th -13th May 2017, Lomonosov Moscow State University, Moscow, Russia.
5. **NIPMED travel grant 2017 of 15000/-**INR from National Institute for Empowerment of person with multiple disabilities (NIPMD) Chennai dated 9th

-11th October, 2017 to attend National workshop on mixed method research in special and inclusive education.

1. IBRO **travel grant 2018 of 500 USD** from IBRO-APRC Associate School of Neuroscience, dated 21st – 30th September 2018, Malaysia
2. Award of **oral present third position** in IBRO-APRC Associate School of Neuroscience, dated 21st – 30th September 2018, Malaysia
3. Award of best **oral present** in IBRO-APRC Associate School of Neuroscience, dated 2nd – 6th August 2021, Malaysia
4. **Women research award**, 12th International Scientist Awards on Engineering, Science and Medicine Visakhapatnam, India. 20 & 21-Nov-2020

# Others

* Certified r-TMS therapist by Chroma N.V
* Certified Neurofeedback therapist by Human karigars

**Personal Details**

* + - Name: Mrs. Meena Gupta
    - Husband Name: Mr. Sachin Kumar Sharma
    - Sex :Female
    - D.O.B : 15/10/78
    - Marital Status: Married
    - Community: Hindu
    - Nationality: Indian
    - Language known: English, Hindi
    - Hobbies: reading playing cards

All the information furnished by me is true and to the best of my knowledge and belief.

**Date:-24/11/2020**

**Place:- New Delhi, India**