

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**FIFTH SEMESTER B. ARCH. DEGREE EXAMINATION – JAN/FEB 2018**  
**SUBJECT: ARC-14-301 : ARCHITECTURAL DESIGN & DETAILING - V**  
**(2014 SCHEME)**

Monday, January 22; Tuesday, January 23 and Wednesday, January 24, 2018  
(Monday 10:00 – 16:00; Tuesday (10:00 – 13:00 & 14:00 – 17:00); Wednesday (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 STUDENT ACTIVITY CENTRE FOR INDIAN INSTITUTE OF  
MANAGEMENT, BENGALURU**

Indian Institute of Management, Bengaluru (IIM-B) has announced an architecture design competition for the design of their new student activity centre inside their campus, which is going to accommodate informal spaces (indoor and outdoor) for student's interaction along with audio visual theatre and a library for non-academic books.

**SITE DETAILS:**

The site is approximately 1.2 acre (69m X 69m = 4761 sq.m.)

F.A.R = 1.5

Ground Coverage = 50% max.

Set back of 6m. on all sides.

**PROJECT REQUIREMENTS:**

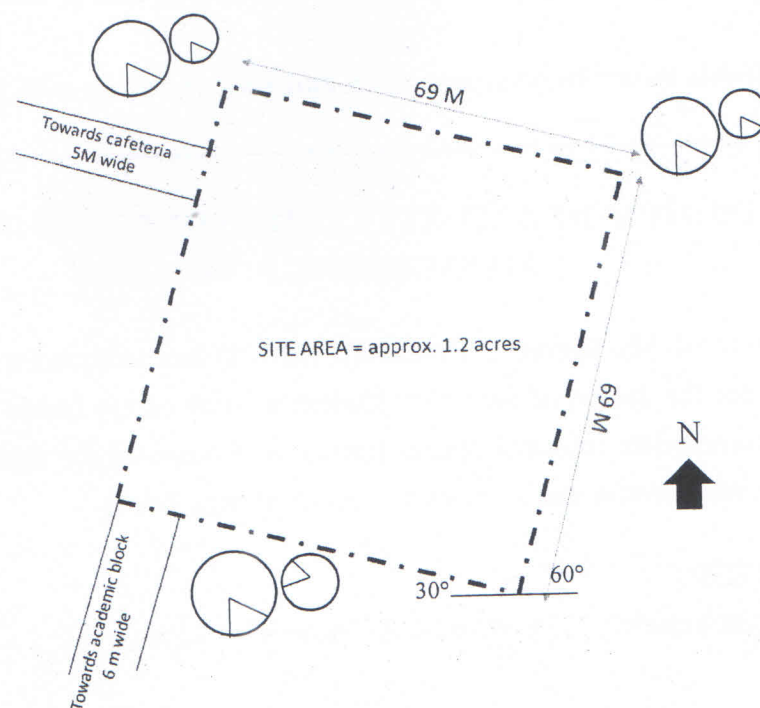
**Built up area** (8500 sq. metre) – 125 user

Area can be flexible up to 10-15%

1. Administrative office counter for 4 users (one manager + three staff)
2. Entrance lobby with help/information desk
3. Multipurpose hall (2 nos.) for 500 users – 1000 sq.m. for each – 2000 sq.m.
4. Shopping arcade for 10 store spaces – 50 sq.m. for one shop – 500 sq.m.
5. Conference Rooms (2 nos.) for 20 persons – 50 sq.m. for one Room – 100 sq.m.

6. Meeting Room (2 nos.) for 6-8 persons – 25 sq.m. for one room – 50 sq.m.
7. Audio Visual Screening Theatre for 60 users – 300 sq.m.
8. Cultural Rehearsal Room – 120 sq.m.
9. Indoor Gaming Spaces (Carrom Boards, Chess, Table Tennis etc.) – 400 sq.m.
10. Internet Browsing Centre for 20 PCs. – 100 sq.m.
11. Amphitheatre for 500 users
12. Student Interaction Spaces
13. Library cum study centre – 500 sq.m.
14. Any other relevant space that might be required or can be proposed for future.
15. Consider adequate areas of circulation and services such as Fire safety, water and sanitation, electrical, mechanical, HVAC (if required), as per standards.

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



Site Plan (Not in scale)

**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 thermocol/ivory sheets/white foam sheet 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:**

### **1. 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)

### **2. 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)

**BLOCK MODEL** using thermocol/ white ivory card sheets/ white foam sheet shall be made at any of the stages 3, 4, or 5.

(5 marks)

