



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

School of  
Electrical Engineering,  
Faculty of  
Engineering



# **Annual Report on Research, Innovation, Community and Networking 2018 - 2020**

## **School of Electrical Engineering, Faculty of Engineering, UTM**

# FOREWORD BY THE CHAIR



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

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Faculty of  
Engineering



It is my pleasure to share with you this 2018 -2020 Electrical Engineering School (SKE)'s Annual Report on Research, Innovation, Community and Networking. This report showcases some of the exciting developments and achievements, illustrating SKE's commitment to research excellence, for the year 2018 -2020.

Starting 2016, SKE is overseeing 14 research groups under the auspicious of the newly named post of the ACRAS - Associate Chair (Research and Academic Staff) at SKE. In order to help the School and ACRAS to spur and manage the research at the school, improvement on the working committees related to the research and innovation activities have been done. SKE is committed to be a world class centre of excellence and a leader in teaching and learning, research and innovation within the field of electrical engineering. Steps have been taken to encourage and help staffs to obtain research grants and funding as well as to publish more in reputed and top ranking journals. Courses, seminar and workshops on ways of securing various research finding, publication in high ranking journals, as well as on knowledge sharing and research collaborative opportunities between the school and industries have been conducted throughout 2017. SKE secured research funding from various sources, winning research awards at international level and national level, granted with patents and IPR/copyright. In terms of publication, SKE's is among the most productive in the university.

I believe all school members have contributed their best effort to ensure the school achieves the best performance by producing excellent graduates, publications and research outputs. Lastly, I wish to extend my appreciation and gratitude to all SKE staff and postgraduate students who have contributed towards the SKE achievement in 2018 - 2020, and I look forward to more achievements from our staff and students in the coming years.

I hope you will enjoy reading this report. Thank you.

*Prof. Ir. Dr. Mohd. Wazir Mustafa*  
Chair  
School of Electrical Engineering  
Faculty of Engineering  
Universiti Teknologi Malaysia

# MESSAGE FROM ASSOCIATE CHAIR OF RESEARCH & ACADEMIC STAFF



School of  
Electrical Engineering,  
Faculty of  
Engineering



It is my pleasure to present the Annual Report for the School of Electrical Engineering achievement in Research, Innovation Network and Community. The report presents briefly the school's activities and achievements starting 2018 -2020 for Research Innovation Network and Community. First and foremost, I would like to express my heartiest gratitude and appreciation to all my committee for their effort and contribution for collecting the data for Research Innovation Network and Community, School of Electrical Engineering 2018 -2020.

The School of Electrical Engineering has 14 research group, one HiCoE and three CoEs. The contribution from the Research Group and Centre of Excellence bring the school to stand tall in various fields of research, consultancy, publications, networking, awards and community based projects related to the School of Electrical Engineering.

From year 2018 - 2020 SKE has managed to secure research grants under various sponsors in the public grants, private grants and international grants . In term of publications, SKE has published in index jurnal, non index jurnal, conference proceeding and books chapter. As a principle investigator of the research grants the total number of 150 academic staff in the school work as a principle investigator. For the innovation section, we have numbers of patents have been granted, patents have been filed and IPR have been registered such as copyright, trademark and industrial design. The income generation from the school comes from training, postgraduate fees, short courses, conferences, licensing, consultation and gifts. SKE also involve in MOA and MOU with various company and universities.

Lastly, I wish to thanks to all FE and SKE administrators, academicians, researchers, lecturers, staffs, students and who have contributed towards producing this report and I hope this compilation will be useful to all.

*Prof Ts. Dr. Mohamad Kamal A Rahim*  
Associate Chair (Research & Academic Staff)  
School of Electrical Engineering  
Faculty of Engineering  
University Teknologi Malaysia

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### 2019

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Thank you !!!

