Application of **Universal Design** in the Built Environment

Editors: Asiah Abdul Rahim Ismawi Hj Zen









Application of Universal Design in the Built Environment

Editors: Asiah Abdul Rahim Ismawi Hj. Zen



INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

Published by: IIUM Press International Islamic University Malaysia

First Edition, 2011 ©IIUM Press, IIUM

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise without any prior written permission of the publisher.

Perpustakaan Negara Malaysia

Cataloguing-in-Publication Data

Asiah Abdul Rahim & Ismawi Hj. Zen: Application of Universal Design in the Built Environment

ISBN: 978-967-418-205-2

Member of Majlis Penerbitan Ilmiah Malaysia – MAPIM (Malaysian Scholarly Publishing Council)

Printed by : **HUM PRINTING SDN. BHD.** No. 1, Jalan Industri Batu Caves 1/3 Taman Perindustrian Batu Caves Batu Caves Centre Point 68100 Batu Caves Selangor Darul Ehsan

TABLE OF CONTENTS

Chapter	Title	Page
	Preface	vii
	Acknowledgement	viii
1	Universal Design and Access Audit Asiah Abdul Rahim and Nur Amirah Abd Samad	1
2	Malaysian Standards, Other Regulations for People with Disabilities, and the Future Direction Asiah Abdul Rahim, Ismawi Hj.Zen, and Nur Amirah Abd Samad	19
3	Accessible Building Design: Transportation Buildings - Case Studies of LRT Station of Bandar Tasik Selatan, Ferry Jetty of Penang, and Ferry Jetty of Pangkor Island Muna Hanim Abdul Samad, Asiah Abdul Rahim, NurAmirah Abd Samad, Wan Mariah Wan Harun, and Zulkefle Ismail	35

Chapter	Title	Page
4	Recreational Park for All Taman Rekreasi Kiara, Kuala Lumpur Saodah Wok and Ardi Herman Mohd Mardzi	55
5	Accessibility for People with Disabilities (PwDs) within Housing Area Aniza Abu Bakar and Norliza Muhamad	88
6	Provision of Barrier-Free Environment at Waterfront Development in Malaysia Shuhana Shamsuddin, Fadzidah Abdullah, Ruzita Mohd. Amin, Sulzakimin Mohammad, and Che Raiskandar Che Rahim	114
	Glossary	148
	References	151

CHAPTER 3: ACCESSIBLE BUILDING DESIGN: TRANSPORTATION BUILDINGS – CASE STUDIES OF LRT STATION OF BANDAR TASIK SELATAN, FERRY JETTY OF PENANG, AND FERRY JETTY OF PANGKOR ISLAND

Muna Hanim Abdul Samad, Asiah Abdul Rahim, NurAmirah Abd Samad, Wan Mariah Wan Harun, and Zulkefle Ismail

INTRODUCTION

On December 13, 2006, the United Nations formed the Convention on the Rights of Persons with Disabilities Convention to protect and enhance the rights and opportunities of the world's estimated 650 million disabled people. Many countries sign up to the convention and agree to adopt national and enact laws so that persons with disabilities would have equal rights to education, employment, and cultural life; the right to own and inherit property; not be discriminated against in marriage, children, etc; not be unwilling subjects in medical experiments (United Nation, 2006).

The main aim is to ensure that PWDs are able to live an independent life and partake totally in all aspects of life, and have access, on an equal basis with others, to the physical environment, to transportation, to information and communications, including information and communication technologies and systems, and to other facilities and services open or provided to the public, both in urban and in rural areas. Estimates of worldwide and country-wide numbers of individuals with disabilities are problematic due to the varying approaches taken to defining disability. However, in