

MANIPAL ACADEMY OF HIGHER EDUCATION
FIFTH SEMESTER B. ARCH. DEGREE EXAMINATION – JAN/FEB 2019
SUBJECT: ARC-14-301: ARCHITECTURAL DESIGN & DETAILING - V
(2014 SCHEME)

Wednesday, January 30; Thursday, January 31 and Friday, February 01, 2019
(Wednesday 10:00 – 16:00; Thursday (10:00 – 13:00 & 14:00 – 17:00); Friday (10:00 – 13:00 & 14:00 – 17:00))

Time: 18 Hrs. (in three days)

Max. Marks: 50

- ✗ The first setting of 6 hours is continuous at the end of which the candidate shall submit the drawings as indicated. This submission will not be returned to the candidates, so they are advised to keep a copy of the first day's submission.
- ✗ No sheets will be allowed to be taken out of or into the examination hall.
- ✗ Non-messy snacks are permitted to be taken by students during examination.
- ✗ Answers shall be drawn and written on drawing sheets only.
- ✗ The medium of presentation – pencil, crayon, ink, etc. is left to the choice of the candidate.
- ✗ Assume suitable data wherever not given and state the same with justification.

DESIGN OF DIGITAL ART EXPERIENCE THEATER IN ELECTRONIC CITY,
BENGALURU

Digital technology has given rise to new media forms. Interactive theatre is such a new type of media that introduces new digital interaction methods into theatres. In a typical experience of interactive theatres, people enter cyberspace and enjoy the development of a story in a non-linear manner by interacting with the characters in the story. Therefore, in contrast to conventional theatre which presents predetermined scenes and story settings unilaterally, interactive theatre makes it possible for the viewer to actually take part in the plays and enjoy a first person experience.

SITE DETAILS:

The site is approximately 2 acre

Height is restricted to 30 metres

F.A.R = 1.5

Ground Coverage = 45%

PROJECT REQUIREMENTS:

Built up area (8250 sq. metre) –

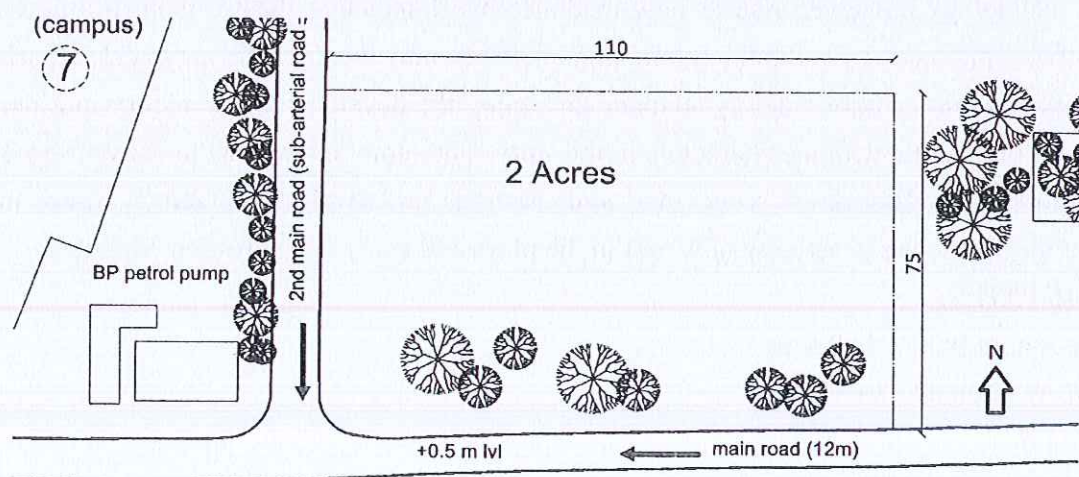
Area can be flexible up to 10-15%

- Security check/baggage counter for 100 users
- Ticket / booking counter
- Entrance lobby with help/information desk
- Waiting Lounge
- Digital art Exhibition hall - 250 visitors

- Digital art Exhibition hall - 100 visitors
- Virtual reality center – 50 people
- Research lab for 25 people
- Storage for props and equipment
- Cafeteria with kitchen, store, indoor and out-door seating– for 100 people
- OAT for day and night performance – 100 people
- 3D/4D auditorium /theater – 2 nos. for 50 people each
- Digital experience /interactive spaces – 50 people
- Admiration block – 25 people
- Live performance space/stage with digitally equipped back stage – Hall capacity 100 people
- Space for hands on workshop – 2nos – 25 people each
- Consider adequate areas of circulation and services such as Fire safety, water and sanitation, electrical, mechanical, HVAC (if required), as per standards for a theater.
- Additional Design Requirements
- Landscaped forefront
- Gate with security cabin for stipulating entry and exit
- Public Toilets wherever necessary for staff and visitors. (Area: As per requirements)
- Public spaces

Note: Suitably provide for all other requirements such as, parking spaces etc. Assume all other necessary data and state the same.

Site Plan (NTS)



Note:

1. Existing vegetation should be part of design
2. Design should be barrier free.
3. Design shall be equipped to fulfill the light and ventilation requirements of the spaces with more emphasis on natural features.
4. Block model using suitable material such as ivory sheets/white foam sheet etc. shall be made at any of the stages 3, 4, or 5.
5. Assume suitable data wherever necessary.
6. Use of sketches to explain design schemes with reasons.

Submission Requirements:

A. FIRST DAY SUBMISSION

Stage 1: Design Programme:

- Users and activities
- Space and area requirement (facilitation, ambience, etc.)
- Design issues
- Design guidelines

(5 marks)

Stage 2: Site Analysis & Zoning:

- Context (accessibility, site features, site surroundings, etc.)
- Climate
- Building rules and regulations (if applicable)
- Zoning showing major uses and circulation along with reasoning for the same
- Site structure plan
- Bubble diagrams on site, Horizontal and vertical zoning (if applicable)

(10 marks)

Stage 3: Concept Development:

- Statement / sketches of concept (related to function, form, structural systems, technologies, materials, environment, aesthetics, philosophy, theme, details, character, heritage, culture, local influences, etc.)
- Sketches showing initial design ideas / experience levels based on the concept
- On site volume/ form development with schematic sections based on function and user experiences, skyline and relationship of built – unbuilt spaces.

(5 marks)

B. FINAL SUBMISSION (DETAILED DESIGN)

Stage 4: Design Development:

- Conceptual design(s)
- Finalization of design - Complete with reasons/ logics for design decisions
- Refinement of final design

(5 marks)

Stage 5: Design Scheme:

- Master plan with all details (access, road network, circulations, open and built spaces, parking and other important features)- 1: 200
- Floor plans with furniture layout- 1: 100
- Prominent elevation - 1: 100
- Detailed major section - 1: 100
- Views

(5+5+2+4+4 = 20 marks)

- C. BLOCK MODEL** using suitable material such as white ivory card sheets/ white foam sheet etc. shall be made at any of the stages 3, 4, or 5.

(5 marks)



