# Practical No.13: Prepare report with labelled sketches of inspected staircase components during site visit.

#### I. Practical Significance

The buildings are constructed with multiple floors nowadays. The buildings require different means for vertical communication. Vertical communication refers to the movement of persons and goods vertically using staircase, ramps, lift, etc. A stair is a combination of steps that leads from one floor to the other. The overall area that includes the steps, hand rail, landing, etc. is known as staircase. The staircases are provided in different shapes. The shape of the staircases is selected based on the availability of the space and the aesthetics of the building.

### H. Industry/Employer Expected outcomes (POs)

This practical is expected to develop the following skills for the Industry identified.

- 1. A student should be able to know various technical terms associated with stairs.
- 2. Classify stair on the basis of shapes and material used.
- 3. Draw suitable geometric design.

#### III. Course Level Learning Outcomes

Design the relevant means of communication for the given building structure.

#### IV. Laboratory learning outcome(s)

Prepare a site visit report with reference to Identify various components of stair case.

### V. Relevant Affective Domain Relevant

Follow safety practices and precautions.

Maintain tools and equipment.

### VI. Relevant Theoretical Background

The technical terms associated with the design and construction of stair are

- Step: It flat-topped unit used moving from one level to another.
- Tread: is the horizontal portion of step, which the foot placed while ascending or descending.
- Rise: is vertical distance between the successive tread faces, that is, it is the vertical
  distance covered in a step.
- Riser: is vertical portion of the providing support to the tread.
- Going: It is horizontal distance between two successive riser faces
- Flight: Its series of without any platform on landing or break in their direction
- Landing: This platform provided between two flights of stair. It may extend to full width
  or only to half width staircase. Former known as half-spaced landing, while the latter
  known as quarter-spaced landing.

## VIII. Resources required

Sr. No Particulars	Specification	Quantity	Remark
1. Models of Stairense	Model showing all component parts of staircase.	0ZNo	O Section (Control of the Control of

## IX. Precautions to be followed

- 1. Type of structure.
- 2. Type of Staircase
- 3. Material and its proportion used.
- 4. Various parts of stair case observed during visit.
- 5. Use safety measures on site.
- 6. Listen and follow the instruction given by site in charge.
- Maintain discipline during Visit.

Procedure:	Ma M	N
Field Visit R	port 2025.	
Date of Visit-	25 March 2025.	
Site Address-	Taroda Naka Nanda	ed·
Name of Proje	residential build	ding.
Name of Cont	ractor & Site Engineer—Rathod:	M.S.
wame of Con	actor & Site Engineer	a : C
	ct-Completed/ongoingOngOing	
Observation	Actual Procedure followed – (Attached	l Photograph)
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Building	Material and Construction (312338)	territoria del como de la como de	10
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XII.	Result		
XIII.		20.00	communication
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		Construction	on.
	of all types of		
XIII.	Interpretation of results	cS)	-5
J	the technical t	erms associ	ated with
		W 1/ P	
	the design and	Construction	311.
XIV.	Conclusions and Recommendations		
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	of one right ar	d the su	111111111111111111111111111111111111111
	right immedic	1+1V.	::0
			13
XV.	Practical Related Questions		
	Define vertical circulation.		
	Enlist the various parts of staircase.	aton and Navial post	
	State the importance of handrail, balu	ster, and newer post	<b>.</b> 0.
	State the Requirement of good stair. Enlist the type of stairs and situations	where they used.	
	Ennst the type of states and states		

9·15>?
Ans:- Verticle circulartion is the way people move beth level of a building such as
move beth level of a building such as
by using stories ramps elevaters or
escalators.
Q. 2 >>?
Anss- the main parts of staricose include
trond riser stringer newel nost balster
tread riser stringer newel post bolster handrail landing Balastrade gooseneck.
$99.35 \longrightarrow 29$
Anss- Handrails, bulusters and newel post
are all important for safety when using
stairs
17 Hand rails-
prevent falls and provide support when
prevent falls and provide support when asending or desending stairs:
21) RALIA SERVICE
streingth handrails, keep then study and
streingth handrails, keep then study and prevent people from falling through the railing
3) NPWP1 001575 =
support the handrailing of a staircase.
g·4 —> ?
Anss- Agood Staircuse should be safe comferta
and function! it should be designed.
Ansb- Agood Staircuse should be safe Comferta and function! it should be designed.  to prevent accidents and falls.  References/Suggestions for further Reading
References/Suggestions for further reasons

Sr. No	Link	Discription
V	https://www.youtube.com/watch?v=XsFeVuVQE-E	staircase components
2	https://youtu.be/ATGEhLFBtk4?si=WU792UXhW00920-X	staircase components
3	https://youtu.be/fC12ziLBok8?si=BRAmjcdcb766kD8j	staircase components

XVI.