

Living and Learning in Dignity – Home, Apartment and School Design

(Hidup dan Belajar yang Bermartabat - Desain Rumah, Apartemen dan Sekolah)

by:

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Book's Synopsis

Accessible homes and schools are important for the citizens (including people with disability, senior citizens, pregnant mothers, and so on). Considering this phenomenon, our Service-Learning Inclusive Design Course attempts to redesign an accessible and proper House and School for YPAB, YPAC, BILIC, Kampung Bratang and Jalan Bibis. This activity was conducted in collaboration with YPAB (Yayasan Pendidikan Anak Buta), YPAC (Yayasan Pembinaan Anak Cacat), BILIC (Bandung Independent Living Center), and other resource persons.

Home and school design is unique because every user owns specific disability spectrum. We intentionally chose the various disability spectrums to describe the differences between universal design and inclusive design. Inclusive design is defined as “the design of mainstream product and/or services that are accessible to and usable by as many people as reasonably possible². The design is produced holistically by considering all spectrums of the users. The users are involved in the designing process. This feature slightly differentiates inclusive design from universal design. Universal design serves as standard design that attempts to accommodate a broad-spectrum of architectural ideas to produce buildings, products, and environments that are accessible to both people with and without disabilities. Based on this reason, we intend to explore more about inclusive design.

As a course, this activity consists of several phases, including lectures on ‘Home and School Design for All Users’, literature reviews, direct observations and licensing, interviews, and documentations, proposing accessible design, design workshops, design completion and final report. The activities have accommodated the inclusive design process.

The processes above are expected to propose accessible House and School designs which accommodate users’ needs and local habits. The five designs discussed in this book are initial steps which are expected to serve as reference for the Government, private institutions, and society to provide more accessible and proper facilities for all (including disabled people and people with special needs). Finally, the writers hope this book would inspire other people with special needs to independently design proper accessible House and School in their life.

Preface

First, we thank God Almighty for the opportunity given to be able to prepare an interesting book I also thank My family, which are Dr. Ir. Joyce M. Widjaya, M.T., Priskila Adiasih, S.E., M.Sc., Katrina, and Gunadi Tanuwidjaja, B.A.Sc., ACCA. for relentless support. This book was produced from the results of an exploration using the University Network Digital (Local) Knowledge method in the C Service Work Course - Inclusion Design course. The result of the exploration was developed into SERVICE LEARNING for the community, or it was known later as UNDK-SL. So, this book is considered providing enlightenment to Architecture Students, Professional Architects, and the public regarding Inclusive Design.

We appreciate the support of Dr. Rudy Setiawan, S.T., M.T. (current Dean of the Faculty of Civil Engineering and Planning / FTSP), Timoticin Kwanda, B.Sc., MRP., Ph.D. (Dean of FTSP 2014-2017) and Ir. Handoko Sugiarto, M.T. (Dean of FTSP 2009-2014) for facilitating collaborations with external parties.

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Results of Service-Learning Course - Inclusive Design, Architecture Study Program, Petra Christian University

Community Empowerment) who facilitated this activity at a more detailed level. We also highly appreciate Ms Dian Wulandari S.I.P., Head of Library@Petra (Perpustakaan UKP) and Mr Adi Wibowo, S.T., M.T., Ph.D. Cand., Head of General Education Department PCU (Departemen Mata Kuliah Umum UKP) (2014-2017) for supporting all our workshops, fundraisings, exhibitions, and campaigns. We also thank the participants of the Inclusive Design Course and the KKP-C Inclusive Design Course who have supported this activity since 2012. We believe that this course equips students in producing designs that pay more attention to users with special needs.

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Surabaya, 08 March 2021

Gunawan Tanuwidjaja ST. MSc.
on behalf of the Team

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Introduction by Dean of Engineering and Planning Faculty, Petra Christian University

First, we want to thank Lord Jesus for allowing us to publish this great book. This book reflects an inclusive design process supported by UBCHEA (The United Board for Christian Higher Education in Asia) and collaboration with many external parties. We also would like to thank UN-Habitat and JICA (Japan International Cooperation Agency) that have supported the Faculty of Engineering and Planning, Petra Christian University in several projects such as:

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- Service Learning of Inclusive Design for Homes and Schools in Surabaya and Bandung, Participatory Design and Campaign (with UBCHEA, Aug 2015 – July 2016).
- Data collection survey on disability and development in Indonesia (with the Japan International Cooperation Agency/ JICA, June 2015 – Sept 2015).

