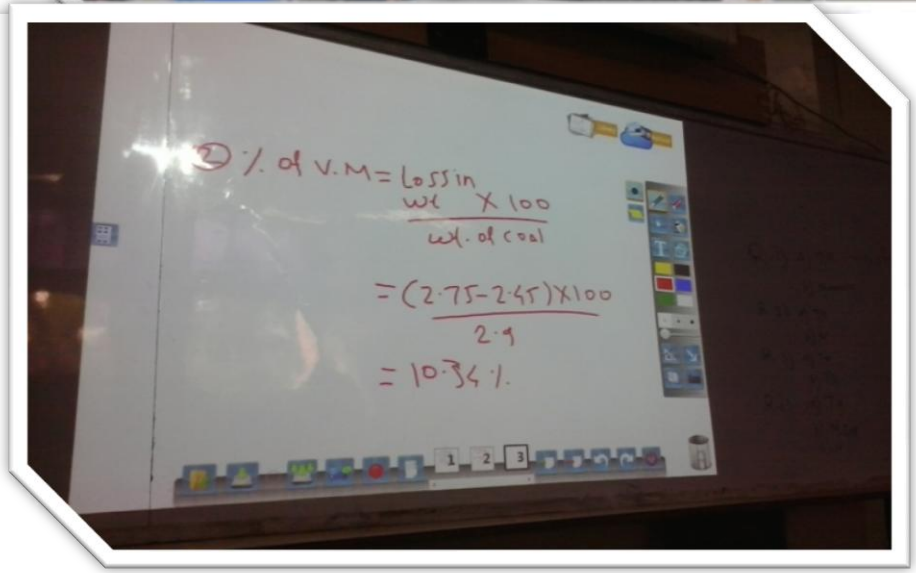
Learning Innovation
Use of Smart Board & LCD Projector



Smart boards are interactive boards which help teachers to make digitalization of board writing so that students can revise it again at home.
It also have voice recording facility.

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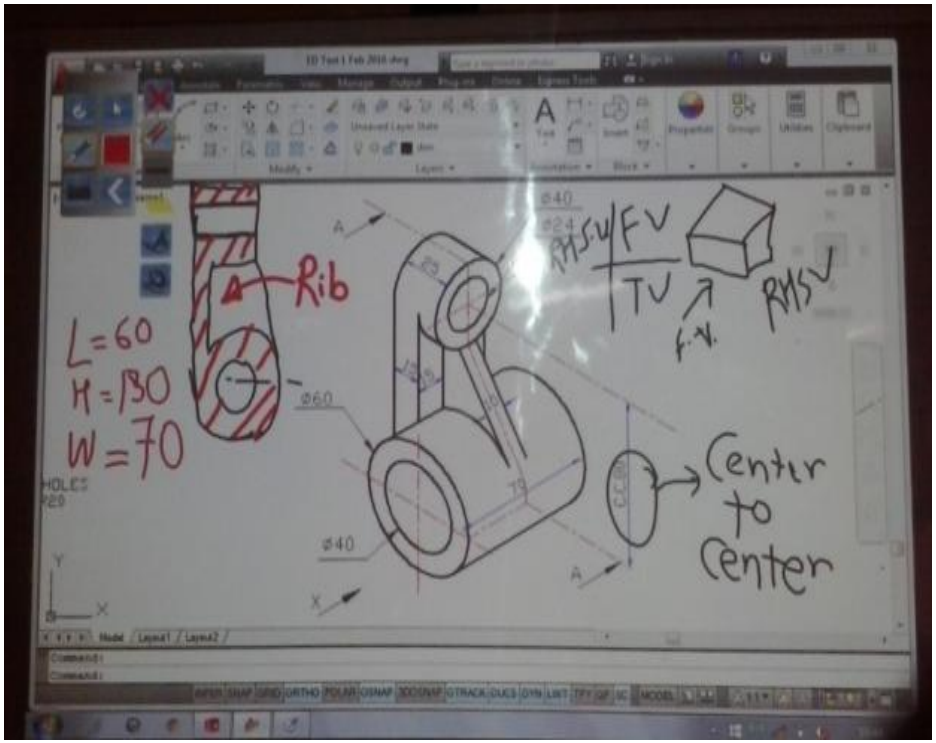

