



New Jersey's Science & Technology University

## NEWARK COLLEGE OF ENGINEERING

### ME 343 MECHANICAL LABORATORY – I

January 21, 2025

Spring 2025

#### COURSE ADMINISTRATIVE INFORMATION

<b>Course Name:</b>	<b>Mechanical Laboratory – 1 (2-2-3)</b>
<b>Course-Section Number:</b>	ME343-002 (CRN 14043)
<b>Class meeting room / laboratory:</b>	MEC-214 & MEC-110
<b>After Class office room:</b>	MEC-330- & -ZOOM
<b>Instructor's Name:</b>	<b>B. S. Mani</b>
<b>Office Telephone:</b>	<b>(973) 596-3339</b>
<b>Cell Phone :</b>	<b>(630) 345-0558</b>
<b>e-mail id:</b>	<a href="mailto:mani@njit.edu">mani@njit.edu</a>
<b>Teaching Assistant:</b>	<b>Ms. Saba Mirahsani</b>
<b>e-mail id:</b>	<a href="mailto:sm3557@njit.edu">sm3557@njit.edu</a> Tel : <b>(551) 244-0874</b>
<b>Class meeting hours:</b>	Monday: 2:30 PM to 4:25 PM Thursday: 1:00 PM to 2:55 PM
<b>After Class office hours:</b>	Tuesday 2:30 PM to 3:30 PM Thursday: 11:30AM to 1:00 PM
<b>Complaints / Compliments:</b>	Dr. Zhiming Ji; (973) 596-3330 <a href="mailto:ji@njit.edu">ji@njit.edu</a>

#### TEXTBOOK

J. P. Holman, *Experimental Methods for Engineers*, 8<sup>th</sup> Edition, McGraw Hill, 2012

#### COURSE DESCRIPTION

Laboratory and lecture in instrumentation and measurement for mechanical engineering students. Applications for the sensing of such variables as pressure, temperature, mass flow, and displacement. Particular attention to the applicability and sensitivity of instruments.

*Prerequisites: EE 405, Math 225, Mech 236. ME 304.*

#### HOMEWORK

Assignments are due as scheduled - *Penalty for late submission: 10%*

Homework grade based on 'efforts' rather than 'correctness'

Homework solutions will be explained in class, typically in the class following due date

*Contd...*

## LABORATORY REPORT

All reports shall be individually completed and submitted on schedule

Penalty for late submission: 10%

Group discussion is encouraged but not writing 'Group Report'

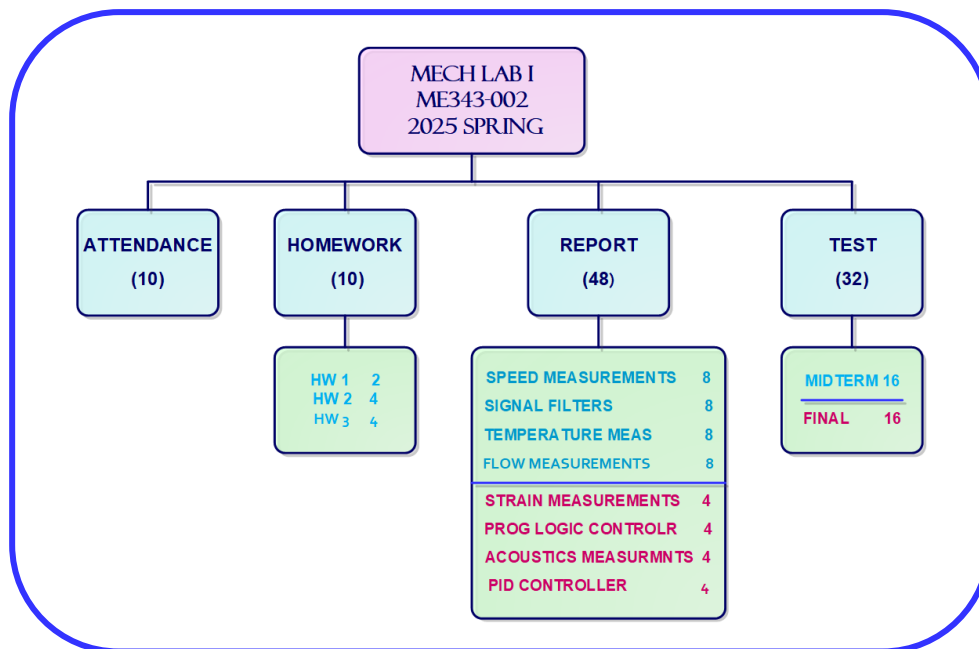
Grade for identical reports or very similar reports, will be divided among the number of students involved

Laboratory report must follow the formal report format suggested

Grades in case of resubmitted reports (if allowed), will be averaged with the original grade

NO cheating in any manner in any laboratory report(s) / test(s) will be tolerated

## GRADING SCHEME



LETTER GRADE	QUANTITATIVE REQUIREMENT	QUALITATIVE ACHIEVEMENT
A	90% & above	Superior Achievement
B plus	85% to 89.99%	Excellent Achievement
B	80% to 84.99%	Very Good Achievement
C plus	75% to 79.99%	Good Achievement
C	70% to 74.99%	Acceptable Achievement
D	60% to 69.99%	Minimum Achievement
F	59.99% and below	Inadequate Achievement

## GENERAL REQUIREMENTS

Regular attendance to all lecture classes is required

Staying attentive to lectures during class is expected

30 minutes or more delay in arriving at the lecture/lab session will be treated as absence

Assignments shall be submitted on schedule – penalty for late submission(s): 10%

Reasonably equal participation in team Laboratory Experiment is expected

Team working for all general homework is highly encouraged  
Taking the Midterm & Final Examination is *mandatory to receive a final course grade*

Safety instructions inside the laboratory shall be obeyed  
IPOD and Cell Phone use during Class or Laboratory will NOT be allowed  
Make-up examination, except for authentic medical reason(s), will NOT be allowed

No tolerance for *cheating* in any manner in any test OR in report preparation  
Any student found copying a report will be awarded zero for that report – with no option to resubmit  
Any student found *cheating during a test* will be awarded a course grade of 'F.'

Please refer to the University Policy on Academic Integrity at  
<https://www.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>

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