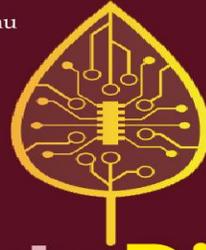




UNIVERSITI  
TEKNOLOGI  
MARA

Cawangan Terengganu  
Kampus Kuala Terengganu



# GDIID2023

REVOLUTIONIZING THE FUTURE WITH DIGITAL CREATIVITY

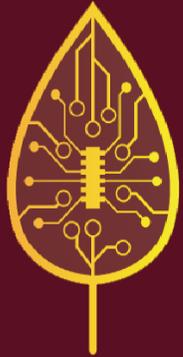
## Third Graduate **Digital** Invention, Innovation & Design

# RESULTS



UNIVERSITI  
TEKNOLOGI  
MARA

Cawangan Terengganu  
Kampus Kuala Terengganu



# GDII 2023

REVOLUTIONIZING THE FUTURE WITH DIGITAL CREATIVITY

## Third Graduate **Digital** Invention, Innovation & Design



### CATEGORY A: SCIENCE AND TECHNOLOGY





## DIAMOND AWARD



**4127**

CU-NI/TIO<sub>2</sub> NANOFIBERS WITH IMPROVED PHOTOCATALYTIC PERFORMANCE UNDER UV AND VISIBLE LIGHT IRRADIATION

## PLATINUM AWARD



**4102**

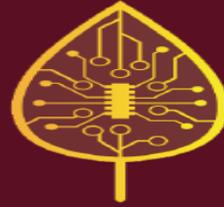
EMPOWERING QUANTUM TECHNOLOGIES: NOVEL RAMAN COUPLER FOR SQUEEZED LIGHT

## BEST VIDEO AWARD



**4127**

CU-NI/TIO<sub>2</sub> NANOFIBERS WITH IMPROVED PHOTOCATALYTIC PERFORMANCE UNDER UV AND VISIBLE LIGHT IRRADIATION



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4127**

CU-NI/TIO<sub>2</sub> NANOFIBERS WITH IMPROVED PHOTOCATALYTIC PERFORMANCE UNDER UV AND VISIBLE LIGHT IRRADIATION

**4102**

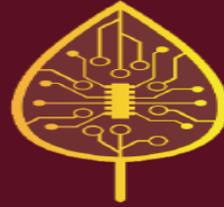
EMPOWERING QUANTUM TECHNOLOGIES: NOVEL RAMAN COUPLER FOR SQUEEZED LIGHT

**4000**

SMART TEACHING AND LEARNING : I-TEACH U-LEARN (I-TUL)

**4054**

EXPLORING AUGMENTED REALITY TO PRESERVE HERITAGE HOUSE OF MALAYSIA



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4116**

SMART INSOLE SHOES

**4075**

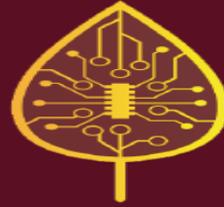
IOT MONITORING OF A MASTER-SLAVE ROBOT USING MIT APP INVENTOR

**4094**

ECO-BRELLA

**4001**

ROBOTIC GUIDE FOR THE BLIND WITH BLUETOOTH AND OBSTACLE AVOIDANCE  
USING ARDUINO



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4028**

2D INTERACTIVE COMIC: LIFE BELOW WATER

**4061**

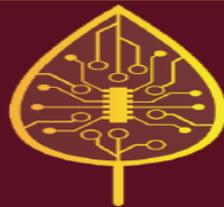
NATURAL FIBRE COMPOSITE FOR TRUCK BODY PANEL- BASALT FIBRE AND NANO SILICA

**4005**

BIDONG ISLAND HAWKSBILL TURTLES' EVOLUTION

**4113**

3A SMART WARM BLANKET



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4073**

DESIGN AND DEVELOPMENT OF MYSIGN: MALAYSIAN SIGN LANGUAGE LEARNING APPLICATION WITH IMAGE RECOGNITION (CNN)

