



# ABSTRACT

UITM KEDAH  
**Indelible**  
International Innovation & Design in Library & Information Science Competition  
2018

EMPOWERING INFORMATION SOCIETY THROUGH INNOVATION

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UNIVERSITI  
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PERPUSTAKAAN  
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## TABLE OF CONTENTS

### Division: Invention

Title	Page Number
Hub Digital, Universiti Malaysia Perlis	1
Research Hub: Increasing University Visibility Towards Global Prominence	3
Jom Baca Perlis @Grab	5
Speak Up Guide: Bidayuh Dialect	7
MOZART 2.0	9
Smart Reflib One Search	11
Library Of Future	13
Fun Hijaiyah	14
Multi-Box (Personal Room)	15
Reading In Between Nook And Cranny	16
Smart Chair	17
Rak Semarak Ilmu	18

### Division: Innovation

Title	Page Number
Massive Open Online Course (MOOC) For Jom Cari Maklumat @Perpustakaan : A New Tune To Engage With Usm Undergraduates Students	19
Elib2u	21
Knowledge Ecosystem Using Corporate Taxonomy	22
Personal Digital Repository Using Greenstone	23
Touch Lib	24
Elite Exercise	26
Interactive Media For Autism Students	28
Smart Carrel	29
Maverick Kiosk Book Drops	30
Whiteboard Desk Tab (Wdt)	31
Easy Pass (Ezpa)	32
Smart E-Shelf	33
Flipping Table With Desktop	34
Foosta Sekken	35
Eco-Dustbin A9	36
Augmented Library (Arlib)	37
Modo	38
Never Left Behind Chair	39
Bedti (Multifunction Bed)	40
Smart Table	41
Auto Bookshelf	42

# **INNOVATION**



## ECO-DUSTBIN A9

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### Abstract

Eco-Dustbin A9 produces to society and country for globalization era as there many of things that using smart system to develop to other things. This dustbin provided five of part in it such as for aluminum waste, plastics, glass waste, sanitary napkin and paper .As waste management operating all over the world attempt to become more cleaner and greener ,the desire to innovate or create dustbin as a smart system become more complex. Eco-Dustbin A9 is made using IOT sensors which is able to detect changes in an environment, that can detect the amount of waste presenting the dustbin through the notified from ultrasonic sensor (sensor's measure the distance target object through the air using non-contact technology) .Thus, the merging with microcontroller is needed since the output of level detector is given to it and to implement as a smart dustbin built on a microcontroller .With this project it can reduce the problem of trash filled up and over flowing bins that are not managed well .Therefore, this innovation of the dustbin assist people to aware of environment a round them through the sophistication of this project .

How the Internet of Things Works?

The Internet of Things (IoT), also sometimes referred to as the Internet of Everything (IoE), consists of all the web-enabled devices that collect, send and act on data they acquire from their surrounding environments using embedded sensors, processors and communication hardware.

Novelty and uniqueness:

- Has an automatic sensor that allows the material to be divided by category.
- Its can divide materials by categories weather recyclable or not.

**Keyword:** Digital Dustbin, and Eco Dustbin

**Potential commercialization:** Academic Institution, Shopping Mall, and Government Institution

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Division : **Innovation**  
Category : **C**



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