



## Over view

## Aims and Objectives

### Activity

After this problem was realized, the time line for working on the senior research project was redesigned for students . They have been allowed to get the topics and start working on their research project prior to an official enrollment in order to provide the them an unperturbed learning condition [Jensen, 2019]. Therefore, the students could jump start their projects as early as possible and all of the information has been created bit by bit to become a complete figure. Moreover, a course combination between the third year seminar and a senior project was the other contribution for this since students would be able to study on the materials they really have to deal with earlier and able to integrate the same set of information for the further work on their senior project. The unlocking of course time line just stated also provided students to have a chance to work with the faculty members, who became their project advisors, longer and this would enhance the quality and quantity of their work to get publishing in the frontier academic journals.

### Outcome

Numbers of students, who could finish their projects, increases from 55 to 100% (Figure 1).

## Impact

- 1) Number of student who got “A” increase from 25 to 62% after this action has taken place (Figure 1). As a result, the student’s GPA also raised.
- 2) Enhance the work of under grade students to be published in the academic journals and the example of this was showed in Figure 2.
- 3) About 25% of these students have carried on the projects for the further study on their master degree.



## Future development

Encourage the senior students to improve the quality of their projects by providing the seeding grants and also awarding the published work.

## References

Jensen, J. How to complete a big long project. (<http://www.personal.utulsa.edu/~joli-jensen/how%20to%20complete%20a%20big%20long%20project.htm>)

Khongtong, S. and Chotirut, S. (2018) The tunable polarity at the surface of natural rubber grafted with polymethyl methacrylate. *SWU Sci. J.*, 33(2), 171-182.