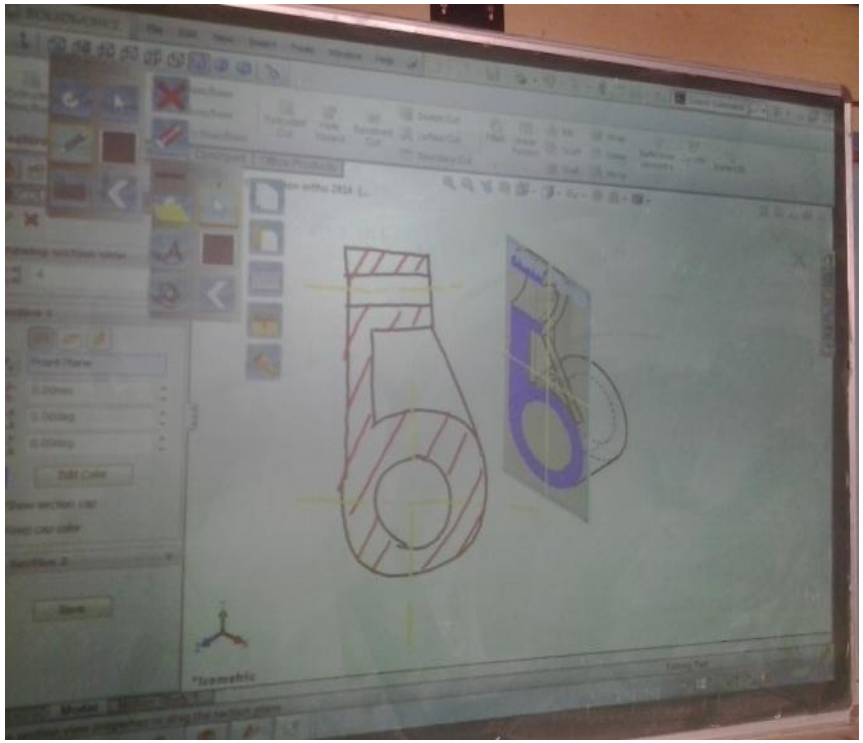

Smart boards makes students to understand difficult concepts in easy manner

Learning Innovation
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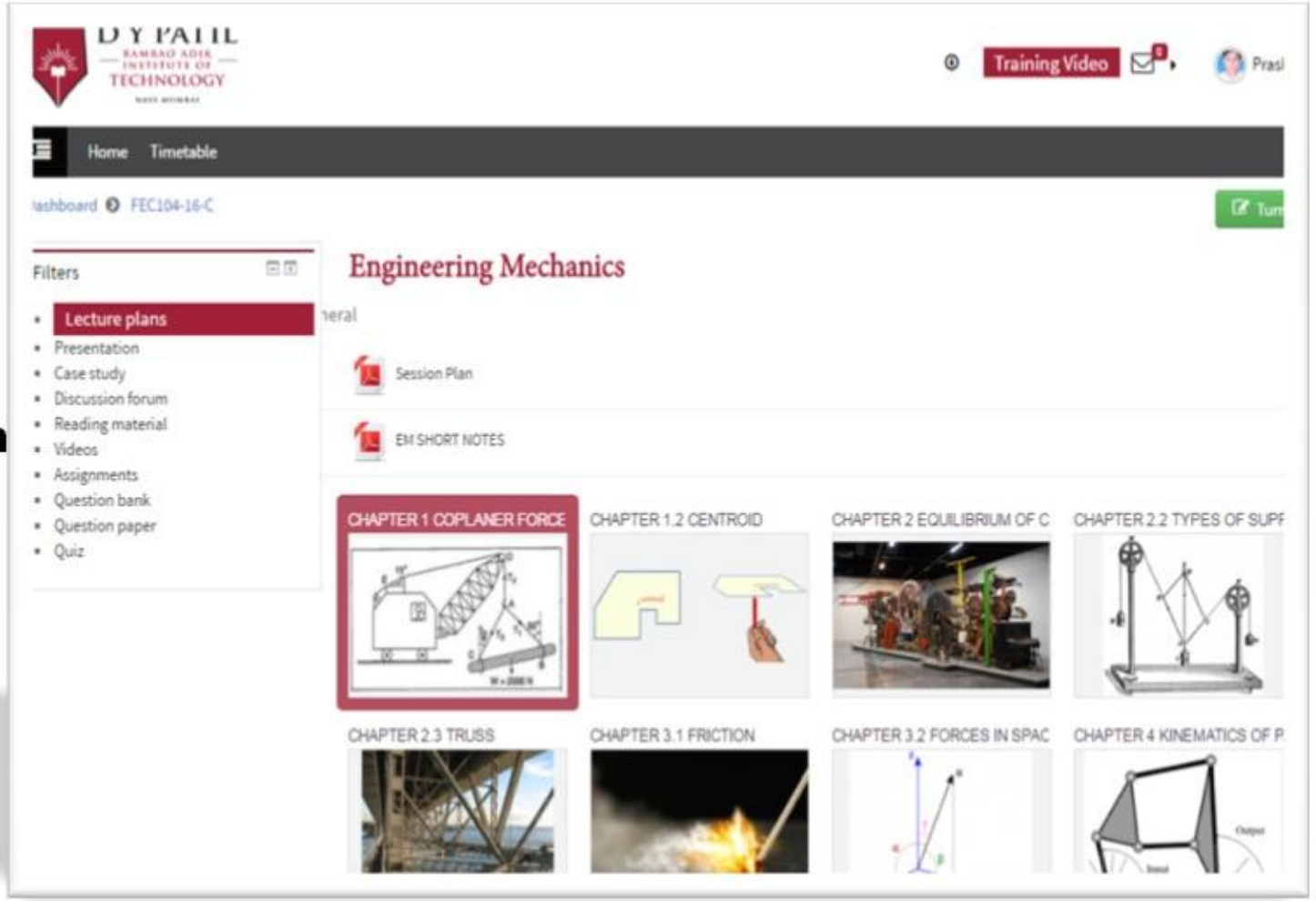