# COMMITTEE



**Prof. Ts. Dr. Mohamad Kamal A Rahim**  
Associate Chair (Research & Academic Staff)



**Prof. Dr. Syed Abdul Rahman SAB**  
School Representative



**Dr Mohamad Amir Shamsuddin**  
Senior Lecturer



**Dr Mohd Ariffanan Mohd Basri**  
Senior Lecturer



**Dr Mohd Rodhi Sahid**  
Senior Lecturer



**Dr Usman Ullah Sheikh**  
Facility Manager



**Dr Muhammad Ariff Baharudin**  
Senior Lecturer



**Ir Dr Michael Tan Loong Peng**  
Senior Lecturer



**Dr Shaharin Fadzli Abd Rahman**  
Senior Lecturer



**Mdm Sh. Huzaimah Syed Hussin**  
Secretary



**Dr Nik Noordini Nik Abd Malik**  
Senior Lecturer



**Mdm Azlina Mohd Lazim**  
Assistant Administrator

# Research Group (RG)



[www.fke.utm.my/arg](http://www.fke.utm.my/arg)



**1**

**Acoustic**

Head: Ir. Dr. Mokhtar Harun  
Members: 4



**2**

**Advanced RF & Microwave**

Head: Assoc. Prof. Dr. Noor Asniza Murad  
Members: 7



**3**

**Advanced Control**

Head: Prof. Dr. Zaharudin Mohamad  
Members: 16



**4**

**Telecommunication Software & System**

Head: Dr. Rozeha Abd Rashid  
Members: 8



**5**

**Bio medical & Instrumentation Electronics**

Head: Dr. Mohd Azhar Abd Razak  
Members: 14



**6**

**Computational Nanoelectronics**

Head: Ir.Dr. Michael Tan Loong Peng  
Members: 7



**7**

**Digital Signal and Image Processing**

Head: Dr. Musa Mohd. Mokji  
Members: 8



**8**

**Communication Network System**

Head: Assoc. Prof. Dr. Nurul Mu'azzah Abdul Latiff  
Members: 8

# Research Group (RG)



## 8 Lightwave Communication

Head: Dr Asrul Izam Azmi  
Members: 11



## 9 Micro Nano System Engineering

Head: AP Ir Dr Mohd Ridzuan Ahmad  
Members: 5



## 10 Power Electronics and Drives

Head: APDr Nik Rumzi Nik Idris  
Members: 11



## 11 Power Engineering

Head: Dr Mohd Hafiz Habi Buddin  
Members: 9



## 12 Process Tomography and Instrumentation

Head: Prof Dr Mohd Fu'aad Rahmati  
Members: 15



## 13 VLSI & Embedded Computing Architecture Design (Members: 8)

Head: AP. Dr. Muhammad Nadzir Marsono



## 14 Sonar Tech. & Marine Instrumentation

Head: AP Dr Nor Hisham Khamis  
Members: 4

# RESEARCH CENTRE



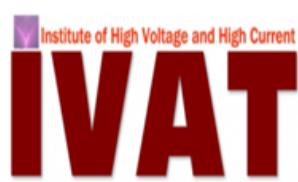
**WCC**  
WIRELESS COMMUNICATION CENTRE



**Wireless Communication Centre**  
Director: Prof. Dr. Jafri Din  
Members: 8

## Higher Institution Centre of Excellence (HiCOE)

### Centre of Excellence (COE)



**1** Institute of High Voltage and High Current  
Director: Prof Dr Zulkurnain Abdul-Malek  
Members: 9



**2** Centre of Electrical Energy Systems  
Director: Assoc Prof Ir Dr Md Pauzi Abdullah  
Members: 8



**3** Centre for Artificial Intelligence & Robotics  
Director: AP Ir Ts Dr Ahmad 'Athif Mohd Faudzi  
Members: 4

# RESEARCH GROUP MEMBERS - SINGLE DISCIPLINE

## ADVANCE RF AND MICROWAVE RESEARCH GROUP (ARFMRG)

ASSOC. PROF. DR. NOOR ASNIZA MURAD (HEAD)

PROF. TS. DR. MOHAMAD KAMAL A. RAHIM

DR. OSMAN AYOP

DR. FARID ZUBIR

DR. MOHAMAD RIJAL HAMID

DR. MOHD FAIRUS MOHD YUSOFF

DR. NOOR ASMAWATI SAMSURI

## ADVANCED CONTROL RESEARCH GROUP (ACRG)

PROF. DR. ZAHARUDDIN MOHAMED (HEAD)

