



**SCMS SCHOOL OF ENGINEERING & TECHNOLOGY**

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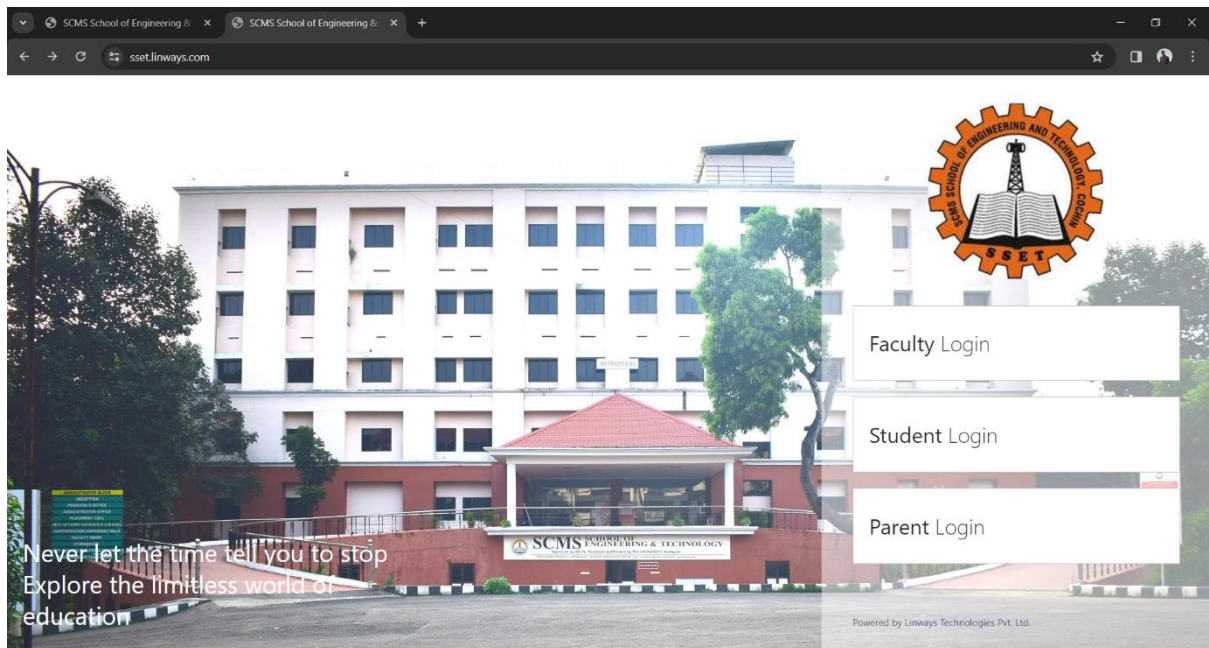
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## **Criteria 2**

