

NEWARK COLLEGE OF ENGINEERING

ME 406 MECHANICAL LABORATORY - III

January 16, 2024

Spring 2024

COU6RSE ADMINISTRATIVE INFORMATION

Course Name:	Mechanical Laboratory – 3 (1-2-2)
Course-Section Number:	ME406-010 (Tuesday) (CRN: 15966)
Class meeting room / laboratory:	MEC-110
After Class office room:	MEC 330
Instructor's Name:	B. S. Mani
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e-mail id:	mm422@njit.edu Tel: (646) 240-7561
e-mail id: Engine Lab Support:	mm422@njit.edu Tel: (646) 240-7561 Mr. Orlando Castillo & Mr. David Bailey

TEXTBOOK

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

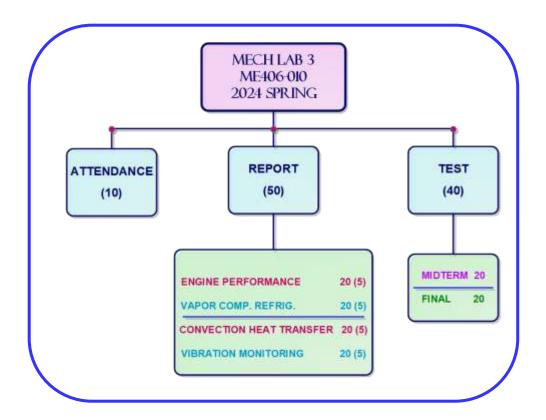
COURSE DESCRIPTION

Laboratory covering the testing and evaluation of complete mechanical systems.

Prerequisites: ME 405, ME 407.

LABORATORY REPORT

All reports shall be <u>individually completed</u> and submitted on schedule <u>Penalty for late submission: 10%</u> 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	
Α	90% & above	Superior Achievement	
B plus	85% to 89.99%	Excellent Achievement	
В	80% to 84.99%	Very Good Achievement	
C plus	75% to 79.99%	Good Achievement	
С	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 <u>https://www.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf</u>

ME 406-010 (CRN 15966): MECHANICAL LABORATORY III

SPRING 2024

#	DATE	DAY	TEAM-1	TEAM-2	TEAM-3	TEAM-4	HIGHLIGHTS / REMARKS
1	01/16/24	Tuesday	Lecture	Lecture	Lecture	Lecture	Lecture: Syllabus
2	01/23/24	Tuesday	Lecture	Lecture	Lecture	Lecture	Lecture: Reports, IC Engines
3	01/30/24	Tuesday			Refrigeration: TA	Engine:Orlando (Marii, Bailey)	Lecture: Refrigeration
4	02/06/24	Tuesday	Refrigeration: TA	Engine:Orlando (Mani, Balley	Analysis & Report	Analysis & Report	
5	02/13/24	Tuesday	Analysis & Report	Analysia & Report	Engine Orlando (Mani, Balley)	Retrigeration: TA	
6	02/20/24	Tuesday	Engine Orlando (Mani, Bailey)	Refrigeration: TA	Analysis & Report	Analysis & Report	
7	02/27/24	Tuesday	Review + Analysis & Report	Review + Analysis & Report	Review + Analysis & Report	Review + Analysis & Report	Review for Midterm
8	03/06/24	Tuesday	Submit Reports+Midterni	Submit Reports+Midterm	Submit Reports+Midterm	Submit Reports+Midterm	1 Long +1 Short Reports due
	03/12/24	Tuesday	Spring Break	Spring Break	Spring Breek	Spring Break	
9	03/19/24	Tuesday	Lecture	Lecture	Lecture	Lecture	Lecture: Heat Trans+Vibratio
10	03/26/24	Tuesday	Vibrations TA	Heat Trans: Mari	Analysis & Report	Analysis & Report	
	04/01/24	Monday	Last day to Withdraw	Last day to Withdraw	Last day to Withdraw	Last day to Withdraw	Last day to Withdraw
11	04/02/24	Tuesday	Analysis & Report	Analysis & Report	Wbrations/TA	Heat Trans: Mani	
12	04/09/24	Tuesday	Heat Trans: Mani	Vibrations:TA	Analysis & Report	Analysis & Raport	
13	04/16/24	Tuesday	Analysis & Report	Analysis & Report	Heat Trans: Mani	Vibrations TA	
14	04/23/24	Tuesday	Review + Analysis & Report	Review + Analysis & Report	Review + Analysis & Report	Review + Analysis & Report	Review for Final
	04/30/24	Tuesday	Friday Schedula	Friday Schodule	Friday Schedule	Friday Schedium	Last day of classes
15	Exam Date		Reports Due	Reports Due	Reports Due	Reports Due	1 Long +1 Short Reports due
			Final exam	Final exam	Final exam	Final exam	On Registrar's exam date
	05/11/23	Monday	Grades Due	Grades Due	•	Grades Due	Grades due
	GRADING SCHEME Report - long (#1) Report - long (#2) Report - short (#1)		ADING SCHEME		REPORT SET 1 (PINK)	REPORT SET 2 (TEAL)	
			20	Mid Term Exam (1) Final Exam (1)	20	Engine Pief. (Long) Heat Transfer (Long)	Refrigeration (Long) Vibration (Long)
			g (#2) 20		20		
			5	Attendance (15 meetings)	10	Refigeration (Short)	Engine Perf. (Short)
	Report - short (#2)		5	Total	100	Vibration (Short)	Heat Transfer (Short)

B. S. Mari

CAUTION: PLEASE DO NOT FOLLOW AVERAGES SHOWN ON CANVAS

01/16/2024