PROF. DR. YAHAYA MD. SAM

DR. SHAHDAN SUDIN

DR. SOPHAN WAHYUDI NAWAWI

ASSOC. PROF. DR. ABDUL RASHID HUSAIN

ASSOC. PROF. DR. MOHAMAD SHUKRI ZAINAL ABIDIN

DR. LIM CHENG SIONG

ASSOC. PROF. DR. ROSBI MAMAT

ASSOC. PROF. IR. DR. NORHALIZA HAJI ABD WAHAB

DR. MOHD ARIFFANAN MOHD BASRI

DR. NURUL ADILLA MOHD SUBHA

ASSOC. PROF. DR. SALINDA BUYAMIN

DR. FATIMAH SHAM ISMAIL

DR. MOHAMAD AMIR SHAMSUDIN

DR. MOHD SAIFUL AZIMI MAHMUD

DR. FAZILAH HASSAN

## COMMUNICATION NETWORK SYSTEM (CNETS)

ASSOC. PROF. DR. NURUL MU'AZZAH ABDUL LATIFF (HEAD)

PROF. DR. SHARIFAH KAMILAH SYED YUSOF

ASSOC. PROF. IR. DR. SHARIFAH HAFIZAH SYED ARIFFIN

DR. KAMALUDIN MOHAMAD YUSOF

DR. NIK NOORDINI NIK ABD MALIK

DR. NURZAL EFFIYANA GHAZALI

DR. MUHAMMAD ARIFF BAHARUDIN

DR. RASHIDAH@SITI SAEDAH ARSAT

## RESEARCH GROUP MEMBERS - SINGLE DISCIPLINE

### TELECOMMUNICATION SOFTWARE AND SYSTEM (TeSS)

**DR. ROZEH A. RASHID (HEAD)**

DR. MOHD. ADIB SARJARI

MR. SAMURA ALI

DR. AHMAD SHAHIDAN ABDULLAH

DR. OMAR ABDUL AZIZ

MDM. SITI ZALEHA ABDUL HAMID

DR. YOU KOK YEOW

ASSOC. PROF. DR. MUHAMMAD NASIR IBRAHIM

### BIO-MEDICAL & INSTRUMENTATION ELECTRONICS (bMIE)

**DR. MOHD AZHAR ABDUL RAZAK (HEAD)**

MDM. MITRA MOHD ADDI

MR. ABD. HAMID AHMAD

DR. NOR AINI ZAKARIA

MR. ISMAIL ARIFFIN

MR. CAMALLIL OMAR

DR. PUSPA INAYAT KHALID

ASSOC. PROF. DR. NORLAILI MAT SAFRI

ASSOC. PROF. TS. IR. DR. NASRUL HUMAIMI MAHMOOD

DR. MOHD AFZAN OTHMAN

ASSOC. PROF. DR. EILEEN SU LEE MING

ASSOC. PROF. IR. DR. RUBITA SUDIRMAN

DR. FAUZAN KHAIRI CHE HARUN

MDM. NOR HAFIZAH RAMLI

### COMPUTATIONAL NANOELECTRONICS (CoNE)

**ASSOC. PROF. TS. IR. DR. MICHAEL TAN LOONG PENG (HEAD)**

PROF. DR. RAZALI ISMAIL

DR. NURUL EZAILA ALIAS

DR. ZAHARAH JOHARI

DR. SUHAILA ISAAK

DR. YUSMEERAZ YUSOF

DR. SUHANA MOHAMED SULTAN

DR. MUHAMMAD AFIQ NURUDIN HAMZAH

## **RESEARCH GROUP MEMBERS - SINGLE DISCIPLINE**

### **DIGITAL SIGNAL & IMAGE PROCESSING (DSIP)**

**DR. MUSA MOHD MOKJI (HEAD)**

ASSOC. PROF. DR. AHMAD ZURI SHA'AMERI

DR. ZAID OMAR

DR. USMAN ULLAH SHEIKH

ASSOC. PROF. MUHAMMAD MUN'IM AHMAD ZABIDI

PROF. DR. SYED ABDUL RAHMAN SYED ABU BAKAR

DR. AB AL-HADI AB RAHMAN

DR. SHAHIDATUL SADIAH ABDUL MANAN