**4027**

AN INTERACTIVE COMIC: THE DARKSIDE OF BEAUTY

**4020**

MYSIMS: A HYBRID APPLICATION OF FACE RECOGNITION AND TUITION MANAGEMENT SYSTEM

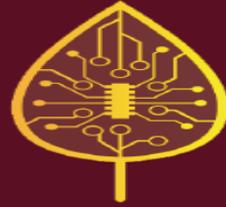
**4062**

ZEDY WESTERN FOOD DELIVERY WITH MOBILE GEOLOCATION SHARING



UNIVERSITI  
TEKNOLOGI  
MARA

Cawangan Terengganu  
Kampus Kuala Terengganu



**GDII 2023**

REVOLUTIONIZING THE FUTURE WITH DIGITAL CREATIVITY



**CATEGORY A: SCIENCE AND TECHNOLOGY**



**4019**

**AR TMI: AN AUGMENTED REALITY (AR) IN LEARNING THALASSAEMIA FOR HIGH SCHOOL STUDENTS**

**4087**

**SURFSPHERE: ALL-IN-ONE PLATFORM FOR SURFING COMPETITION**



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4124**

E-LEARNING TAJWID (E-TAJWID) MULTIMEDIA COURSEWARE AMONG ELDERLY WITH HEARING IMPAIRED

**4126**

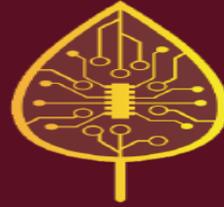
MODELLING THE PRODUCTION OF ELECTRICITY IN MALAYSIA USING AUTO REGRESSIVE INTEGRATED MOVING AVERAGE (ARIMA) MODEL

**4114**

SMART KIDS' ANTHROPOMETRY WITH DIGITAL DISPLAY

**4052**

BEE ADVENTURE: AN AR ENGLISH GRAMMAR GAME FOR PRIMARY SCHOOL STUDENTS



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4053**

CLOUD STORAGE FILE MANAGEMENT WEB APPLICATION WITH CRYPTOGRAPHY

**4063**

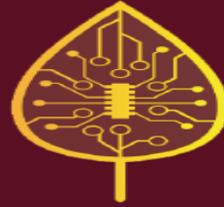
INTERPOLATION OF QUASI-CUBIC, QUASI-QUARTIC AND QUASI-QUINTIC TRIGONOMETRIC BÉZIER CURVES WITH APPLICATION ON RECONSTRUCTING THE OUTLINES ART OF ARABIC CALLIGRAPHY

**4089**

HOMESMARTRON: EXPLORING THE IOT-POWERED FUTURE OF SMART LIVING

**4128**

MOBILE COMMERCE: REVOLUTIONIZING SHOPPING EXPERIENCES WITH PERSONALISED RECOMMENDATION IN AUGMENTED REALITY



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4023**

AIRCRAFT INSPECTION THROUGH VIRTUAL REALITY TECHNOLOGY

**4025**

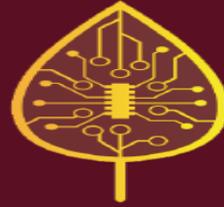
VR TOUR OF BABA & NYONYA HERITAGE HOUSE MUSEUM

**4090**

DEWAN KENANGAN TUN ABDUL RAZAK COURT BOOKING SYSTEM

**4118**

GREEN BIOFILM ELECTROLYTE FOR A SAFER BATTERY



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4050**

EMPOWERING JOURNEYS: A 3D GAME FOSTERING SELF-DETERMINATION AND RESILIENCE

**4045**

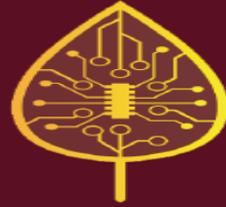
BEYOND BOUNDARIES: TELEHEALTH MULTI-DOMAIN INTERVENTION IN REVERSING COGNITIVE FRAILTY AMONG OLDER PEOPLE

**4059**

INTERACTIVE GAME-BASED THERAPY FOR OBSESSIVE COMPULSIVE DISORDER (OCD) TO HELP CALM THEIR ANXIETY

**4036**

DEVELOPMENT OF DATA RECORDING SYSTEM FOR COMPRESSED NATURAL GAS



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4092**

PNEUMONIA DETECTION SYSTEM USING CONVOLUTIONAL NEURAL NETWORK

**4091**

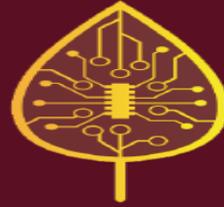
PODIAWEAR

**4121**

CAMPCOOL PRO

**4031**

UNIKL MIIT VR CAMPUS TOUR: INTERACTIVE VIRTUAL REALITY TO ENGAGE WITH PROSPECT STUDENTS



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4082**

MOVE, ELECTRONIC AND ROBOT (MOVE.ER)