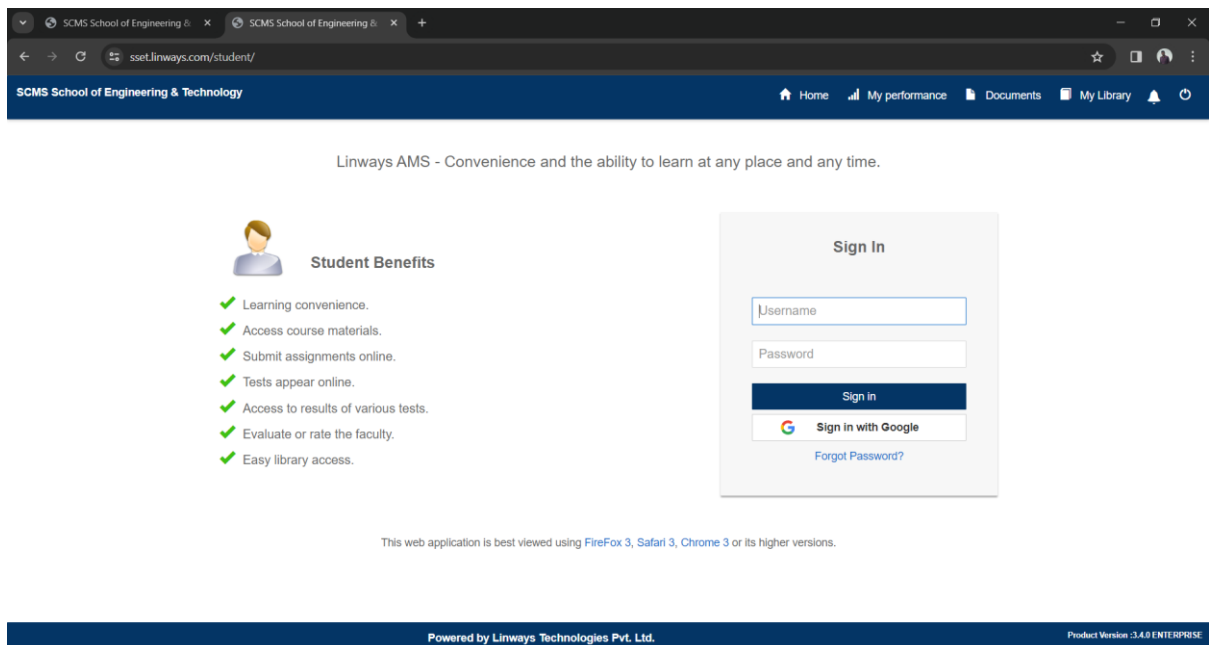
# **Teaching Learning and Evaluation**

***Criteria 2.3.2: ICT enabled tools for effective teaching-learning process***

## Portal first page



## Login page



## Faculty & students documents

The screenshot shows the 'Faculty & students documents' page on the SCMS School of Engineering & Technology website. The page is organized into a grid of document thumbnails. The navigation bar includes 'Home', 'My performance', 'Documents', and 'My Library'. A sidebar on the left shows 'Documents By' with 'Faculty' selected. The main content area is titled 'FACULTY DOCUMENTS' and 'VIDEOS', with sub-sections for 'Most Recent', 'Most Read', 'Most Discussed', and 'Most Rated'. The thumbnails display various documents, including '8051microcontroller by ayala.pdf', 'C Programming and Data Structures-E Balagurusamy -', 'The Constitution of India by', 'Professional Hadoop Solutions-Boris Lublinsky, Kevin T. Smith,', 'Learn Python the right way.pdf by', 'Introduction to Machine Learning with Python-Aguide for Data', 'Big Data Analytics with R and Hadoop-Vignesh Prajapati - Packt', 'Hadoop\_ The Definitive Guide-Tom White - O'Reilly Media', 'Fundamentals of Mathematical Statistics -S.C. Gupta, V.K. Kapoor', 'Programming in ANSI C-E Balagurusamy - McGraw Hill', 'Statistics with Julia.pdf by', 'Julia datascience.pdf by', 'The ACE of Soft Skills\_ Attitude, Communication and Etiquette for', 'Machine Learning\_ An Artificial Intelligence - Jaime G. Carbonell,', 'Machine Learning- Tom M. Mitchell - McGraw-Hill (1997).pdf', 'Machine Learning\_ An Algorithmic Perspective,- Stephen Marsland', 'Linear Algebra Done Right Solutions Manual (1997) - Sheldon', 'Mathematics For Machine Learning (MML) Official Solutions', 'Think Stats- Probability and stistics for programmers.pdf', 'Technical communication \_ principles and practice-Raman,', 'Linear Algebra Done Right- Sheldon Axler - Springer (2023).pdf', 'mathematics for machine learning by marc peter deisenroth.pdf', 'Introduction to applied Linear algebra by stephen boyd.pdf', and 'convex optimization by stephen boyd.pdf'.

## Digital Library

The screenshot shows the 'Digital Library' page on the SCMS School of Engineering & Technology website. The page features a search bar with 'Search eBooks' and 'Advance Search'. The main content area is titled 'DIGITAL LIBRARY' and displays a grid of document thumbnails. The sidebar on the left lists 'Explore', 'My Transactions', 'Ejournal Links', 'NPTEL', 'Digital Library', 'Periodicals', and 'e Books'. The thumbnails display various documents, including 'ECT 418 MECHATRONICS B.Tech (S) October 2023 (2019 Scheme)', 'CST 428 BLOCKCHAIN TECHNOLOGIES B.Tech (S) October 2023 (2019 Scheme)', 'MET 476 CRYOGENIC ENGINEERING B.Tech (S) October 2023 (2019 Scheme)', 'MET 402 MECHATRONICS B.Tech (S) October 2023 (2019 Scheme)', 'EET 402 ELECTRICAL SYSTEM DESIGN AND ESTIMATION B.Tech (S) October 2023 (2019 Scheme)', 'ECT 426 REAL TIME OPERATING SYSTEMS B.Tech (S) October 2023 (2019 Scheme)', 'ECT 402 WIRELESS COMMUNICATION B.Tech (S) October 2023 (2019 Scheme)', 'CST 466 DATA MINING B.Tech October 2023 (2019 Scheme)', 'CST 424 PROGRAMMING PARADIGMS B.Tech October 2023 (2019 Scheme)', 'CST 402 DISTRIBUTED COMPUTING B.Tech (S) October 2023 (2019 Scheme)', 'CET 434 RAILWAY AND TUNNEL ENGINEERING B.Tech (S) October 2023 (2019 Scheme)', and 'CET 402 QUANTITY SURVEYING AND VALUATION B.Tech (S) October 2023 (2019 Scheme)'.

