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ME 406-001: Mechanical Laboratory III

Balraj Mani

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NEWARK COLLEGE OF ENGINEERING

ME 406 MECHANICAL LABORATORY – III

September 02, 2020

Fall 2020

COURSE ADMINISTRATIVE INFORMATION

Course Name:	Mechanical Laboratory – 3 (1-2-2)
Course-Section Number:	ME406-001 (Wednesday)
Class meeting room / laboratory:	MEC-110 – (online Asynchronous mode)
After Class office room:	WebEX (on demand) – we will meet weekly by
Instructor's Name:	B. S. Mani
Office Telephone:	(973) 596-3339
Cell Phone :	(630) 345-0558
e-mail id:	mani@njit.edu
Teaching Assistants ME406-001:	Ms. Hongling Deng , hd242@njit.edu
Engine Lab Support:	Mr. Joseph Glaz , glaz@njit.edu
Class meeting hours:	Wednesday: 11:00 AM to 1:50 PM (Section 001)
After Class office hours:	On WebEX, by schedule , by team
Complaints / Compliments:	Dr. Joga Rao , l.j.rao@njit.edu , (973) 596-3330

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

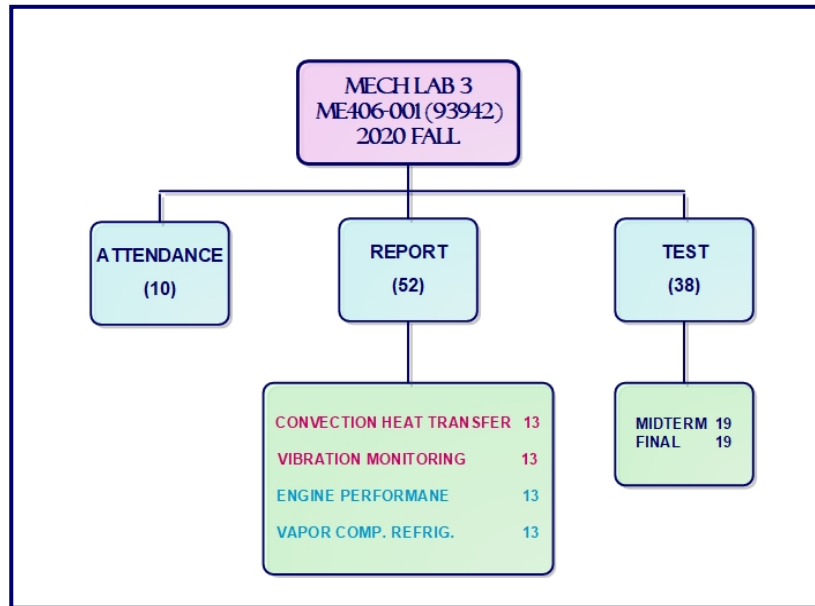
Laboratory report must follow the formal report format suggested

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 – 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 : FALL 2020 CLASS PLAN

#	DATE	DAY	ACTIVITY	SUBMISSION DUE
1	09/02/20	Wednesday	Start - Syllabus - Report writing	
2	09/09/20	Wednesday	Convection Heat Transfer - Lecture	
3	09/16/20	Wednesday	Convection Heat Transfer - Discuss data	
4	09/23/20	Wednesday	Vibration Analysis - Lecture	
5	09/30/20	Wednesday	Vibration Analysis - Discuss data	
6	10/07/20	Wednesday	Open room (attendance not taken)	
7	10/14/20	Wednesday	Review For exam	Vibration. Analysis - Report Due
8	10/21/20	Wednesday	Midterm Exam (attendance not taken)	Heat Transfer - Report Due Midterm Exam
9	10/28/20	Wednesday	Vapor Compression (Refrigeration)	
10	11/04/20	Wednesday	Vapor Comp. (Refrig.) -Discuss data	
11	11/11/20	Wednesday	IC Engine - Lecture	
12	11/18/20	Wednesday	IC Engine - Discuss data	
	11/25/20	Wednesday	Open room (attendance not taken)	Monday classes meet
13	12/02/20	Wednesday	Review For exam	Vapor Compression - Report Due
14	12/09/20	Wednesday	Final Exam (attendance not taken)	IC Engine - Report Due Final Exam