### **LIGHTWAVE COMMUNICATION RESEARCH GROUP (LCRG)**

**DR. ASRUL IZAM AZMI (HEAD)**

ASSOC. PROF. IR. DR. NADIATULHUDA ZULKIFLI

DR. MOHD RASHIDI SALIM

DR. MUHAMMAD AL FARABI MUHAMMAD IQBAL

DR. ARNIDZA RAMLI

DR. AHMAD SHARMI ABDULLAH

DR. MUHAMMAD YUSOF MOHD NOOR

ASSOC. PROF. DR. NORAZAN MOHD KASSIM

ASSOC. PROF. DR. MOHD HANIFF IBRAHIM

PROF. IR. DR. ABU SAHMAH MOHD SUPA'AT

PROF. IR. DR. SEVIA MAHDALIZA IDRUS SUTAN NAMEH

### **POWER ELECTRONICS & DRIVES RESEARCH GROUPS (PEDG)**

**PROF. DR. NIK RUMZI NIK IDRIS (HEAD)**

MR. MOHD ZAKI DAUD

ASSOC. PROF. TS. IR. DR. TAN CHEE WEI

MR. NIK DIN MUHAMAD

ASSOC. PROF. DR. MOHD JUNAIDI ABDUL AZIZ

DR. MOHD RODHI SAHID

ASSOC. PROF. DR. SHAHRIN MD AYOB

ASSOC. PROF. DR. NAZIHA AHMAD AZLI

ASSOC. PROF. DR. AWANG JUSOH

DR. NORJULIA MOHAMAD NORDIN

DR. RAZMAN AYOP

## RESEARCH GROUP MEMBERS - SINGLE DISCIPLINE

### POWER ENGINEERING RESEARCH GROUP (PERG)

**DR. MOHD HAFIZ HABI BUDDIN (HEAD)**

ASSOC. PROF. TS. DR. JASRUL JAMANI JAMIAN

DR. AHMAD SAFAWI MOKHTAR

ASSOC. PROF. IR. DR. SAIFULNIZAM ABD. KHALID

DR. RASYIDAH MOHAMAD IDRIS

DR. MOHD FADLI RAHMAT

PROF. IR. DR. MOHD WAZIR MUSTAFA

DR. MADIHAH MD RASID

IR. DR. SYED NORAZIZUL SYED NASIR

### SONAR TECHNOLOGY & MARINE INSTRUMENTATION (STAR)

**ASSOC. PROF. DR. NOR HISHAM KHAMIS (HEAD)**

MR. MUHAMMAD ARIF ABDUL RAHIM

MR. KAMAL KHALIL

MR. AMERUDDIN BAHAROM

ASSOC. PROF. IR. DR. AZLI YAHYA

IR. DR. MOKHTAR HARUN

### VLSI & EMBEDDED COMPUTING ARCHITECTURES DESIGN & RESEARCH LAB (VeCAD)

**ASSOC. PROF. DR. MUHAMMAD NADZIR MARSONO (HEAD)**

MR. IZAM KAMISION

DR. ZULFAKAR ASPAR

DR. NORLINA PARAMAN

DR. ISMAHANI ISMAIL

ASSOC. PROF. DR. SHAIKH NASIR @ NASIR SHAIKH HUSIN

DR. MOHD SHAHRIZAL RUSLI

PROF. DR. ABU KHARI A'AIN

PROF. DR. MOHAMED KHALIL MOHAMED HANI

## RESEARCH GROUP MEMBERS - MULTI-DISCIPLINE

### MICRO-NANO SYSTEMS ENGINEERING (MNSE)

ASSOC. PROF. IR. DR. MOHD RIDZUAN AHMAD (HEAD)

DR. AMIRJAN NAWABJAN

DR. MASTURA SHAFINAZ ZAINAL ABIDIN

DR. SHAHARIN FADZLI ABD RAHMAN

DR. MOHD AMRI MD. YUNUS

### PROCESS TOMOGRAPHY RESEARCH GROUP AND INSTRUMENTATION (PROTOM-i)

PROF. DR. MOHD FU'A'D RAHMAT (HEAD)