## E-Journal Links

The screenshot shows a web browser window with the URL `sset.linways.com/student/library.php?menu=ejournal&action=list`. The page header includes the SCMS School of Engineering & Technology logo and navigation links: Home, My performance, Documents, My Library, and a notification bell. A left sidebar contains a menu with options: Explore, My Transactions, Ejournal Links (highlighted), NPTEL, Digital Library, and Periodicals. The main content area is titled "EJOURNAL" and contains a table with 9 rows of journal links. Each row includes a serial number (Sl.no), a link to the journal, and the user name and password for access.

Sl.no	Name of the journal
1	<a href="#">IEEE Xplore</a> (click here) User name: Password:
2	<a href="#">EBSCO E-Books - CORE Engineering</a> (click here) User name: ssetlib Password: Library@2020
3	<a href="#">DELNET</a> (click here) User name: krscmsset Password: scms6349
4	<a href="#">ASCE - American Society of Civil Engineers</a> (click here) User name: ssetasce Password: Ssetasce20
5	<a href="#">ASME - American Society of Mechanical Engineers</a> (click here) User name: ScmsSchool@Scms.com Password: OnlineC2020
6	<a href="#">SCIENCE DIRECT/ELSEVIER - Open Access Journals</a> (click here) User name: Password:
7	<a href="#">Directory of Open Access Journals(DOAJ)</a> (click here) User name: Password:
8	<a href="#">NPTEL - National Programme on Technology Enhanced Learning</a> (click here) User name: Password:
9	<a href="#">SWAYAM - India's national MOOC platform</a> (click here) User name: Password:

## Library search

The screenshot shows a web browser window with the URL `sset.linways.com/student/library.php?menu=libexplore&action=advance`. The page header is identical to the E-Journal Links page. The left sidebar menu is the same, with "Ejournal Links" highlighted. The main content area is titled "SEARCH YOUR BOOK" and contains a search form with the following fields and options:

- Book Title:
- Author:
- Publisher:
- Subject:
- Year:  -
- Method:  OR  AND

At the bottom of the form are "Search" and "Clear" buttons.

# Lesson Planner

Linways AMS

ssetv4.linways.com/ams/faculty/subject-community/lesson-planner/proposed-plans?redir=true&clusterId=ZPMvri5qGGWwB9buo

SCMS School of Engineering & Technology

HOME > SUBJECT COMMUNITY > EST100 - ENGINEERING MECHANICS > LESSON PLANNER > PROPOSED PLANS

### PROPOSED COURSE PLAN

TABLE METHOD | CALENDAR METHOD

Print | Import | Export | Sync with Timetable | More Actions | Copy Plans

☐ Holiday

#	DATE	HOURL	MODULE	TOPIC	DESCRIPTION	MODE OF INSTRUCTION	TEACHING PEDAGOGY	ACTIONS
1	29-01-2024	hour 5	Module 1	Basics of geometry, Syllabus outline, Mechanics classification		Lecture		Map
2	29-01-2024	hour 4	Module 1	Basics, syllabus outline, Engineering mechanics classification		Lecture		Map
3	30-01-2024	hour 2	Module 1	Principles of mechanics, Parallelogram law-problems		Lecture		Map
4	31-01-2024	hour 1	Module 1	Parallelogram law-problems, Lam's theorem, problem		Lecture		Map
5	13-02-2024	hour 2	Module 2	Parallel forces, couple, problems		Lecture		Map
6	14-02-2024	hour 1	Module 2	Force couple system-problems, Beams, supports, reactions		Lecture		Map
7	26-02-2024	hour 5	Module 2	Types of beams, Types of loads, Problem		Lecture		Map
8	27-02-2024	hour 2	Module 2	Beams-problems (3)		Lecture		Map
9	28-02-2024	hour 1	Module 2	Friction, Coulomb's law, Static		Lecture		Map

