INDUSTRIAL VISIT OF MECHANICAL ENGINEERING STUDENTS OF JAKARTA STATE POLYTECHNIC TO PT GREEN POWER GROUP

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Bekasi, October 14, 2024, A total of 54 male and female students of the D3 and D4 Mechanical Engineering programs of the Jakarta State Polytechnic and 2 accompanying lecturers conducted an industrial visit to PT. Green Power Group Tbk as part of the learning process for the Manufacturing Engineering Technology course. This visit aims to provide participants with direct experience of the molding process, product marketing and sustainable business practices implemented by PT. Green Power Group Tbk.

(PT. Green Power Group Tbk team helping the participant explaining the molding process)

The visit began with a warm welcome from the President Director of PT. Green Power Group Tbk, Mr. William Ong, followed by a comprehensive presentation on the company's history and core values. Participants were then invited to tour the factory guided by Mr. Paino as the Head of Factory Production. Participants witnessed firsthand how the molding process takes place. The molding process begins with the making of molding design, molding mold, (The process of molding with the use of injection machine, and to the final painting process. The steps for molding using an injection machine are as follows:

1. First of all, the mold must be opened and arranged in such a way that the resulting product can be easily removed or taken.

2. Thermoplastic in the form of granules or powder is collected in a hopper and then automatically drops into the barrel where it is melted by the heater on the barrel wall and by friction due to the rotation of the injection screw.

3. Fill Injection Process: The melted plastic is injected by the injection screw (which also functions as a plunger) through a nozzle into a water-cooled mold.

4. Refill and Cooling: The process of recharging the molten plastic to be injected in the next cycle together with the cooling process of the plastic mold. During the product cooling process, the plastic melting process occurs simultaneously in the barrel so that once the product is removed from the mold and the mold closes, the melted plastic can be injected directly.

5. Mold Open: The cooled and hardened product is removed from the mold by a hydraulic pusher embedded in the mold housing. The movement of releasing the product (ejection) from the mold by the ejector pushes the product from the core side so that it is easy to remove. Then the participants were also explained about the various products that PT. Green Power Group Tbk produces, including: Printer covers, food and beverage packaging, household appliances, automotive products, and various other products. This industrial visit was a very useful moment for students because it allowed them to connect the theories learned in class with real applications in the industrial world.

After touring the factory, the activity continued with an interactive Q&A session with the PT. Green Power Group Tbk team. The interactive discussion with the PT. Green Power Group Tbk team provided students with valuable insights into the machine excellence, operational excellence, and marketing strategies found at PT. Green Power Group Tbk. This experience is expected to contribute significantly to their academic and professional development, preparing them to become competent workers in the ever-growing manufacturing industry.

This visit is a real manifestation of PT. Green Power Group Tbk's commitment to providing practical learning opportunities and encouraging collaboration between the industrial world and academia for the advancement of the manufacturing industry in the future.