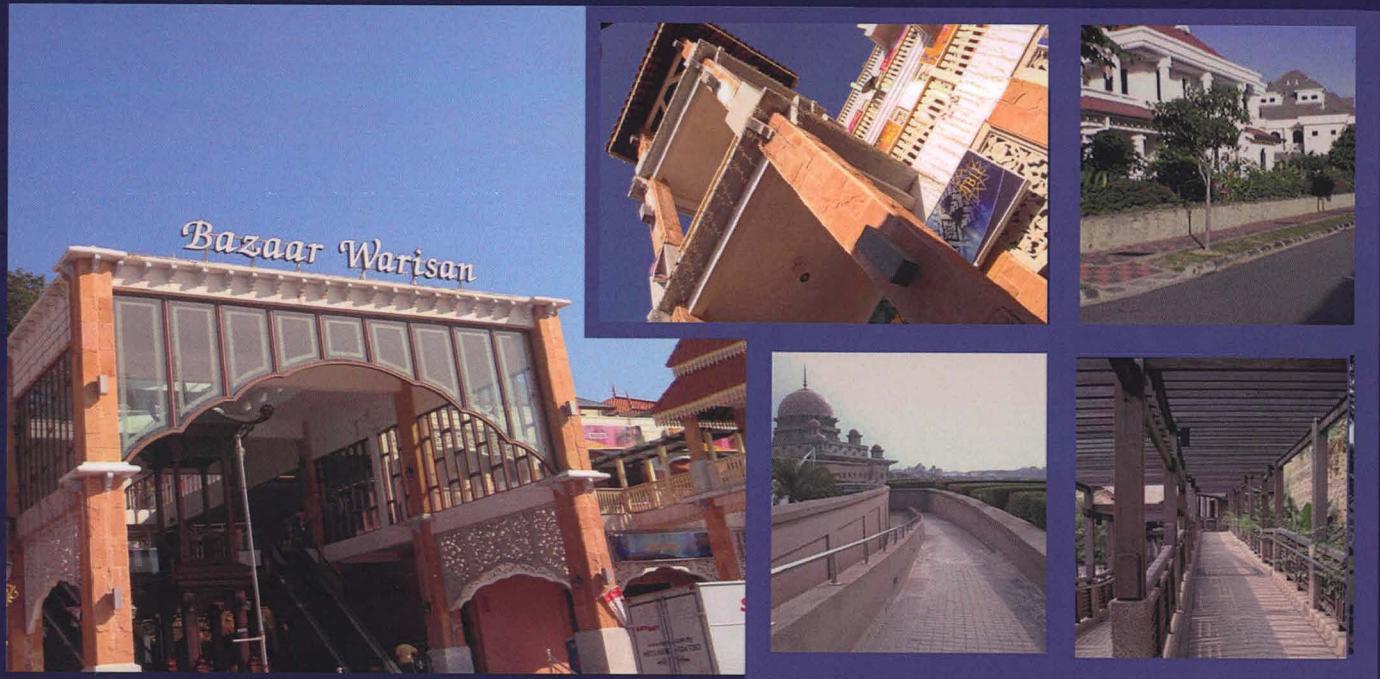


UNIVERSAL DESIGN



ASIAH ABDUL RAHIM ■ MANSOR IBRAHIM ■ ISMAWI HJ ZEN
IZAWATI TUKIMAN ■ MOHD RAMZI MOHD HUSSAIN



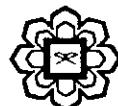
IIUM PRESS
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

UNIVERSAL DESIGN

**PHILOSOPHY AND SELECTED APPLICATIONS IN
MALAYSIA**

EDITORS

ASIAH ABDUL RAHIM – MANSOR IBRAHIM – ISMAWI ZEN



IIUM PRESS
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

Published by:
IIUM Press
International Islamic University Malaysia

First Edition, 2011
© IIUM Press, IIUM

Individual contributors copyright © Jim Harrison, Asiah Abdul Rahim, Farjana Rahaman, Junaidah Hashim, Saodah Wok, Ch'ng Gaik Bee @ Dalilah Bee Abdullah, Norwina Hj. Nawawi, Shuhana Shamsuddin, Siti Fatimah Hani Bilyamin , Mansor Ibrahim, Saliza Samiran, Syazwani Abdul Kadir, Mariam Jamaludin, Nurul Syala Abdul Latip, Nur Syaza Mohd. Zubir

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.

Asiah Abdul Rahim

Universal design: philosophy and selected applications in Malaysia
Asiah Abdul Rahim

ISBN : 978-967-418-130-7

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

Printed by:
IIUM 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

Contents

Figures	vii
Tables	ix
Contributors	x
Preface	xii
Foreword	xiv
1 Universal design philosophy <i>Jim Harrison</i>	1
2 Workplace accessibility to disabled employees in Malaysia <i>Junaidah Hashim, Saodah Wok and Asiah Abdul Rahim</i> (3062/10785)	11
3 The concept of barrier free in health care spaces <i>Norwina Hj. Nuwawi</i> (2915/10789)	20
4 Implementation of universal design by the Kuala Lumpur City Hall, Malaysia <i>Ch'ng Gaik Bee @ Dalilah Bee Abdullah</i>	30
5 Factors influencing walkable in city centre of Kuala Lumpur <i>Shuhana Binti Shamsuddin and Siti Fatimah Ilani Binti Bilyamin</i>	43
6 Universal design in waterfront development <i>Nurul Syala Abdul Latip and Shuhana Shamsuddin</i>	54
7 Public buildings' compliance to Malaysian standards for accessibility and universal design in Putrajaya, Malaysia <i>Syazwani Abdul Kadir and Mariam Jamaludin</i>	64
8 Designing inclusive educational space for autistic children <i>Farjana Rahaman and Asiah Abdul Rahim</i> (3061/10005)	70
9 Disabled facilities in the higher learning institution of International Islamic University Malaysia (IIUM), Gombak Campus, Kuala Lumpur <i>Mansor Ibrahim and Saliza Samiran</i>	84
10 Provision of facilities for learning disabled students in secondary schools: a case study of SMK Putrajaya Precint 11 (1) <i>Mansor Ibrahim and Nur Syaza Mohd Zubir</i> (5208/10010)	96
Conclusion	112
Bibliography	116