FELLOWSHIP IN NEUROPATHOLOGY

ABOUT THE UNIVERSITY

Malla Reddy Vishwavidyapeeth is a reputed educational institution located in Hyderabad, Telangana, India. Recognized as a "Deemed to be University under Distinct (Existing) Category," the university offers multidisciplinary programs across medical, dental, nursing, pharmaceutical sciences, and allied health sciences. The institution emphasizes academic excellence, clinical expertise, innovation, and global collaboration in advancing healthcare education.

PROGRAM OVERVIEW

The Fellowship in Neuropathology is a one-year intensive program designed to train healthcare professionals in the diagnosis and evaluation of diseases of the nervous system.

The program focuses on:
• Central and peripheral nervous system disorders
• Brain and spinal cord tumors
• Neurodegenerative diseases
• Neuromuscular disorders
• CNS infections and inflammatory conditions
• Molecular and immunohistochemical techniques

The program integrates laboratory training, clinical exposure, and advanced diagnostic techniques to ensure comprehensive expertise in neuropathology.

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PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Develop expertise in neuropathological diagnostics.
2. Interpret brain and nerve tissue specimens accurately.
3. Apply immunohistochemistry and molecular techniques.
4. Diagnose neoplastic and non-neoplastic neurological diseases.
5. Integrate pathological findings with clinical neurology.
6. Maintain quality standards in reporting.
7. Conduct research in neuropathology.

PROGRAM OUTCOMES (POS)

1. Diagnostic Expertise: Evaluate neurological diseases accurately.
2. Laboratory Skills: Interpret CNS and nerve biopsies.
3. Technical Skills: Apply immunohistochemistry and molecular diagnostics.
4. Clinical Integration: Correlate pathology with neurological findings.
5. Quality Assurance: Ensure standardized reporting systems.
6. Research Orientation: Contribute to advancements in neuropathology.

COURSE OUTCOMES (COS)

• CO1: Diagnose neurological diseases.
• CO2: Interpret brain and nerve tissue specimens.
• CO3: Apply immunohistochemical techniques.
• CO4: Understand molecular diagnostics.
• CO5: Integrate pathology with clinical practice.

PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate expertise in neuropathology.
2. Apply advanced diagnostic techniques.
3. Integrate laboratory findings with clinical evaluation.

PROGRAM DETAILS

• Certificate Awarded by: Malla Reddy Vishwavidyapeeth
• Program Duration: One-Year Fellowship
• Mode of Delivery: Laboratory + Clinical + Theoretical Training

ELIGIBILITY CRITERIA

• Academic Qualification: MBBS with MD/DNB in Pathology or equivalent
• Professional Requirement: As per institutional norms

KEY FEATURES

• Advanced training in neuropathology
• Hands-on exposure to CNS specimen evaluation

- Training in immunohistochemistry and molecular diagnostics
- Focus on accurate diagnosis and reporting
- Evidence-based pathology practice

LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of neurological diseases

COGNITIVE SKILLS

- Analytical decision-making in neuropathology

PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in tissue evaluation and lab techniques
- Hands-on experience in diagnostic labs

TRANSFERABLE SKILLS

- Clinical correlation and reporting

SUBJECT-SPECIFIC SKILLS

- Advanced neuropathology diagnostic techniques

CURRICULUM MODULES – THEORY

SEMESTER 1: FUNDAMENTALS OF NEUROPATHOLOGY

- Nervous System Anatomy & Physiology
- CNS Pathology
- Neurodegenerative Disorders
- Neuromuscular Diseases
- Laboratory Techniques
- Clinical Rotations

SEMESTER 2: ADVANCED NEUROPATHOLOGY

- Brain Tumors
- Spinal Cord Pathology
- CNS Infections

- Immunohistochemistry
- Molecular Diagnostics
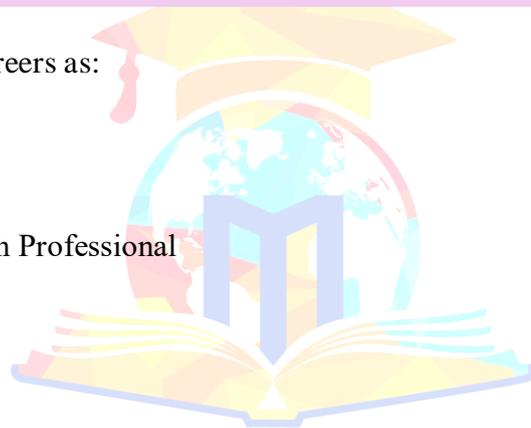- Research Project

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PRACTICAL COURSEWORK

- Tissue specimen evaluation
- Immunohistochemistry techniques
- Microscopy and reporting
- Case discussions
- Research and documentation

CAREER OUTCOMES

Graduates can pursue careers as:
- Neuropathologist
- Diagnostic Pathologist
- Laboratory Specialist
- Clinical Researcher
- Academic and Research Professional