

PKM ASSEMBLY ELECTRIC HANDCYCLE WHEELCHAIR PROTOTYPE IN IMPROVING THE SKILLS OF CHAIRWARE REPAIR TEAM IN DISABILITY COMMUNITY IN DIY PROVINCE

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ABSTRACT

United Cerebral Palsy Roda For Humanity (UCPRUK) is a non-profit and independent organization that focuses on fulfilling the rights of people with disabilities in Indonesia, especially the right to mobility aids. Based on the many unmet needs for mobility aids, UCPRUK became the pioneer in introducing the importance of mobility aids. With the existence of UCPRUK, awakening the disability community to be maximally productive. In Yogyakarta, there are 5 community groups, namely Sleman, Bantul, Kulonprogo, Gunungkidul, and Yogyakarta. In Central Java, there are 5 community groups, namely Purworejo, Magelang, Klaten, Boyolali, and Salatiga.

In early March 2021, a group of lecturers carried out a community service program (PPM) training on the maintenance and repair of electric wheelchairs at UCPRUK. The training was attended by people with disabilities from Yogyakarta and Central Java. There is support and input for programs that have been implemented, such as: holding training for a long time, holding training for assembling electric wheelchairs with additional electric handcycle wheelchairs, and there are follow-up programs for participants.

Based on these three inputs, the researchers proposed a research-based PPM program. The PPM implementation plan uses a prototype product from the research results "Prototyping Electric Handcycle Wheelchair". Where the prototype research program runs in the same year. So that the research results are synchronized with several partners, both prototype research partners and PPM partners. With the sustainability of the PPM program, we are able to establish a triple helix partnership between Yogyakarta State University, business entities, namely UCPRUK, and local governments, especially Yogyakarta.

Kata Kunci: *electric handcycle, wheelchair, triple helix, UCPRUK*