5:51 PM 12/6/2024

# Actual Plan

ssetv4.linways.com/ams/faculty/subject-community/lesson-planner/actual-plans?redir=true&clusterId=ZPMvri5qGGWwB9buo

SCMS School of Engineering & Technology

HOME > SUBJECT COMMUNITY > EST100 - ENGINEERING MECHANICS > LESSON PLANNER > ACTUAL PLANS

### ACTUAL PLAN

TABLE METHOD | CALENDAR METHOD

Delete Plans | Create An Actual Plan | Proposed Actual Plan | Actual Plan

☐ Holiday

#	DATE	HOURL	MODULE	TOPIC	DESCRIPTION	MODE OF INSTRUCTION	TEACHING PEDAGOGY	STATUS	ACTION
1	08-05-2024	hour 1	Module 3	Revision		Lecture		Fully Covered	Map
2	07-05-2024	hour 2	Module 3	Moment about an axis problems		Lecture		Fully Covered	Map
3	06-05-2024	hour 5	Module 3	Moment about a point-problem, Moment		Lecture		Fully Covered	Map
4	04-05-2024	hour 5	Module 3	Forces in 3D-problem, Moment about a point		Lecture		Fully Covered	Map
5	02-05-2024	hour 3	Module 3	Forces in 3D - problems		Lecture		Fully Covered	Map
6	02-05-2024	hour 2	Module 3	MI problem, Pappus guldinus theorem,		Lecture		Fully Covered	Map
7	29-04-2024	hour 5	Module 3	Moment of Inertia problems		Lecture		Fully Covered	Map
8	29-04-2024	hour 3	Module 5	MI problems		Lecture		Fully Covered	Map

# Internal exam Assessment

Browser address: ssetv4.linways.com/ams/faculty/subject-community/assessment-management/assessment-management?redir=true&clusterId=ZPMvri5qGGWwB9buo

SCMS School of Engineering & Technology

HOME > SUBJECT COMMUNITY > EST100 - ENGINEERING MECHANICS > ASSESSMENTS > MANAGEMENT

INTERNAL EXAM

Assessments Shared Assessments + Create INTERNAL EXAM

Filters

CENTRALIZED OFFLINE

MODEL EXAM

Name/Number : Retest

Publish INTERNAL EXAM :  Unpublished

Not Validated 10 questions

CENTRALIZED OFFLINE

INTERNAL-2

Name/Number : Internal Exam 2

Publish INTERNAL EXAM :  Unpublished

Validated 10 questions 62 students Listed

CENTRALIZED OFFLINE

INTERNAL-1

Name/Number : Internal Exam 1

Publish INTERNAL EXAM :  Unpublished

Validated 10 questions 64 students Listed

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# Internal exam mark entry

Browser address: ssetv4.linways.com/ams/faculty/subject-community/assessment-management/assessment-management?redir=true&clusterId=ZPMvri5qGGWwB9buo

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FACTORY

#	ROLL NO	NAME	ATTENDANCE	PART A (ANSWER ALL QUESTIONS)						PART A TOTAL MARK
				Q1 (3)	Q2 (3)	Q3 (3)	Q4 (3)	Q5 (3)	Q6 (3)	
1	01	AADITH V NAIR	PRESENT	1	1.5	0.5	0	3	2.5	8.5
2	02	A B DEVIKA	PRESENT	3	3	3	3	3	3	18
3	03	ABHIRAM SUBHASH	PRESENT							0
4	04	ADARSH THOMAS BINU	PRESENT		3	3				6
5	05	ADITHYA MANGHAT	PRESENT	3	3	3	3	2.5	3	17.5

Confirmed

# Assignment

← → ↻ ssetv4.linways.com/ams/faculty/subject-community/assessment-management/assessment-management?clusterId=ZPMvri5qGGWwB9buo

