



Detailed Infrastructure Plan for Nishtar Medical University

PURPOSE AND VISION

- To develop a world-class medical education and healthcare facility with modern infrastructure.
- To ensure sustainable, technologically advanced, and safe campus facilities for students, faculty, and patients.

GOALS

- Establish a leading-edge teaching and healthcare environment.
- Enhance student learning and faculty research capabilities.
- Promote health, sustainability, and digital integration in infrastructure.
- Ensure inclusivity, safety, and environmental responsibility.

SCOPE

This document outlines the comprehensive infrastructure development plan for Nishtar Medical University. It covers academic, medical, residential, digital, environmental, security, and recreational facilities to meet the needs of students, faculty, and patients in alignment with global medical education standards.

CORE PRINCIPLES

- Transparency: Open processes in planning, procurement, and implementation.
- Sustainability: Environmentally responsible development practices.
- Inclusiveness: Addressing the needs of all stakeholders.
- Accountability: Regular monitoring, evaluation, and feedback integration.
- Innovation: Incorporating advanced technologies and smart solutions.

RESPONSIBILITIES

- Infrastructure Review Committee (IRC): Planning, approvals, and review.
- Procurement Committee: Ensures transparency in tendering and contract awards.

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- Project Teams: Implement phase-wise construction and infrastructure deployment.
- Administration: Coordinates stakeholder input and manages operational integration.

EVALUATION PROCESS

- Monthly Progress Reports for internal tracking.
- Quarterly Independent Audits to review timelines, quality, and budget use.
- Annual Stakeholder Feedback Collection for inclusive improvements.
- Sustainability Metrics Review (energy, waste, water use, etc.).

INSTITUTIONAL RESPONSIBILITIES

- College Administration: Strategic oversight and interdepartmental coordination.
- Hospital Management: Integration of medical infrastructure with patient services.
- Academic Departments: Provide specifications and feedback for academic facilities.
- IT Department: Manages digital infrastructure and cybersecurity protocols.

REPORTING

All implementation phases are documented through monthly and quarterly reports. Reports are submitted to the College Principal, IRC, and relevant government bodies. Summary updates are shared with donors and stakeholders annually.

MONITORING AND COMPLIANCE

- Monitoring: Phase-based inspection teams ensure adherence to design, safety, and quality.
- Compliance: Ensures all construction, procurement, and operations meet local, national, and international regulations, including environmental and safety codes.

PROCEDURE

1. Planning & Approval: Infrastructure proposals will be evaluated and approved by the Infrastructure Review Committee (IRC) in consultation with administrative and academic departments.
2. Tendering & Procurement: Transparent tendering procedures will be adopted for construction, equipment, and service contracts.
3. Implementation: Execution will follow a phase-wise model starting from academic and hospital facilities, followed by auxiliary services.
4. Monitoring & Evaluation: Monthly progress reports and quarterly audits will be conducted.

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Feedback will be incorporated from stakeholders.

5. Sustainability Review: Annual reviews will assess energy usage, environmental impact, and recommend upgrades.

Date of Implementation

Initial implementation begins July 1, 2025, with Phase 1 (Academic and Hospital Facilities) projected to be completed by June 2026. Other phases will follow based on performance evaluations and funding availability

1. Academic Buildings and Facilities

- Lecture Halls: State-of-the-art lecture halls with smartboards, high-speed internet, and audio-visual support.
- Laboratories: Advanced medical and research labs with fully equipped anatomy, physiology, Pathology, and biochemistry sections.
- Digital Library: Centralized digital library with access to medical journals, research databases, and e-books.

2. Medical Facilities and Teaching Hospital

- Hospital Infrastructure: Revamping of all wards, ICU, OPD, surgery rooms, maternity ward, and emergency department (already done in most parts).
- Radiology & Diagnostic Center: Latest MRI, CT, X-ray, ultrasound, and lab testing equipment.
- Patient Management System: Integration of digital records, telemedicine, and patient tracking systems (HIMS).

3. IT and Digital Infrastructure

- Campus-wide Wi-Fi: Secure high-speed internet for students, faculty, and researchers.
- Smart Classrooms: Digital interactive boards, cloud-based learning management systems (LMS), and virtual learning tools.
- Cyber security Measures: Data encryption, firewalls, role-based access control for student and hospital records.

4. Student and Faculty Accommodation



- Hostels: Separate hostel blocks for male and female students, furnished with study halls, Recreational areas and dining facilities.

- Faculty Housing: On-campus residential units for professors and staff.

- Medical Assistance: 24/7 medical support and ambulance services for hostel residents.

5. Environmental and Sustainability Measures

- Green Campus: Plantation drives, solar energy integration, and rainwater harvesting systems.
 - Waste Management: Segregated waste collection, biomedical waste disposal units, and recycling programs.
- Energy Efficiency: LED lighting, sensor-based energy management, and water conservation measures.

6. Transportation and Parking Facilities

- Shuttle Services: College bus transport for students and faculty.
- Designated Parking Areas: Separate parking for staff, students, and emergency medical transport.
- Pedestrian-Friendly Pathways: Bicycle lanes and dedicated walking tracks within the campus.

7. Security and Safety Measures

- Surveillance Systems: 24/7 CCTV monitoring at all key locations.
- Security Personnel: Trained security staff for campus safety.
- Emergency Protocols: Fire safety measures, emergency exits, and disaster preparedness drills.

8. Recreational and Extracurricular Facilities

- Sports Complex: Indoor and outdoor sports facilities including gymnasium, football field, and swimming pool.
- Cultural Center: Auditorium for seminars, workshops, and student activities.
- Student Support Services: Counseling centers, mentorship programs, and career guidance facilities.
- Cafeteria

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