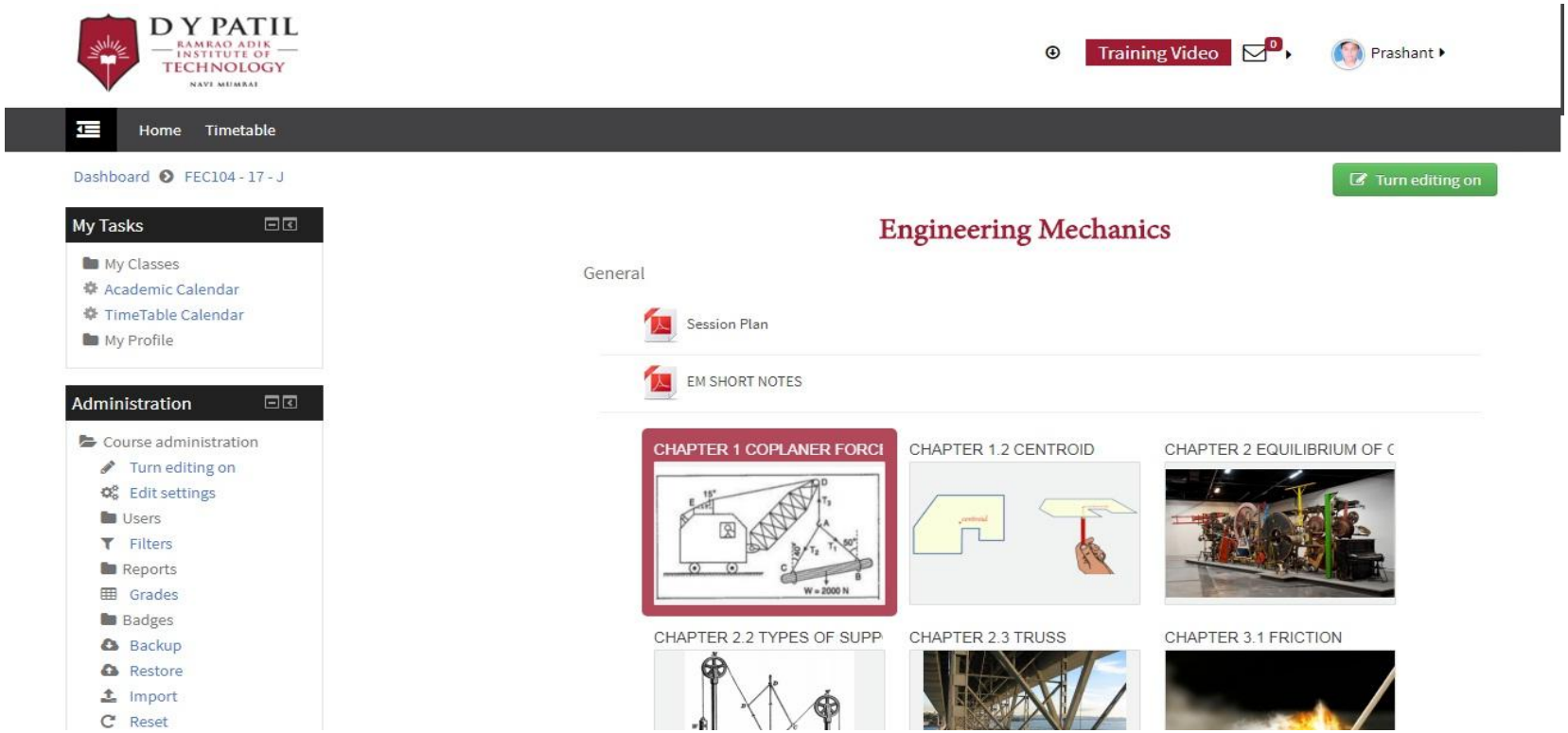
Video lectures of expert faculty for premier institutes such as IITs, are arranged to gain additional knowledge about certain topics.

