



SURESH
GYAN VIHAR
UNIVERSITY
Accredited by NAAC with 'A+' Grade

PhD Physiotherapy Syllabus

Ph.D. in Physiotherapy – Course work Syllabus

Duration: 1 Semester

Structure: 5 Units

Unit 1: Research Methodology and Biostatistics

- Fundamentals of Research Methodology
 - Ethics in Research and Professional Conduct
 - Statistical Techniques: Central Tendency, Dispersion, Regression, and Probability
 - Advanced Testing Methods and Biostatistics
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Unit 2: Core Physiotherapy Sciences

- Anatomical and Physiological Foundations: Cell Structure, Musculoskeletal, Cardiovascular, Respiratory, and Nervous Systems
 - Biomechanics and Pathomechanics of Movement
 - Electrotherapy and Kinesiotherapy Principles
 - Rehabilitation Techniques and Palliative Care Approaches
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Unit 3: Specialization Areas

- **Musculoskeletal Physiotherapy:** Assessment and management of orthopedic conditions, spinal disorders, and post-operative rehabilitation.
- **Neurological Physiotherapy:** Neuroanatomy, neurophysiology, and rehabilitation strategies for conditions like stroke and spinal cord injuries.
- **Cardiopulmonary Physiotherapy:** Management of respiratory and cardiac conditions, including COPD and post-cardiac surgery care.

- **Pediatric and Geriatric Physiotherapy:** Developmental disorders in children and age-related conditions in the elderly.
 - **Sports Physiotherapy:** Injury prevention, management, and rehabilitation in athletic populations.
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Unit 4: Advanced Therapeutic Techniques

- Life Style Modification and Health Promotion
 - Community-Based Rehabilitation (CBR) Strategies
 - Women's Health and Physiotherapy Interventions
 - Bioengineering Applications in Physiotherapy
 - Oxygen Therapy and Delivery Systems
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Unit 5: Dissertation and Seminar

- Development of Research Proposal and Thesis Work
- Seminar Presentations on Current Topics in Physiotherapy
- Publication of Research Findings in Peer-Reviewed Journals
- Viva Voce Examination and Defense of Research Work