

Spring 2024

ME 343-002: Mechanical Lab I

Balraj Mani

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New Jersey's Science & Technology University

NEWARK COLLEGE OF ENGINEERING

ME 343 MECHANICAL LABORATORY – I

January 16, 2024

Spring 2024

COURSE ADMINISTRATIVE INFORMATION

Course Name:	Mechanical Laboratory – 1 (2-2-3)
Course-Section Number:	ME343-002 (CRN 14043)
Class meeting room / laboratory:	MEC-214 & MEC-110
After Class office room:	MEC-330
Instructor's Name:	B. S. Mani
Office Telephone:	(973) 596-3339
Cell Phone :	(630) 345-0558
e-mail id:	mani@njit.edu
Teaching Assistant:	Mr. Ketan Jawney
e-mail id:	kj355@njit.edu Tel : (862) 622-3807
Class meeting hours:	Monday: 2:30 PM to 4:25 PM Thursday: 1:00 PM to 2:55 PM
After Class office hours:	Tuesday 11:30 AM to 12:50 PM
Complaints / Compliments:	Dr. Joga Rao; (973) 596-3330 i.j.rao@njit.edu

TEXTBOOK

J. P. Holman, *Experimental Methods for Engineers*, 8th 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'

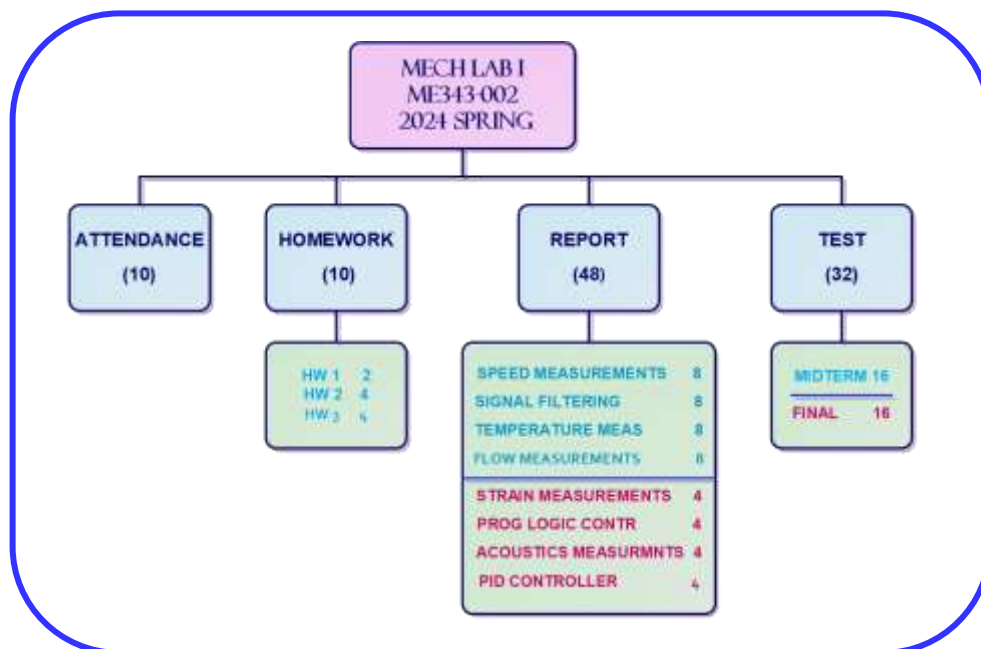
Grade for identical reports or very similar reports, will be divided among the number of students involved

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>
