

**Nālandā**  
UNIVERSITY

# **NALANDA UNIVERSITY LIBRARY**



**Plans of the Floor-wise Plan and Requirements on AR, VR & AV Requirement – For reference  
and subject to Design Confirmation**

January 06, 2026



# GROUND FLOOR

## QUADRANT-4

### Design Overview:

- Entrance Help Desk (Arc shape for 2)
- Newspapers & Magazines with acoustic partition
- Reading & Seating area
- Digital Display LED Screen above Help Desk
- Library Model display (Left side)
- Temporary exhibition space (Left side)
- Self Drop Box (Entrance-Left)
- Permanent Exhibition (Right side) – “A live account of how we lost Old Nalanda”
- OPAC Kiosk
- Smart shelf (Left and Right side)
- New Arrivals (Left side)
- Coffee Vending Area



# ENTRANCE AND HELPDESK

## **Main Entrance and Help Desk**

The entrance features a curved help desk staffed by two employees to assist visitors with information and guidance.

## **Digital LED Display**

A large digital LED screen above the desk shows live floor maps, updates, and announcements enhancing visitor navigation.

## **AR, VR, AV etc**

Left Side –Portable AV System for Book Exhibition

Right Side hosts a permanent exhibition on Nalanda's historical loss with interactive storytelling.

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# READING AND EXHIBITION SPACES

## **Library Model Display**

The left side features a Library Model display narrating architectural and functional aspects visually.

## **Temporary Exhibition Space**

Adjacent temporary exhibition space hosts traveling and thematic displays for cultural exchange.

## **Reading and Seating Area**

Centrally located reading area offers comfortable seating with acoustic partitions for focused reading.

## **Permanent Historical Exhibition**

Right side hosts a permanent exhibition on Nalanda's historical loss with interactive storytelling.

## **TECHNOLOGY AND CONVENIENCE FEATURES**

### **OPAC Kiosk Access– only for ref which will be in RFID vendor scope**

The OPAC kiosk offers easy resource search and location, enhancing visitor convenience in Quadrant 4.

### **Smart Shelves with RFID– only for reference which will be under RFID vendor**

Smart shelves use RFID technology for efficient check-in and check-out, innovative library storage solutions.

### **New Arrivals & Digital Displays**

The New Arrivals section highlights latest books with digital display panels for automated updates.

### **Visitor Comfort Amenities**

A coffee vending area and Self Drop Box add convenience and comfort for visitors and library users.



## AV REQUIREMENT

- Left side of the main entrance: Provision of a portable AV system for exhibitions.
- Audio and PA system: An all-around audio and public address system, which can be made functional as and when required.
- Digital display system: Wall-sized digital LED display screens with seamless integration.
- Entrance wall display: Along the right side of the entrance wall, from start to end, a large LED display screen to showcase the “Nalanda Burning Script”, depicting its history. The script/content shall be approved by the University.



## PART 1: ENTRANCE EXPERIENCE

# Entrance Experience: Left Side of Main Entrance

### Portable AV System

Flexible exhibition infrastructure supporting diverse cultural presentations and academic gatherings

### Comprehensive Audio Infrastructure

All-around audio and public address system, functional as and when required for ceremonies and daily operations

### Architectural LED Integration

Wall-sized digital display screens with seamless architectural integration, creating a composed entrance environment

The entrance establishes a sophisticated threshold experience, supporting both daily visitors and formal academic events with dignity and technological grace.





# Ground Floor – Quadrant 4 Video wall opwall



Video wall display





# Experience Framework

A layered visitor experience designed around Nalanda's intellectual legacy, creating a coherent academic and cultural journey that honours the university's profound historical significance.