ASSOC. PROF. IR. DR. MOHAMED SULTAN MOHAMED ALI

IR. DR. SHAFISHUHAZA SAHLAN

DR. KHAIRUL HAMIMAH ABAS

MR. MOHAMAD SHUKRI ABDUL MANAF

DR. YUSRI MD. YUNOS

TS. DR. ANITA AHMAD

ASSOC. PROF. DR. LEOW PEI LING

DR. MOHAMAD HAFIS IZRAN ISHAK

DR. HERMAN WAHID

ASSOC. PROF. DR. SALLEHUDDIN IBRAHIM

PROF. IR. DR. HERLINA ABDUL RAHIM

MR. NASARUDIN AHMAD

MR. AHMAD RIDHWAN WAHAP

PROF. TS. DR. RUZAIRI ABDUL RAHIM

## **RESEARCH GROUP MEMBERS - HICoE & CoE's**

### **WIRELESS COMMUNICATION CENTRE WCC (HICoE)**

**PROF. DR. JAFRI DIN (HEAD)**

ASSOC. PROF. DR. RAZALI NGAH

PROF. IR. DR. SHARUL KAMAL A. RAHIM

DR. MARWAN HADRI AZMI

ASSOC. PROF. DR. MOHD HAIZAL JAMALUDDIN

ASSOC. PROF. DR. NORHUDAH SEMAN

ASSOC. PROF. DR. LEOW CHEE YEN

MR. CHUA TIEN HAN

PROF. DR. THAREK ABDUL RAHMAN

### **CENTER OF ELECTRICAL ENERGY SYSTEM (CEES)**

**ASSOC. PROF. IR. DR. MD. PAUZI ABDULLAH (HEAD)**

PROF. DR. ZAINAL SALAM

DR. NORZANAH ROSMIN

ASSOC. PROF. TS. DR. DALILA MAT SAID

### **INSTITUTE OF HIGH VOLTAGE AND HIGH CURRENT (IVAT)**

**PROF. DR. ZULKURNAIN ABDUL MALEK (HEAD)**

ASSOC. PROF. DR. MOHAMED AFENDI MOHAMED PIAH

DR. ZURAIMY ADZIS

DR. NOR AZLINDA AHMAD

DR. MONA RIZA MOHD ESA

ASSOC. PROF. IR. TS. DR. LAU KWAN YIEW

DR. ZULKARNAIN AHMAD NOORDEN

DR. MOHD HAFIZI AHMAD

### **CENTRE FOR ARTIFICIAL INTELLIGENCE AND ROBOTIC (CAIRO)**

**ASSOC. PROF. IR. TS. DR. AHMAD 'ATHIF MOHD FAUDZI (HEAD)**

ASSOC. PROF. DR. YEONG CHI FAI

ASSOC. PROF. IR. DR. HAZLINA SELAMAT

IR. DR. KUMERESAN A. DANAPALASINGAM

PROF. DR. ZOLKAFLE BUNTAT

# MyRA MARKS 2018 - 2020

| NO | SECTION  | 2018<br>MyRA1 | 2018<br>MyRA2 | 2019<br>MyRA1 | 2019<br>MyRA2 | 2020<br>MyRA1 | 2020<br>MyRA2 |
|----|--|---------------|---------------|---------------|---------------|---------------|---------------|
| 1  | Section B: Quantity and Quality of Researchers   | 73            | 55            | 75            | 56            | 85            | 67            |
| 2  | Section C: Quantity and Quality of Research      | 87            | 52            | 85            | 51            | 94            | 56            |
| 3  | Section D: Quantity and Quality of Postgraduates | 186           | 120           | 161           | 98            | 181           | 108           |
| 4  | Section E: Innovation                            | 58            | 190           | 110           | 145           | 110           | 125           |
| 5  | Section F: Professional Services and Gifts       | 54            | 36            | 69            | 42            | 62            | 25            |
| 6  | Section G: Networking and Linkages               | 89            | 58            | 72            | 54            | 79            | 55            |
| 7  | Seksyen H: Lab Accreditation                     | 100           | 100           | 100           | 100           | 100           | 100           |
|    | Total Marks /100                                 | 94            | 81            | 94            | 72            | 102           | 71            |