**4103**

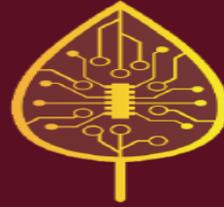
IMPLEMENTING BUSINESS ANALYSIS FOR PRODUCT SALES DATA PRESENTED FOR  
DMB SDN. BHD

**4004**

AR- KNOW MORE ABOUT BETTA

**4021**

AWANG : AN INTERACTIVE COMIC ON DEFORESTATION



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4083**

TELECOMMUNICATION COMPANY REPUTATION SENTIMENT ANALYZER

**4041**

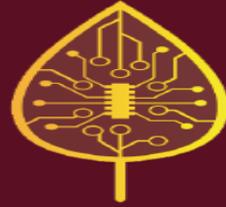
MOBILE APPLICATION DEVELOPMENT FOR CLINIC MANAGEMENT SYSTEM USING CBQ AND LINKEDLIST

**4129**

CLOTH STORE LOCATOR BASED ON LOCATION BASED SERVICE

**4125**

X25 SUPER MIXER



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4097**

**RUNNING-PRO SHOES**

**4060**

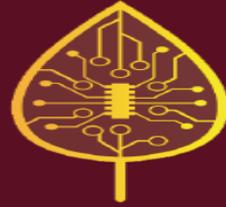
**BREAST CANCER PREDICTION USING RANDOM FOREST ALGORITHM**

**4096**

**AUTOMATIC PARKING FEE CALCULATION USING LICENSE PLATE RECOGNITION SYSTEM**

**4095**

**FLOOD DAMAGE PREDICTION SYSTEM**



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4079**

POCCASAFE VOL. 2

**4107**

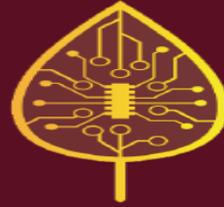
WET-TO-DRY DISPENSER

**4104**

E-WASTE BIN

**4081**

AGROLIZER



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4003**

DEVELOPMENT OF PMINEREC WEB PORTAL

**4093**

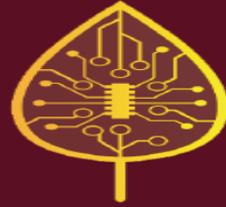
ABELLA HONEYCOMB

**4007**

INVENTORY CONTROL AND MANAGEMENT FOR FAMILY BUNDLE HOME OF CLOTHING USING PREDICTIVE ANALYTIC AND ABC ANALYSIS

**4024**

MASK\_CARE: FACE MASK DISPOSAL SYSTEM



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4106**

SALES TRENDS PREDICTION ANALYSIS MODEL USING CLASSIFICATION TECHNIQUE FOR KALA SENTRAL

**4109**

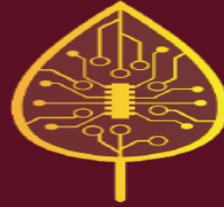
WAIPRO

**4046**

SOCIAL ENGINEERING PREVENTION TRAINING MODULE FOR UNIVERSITY STUDENTS

**4100**

THE EFFECT OF RUNGE-KUTTA IN ADAMS-BASHFORTH METHOD FOR SOLVING FIRST ORDER ORDINARY DIFFERENTIAL EQUATION



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4037**

IMPROVEMENT OF PIPE WALL THICKNESS CALCULATION SYSTEM

**4084**

RIVER WATER QUALITY PREDICTION SYSTEM

**4002**

INVENTORY MANAGEMENT SYSTEM FOR BOUTIQUE D'RASULI WITH APPLICATION  
DEMAND FORECASTING

**4122**

SOLAR COOLANT FAN



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4098**

CUBIC TRIGONIMETRIC NU-SPLINE IN DESIGNING WAU BULAN

**4040**

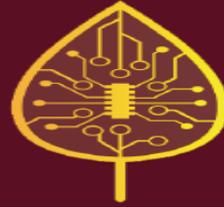
ENHANCEMENT OF WATER QUALITY USING ALOE VERA AND COCONUT HUSK AS NATURAL COAGULANT FOR SHAH ALAM LAKES MALAYSIA

**4078**

ELEVATING NEW PRODUCT DEVELOPMENT: THE TOAFFLE MULTI-PURPOSE MACHINE

**4088**

ENTANGLEMENT CLASSIFICATION: A KEY TO A PROFOUND QUANTUM TECHNOLOGIES AND APPLICATIONS



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4076**

CASING SMART

**4074**

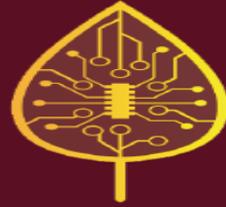
THE CUBIC TRIGONOMETRIC BEZIER CURVES IN DESIGNING 2-DIMENSIONAL MUQARNAS PATTERN

