

Boosting Process for Wrapping up a Senior Project

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Over view

It was found that almost a half of students in polymer engineering could not be able to finish their senior projects within the term period of the official enrollment. Additionally, it was observed that this problem has gradually accumulated since they had got the research topics at the beginning of that academic term and then they started to fade off from the weekly meeting until they never got back and finally no more progression from students has been displayed.

Aims and Objectives

To enhance the students to wrap up their senior projects within that enrolled term.

Activity

After having the formative assessment by face to face interviewing, the feedback from students showed that the problem, initially, occurred right after the research topics were distributed to the students at the beginning of a term. It was likely due to they didn't have enough time to explore the required information steadily to keep going on the track of the senior project research since there were too many other courses to share their working time in that trimester.

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.

<u>Outcome</u>

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

<u>Impact</u>

- 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.

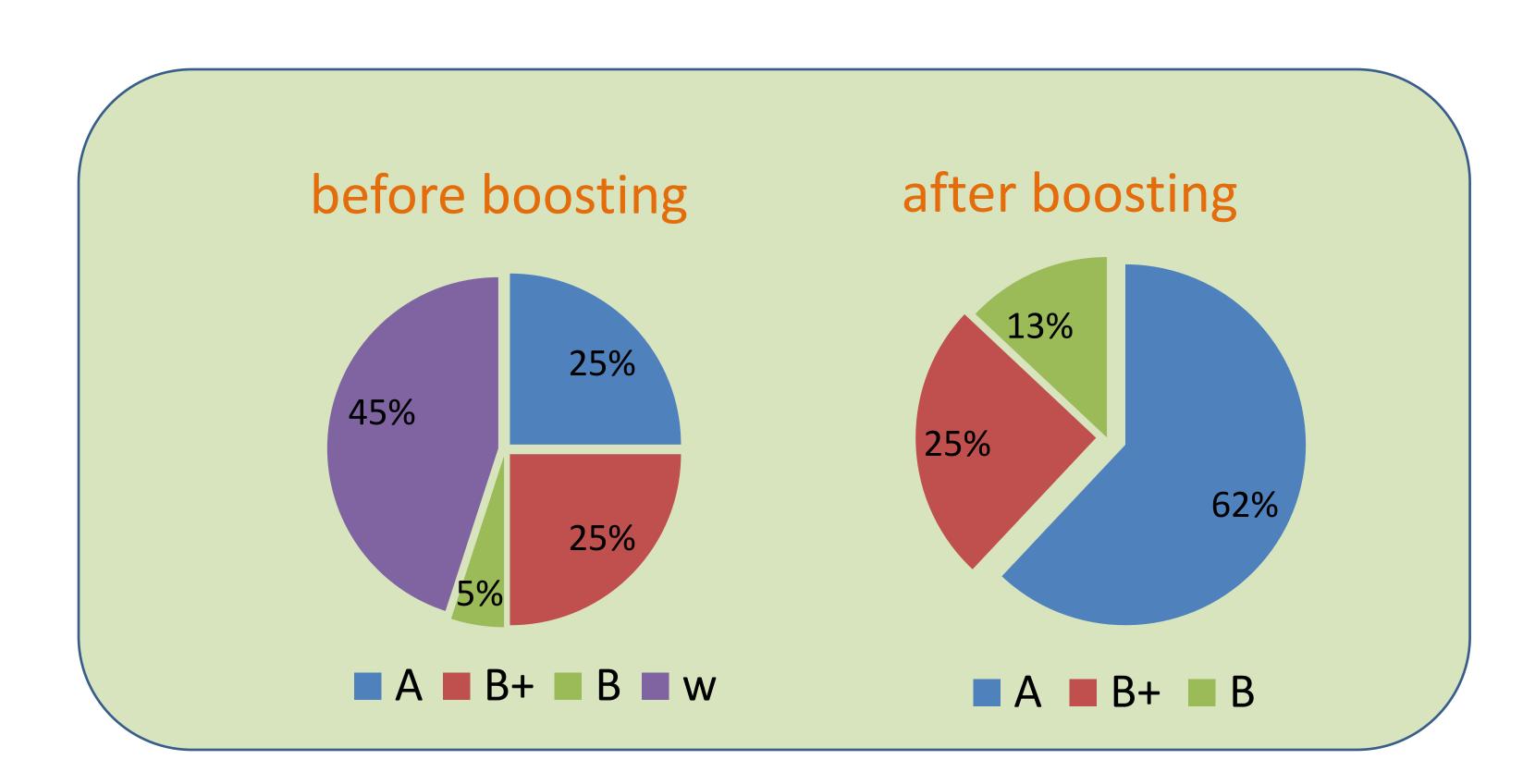


Figure 1 The comparison of grading on a senior project: before and after action of booting was performed.