# ACTIVITIES 2018

1



## Writing FRGS Proposal

Speaker : Professor Dr. Omar Yaakob, Assoc.  
Prof. Dr. Jafri Din

29 January 2018

9.00 am - 4.30 pm

Bilik Mesyuarat Utama, P19a, FKE UTM

2

## Lab Visiting at Unit Pengurusan Makmal Universiti (UPMU)

4 February 2018

9.30 am - 12.30 pm



3

## How To Convert to Research Book

Speaker : Prof. Dr. Mohammad Nazri Mohd  
Jaafar

2 April 2018

8.30 am - 4.30 pm

Bilik Persidangan 1, P19a, FKE UTM



4



## Goodwill Visit to Sin Kwang Plastic Industries Sdn Bhd, Taman Teknologi Senai

4 April 2018

9.00 - 1.00 pm

SHARING SESSIONS

# ACTIVITIES 2018

5



## MYLAB GRANT

Speaker : Dr. Sophan Wahyudi Nawawi

3 April 2018

9.30 am – 11.30 am

Conference Room 1, P19a, FKE

## ENGAGEMENT FOR PUBLICATION ON HIGH IMPACT JURNAL Q1 AND Q2

Speaker : AP Dr. Bruce Leow Chee Yen,  
Dr. Mohd Haizal Jamaludin

29 August 2018

2.30 - 5.00 pm  
Bilik Tutorial 5 P19a SKE



6

## TRANSDICILINARY RESEARCH GRANT (TDR)

Speaker : Prof. Ir. Dr. Abu Sahmah Mohd Supa'at

29 OGOS 2018

11.00 am - 1.00 pm  
Bilik Mesyuarat Utama, SKE

7



8



## NEWTON UNGKU OMAR LEADERSHIP IN INNOVATION FELLOWSHIP

Speaker : AP. Ir Dr. Sharifah Hafizah Syed Ariffin

8 October 2018

2.30 - 4.30 pm

Bilik Mesyuarat Utama, P19a , SKE

SHARING SESSIONS

# ACTIVITIES 2018

9



## HOW TO FILL THE CHARTERED ENGINEER FORM

Speakers: Dr. Leow Pei Ling

10 October 2018

10.00 am - 1.00 pm

Bilik Mesyuarat Utama, SKE

10

## 5G TECHNOLOGY

Speakers: AP Dr Bruce Leow Chee Yen

13 November 2018

9.30 am - 11.00 am

Bilik Tutorial 9, P19a SKE



## IOT SECURITY

Speaker : AP. Ir Dr. Sharifah Hafizah Syed Ariffin

27 November 2018

2.30 - 4.00 pm

Bilik Persidangan 1, P19a, FKE

11



SHARING SESSIONS



## RENEWABLE ENERGY

Speaker : Dr Tan Chee Wei

4 December 2018

2.15 - 4.30 pm

Bilik Tutorial 9, P19a , SKE

12

## ACTIVITIES 2018

13



### ARTIFICIAL INTELLIGENT AND APPLICATIONS

Speaker : Dr Usman Ullah Sheikh

11 December 2018

2.30 - 4.00 pm

Bilik Tutorial 9, P19a, SKE

14

INTERNATIONAL CONFERENCE ON ELECTRICAL, ELECTRONICS, COMMUNICATION AND  
CONTROL ENGINEERING (ICEECC2018)  
KSL HOTEL, JOHOR BAHRU, MALAYSIA  
28—29TH NOVEMBER 2018



### Photo ICEECC2018



# ACTIVITIES 2018

HARI KECEMERLANGAN FAKULTI  
13TH MAY 2018

15



## Hari Kecemerlangan Fakulti

Date: 13 Mei 2018

Venue: Rumah Alumni, UTM

Award

Research Group

Individual on Research

Achievements



[www.utm.my](http://www.utm.my)

innovative • entrepreneurial • global

# ACTIVITIES 2018

INDUSTRIAL VISIT TO HID GLOBAL SDN BHD  
16TH MAY 2018

16



## Industrial visit

HID Global Sdn Bhd

Industry RFID Tag

Date: 16 May 2018

Participant:

Prof Dr Mohamad Kamal A Rahim

DR Kamaluddin Mohd Yusof

Dr Farid Zubir

Discussion with Senior HID Global from US



# ACTIVITIES 2019

1



## SHARING SESSION ON 2019/20 ASEAN SCIENCE AND TECHNOLOGY FELLOWSHIP

Speaker: AP Dr Hazlina Selamat

29 January 2019

10.00 - 12.30 noon

2

## WORKSHOP ON GRANT UTM FUNDAMENTAL & ENCOURAGEMENT GRANT

Speaker : AP Dr Herlina Abdul Rahim,  
Pn. Hartini Darsono (RMC)

24 September 2019

9.30 am - 4.30 pm  
Bilik Persidangan 1, P19a, SKE



## HIGH IMPACT RESEARCH (HIR) AND PROTOTYPE RESEARCH GRANT (PRGS) UTM

Speaker : AP Dr. Shukor Abdul Razak (Director of RMC)

20 October 2019

2.15 - 4.00 pm

Bilik Tutorial 5, P19a, SKE

3



SHARING SESSIONS

# ACTIVITIES 2019

INTERNATIONAL CONFERENCE ON ELECTRICAL, ELECTRONICS, COMMUNICATION AND  
CONTROL ENGINEERING (ICEECC2018)  
HATTEN HOTEL, JOHOR BAHRU, MALAYSIA  
24—25TH NOVEMBER 2019

4

PHOTO ICEECC2019



# ACTIVITIES 2019

5

INTERNATIONAL CONFERENCE ON ELECTRICAL, ELECTRONICS, COMMUNICATION AND  
CONTROL ENGINEERING (ICEECC2018)  
HATTEN HOTEL, JOHOR BAHRU, MALAYSIA  
24—25TH NOVEMBER 2019



# ACTIVITIES 2019

TECHNICAL VISIT TO TELKOM UNIVERSITI AND INSTITUT TEKNOLOGI BANDUNG (ITB)  
10 —13TH JULY 2019

6



INSTITUT TEKNOLOGI BANDUNG



# ACTIVITIES 2020

1

VISIT TO ADVANCED MEMBRANE TECHNOLOGY  
RESEARCH CENTRE (AMTEC) UTM

15 October 2020



3



# SKESHINE SHARING SESSION 2020

## SHARING SESSION WITH SKESHINE— TIPS FOR ONLINE TEACHING AND LEARNING

Speaker : Dr. Zaharah Johari, Dr. Nurzal Effiyana  
and Dr. Nurul Ezaila Alias

1

27 October 2020  
2.30 - 4.30 pm  
Online : Webex



## SHARING SESSION WITH 'SKESHINE' TIPS FOR ONLINE TEACHING AND LEARNING

### MODERATOR :

PROF. DR. MOHAMAD KAMAL A.  
RAHIM



### SPEAKERS:

DR. ZAHARAH  
JOHARI



DR. NURZAL  
EFFIYANA GHAZALI



DR. NURUL  
EZAILA ALIAS



### ORGANIZED BY :

School of Electrical  
Engineering,  
Faculty of Engineering.

DATE : 27 OCTOBER 2020 (TUESDAY)

TIME : 2.30 - 4.30 PM

PLATFORM : WEBEX/GOOGLE MEET

EVERYONE'S INVITED!

innovative • entrepreneurial • global



## SHARING SESSION WITH 'SKESHINE' KNOWLEDGE TRANSFER ON COMMUNITY SERVICE

### MODERATOR :

PROF. DR. MOHAMAD KAMAL A.  
RAHIM



DR.  
ZULKARNAIN  
AHMAD  
NOORDEN



IR. DR. SYED  
NORAZIZUL  
SYED NASIR



DR MADIHAH  
MD RASID



DR. SITI  
MAHERAH  
HUSIN



### ORGANIZED BY :

School of Electrical  
Engineering,  
Faculty of Engineering.



