

**College of Maritime Engineering, and, Biological, Oceanic and Natural
Resource Sciences**

Finite Elements

Course project

Jan. 17th, 2018

The objective of this project is to analyze a structure applying the Finite Element method with ANSYS package. The structure is proposed by the student and accepted by the instructor. Each student must establish its own specific objectives.

Written report:

The report must be prepared in the attached format, and have no more than 8 pages, including appendages. Include a short comparison of the estimated and really employed number of hours for the project; classify time for i.- information search and problem identification, ii.- geometric and structural models development, iii.- result analysis, iv.- preparation of written report, and, v.- preparation of oral presentation.

Each student must prepare and present its own report, but if it corresponds to the same ship, oral presentation is in group.

Project evaluation:

Written report:

- Format and redaction (Format, redaction, spelling): 10%
- Technical content (Adequate partition of domain, check of the model, correct/realistic support, enough/realistic load conditions, and, summary and discussion of results): 50%
- Conclusions and Recommendations (At the beginning of the report include specific objectives, then analyze results and finally conclude. For recommendations think on what new objectives would you like to reach, after this work; do not include things like “*you have to be careful with the geometry, supports or estimation of loads ...*”) 15%.

Oral presentation (evaluated according to valuation table): 25%

Deadlines: Oral presentation: 7h30 am, Jan 31th, Final version of written report: day and time of final exam.