

2019

## ACADEMIC INTELLECTUAL INTERNATIONAL INVENTION,

INNOVATION & DESIGN BOOK

Published by: Student Affairs Department,

Universiti Teknologi MARA Kedah,

P.O. Box 187, 08400 Merbok, Kedah, Malaysia.

Patron : Dr. Wan Irham Ishak

Dr. Abd Latif Abdul Rahman

Project Manager : Yazwani Mohd Yazid

Design Director : Mohd Hamidi Adha Mohd Amin

Fadila Mohd Yusof

Editorial Director : Mohd Hamidi Adha Mohd Amin

Mas Aida Abd Rahim

Copyright © 2019 Student Affairs Department, Universiti Teknologi MARA Kedah. No part of this publication may be reproduced, stored in retrieval system, or transmitted in any form or by means, electronic, mechanical, photocopying, recording, or otherwise, without the prior permission of the publisher.

ISBN: 978-967-0314-71-6

Printed by: Perpustakaan Sultan Badlishah,

Universiti Teknologi MARA Kedah,

P.O Box 187, 08400 Merbok, Kedah, Malaysia.

89.	Dadu BiMate TJI: AN INNOVATION OF BOARD GAME FOR FUN AND	91
	EFFECTIVE NUMBER, BASIC OPERATIONS AND BASIC MEASUREMENT	
	FACTS LEARNING IN PRIMARY MATHEMATICS	
90.	ANICARE	92
91.	PEMPEK BO SANG (FISHCAKE MADE OF BANANA'S FLORAL STEM)	93
92.	EXAMINATION MANAGEMENT SYSTEM (EXAMS)	94
93.	KLEAN	95
94.	MUSON (MUSHROOM NOODLE) INNOVATION OF HEALTHY FOOD	96
	PRODUCTS FROM OYSTER MUSHROOMS WITH NEW INNOVATION AS A	
	POTENTIAL BUSINESS OPPORTUNITY IN PUBLIC SECURITY	
95.	TENAGA GUNA SEMULA (TEGUSE)	97
96.	ANALISIS PUNCA MASALAH PEMBELAJARAN OPERASI TOLAK	98
	DALAM LINGKUNGAN 10 DAN KEUPAYAAN BITOBI MATCH-UP	
	DALAM MENGATASI MASALAH: KAJIAN RINTIS	
97.	IMPROVING STUDENTS AWARD SELECTION PROCESS THROUGH THE	99
	DEVELOPMENT OF AKSIS (ANUGERAH KECEMERLANGAN SISWA) WEB	
	INFORMATION SYSTEM	
98.	IMPROVING RECORDS' MANAGEMENT PRACTICES VIA	100
	ATTENDANCE MONITORING SYSTEM (AMOS)	
99.	DELAT ADLER: THE PORTABLE AND VERSATILE ELECTRCITY GENERATOR.	101
100.	DISASTER E-DRONE PREVENT INCREASING OF VICTIM ENGLISH!	102
101.	SPEAK UP SYSTEM	103
102.	H-BALM: HARUMANIS-BASED RELIEVING PRODUCT	104
103.	H-CUBE: INNOVATIVE HARUMANIS PERLIS PRODUCT	105
104.	DARE TO INVEST: CREATIVE MIND AND INNOVATIVE IDEA	106
105.	POLYVALENT CARREL	107
106.	Ezi4BANNER 2.0	108
107.	RANGGU "THE NATURAL COLOUR"	109
108.	SMART EMERGENCY DRONE FOR MANAGEMENT OF DISASTER	110
109.	SMARTOVATION YUZA WITH LONG DEPENDABLE WIRES	111
110.	THE CONVERSION OF THERMOELECTRIC ENERGY INTO ELECTRICAL	112
	ENERGY IN APPLICATION OF DEREM CHARGER	
111.	TEH HARUMANIS PERLIS	113
112.	·	114
113.	RECYCLE BIN: WASTE BUSINESS PLATFORM TO IMPROVE	115
	SCAVENGER'S CHILDREN EDUCATION BASED ON MOBILE APPLICATION	
114.	SMART WUDHUK	116
115.	CAPTION (CANTILEVER PIEZOELECTRIC ENERGY HARVESTER	117
	WITH ENERGY BANK SYSTEM FOR FISHERMAN) AS AN ALTERNATIVE	
	TECHNOLOGY INNOVATION TO OPTIMIZE MARITIME ENERGY RESOURCES	
116.	AUTO WATER RECLOSE	118
117.	WIRELESS AIR POLLUTION DETECTOR (MAGIC NOZZ)	119
118.	E-CAMFINDER LEARNING APPLICATION	120
119.	ROTARY GRILL-gen2	121
120.	GARBARGAIN: A SOLUTION FOR PRA-PROSPEROUS COMMUNITIES	122
	BY EXCHANGED GARBAGE TO GET THE SUITABLE LEFTOVER FOOD	



## **EXAMINATION MANAGEMENT SYSTEM (EXAMS)**

Muhammad Fahmi Mohd Adzmi, Muhamad Badrul Amin Che Husin, Siti Nor Arifah Abd Halim, Izzatil Husna Arshad, and Mohamad Rahimi Mohamad Rosman

Universiti Teknologi MARA (UiTM) Kelantan, Malaysia

fahmiadzmi1@gmail.com

The Examination Management System (EXAMS) is a system created with the objectives to assist various types of users to manage and monitor the examination activities. Initially, it was reported that invigilators find difficulties in checking examination schedule as there was limited online platform, as well as attendance of invigilators and students are recorded manually by filling paper-based forms. Therefore, users (invigilators and students) can benefited from the system by being able to monitor the examination schedule through online platform anywhere. The attendance of invigilators and students are also recorded for each examination session. Furthermore, invigilators can generate reports for any issues during the examination. Next, invigilators can use this system to manage their duties such as exchanging duties, if needed. This system could also impact to promote part-time job opportunities, whereby the external users (not the staff or students of the universities / colleges) to apply as assistant exam invigilators. Thus, this system is relevant to any educational institutions that practice examinations as part of their teaching and learning activities to measure students' performance. Examinations activities eventually can be managed at ease and evidence of each examination session are kept digitally. This will ensure users' satisfactions by having productive works which equipped with user friendly interface.







