

San José State University
Charles W. Davidson College of Engineering
Department of Mechanical Engineering
ME 295B, Mechanical Engineering Project II, Fall 2022

Course and Contact Information

Coordinator:	Dr. Raghu Agarwal
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Office Hours:	Tuesdays and Thursdays 3:00PM – 4:00PM and by appointment
Class Days/Time:	TBA
Classroom:	TBA
Sections	1-10
Prerequisites:	ME 295A <i>Mechanical Engineering Project I</i>

Reference: Check the ME Department Website for MSME Program at <https://www.sjsu.edu/me/programs/ms-in-mechanical-engineering/index.php>

Course Description

Continuation of ME 295A. Students complete the in-depth project, write a detailed engineering report, and make a comprehensive presentation.

Course Learning Outcomes (CLO)

Upon successful completion of this course, students will be able to:

1. Conduct a literature review on a topic of engineering research using a full range of information sources
2. Summarize findings and draw valid conclusions from engineering research
3. Present the results of research work in front of peers following accepted presentation methods
4. Document the results of research work in a detailed engineering report following accepted format and style guidelines

Required Texts/Readings

None

Course Requirements and Assignments

All the students are expected to:

- Make an end-of-the-semester presentation.
- Provide an end-of-the-semester report.

Course grades will be issued when the following items are received by the student's committee chair prior to the 'grades due date':

- A copy of the final report approved by the committee chair and signed by all committee members
- A copy of the approved 'Oral Presentation and Grade Form' by the committee members.
- Proof of the regular consulting with the advisory committee.

Important Dates:

- **Oct. 14:** Turn in a 2-page progress update report to the committee.
- **Nov. 25:** Turn in the draft report for initial evaluation to the committee.
- **Dec. 2-7:** Present the project to the committee.
- **Dec. 14:** Turn in the approved semester report.

Final Report:

The final report must be prepared and submitted to the committee chair and the committee members. The final report must follow a professional report writing format, with proper grammar and composition. It must include sufficient review of the state-of-the-art literature, the application of modern tools, and the presentation of experimental or numerical results.

Except for replacing the words "thesis committee" with "project committee" and "thesis" with "project report", respectively, ME 295B report is expected to follow the same formatting guidelines as the SJSU M.S. thesis, as defined by the College of Graduate Studies at:

<https://www.sjsu.edu/cgs/current-students/thesis-and-dissertation-information/>

For examples of these minor differences between theses and ME 295 reports, please ask your committee chair for past reports that you can mimic.

Required paperwork for graduation (if ME 295B is your last course towards completing your MSME degree):

- Culminating Experience Memo will be sent by the Graduate Program Advisor directly to Graduate Admissions and Program Evaluations following the receipt of an approved Final Report.

Grading Information

Evaluation criteria for grading are posted at <https://www.sjsu.edu/me/student-resources/forms/graduate.php> under "Thesis/Project Assessment Form B". Each criterion is evaluated by the project committee on a 0.0 to 4.0 scale (as in grade point averages), with 4.0 indicating "A", 3.0 indicating "B", and so on. At the committee's discretion, determination of scores may be conducted by committee consensus or by averaging of the ratings from each individual committee member.

Extra Credit

The students are eligible to receive up to 10% extra credit if a manuscript for a technical paper is developed and submitted to the committee, in addition to the full project report by the due date for the approved semester report. The paper must be prepared in coordination with the committee chair, and in the format of a standard conference or a journal paper such as those administered by the ASME, IEEE, or other credible publishers. The committee chair must approve the paper development plan 4 weeks before the tentative final presentation schedule, based on the project's progress, the novelty of the methods, and the significance of the results. No extra credit will be given if the committee chair does not pre-approve the paper. The extra credit will also depend on the overall quality of the developed paper.

University Policies

Per University Policy S16-9, university-wide policy information relevant to all courses, such as academic integrity, accommodations, etc. will be available on Office of Graduate and Undergraduate Programs' [Syllabus Information web page](https://www.sjsu.edu/curriculum/courses/syllabus-info.php) at <https://www.sjsu.edu/curriculum/courses/syllabus-info.php>