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Soli Deo gloria

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Dr. Arina Hayati, S.T., M.T.

Arina Hayati is now an assistant professor at the Department of Architecture, Faculty of Civil, Planning, and Geo Engineering, Institut Teknologi Sepuluh Nopember (ITS). As a lecturer and researcher with physical disability, her research explores the link between architecture and disability with an insider's perspective focusing on the field of architecture and Environment Behaviour Study (EBS), Inclusive Design and Universal Design. Apart from teaching, she has been involved in various research projects that were mostly funded by her university, Indonesian Ministry of Research and Technology/National Research and Innovation Agency (Kementerian Riset dan Teknologi Republik Indonesia) and Collaborative Research Grants. She had presented her research in several international meetings and conferences as invited speaker, such as: the United Nations Conference on Housing and Sustainable Urban Development (UN HABITAT III) in Quito, Ecuador; WUF 9 (World Urban Forum 9) in Kuala Lumpur, Malaysia; IDF 2019 in Jakarta Indonesia; and AIDRAN's International Conferences. Since 2018, she is one of the members of DIAUD (Disability, Inclusive, and Accessible Urban Development) Network and as Advisory Board Committee of the Australia-Indonesia Disability Research and Advocacy Network (AIDRAN). From Dec 2020 until Dec 2023, she has earned her Certified Professional in Accessible Built Environments Level I - Associate (CPABE Level I), issued by International Association of Accessibility Professionals (IAAP), a division of G3ict.

Stephen Yona Loanoto, S.T., M.Ars.

Stephen Yona Loanoto is principal Architect at SCIArchitecture, an architecture consultant based in Surabaya, Indonesia. He graduated with a Master Architecture and Bachelor in Architectural Engineering from Petra Christian University. He is also principal Architect at Samaya Plan and Build and art director for Jirolu.id (some creative goods with woods). He also a guest lecturer at Petra Christian University.

Saraswati Ayu Indhiraswari, S.Ars.

Saraswati Ayu Indhiraswari, S .Ars is the co-founder of Studio Kata. A Wedding invitation and design studio located in surabaya. She graduated with bachelor of Architecture (S.Ars.) from Petra Christian University. She is also tutoring at Petra Christian University. She tutores designs and also help some researches about inclusive designs. She is passionate about inclusive architecture and advocating disability equal rights as she participated in several research about that topic.

Ahmad Fauzi Rohman, S.Hum., M.Hum.

Ahmad Fauzi Rohman was born in Surabaya on August 24 1985. He is a person with Cerebral Palsy. His physical disability does not stop him from studying formally and informally. He graduated from SDLB-D YPAC Surabaya (1999), SMP Al Islah (2002), SMA Negeri 17 Surabaya (2005), English Department Faculty of Humanities Airlangga University Surabaya (2009), and Magister of Literary and Cultural Studies (Kajian Sastra dan Budaya) Airlangga University Surabaya (2013). He believes that learning is a lifelong process every human being must carry out and shall not stop unless the person dies. This idea motivates him to learn and study further. Since 2012, he works as a translator at Language and Multiculture Center Airlangga University. He enjoys his work as translator because every text he translates gives him new opportunities to learn and study new things.

Nadia Maya Ardiani, S.Hum.

Nadia Maya Ardiani is a translator, content writer, and storyteller. She believes that communication is a strategic form of storytelling. She graduated with a Bachelor of Arts (B.A.) in English Literature, concentrating in Cultural Studies, from Universitas Airlangga, Surabaya, Indonesia. She currently works as a Digital Content Writer in a Lithuania-based company Hostinger International, where she writes about technology and digital marketing. As a freelance translator, she is primarily involved in research, art, and cultural projects; among others are Petra Christian University and The Japan Foundation. Her experiences in the media industry have led her to be involved in various media and public relations roles, including in C2O Library & Collabtive and the Australian Consulate-General in Surabaya, Indonesia.

Living and Learning in Dignity – House, Apartment and School Design

Results of Service-Learning Course - Inclusive Design, Architecture Study Program, Petra Christian University

Samantha Isabela Ongkowijoyo, S.Ars.

Samantha Isabela Ongkowijoyo is a fresh graduate architect who is passionate about architecture and urban design with humanitarian participatory planning approach. She has been involved in many social services and she has the urge to improve other people's life qualities. She believes that everyone can make the world a better place with their own field of study, and she is planning to do so with her developing architectural thinking.

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