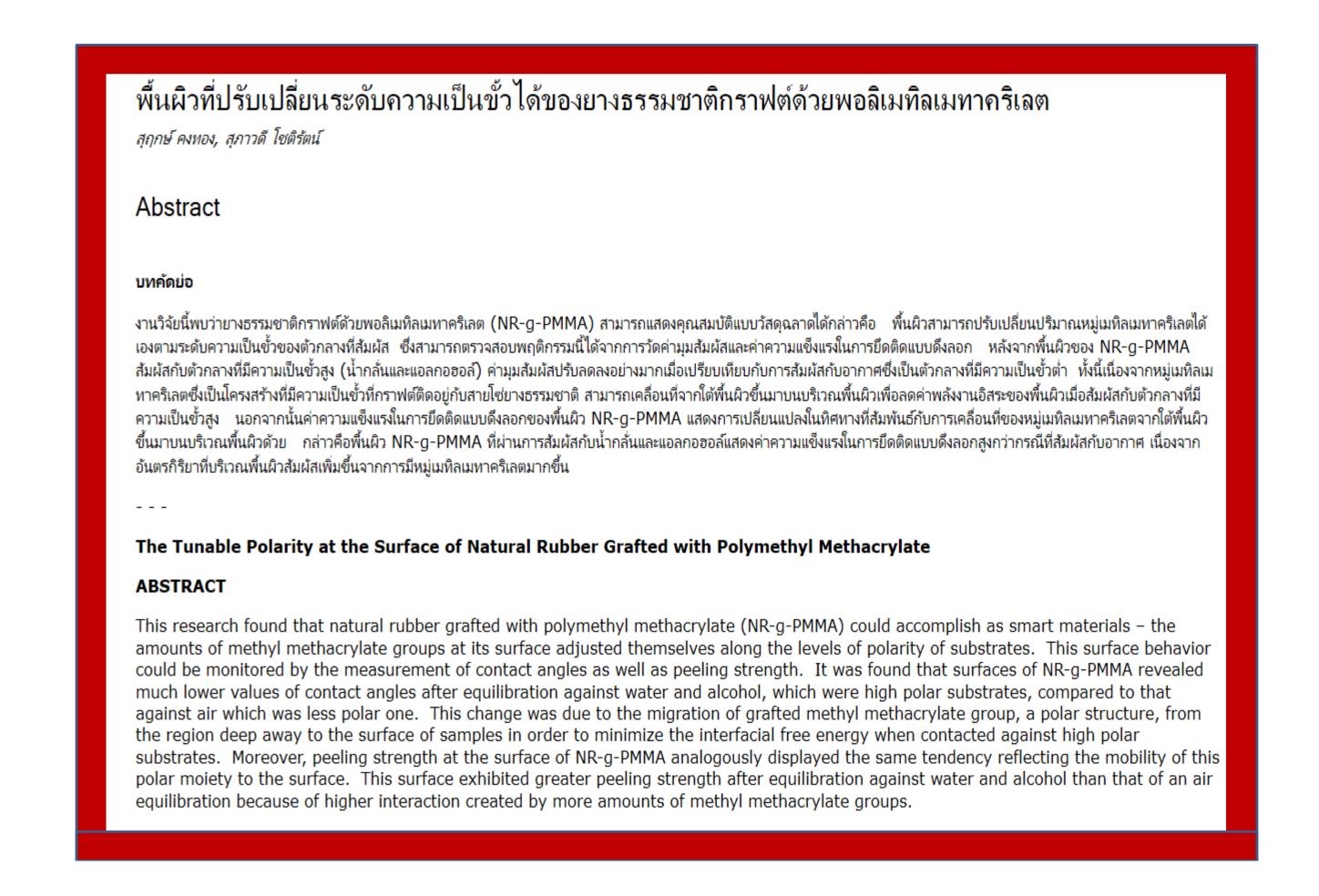


Figure 2 The article created from a senior project published on an academic journal. [Khongtong & Chtirut, 2018]

Future development

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