

FELLOWSHIP IN BLOOD BANKING

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 in medical, dental, nursing, pharmaceutical sciences, engineering, and allied health sciences. The institution emphasizes academic excellence, clinical proficiency, innovation, and global collaborations, contributing significantly to advanced healthcare education and training.

PROGRAM OVERVIEW

The Fellowship in Blood Banking is a specialized clinical program designed to develop expertise in transfusion medicine, blood collection, processing, storage, and safe transfusion practices. The program focuses on:

- Principles of transfusion medicine
- Blood grouping, typing, and cross-matching
- Blood component separation and storage
- Screening of blood for infectious diseases
- Transfusion reactions and their management
- Quality assurance and blood bank management

The program integrates **theoretical learning, laboratory exposure, and hands-on training**, ensuring competency in safe and effective blood banking practices.

PROGRAM EDUCATIONAL OBJECTIVES (PEOS)

Graduates will be able to:

1. Ensure safe blood collection, processing, and transfusion practices.
 2. Apply transfusion medicine principles in clinical settings.
 3. Manage blood bank operations and quality systems effectively.
 4. Prevent and manage transfusion-related complications.
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PROGRAM OUTCOMES (POS)

1. **Transfusion Expertise:** Perform blood grouping, typing, and compatibility testing.
2. **Component Management:** Process and store blood components effectively.
3. **Safety & Screening:** Ensure safe blood through screening for infectious diseases.

4. **Clinical Application:** Manage transfusion therapy and reactions.
 5. **Quality Management:** Implement quality control and assurance in blood banks.
 6. **Laboratory Skills:** Perform advanced immunohematology techniques.
 7. **Regulatory Compliance:** Adhere to standards and guidelines in blood banking.
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COURSE OUTCOMES (COS)

- **CO1:** Understand principles of transfusion medicine and blood banking.
 - **CO2:** Perform blood grouping, cross-matching, and compatibility testing.
 - **CO3:** Manage blood component preparation and storage.
 - **CO4:** Identify and manage transfusion reactions.
 - **CO5:** Apply quality assurance and safety protocols in blood banking.
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PROGRAM-SPECIFIC OUTCOMES (PSOS)

1. Demonstrate competency in blood collection, processing, and transfusion practices.
 2. Apply quality and safety standards in blood banking operations.
 3. Integrate transfusion medicine with clinical patient care.
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PROGRAM DETAILS

- **Certificate Awarded by:** Malla Reddy Vishwavidyapeeth
 - **Program Duration:** One-Year Fellowship
 - **Mode of Delivery:** Hybrid (Laboratory Training + Theoretical Learning + Hands-on Practice)
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**MALLAREDDY
VISHWAVIDYAPEETH**
(Deemed to be University)

ELIGIBILITY CRITERIA

- **Academic Qualification:** MBBS / MD/DNB in Pathology or related fields
 - **Professional Requirement:** As per institutional and regulatory guidelines
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KEY FEATURES

- Specialized training in transfusion medicine and blood banking
- Hands-on experience in blood collection and component processing
- Training in infectious disease screening and safety protocols
- Focus on transfusion reactions and patient safety
- Exposure to blood bank management and operations
- Emphasis on quality assurance and regulatory compliance

- Integration of laboratory and clinical practices
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LEARNING OUTCOMES

KNOWLEDGE & UNDERSTANDING

- Comprehensive understanding of transfusion medicine and blood banking systems.
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COGNITIVE SKILLS

- Analytical and clinical reasoning in transfusion practices.
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PRACTICAL & PROFESSIONAL SKILLS

- Proficiency in blood grouping, cross-matching, and component preparation.
 - Hands-on experience in blood bank operations and management.
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TRANSFERABLE SKILLS

- Documentation, reporting, and communication in transfusion services.
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SUBJECT-SPECIFIC SKILLS

- Integration of blood banking practices with clinical patient management.
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CURRICULUM MODULES – THEORY

- Principles of Transfusion Medicine
 - Blood Group Systems and Compatibility Testing
 - Blood Component Preparation and Storage
 - Screening for Infectious Diseases
 - Transfusion Reactions and Management
 - Immunohematology
 - Blood Bank Organization and Management
 - Quality Assurance and Regulatory Standards
 - Donor Selection and Blood Collection
 - Advances in Transfusion Medicine
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PRACTICAL COURSEWORK

- Hands-on training in blood banks and transfusion services
- Blood grouping, typing, and cross-matching procedures

- Blood component separation and storage techniques
- Screening for transfusion-transmissible infections
- Management of transfusion reactions
- Quality control and safety protocol implementation
- Case documentation and clinical correlation

CAREER OUTCOMES

Graduates of the Fellowship in Blood Banking can pursue careers as:

- Blood Bank Specialist
- Transfusion Medicine Consultant
- Clinical Pathology and Laboratory Specialist
- Blood Bank Manager
- Hospital Transfusion Services Expert
- Academic and Research Roles in Transfusion Medicine

