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HIGHWAY AND TRAFFIC ENGINEERING INTERVENTION WORKSHOP 2023

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Due to the Movement Control Order (MCO) in 2020 and 2021, courses involving laboratories, such as Highway dan Traffic Engineering (CEG552) have been shifted to an Online Distance Learning (ODL) medium, preventing students from gaining hands-on experience with laboratory equipment. Therefore, the Highway and Traffic Engineering Intervention Workshop 2023 program was held on May 19, 2023, in collaboration between “Skuad Motivasi & Pembangunan Pelajar” and the respective Highway and Traffic Engineering lecturers as a platform to assist Bachelor of Engineering (Hons.) Civil (Infrastructure) - EC221 students in improving their PO5 (Modern tool usage). This is the second time around events, the previous one was held on May 19 – 20, 2022. The primary goal of this workshop is to give exposure to final-year students on how to use highway laboratory equipment in an experiment with road materials and pavement surface conditions. This program is one of the faculty's intervention programs designed to meet EAC accreditation requirements and guarantee that EC221 students have adequate experience.

This program was organised for students in Part 6, 7, and 8, with a total of 215 students. The lab activity is divided into two settings: indoor and outdoor. In the highway laboratory, students use road laboratory equipment and perform tests involving road construction materials, specifically aggregate and bitumen. In an outdoor context, students assess road surface conditions such as skid resistance, texture depth, and surface drainage. All activities are carried out with the supervision of the facilitators consisting of academic staff and assistant engineers. To ensure that all students receive appropriate exposure, they have been divided into small groups in accordance with the laboratory's standard operating procedure (SOP). Overall, all students expressed satisfaction with the intervention program and provided favourable feedback.

Some of the comments given by students are as follows:



Students are conducting a pavement surface drainage experiment using an outflow meter



Students are listening to the facilitator's explanation regarding the British Pendulum Tester, an equipment used for skid resistance tests.

- The experiments were conducted in a fun and exciting way. The explanation was clear and easy to understand.
- Good exposure to ODL students.
- Good exposure on handling the equipment.
- I am able to conduct the tools/experiment safely and efficiently.
- Finally, I can see how to handle the equipment and do the tests in real life.