SCMS School of Engineering & Technology

HOME > SUBJECT COMMUNITY > EST100 - ENGINEERING MECHANICS > ASSESSMENTS > MANAGEMENT

ASSIGNMENT

Assessments Shared Assessments + Create ASSIGNMENT

Filters

OFFLINE

**ASSIGNMENT-2**

Name/Number : Assignment 2

Publish ASSIGNMENT :  Unpublished

Validated 1 Question 64 students Listed

OFFLINE

**ASSIGNMENT-1**

Name/Number : Assignment 1

Publish ASSIGNMENT :  Unpublished

Validated 1 Question 64 students Listed

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# Assignment Questions


← → ↻ ssetv4.linways.com/ams/faculty/subject-community/assessment-management/assessment-management?clusterId=ZPMvri5qGGWwB9buo

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HOME > SUBJECT COMMUNITY > EST100 - ENGINEERING MECHANICS > ASSESSMENTS > MANAGEMENT

Question Paper Preview

Choose Field To Display : Add fields depa



SCMS School of Engineering & Technology  
Vidya Nagar, Palissery, Karukutty  
Ernakulam - 683 576 Kerala.

**ASSIGNMENT-1**

Duration : 47 Hrs 59 Mins Sem : S2  
Max Mark : 10.00

**QUESTIONS**

**1. Module 1  
June 2022** [Mark : 10]  
(CO : CO1 , CO2 , CO3 , CO4 , CO5 )  
( Blooms Level : 3 )

- State and prove Varignon's theorem of moments. (3)
- Find the magnitude of the two forces, such that if they act at right angles, their resultant is  $\sqrt{10}$  N. But if they act at  $60^\circ$ , their resultant is  $\sqrt{13}$  N
- For the system of forces, determine the magnitude, direction and position of the resultant force about A.
- A smooth sphere of weight  $W$  is supported by a string fastened to a point A on the smooth vertical wall, the other end is in contact with point B as shown in figure. If length of the string AC is equal to twice the radius of the sphere, find tension (T) in the string and reaction of the wall.
- Two smooth circular cylinders each of weight  $50\text{ N}$  and radius  $20\text{ cm}$  are connected at their centres by a string AB of length  $40\text{ cm}$  and rest upon a horizontal plane as shown in figure. The cylinder above them has a weight of  $100\text{ N}$  and radius of  $20\text{ cm}$ . Find the force in the string AB and pressure produced in the floor at the points of contact D and E.

**December 2021**

- List out and explain systems of forces.
- State & Explain the Varignon's theorem
- Determine angle between the forces and the direction of the resultant shown in figure. The resultant of the two forces is  $1300\text{ N}$ .

1

# Assignment Marks

← → ↻ ssetv4.linways.com/ams/faculty/subject-community/assessment-management/assessment-management?clusterId=ZPMvri5qGGWwB9buo

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Question Wise Mark Entry Total Mark Entry Result View Excel Mark Entry Confirmed

Sort By: Roll No.

Include: \* Roll No.

#	ROLL NO	NAME	ATTENDANCE	Q1 (10)	TOTAL MARKS	%	STATUS	VIEW ANSWERS AND RUBRIC MARK ENTRY
1	01	AADITH V NAIR	PRESENT	10	10 / 10.00	100%	PASSED	<a href="#">View Answers</a>
2	02	A B DEVIKA	PRESENT	10	10 / 10.00	100%	PASSED	<a href="#">View Answers</a>
3	03	ABHIRAM SUBHASH	PRESENT	10	10 / 10.00	100%	PASSED	<a href="#">View Answers</a>
4	04	ADARSH THOMAS BINU	PRESENT	10	10 / 10.00	100%	PASSED	<a href="#">View Answers</a>
5	05	ADITHYA MANGHAT	PRESENT	10	10 / 10.00	100%	PASSED	<a href="#">View Answers</a>
6	06	ADITHYA M D	PRESENT	10	10 / 10.00	100%	PASSED	<a href="#">View Answers</a>

# Course Outcome Mapping

← → ↻ ssetv4.linways.com/ams/faculty/subject-community/obe/course-outcome?redir=true&clusterId=ZPMvri5qGGWwB9buo

SCMS School of Engineering & Technology

HOME > SUBJECT COMMUNITY > EST100 - ENGINEERING MECHANICS > OBE > COURSE OUTCOME

COURSE OUTCOMES

Copy Course Outcome + Create Course Outcome

1 #1 CO1  
Engineering mechanics

2 #2 CO2  
Engineering Mechanics

3 #3 CO3  
Engineering Mechanics

4 #4 CO4  
Engineering Mechanics

5 #5 CO5  
Engineering Mechanics

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