



Vol. 2 No.2 2023

ISSN 2948-4057 / eISSN 2948-4049

INTERNATIONAL
JOURNAL
BORNEO ENGINEERING &
ADVANCED MULTIDISCIPLINARY
(BEAM)

POLITEKNIK MUKAH, SARAWAK

eISSN 2948-4049



**BORNEO ENGINEERING & ADVANCED
MULTIDISCIPLINARY INTERNATIONAL JOURNAL
(BEAM)**



POLITEKNIK MUKAH SARAWAK

BORNEO ENGINEERING & ADVANCED MULTIDISCIPLINARY INTERNATIONAL JOURNAL (BEAM)

Fifth Edition 2023 | 1 November 2023
First Printed 2022

© Research, Innovation & Commercialization Unit Politeknik Mukah

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, scanning, or otherwise, except as permitted by Director of Politeknik Mukah.

Published by,

Politeknik Mukah,
KM 7.5, Jalan Oya,
96400 Mukah, Sarawak
Telephone No: 084-874001
Fax No: 084-874005

TABLE OF CONTENTS

Paper ID	Title	Pages
ID 0140	Smart Automatic Black Pepper Drying Tray with IoT Using Wemos <i>Chen Wong Keong</i>	1-7
ID 0139	Preliminary Study on Response of Different Water-Cement Ratio and Curing Conditions on Concrete Properties <i>Nurriswin Jumadi, Nadia Razali, Nadlene Razali</i>	8-14
ID 0111	Research of Innovation Smart Sensor Floating Trash Trap <i>Juhaidie Zamani Jamaludin</i>	15-18
ID 0074	A Discrete Event Simulation Case Study of Energy Consumption and Time Required for Medium Voltage Power Cable Manufacturing <i>Saipul Azmi Mohd Hashim, Norrizal Abdul Razak, Azira Adnan, A Azman Ahmad</i>	19-30
ID 0079	A Study of Customer Service Competencies and Service Quality of Tour Guide <i>Emirudziawati Juni, Ida Juliana Hutasuhut</i>	31-40
ID 0068	Attainment of The Program's Educational Objectives (PEO) among Community College Students in The Field of Civil Engineering & Built Environment as Semi-Skilled Workers <i>Rabeah Md Zin, Nur Angriani Nurja, Mohd Arami Md Jais</i>	41-47
ID 0078	Factors Affecting the Acceptance of E-Learning Among Students Diploma in Finance and Banking, Polytechnic Metro Betong Sarawak <i>Hasimah Salleh, Siti Hudzimah Bujang</i>	48-52
ID 0059	E-book Acceptance in DBC20012 Computer Application Classroom <i>Noor Farazila Radzi, Hashamuddin Ya'akob</i>	53-56

ID0067	The BINTANG 2022 Programme's Effects on Students <i>Nur Angriani Nurja, Ismawati Beddu, Fadli Bacho</i>	57-61
ID0144	Potential of Recycled Polystyrene and Xylene Liquid for A Wood Glue: A Comparative Study <i>Nur Adibah Raihan Affendy, Muhamad Nur Arsh Mohamad Basir, Suhaimi Sibir</i>	62-66
ID0137	Course Content in LMS: Unveiling User Satisfaction During COVID-19 Pandemic <i>Siew Min Hui, Yong Hua Ying, Kumar Boniface Jubilee</i>	67-74
ID0134	Using Digital Comprehension to Improve Reading Comprehension Skills among Year 6 Pupils <i>Mohd Nur Hifzhan Noordan, Aeida Nurhafidzah Zahili</i>	75-80

PREFACE

Borneo Engineering & Advanced Multidisciplinary International Journal (BEAM) is a peer-reviewed journal that publishes original theoretical and applied papers on all aspects of Engineering, Management, Business, Accounting, educations, IT and Linguistics to publish high-quality papers and references. The topics to be covered include, but are not limited to quantitative, qualitative, and hybrid research on new approaches to using technology to improve learning, design, and educational results. Articles on applied theory in educational practice, as well as practical applications of research, current policy initiatives and research evaluations, theoretical, pedagogical, and methodological challenges relating to educational technology, are all welcome. This journal is an open access journal that provides an online publication (published twice a year). I would also like to congratulate and thanks all individuals exclusively to technical and editorial boards for their interest and strong support to this publication.

Best wishes,

Dr. Habsah binti Mohamad Sabli

Chief Editor, **BEAM International Journal**

BORNEO ENGINEERING & ADVANCED MULTIDISCIPLINARY INTERNATIONAL JOURNAL (BEAM)

Editorial Advisor

Hisamudin bin Mohd Tamim

Iskandar bin Reduan

Sophian bin Sout

Chief Editor

Dr. Habsah binti Mohamad Sabli

Assistant Chief Editor

Ts. Dr. Muhammad Sufyan Safwan bin Mohamad Basir

Technical Editor

Ts. Dr. Chen Wong Keong

Ts. Dr. Bong Siaw Wee

Dr. Nur Adilla binti Kasim

International Advisory Board

Prof. Ir. Dr. Rizalafande bin Che Ismail (Universiti Malaysia Perlis, Malaysia)

Prof. Dr Mohammad bin Ismail (Universiti Malaysia Kelantan, Malaysia)

Dr. Yusri bin Yusof (Universiti Tun Hussein Onn Malaysia, Malaysia)

Dr. Ashley Tong (Curtin University, Singapore)

Ts. Dr. Mohd Effendi @ Ewan Mohd Matore (Universiti Kebangsaan Malaysia, Malaysia)

Dr. Nyayu Latifah Husni, S.T., M.T. (Politeknik Negeri Sriwijaya, Indonesia)

Dr. Nelson Lajuni (Universiti Malaysia Sabah, Malaysia)

Dr. Sari Lestari Zainal Ridho, S.E., M.Ec., CHE (Politeknik Negeri Sriwijaya, Indonesia)

Dr. Zulkefle bin Ismail (Universiti Teknologi Brunei, Brunei)

Dr. Yusman bin Yacob (Universiti Teknologi Mara, Malaysia)

Dr. Nico Irawan (Rajamangala University of Technology Krungthep, Thailand)

Assoc. Prof. Dr Ugi Suharto M.Ec (University of Buraimi, Oman)

Editorial Board

Dr. Muhd Nazmi bin Ismail

Dr. Norhaslin binti Hassan

Dr. Zinvi Fu

Mawarnie binti Ismail

Yong Hua Ying

Sara Ruran Fabian

Copyeditor Team

Richard bin Simon

Kamaludin bin Deni

Lynne anak Collin

Aeida Nurhafidzah binti Zahili

Nur Riana binti Abdul Rahim

Mohammad Shafiq bin Mohamed Nasaruddin

Webmaster

Muhammad Thariq bin Abdul Razak

Ag. Aswan bin Ag. Mohd Kassim

Josena Joseph Toyat

Muhamad Azizi bin A. Rahman



**UNIT PENYELIDIKAN
INOVASI & KOMERSIALAN**

POLITEKNIK MUKAH, SARAWAK
KM 7.5, JALAN OYA, 96400, MUKAH, SARAWAK