**4120**

ORGANIZATION SEARCHING SYSTEM FOR UITMKKT INDUSTRIAL TRAINING USING MULTIPLE SEARCH ALGORITHM

**4085**

AN APPLICATION OF NEUTROSOPHIC FUZZY SIMPLE ADDITIVE WEIGHTING METHOD IN SELECTING HIGHER EDUCATION INSTITUTIONS



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4101**

INTERPOLATING OF QUARTIC HERMITE SPLINE CURVE IN DESIGNING 2-DIMENSIONAL OBJECTS

**4111**

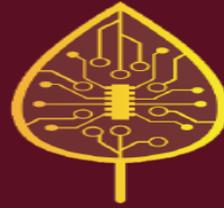
MOSQUE INFORMATION IN MOBILE APPLICATION

**4108**

MEDIBEAR

**4069**

A COMPARATIVE STUDY OF TRIGONOMETRIC BEZIER CURVE AND HYBRID TRIGONOMETRIC BEZIER CURVE TO THE MODELLING OF SYMMETRIC ROTATION SURFACE



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4018**

AR APPLICATION: WAY PREVENTION AND CONTROL OF FLIES

**4070**

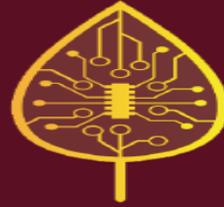
ANALYSIS STUDY OF CONJUGATE GRADIENT METHOD IN IMAGE RESTORATION PROBLEM

**4072**

SELLERS' PREFERENCES FOR ONLINE SHOPPING PLATFORM USING FUZZY AHP

**4026**

SACRED EXPEDITION: VIRTUAL REALITY ISLAMIC WARRIOR ARTIFACT IN HISTORY MUSEUM



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4077**

THREE-TERM CONJUGATE GRADIENT METHOD UNDER ARMIJO LINE SEARCH FOR  
UNEMPLOYMENT RATE IN MALAYSIA

**4112**

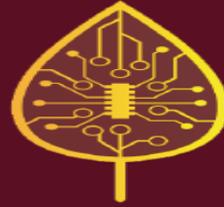
TELEGRAM E-WALLET

**4110**

TROLEYEX

**4099**

APPLICATION OF INTERPOLATION OF CUBIC TRIGONOMETRIC HERMITE INTERPOLATION  
CURVE WITH PARAMETERS IN 2 DIMENSIONAL OBJECTS



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4071**

COMPARISON OF SECANT, MODIFIED SECANT AND MODIFIED NEWTON-SECANT ITERATIVE METHODS OF SOLVING NONLINEAR EQUATIONS

**4080**

HADA PARKING V2

**4008**

PJI - CONTENT MANAGEMENT SYSTEM (PJI-CMS)

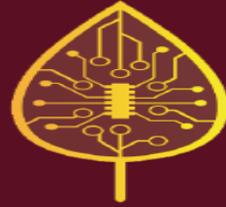
**4064**

A COMPARATIVE STUDY OF CUBIC B-SPLINE, RATIONAL CUBIC BEZIER AND RATIONAL CUBIC TIMMER CURVES WITH AN APPLICATION OF CRANIOFACIAL FRACTURES RECONSTRUCTIONS



UNIVERSITI  
TEKNOLOGI  
MARA

Cawangan Terengganu  
Kampus Kuala Terengganu



# GDII 2023

REVOLUTIONIZING THE FUTURE WITH DIGITAL CREATIVITY



## CATEGORY A: SCIENCE AND TECHNOLOGY



**4117**

APPROXIMATION OF POLYNOMIALS FUNCTION USING LAGRANGE INTERPOLATION  
METHOD ON SUICIDE RATE IN SOUTH KOREA FROM 2006 TO 2018

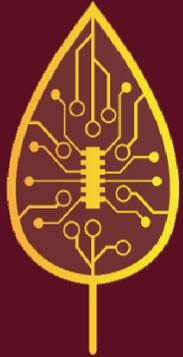
**4123**

FREEZEHEAT



UNIVERSITI  
TEKNOLOGI  
MARA

Cawangan Terengganu  
Kampus Kuala Terengganu



# GDII 2023

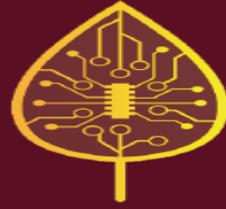
REVOLUTIONIZING THE FUTURE WITH DIGITAL CREATIVITY