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## Entrance Establishes Context

Creates emotional gravity and historical awareness upon arrival

02

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## Immersive Studio Enables Exploration

Facilitates deeper understanding through spatial storytelling

03

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## Integrated Journey

Forms a seamless narrative from first encounter to scholarly engagement





# World-Class Technology & Technical Specifications

## Entrance Systems

- Seamless modular indoor LED walls with fine pixel pitch optimised for close viewing
- High brightness, wide viewing angles, uniform colour calibration
- Zoned PA and audio system with DSP tuning for clarity
- Central media controller with scheduling and system health monitoring
- UPS and power conditioning for uninterrupted operation

## AR Studio Systems

- Spatial AR walkthroughs with motion tracking and anchored scenes
- Projection-based holography and volumetric visual systems
- High-performance rendering servers and content storage
- Immersive audio system tuned to room acoustics
- Central control room with fail-safe and fallback modes









# Entrance Wall Display: "Nalanda Burning Script"

## Narrative Presence

Along the right side of the entrance wall, from start to end, a large LED display dedicated to showcasing the "Nalanda Burning Script" a reflective visual narrative depicting Nalanda's profound history. The installation focuses on knowledge, loss, and enduring legacy, designed for both brief viewing and complete narrative loops, inviting contemplation at the threshold of the university.



### Knowledge

Scholarly heritage



### Loss

Historical moment



### Legacy

Enduring wisdom



## PART 2: IMMERSIVE AR STUDIO

### Immersive AR Studio

**1000 sq. ft. Dedicated Experience Space**

A dedicated immersive studio reconstructing Nalanda's intellectual era through sophisticated spatial storytelling. Visitors walk through 2D–3D reconstructions, holographic scenes, and guided AR experiences within an environment of controlled lighting, acoustics, and architectural intention.



#### **Spatial Reconstruction**

Multi-dimensional environments  
recreating historical scholarly spaces

#### **Guided AR Experiences**

Curated journeys through Nalanda's  
intellectual landscape

#### **Designed for Scholars**

Academic delegations, researchers, and  
engaged visitors





# Immersive Experience Themes

The experience unfolds across three interconnected chapters, each revealing dimensions of Nalanda's profound legacy.

## The Great Library of Nalanda

Volumetric reconstruction of nine million manuscripts with holographic shelves and gesture-based interaction. Scholar avatars explain writing, preservation, and debate. AR exploration reveals global knowledge exchange networks.

## The Library Fire - Respectful & Cinematic

Storytelling focused on cultural loss, not destruction. Gradual transition from scholarly calm to tension through subtle smoke, embers, and ambient sound. Narration explains what the world lost in this historical moment.

## Revival & Legacy

Survival of knowledge through monks and scholars. Modern Nalanda as continuation of legacy. Interactive feature: "What Nalanda Gave the World"—AR projections of surviving texts and artefacts across civilisations.



# DIGITAL TIMELINE

A "timeline tunnel" generally refers to a visual or conceptual representation that allows someone to explore a chronological sequence of developments as if traveling through a tunnel.

It provides a clear, linear progression that helps people understand the evolution over time.







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# Target Impact

## Flagship Cultural Attraction

A living tribute to Nalanda's global legacy, establishing the university as a centre of heritage innovation

## Major Draw for Engagement

Attracting scholars, tourists, and international delegations to experience Nalanda's intellectual heritage

## Future-Ready Experience

An iconic, technologically sophisticated immersive experience embedded within campus life

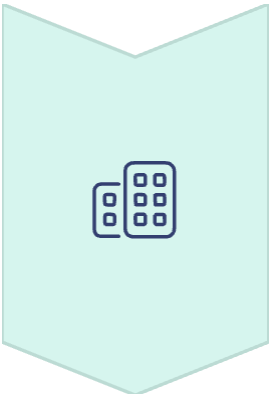
This two-part experience positions Nalanda University at the forefront of cultural heritage interpretation, creating lasting impact for academic and public audiences alike.







# Delivery & Collaboration Model



## OEMs

Delivered through collaboration with established large-scale manufacturers and public sector undertakings



## Specialised Production

Supported by experienced AR/VR and cinematic production partners with heritage project expertise



## Institutional Ownership

Designed for scalability, longevity, and seamless integration into university operations

A world-class immersive experience honouring Nalanda's intellectual legacy through architectural grace and technological sophistication.



