

Architectural Design-IV(26151)Lesson-07.2

SAFETY & SECURITY OF SCHOOL DESIGN

Safety & Security Considerations in School Design

A well-designed school must prioritize **safety and security** to ensure a **secure learning environment** for students, teachers, and staff. Below are the key aspects:

1. Physical Security Measures

a) Site & Perimeter Security

- **Fencing & Boundaries:** Secure walls or fences (minimum 2.5m high) to prevent unauthorized access.
- **Controlled Entry & Exit:** Limited access points with security checkpoints.
- **Surveillance:** CCTV cameras at key locations (entrances, hallways, playgrounds).
- **Signage:** Clearly marked emergency exits, assembly points, and restricted areas.

b) Building Design & Safety

- **Earthquake-Resistant Structures:** Compliance with building codes for seismic zones.
 - **Fire-Resistant Materials:** Use of fire-retardant materials in construction.
 - **Anti-Slip Flooring:** To prevent falls in wet areas like corridors and bathrooms.
 - **Secure Windows & Doors:** Shatterproof glass and lockable classroom doors.
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2. Emergency Preparedness

a) Fire Safety

- **Fire Extinguishers & Hydrants:** Installed at regular intervals.
- **Smoke Detectors & Alarms:** Automatic fire alarm systems in classrooms and corridors.
- **Fire Escape Routes:** Clearly marked and unobstructed evacuation pathways.

b) Disaster Management

- **Emergency Evacuation Plan:** Displayed in every classroom and common area.
 - **Drills & Training:** Regular fire and earthquake drills for students and staff.
 - **First Aid Facilities:** Fully stocked first aid kits in multiple locations.
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3. Health & Hygiene Safety

- **Proper Ventilation & Lighting:** Natural and artificial lighting to reduce eye strain.
 - **Safe Drinking Water:** Water filtration and sanitation systems.
 - **Hygienic Washrooms:** Separate toilets for boys and girls with proper maintenance.
 - **Medical Room/Nurse Facility:** Dedicated space for minor medical emergencies.
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4. Cyber & Digital Security

- **Secure Internet Access:** Restricted websites to prevent cyber threats.
 - **CCTV Data Protection:** Secure storage and access to surveillance footage.
 - **Student Data Privacy:** Protection of student records and personal information.
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5. Psychological & Behavioral Safety

- **Anti-Bullying Policies:** Designated counselors and anonymous reporting systems.
- **Safe Social Spaces:** Student-friendly gathering areas with adult supervision.
- **Inclusive Design:** Spaces for students with disabilities (ramps, elevators, adapted furniture).