

# MASS PHYSICS

PRACTICAL LABORATORY MANUAL

## AIM:

To find focal length of a concave mirror using u and v graph.

## APPARATUS:

An optical bench, concave mirror, mirror holder, 2 optical needle, knitting needle, half meter scale.

## THEORY/WORKING FORMULA:

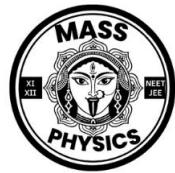
$$\text{Mirror formula} \Rightarrow \frac{1}{f} = \frac{1}{v} + \frac{1}{u}$$

## OBSERVATION:

ROUGH FOCAL LENGTH OF CONCAVE MIRROR: \_\_\_\_\_

Observation Table:

S. No.	Position of: (cm)			$u\text{ (cm)}$	$v\text{ (cm)}$	$I/v\text{ (cm}^{-1}\text{)}$	$I/u\text{ (cm}^{-1}\text{)}$
	Object needle	Lens	Image needle				
1							
2							
3							
4							
5							
6							



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## Calculations for focal length {table}

S.NO.	-u	v	$f=\frac{uv}{u+v}$
1.			
2.			
3.			
4.			
5.			
6.			