# GROUND FLOOR

## QUADRANT-3

### Design Overview:

- Collection of 17 Partner Countries (glass-front display bays with bilingual labels)
- Diplomats Corner
- Librarian's Office
- Deputy Librarian
- Personal Assistant
- Seating Area
- Self-Check-in & Checkout Kiosk (Corridor)
- OPAC Kiosk





## AV REQUIREMENT

- Elegant 4K/8K LED display panels integrated into architectural interiors
- High-quality conference AV system with microphones (tabletop & wireless)
- Video conferencing system compatible with international diplomatic protocols.
- Directional audio systems ensuring clarity without disturbance.
- Secure content control and access management
- Interactive touchscreen kiosks with multilingual interfaces.
- High-resolution document visualizers for manuscripts and texts.
- Headphone-based audio stations for language-specific listening



Nalanda University Library

# Audio Visual Requirements Floor-wise & Quadrant-wise



# Ground Floor

- Q4: Entrance- Help Desk for 2 in Arc shape, Newspaper & Magazine for Visitors & Guests (Provide acoustic partitioning to contain noise), Reading and Seating area, Digital Display LED Screen (above the Help desk), showing Floor maps and Live library updates, Library Model display (Left side), Reading area, Temporary exhibition space on left side(e.g- hosting travelling exhibitions), Right side Permanent Exhibition (A live account of burning Nalanda-what we lost), Coffee Vending Area
- Q3: Collection of 17 Partner Countries (enclosed in glass-front display bays with bilingual labels), Diplomats Corner, Translation studies section, Librarian's Office, Deputy Librarian, Personal Assistant, Seating area, Online Public Access Catalogue (OPAC) Kiosk machine, Install the RFID enabled Modular Counters, The RFID Corridor system should integrate with Central Visitor logs and analytics, Smart shelf (Right side), New Arrivals (Right side)
- Q2: Stage for Book Launch, Permanent exhibition, Book Reading, Comfortable Seating area, Newspapers / Magazines, New Arrivals (Right side), Smart shelf (Right side), Self-Check-out (Kiosk), Children's section
- Q1: Research Room, Book Museum, Reading and Seating area, Faculty Reading area, Librarian's Office, Deputy Librarian, Personal Assistant



# 1st Floor

## (Mezanine floor)

- Q4: Government-related Data, Gazetteer, Census, Survey Reports, etc. Thesis / dissertations, Maps, Private collections, Comfortable Seating area, Book Garden, Provision for Library staff, Online Public Access Catalogue (OPAC) Kiosk machine, Reprography services
- Q3: Global Dissemination Center, Diplomats Corner, Translation studies section
- Q2: Reading zone: Provide Individual charging stations, wifi boosters and device lockers, add standing desks or high reading counters for posture variations, Library staff, Work station, Competitive examination section, Career development section, Special Book Corner, Book Museum.
- Q1: Research Scholars - Carrels, Seating area for Guests, Display of Staff publications, Dining room, Assistant Librarian (s) and Library Staff



## 2nd Floor

- Q4: Conference Rom / Lecture hall (Sound proof), Group discussion Room (Sound proof), Audio & Video Section, Recording studio (Green room): Lighting effect and Sound proof, Library Staff
- Q3: Digital Library, Research and Reading area
- Q2: Book Shelves (stacking area), Reading area, Online Public Access Catalogue (OPAC) Kiosk machine, Library Staff, Coffee table book corner
- Q1: Book Shelves (stacking area), Reading area



# 3rd Floor

- Q4: Book Shelves (stacking area), Reading area
- Q3: Book Shelves (stacking area), Reading area, Online Public Access Catalogue (OPAC) Kiosk machine, Library staff
- Q2: Book Shelves (stacking area), Reading area
- Q1: Book Shelves (stacking area), Reading area, Online Public Access Catalogue (OPAC) Kiosk machine, Library staff



## 4th Floor

- Q4: Manuscripts & Rare book collections, Online Public Access Catalogue (OPAC) Kiosk machine, Library staff
- Q3: Storage of Original manuscripts, Microfilms and Digital collections
- Q2: Maintenance section, Conservation section, Preservation, Digitization of CARC materials and Archival System
- Q1: CARC Dissemination room



# 5th Floor

- Q4: CARC Store room
- Q3: Library staff
- Q2: Research Reading on Manuscripts, Setting up of Laboratory, Online Public Access Catalogue (OPAC) Kiosk machine
- Q1: Indian Knowledge System (IKS), Nalanda Book section