

Fall 2019

ME 406-001: Mechanical Laboratory III

B. S. Mani

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ME 406 MECHANICAL LABORATORY – III

September 05, 2019

Fall 2019

COURSE ADMINISTRATIVE INFORMATION

Course Name:	Mechanical Laboratory – 3 (1-2-2)
Course-Section Number:	ME406-001
Class meeting room / laboratory:	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. Islam Benouaguef
e-mail id:	ib43@njit.edu Tel: (917) 819-9274
Engine Lab Support:	Mr. Joseph Glaz
Class meeting hours:	Wednesday: 11:30 AM to 2:20 PM
After Class office hours:	Monday 11:30 AM to 12:55 PM Thursday 11:30 AM to 12:55 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 covering the testing and evaluation of complete mechanical systems.

Prerequisites: ME 405, ME 407.

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

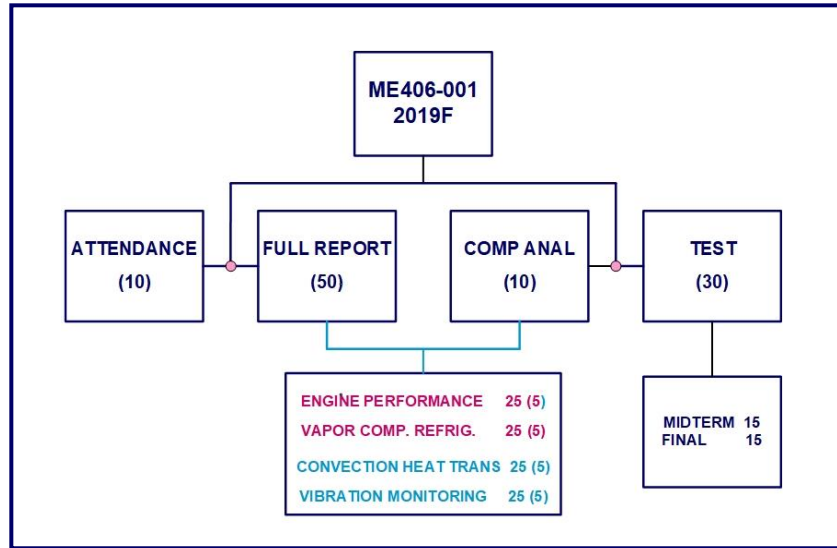
Laboratory report must follow the formal report format suggested

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

Contd...

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>

ME 406-001 (CRN 93947): MECHANICAL LABORATORY III

FALL 2019

#	DATE	DAY	TEAM-1	TEAM-2	TEAM-3	TEAM-4	HIGHLIGHTS / REMARKS
1	09/04/19	Wednesday	Lecture	Lecture	Lecture	Lecture	Lecture: Syllabus, Reports,
2	09/11/19	Wednesday			Refrigeration: TA	Engine Perf: Mani/Glaz	Lecture Engrn Perf & Refrign.
3	09/18/19	Wednesday	Refrigeration: TA	Engine Perf: Mani/Glaz	Analysis & Report	Analysis & Report	
4	09/25/19	Wednesday	Engine Perf: Mani/Glaz	Analysis & Report	Analysis & Report	Refrigeration: TA	
5	10/02/19	Wednesday	Analysis & Report	Refrigeration: TA	Engine Perf: Mani/Glaz	Analysis & Report	
6	10/09/19	Wednesday	Analysis & Report	Analysis & Report	Analysis & Report	Analysis & Report	
7	10/16/19	Wednesday	Reports+Midterm exam	Reports+Midterm exam	Reports+Midterm exam	Reports+Midterm exam	All Group 1 Reports due
8	10/23/19	Wednesday	Lecture	Lecture	Lecture	Lecture	Lecture: Heat Transfer&Vibn.
9	10/30/19	Wednesday	Vibrations:TA	Heat Trans: Mani			
10	11/06/19	Wednesday	Analysis & Report	Analysis & Report	Vibrations:TA	Heat Trans: Mani	
	11/11/19	Monday					Withdrawal Deadline
11	11/13/19	Wednesday	Heat Trans: Mani	Vibrations:TA	Analysis & Report	Analysis & Report	
12	11/20/19	Wednesday	Analysis & Report	Analysis & Report	Heat Trans: Mani	Vibrations:TA	
	11/27/19	Wednesday	Friday Schedule	Friday Schedule	Friday Schedule	Friday Schedule	
13	12/04/19	Wednesday	Analysis & Report	Analysis & Report	Analysis & Report	Analysis & Report	All Group 2 Reports due
14	12/11/19	Wednesday	Reports+Final exam	Reports+Final exam	Reports+Final exam	Reports+Final exam	
GRADING SCHEME							
	Report - Full length #1	25		Mid Term Exam (1)	15		REPORT SET 1
	Report - Full length #2	25		Final Exam (1)	15		Engine Perf. (Long)
	Computational Anal #1	5		Attendance (14 meetings)	10		Heat Transfer (Long)
	Computational Anal #2	5		Total	100		Engine Perf. (Short)
							Heat Transfer (Short)
INSTRUCTOR: B. S. Mani mani@njit.edu, (x 3339), (630) 345-0558							
TEACHING ASSISTANT: Mr. Islam Benuaguef, ib43@njit.edu, (917) 819-9274							
ENGINE PERFORMANCE TEST: Mr. Joseeph Glaz (x 3320), joseph.glaz@njit.edu							