

SOCIETY OF ST. FRANCIS XAVIER, PILAR'S  
**FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING**  
(Approved by AICTE & Affiliated to University of Mumbai)

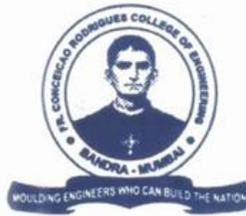
Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050.

Phone : (022) 6711 4000, 6711 4101, 6711 4104

Website : [www.frcrce.ac.in](http://www.frcrce.ac.in) • Email : [crce@fragnel.edu.in](mailto:crce@fragnel.edu.in)

**Department of Mechanical Engineering**  
**Class: FE (Electronics and Computer Science)**  
**(Academic Year: 2023-2024)**

<b>Course Code: FEL103</b>	
<b>Course Name: Engineering Mechanics (Lab)</b>	
<b>Course Teacher: Aseem Nevrekar</b>	
<b>Course Outcomes (CO): <i>At the End of the course students will be able to</i></b>	
FEL103.1	Verify equations of equilibrium of coplanar force system
FEL103.2	Verify law of moments.
FEL103.3	Determine the centroid of plane lamina.
FEL103.4	Evaluate co-efficient of friction between the different surfaces in contact.
FEL103.5	Demonstrate the types of collision/impact and determine corresponding coefficient of restitution.
FEL103.6	Differentiate the kinematics and kinetics of a particle.



SOCIETY OF ST. FRANCIS XAVIER, PILAR'S  
**FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING**

(Approved by AICTE & Affiliated to University of Mumbai)

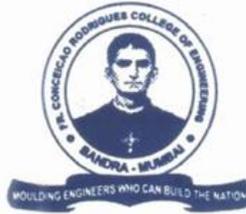
Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050.

Phone : (022) 6711 4000, 6711 4101, 6711 4104

Website : www.frcce.ac.in • Email : crce@fragnel.edu.in

## Lab Plan

Sr. No	EXPERIMENT DETAILS	CO	Proposed Week	Actual Week	Remarks
1	Simple Beam Reaction	FEL103.1	11/09 – 16/09		
	Ganapati Holidays		19/09 – 24/09		
2	Bell Crank Lever	FEL103.1	25/09 – 30/09		
3	Verification of Lami's Theorem	FEL103.1	02/10 – 07/10		
	Unit Test I		09/10 – 14/10		
4	Analysis of Concurrent Coplanar Forces	FEL103.2	16/10 – 21/10		
5	Friction Plane	FEL103.4	23/10 – 18/10		
6	Collision of Elastic Bodies	FEL103.5, FEL103.6	30/10 – 04/11		
	Mini Project -Debate on Friction is Good or Bad	FEL103.4	06/11- 11/11		



SOCIETY OF ST. FRANCIS XAVIER, PILAR'S  
**FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING**

(Approved by AICTE & Affiliated to University of Mumbai)

**Fr. Agnel Ashram, Bandstand, Bandra (W), Mumbai - 400 050.**

Phone : (022) 6711 4000, 6711 4101, 6711 4104

Website : [www.frcrce.ac.in](http://www.frcrce.ac.in) • Email : [crce@fragnel.edu.in](mailto:crce@fragnel.edu.in)

Mini Projects- Motion under Gravity, Controlled Motion Under Gravity, To measure Height of Room/Building using Fundamental Equations of Motion/Work Energy/Energy Conservation Principle	FEL103.6	13/11 – 18/11		
Evaluation/Presentation of Mini Projects		20/11 – 25/11		

**Course Instructor: Aseem Nevrekar**