

Increasing Entrepreneurship Insights Through STEM-Eco Printing Workshops for National High School Students Tengku Panglima War Tengku Muhammad, Pahang, Malaysia

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ABSTRACT

Since the implementation of the new curriculum in 2017 which emphasizes a Science, Technology, Engineering, & Mathematics (STEM) based curriculum, schools in Malaysia have faced various challenges so that the curriculum runs well, especially in fostering students' entrepreneurial spirit. One of them is by including elements of art/culture in the development of STEM education because art is very necessary in making attractive products and the characteristics of Malay society are close to the extraordinary richness of art and culture. Meanwhile, natural resources in the form of biodiversity in the forests of Malaysia and Indonesia which are identical, have the potential to develop STEM-based learning with local wisdom. For example, Eco printing technology which uses natural materials from local potential colors from various plants can be developed in STEM learning. Eco printing itself, which produces fabric products, has become an advantage of FMIPA UNY which is quite popular with students and teachers as a means of self-development. This strength is a potential solution to the problem of developing students' entrepreneurial spirit in Malaysia. Yogyakarta State University has many MoUs with many universities in Malaysia, one of which is the International Islamic University Malaysia (IIUM) which is located in Kuantan, the capital of the state of Pahang. This condition allows for collaboration between UNY and IIUM to carry out training/workshop activities for high school students around the IIUM campus, such as the Tengku Panglima War National High School (SMK) Tengku Muhammad which has been partnering with IIUM for quite a long time. Apart from strengthening the implementation of STEM education in developing an entrepreneurial spirit, this activity also strengthens foreign cooperation

UNY, there is an opportunity to attract Malaysian students to continue studying in Indonesia or at least study Eco printing with local Indonesian wisdom.

Through activities planned over the past 8 months, the PkM FMIPA UNY group will collaborate with the Department of Plant Science and Plant Productivity and Sustainability Resource Unit, International Islamic University Malaysia (IIUM) to be able to conduct a joint workshop in the context of the Junior Scientistiest Entrepreneur Camp with the theme Eco -Printing. The target of the activity is students of the National Middle School Tengku Panglima War Tengku Muhammad, Pahang for grades 11 & 12. The activities carried out include the delivery of material (Science behind Eco-printing & The Creativepreneur of Eco-printing), as well as the practice of making and promoting ecoprints which is followed by activity evaluation

Kata Kunci: *Enterpreneurship; Eco Printing; STEM; Workshop*