## Third Graduate **Digital** Invention, Innovation & Design



### CATEGORY B: SOCIAL SCIENCE





## DIAMOND AWARD



**4038**

GIG EXCHANGE APPLICATION

## PLATINUM AWARD



**4039**

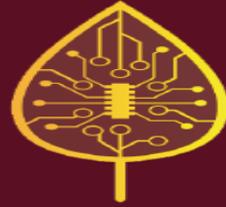
SWOP N SAVE

## BEST VIDEO AWARD



**4038**

GIG EXCHANGE APPLICATION



## CATEGORY B: SOCIAL SCIENCE



**4038**

GIG EXCHANGE APPLICATION

**4039**

SWOP N SAVE

**4047**

YOUNG RESPECT KID'S MOBILE APPS



## CATEGORY B: SOCIAL SCIENCE



**4049**

IMMERSIVE HAJJ FOR SECONDARY STUDENT IN MALAYSIA (VR)

**4042**

SHARE AND CARE

**4033**

JUSTRENT

**4006**

INTEGRATION AND DEVELOPMENT OF THREE TRADITIONAL CRAFTS FROM THE INTERCONTINENTAL PERSPECTIVE: CONTEMPORARY ETHNIC FIBER ART CREATION

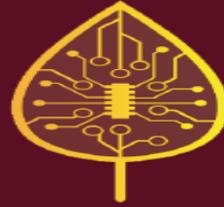
**4035**

PAYUNG



UNIVERSITI  
TEKNOLOGI  
MARA

Cawangan Terengganu  
Kampus Kuala Terengganu



**GDII 2023**

REVOLUTIONIZING THE FUTURE WITH DIGITAL CREATIVITY



**CATEGORY B: SOCIAL SCIENCE**



**4030**

THE USER EXPERIENCE DESIGN OF VIRTUAL REALITY APPLICATIONS FOR THE DIGITAL DISPLAY OF WOODEN ARCHITECTURE AND CULTURAL HERITAGE OF THE DONG NATIONALITY IN SANJIANG COUNTY, GUANGXI

**4034**

THYNK

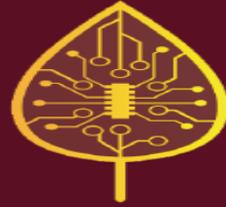
**4043**

BOOSTING STUDENT INTEREST IN HISTORY THROUGH VIDEO GAMES



UNIVERSITI  
TEKNOLOGI  
MARA

Cawangan Terengganu  
Kampus Kuala Terengganu



# GDII 2023

REVOLUTIONIZING THE FUTURE WITH DIGITAL CREATIVITY



## CATEGORY B: SOCIAL SCIENCE



**4115**

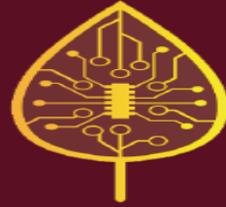
STYLISH EISHA: MUSLIMAH TRAVEL-FRIENDLY SHAWL

**4029**

2D PSA HEALTH - SPEECH DELAY AMONG CHILDREN

**4044**

RESEARCH ON DIGITIZATION PROTECTION AND INHERITANCE OF MANCHU FOLK EMBROIDERY



## CATEGORY B: SOCIAL SCIENCE



**4048**

EXPLORING ON CULTURAL AND CREATIVE PRODUCT DESIGN OF THE YUDONG  
BUHU TIGER FROM THE PERSPECTIVE OF REGIONAL CULTURE

**4051**

RESEARCH ON THE APPLICATION OF ILLUSTRATION VISUAL ELEMENTS IN CHINESE  
FOOD PACKAGING DESIGN

**4058**

EXPLORING THE INSIGHTS OF CHINESE MANCHU CULTURAL ELEMENTS IN MODERN  
FASHION DESIGN

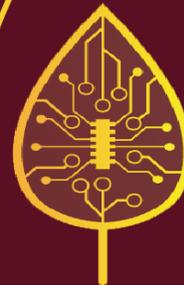
*Congratulations to all  
winners!*

*Hope to see you again in  
our future events.*



UNIVERSITI  
TEKNOLOGI  
MARA

Cawangan Terengganu  
Kampus Kuala Terengganu



**GDII 2023**

REVOLUTIONIZING THE FUTURE WITH DIGITAL CREATIVITY

**Third Graduate Digital  
Invention,  
Innovation & Design**