



Sanjeevani Multipurpose Foundation's
**DR. DEEPAK PATIL AYURVEDIC MEDICAL
COLLEGE AND RESEARCH CENTER**

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ACADEMIC VISIT REPORT
(Under MOU – Blood Bank Training & Exposure Program)
Department of Rognidan Evam Vikriti Vigyan

Visit to: Vaibhavalakshmi Blood Centre, Kolhapur

Date of Visit: 6th May 2026

Time: 3:00 PM onwards

Participants: Second BAMS Students with Faculty Members

1. Introduction:

Under the academic Memorandum of Understanding (MOU) established between the Department of Rognidan Evam Vikriti Vigyan and Vaibhavalakshmi Blood Centre, Kolhapur, an educational visit was organized for Second BAMS students.

The MOU aims to strengthen academic collaboration, promote skill-based learning, and provide real-time exposure to diagnostic and laboratory practices. Blood banking is an integral part of modern healthcare, and its understanding is essential for students of Rognidan, as it directly correlates with disease diagnosis, hematological investigations, and patient management.

This visit was conducted as a part of experiential learning to bridge the gap between theoretical concepts and practical application in transfusion medicine and laboratory sciences.

2. Aims and Objectives:

The visit was conducted with the following academic and practical objectives:

To provide hands-on exposure to blood bank functioning under standard regulatory guidelines.

To understand the Standard Operating Procedures (SOPs) followed in blood collection, testing, processing, and storage.

To study the role of blood banks in emergency and routine clinical care.

To familiarize students with donor selection criteria and ethical aspects of blood donation.

To observe advanced diagnostic techniques used in blood grouping, cross-matching, and screening for transfusion-transmitted infections.

To understand quality assurance systems and biomedical waste management practices.

To enhance clinical correlation of hematological investigations in Ayurvedic and integrative medical practice.

3. Proceedings of the Visit:

The visit was conducted in a systematic and well-coordinated manner as per the provisions of the MOU. The students were welcomed by the technical staff and given an orientation session regarding the functioning, vision, and services of the blood centre.

The detailed departmental exposure is summarized below:

3.1 Reception and Donor Registration

Students observed the initial screening and registration process of donors. Detailed history taking, consent procedures, and eligibility assessment were demonstrated. The importance of voluntary donation and ethical considerations were emphasized.

3.2 Donor Screening and Counseling

Pre-donation counseling included medical examination, hemoglobin estimation, blood pressure check, and risk assessment. Students understood the significance of donor safety and infection prevention protocols.

3.3 Blood Collection (Donation Area)

The procedure of blood collection using sterile, disposable equipment was demonstrated. Students observed donor monitoring, aseptic precautions, labeling protocols, and post-donation care including rest and refreshments.

3.4 Blood Grouping and Cross-Matching Section

Students were introduced to ABO and Rh typing techniques and compatibility testing. The importance of cross-matching to prevent transfusion reactions was clearly explained with practical demonstrations.

3.5 Testing and Screening Laboratory

Screening of blood samples for infectious diseases such as HIV, Hepatitis B & C, syphilis, and malaria was demonstrated. The role of ELISA/NAT techniques and strict SOP adherence for ensuring transfusion safety was emphasized.

3.6 Component Separation and Processing Unit

Students observed centrifugation and separation of blood into components like Packed Red Blood Cells (PRBC), Platelets, Fresh Frozen Plasma (FFP), and Cryoprecipitate. The clinical importance of component therapy was explained in detail.

3.7 Storage and Refrigeration Section

Different storage conditions for blood components were demonstrated:

PRBC at 2–6°C

Plasma at -30°C or below

Platelets at 22°C with agitation

Temperature monitoring systems, alarm systems, and SOPs for maintaining cold chain integrity were explained.

3.8 Quality Control and Assurance Laboratory

Students were introduced to internal and external quality control systems, calibration of instruments, validation of procedures, and documentation practices ensuring accuracy and reliability of results.

3.9 Biomedical Waste Management Section

Segregation, handling, treatment, and disposal of biomedical waste as per Biomedical Waste Management Rules, 2016 were demonstrated. Color-coded waste bins, autoclaving, and safe disposal practices were emphasized.

3.10 Record Keeping and Documentation

Maintenance of donor records, testing reports, inventory logs, and traceability systems were explained. The importance of legal documentation and digital record management was highlighted.

4. Outcome of the Visit:

Students gained comprehensive practical exposure to blood bank operations.
Improved understanding of hematological diagnostics and transfusion medicine.
Enhanced awareness about SOPs, biosafety, and infection control practices.
Better clinical correlation between theoretical knowledge and real-life applications.
Increased interest among students in laboratory-based diagnostic sciences and research.
Strengthened academic collaboration under the MOU framework.

5. Conclusion:

The academic visit to Vaibhavalakshmi Blood Centre, Kolhapur, under the MOU was highly informative and academically enriching. It successfully fulfilled its objective of providing practical exposure and enhancing the clinical competence of Second BAMS students.

The cooperation and guidance provided by the blood centre staff played a crucial role in making the visit successful. The visit significantly contributed to the overall academic development of students in the field of Rognidan and laboratory sciences.

6. Future Scope:

Organization of regular hands-on training sessions and workshops under the MOU.
Advanced training programs in hematology and diagnostic laboratory techniques.
Internship or observership opportunities for students in blood banks and diagnostic centres.
Collaborative research projects in transfusion medicine and integrative diagnostics.
Guest lectures and expert sessions by blood bank specialists.
Skill development programs focusing on laboratory management and quality assurance.

Prepared by:

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