Learning Innovation:
Learning Management System (**LMS**) **Interface**

- **Online PPTs**
- **Lecture Notes**
- **Video Links**
- **Assignments**
- **Tutorials**
- **Question Banks**
- **University exam papers**
- **Quiz.**
- **Lab Manuals**



Learning Innovation:
Learning Management System (LMS) Interface



LMS is online system which provides online notes to students

Learning Innovation:
Learning Management System (LMS) Interface

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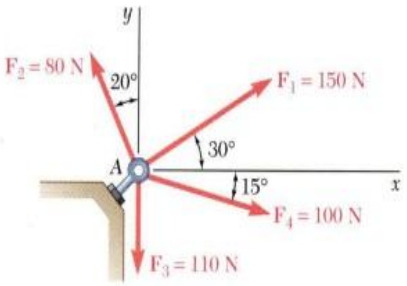
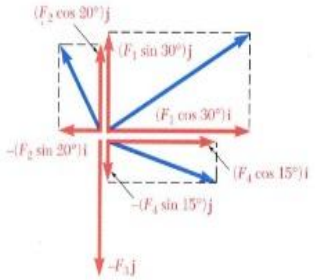
PROBLEM - (BASED ON CONCURRENT)

Four forces act on bolt *A* as shown. Determine the resultant of the force on the bolt. Calculate the magnitude and direction of the resultant.





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Calculate the magnitude and direction

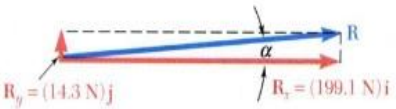
$$R = \sqrt{199.1^2 + 14.3^2}$$

$$R = 199.6\text{N}$$

$$\tan\alpha = \frac{14.3\text{N}}{199.1\text{N}}$$

$$\alpha = 4.1°$$

force	mag	x − comp	y − comp
$\vec{F}_1$	150	+129.9	+75.0
$\vec{F}_2$	80	−27.4	+75.2
$\vec{F}_3$	110	0	−110.0
$\vec{F}_4$	100	+96.6	−25.9
		$R_x = +199.1$	$R_y = +14.3$



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