DATE : 24 NOVEMBER 2020 (TUESDAY)

TIME : 2.30 - 4.30 PM

PLATFORM : WEBEX/GOOGLE MEET

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## SHARING SESSION WITH SKESHINE-KNOWLEDGE TRANSFER ON COMMUNITY SERVICE

Speaker : Dr. Zulkarnain Ahmad Noorden, Ir Dr. Syed Norazizul Syed Nasir, Dr. Madihah Md. Rasid and Dr. Maherah Hussin

24 November 2020

2.30 - 4.30 pm

Online : Webex

2



# WEBINAR 2020

**Webinar on Research & Innovation  
School of Electrical Engineering**

|   |   |   |
|---|---|---|
|  <p><b>Prof. Dr. Jafri Din</b><br/>Director of WCC</p>                           | <br><b>16 JUNE 2020</b>      |  <p><b>PM Ir. Dr. Mohd Pauzi Abdullah</b><br/>Director of CEES</p>         |
|  <p><b>Dr. Musa Mohd Mokji</b><br/>Head of DSIPRG</p>                            | <br><b>30 JUNE 2020</b>      |  <p><b>Dr. Mohd Hafiz Habibuddin</b><br/>Head of PERG</p>                  |
|  <p><b>PM Ir. Ts. Dr. Ahmad 'Athif Mohd Faudzi</b><br/>Director of CAIRO UTM</p> | <br><b>14 JULY 2020</b>     |  <p><b>Prof. Dr. Zulkurnain Abdul Malek</b><br/>Director of IVAT</p>       |
|  <p><b>PM Ir. Dr. Mohd Ridzuan Ahmad</b><br/>Head of MNSERG</p>                 | <br><b>28 JULY 2020</b>    |  <p><b>PM Dr. Nik Rumzi Nik Idris</b><br/>Head of PEDRG</p>               |
|  <p><b>Prof. Dr. Zaharuddin Mohamed</b><br/>Head of ACRG</p>                   | <br><b>11 AUGUST 2020</b> |  <p><b>PM Dr. Nurul Mu'azzah Abdul Latiff</b><br/>Head of CNETsRG</p>    |
|  <p><b>Dr. Rozeha A. Rashid</b><br/>Head of TeSS RG</p>                        | <br><b>25 AUGUST 2020</b>  |  <p><b>Prof. Dr Mohd Fua'ad Rahmat</b><br/>Head of PROTOMiRG</p>         |
|  <p><b>Dr. Noor Asniza Murad</b><br/>Head of ARFMRG</p>                        | <br><b>8 SEPT 2020</b>     |  <p><b>Dr. Mohd Azhar Abdul Razak</b><br/>Head of bMIERG</p>             |
|  <p><b>Dr Asrul Izam Azmi</b><br/>Head of LCRG</p>                             | <br><b>22 SEPT 2020</b>    |  <p><b>Ir. Dr. Michael Tan Loong Peng</b><br/>Head of CONERG</p>         |
|  <p><b>PM Dr. Nor Hisham Khamis</b><br/>Head of STARRG</p>                     | <br><b>6 OCT 2020</b>     |  <p><b>PM Dr. Shaikh Nasir @ Nasir Shaikh Husin</b><br/>Head VeCADRG</p> |
| <p align="center"><b>CO-ORGANIZED BY:</b></p>                                  |   |   |

# WEBINAR 2020



# WEBINAR 2020



# WEBINAR 2020





# Annual Report on Research, Innovation, Commercialization and Network

2018 - 2020



**SCHOOL OF ELECTRICAL ENGINEERING  
FACULTY OF ENGINEERING UTM**



**UTM**  
UNIVERSITI TEKNOLOGI MALAYSIA

School of  
Electrical Engineering,  
Faculty of  
Engineering

# **School Achievement Malaysia Research Assessment (MyRA)**

# **2018**

## SECTION B

Table 1 - Critical Mass for Each Department

| TYPE/DIVISION        | CMED      | COMM      | ECE       | POWER     | TOTAL      |
|----------------------|-----------|-----------|-----------|-----------|------------|
| <b>University</b>    | 19        | 17        | 17        | 13        | <b>66</b>  |
| <b>National</b>      | 8         | 14        | 8         | 8         | <b>38</b>  |
| <b>Industry</b>      | 3         | 4         | 2         | 1         | <b>10</b>  |
| <b>International</b> | 0         | 3         | 1         | 4         | <b>8</b>   |
| <b>Total</b>         | <b>30</b> | <b>38</b> | <b>28</b> | <b>26</b> | <b>122</b> |

Table 2 - Critical Mass for each RG and CoE/HiCoE

| NO         | RESEARCH GROUP | UNIVERSITY | NATIONAL  | INDUSTRY  | INTERNATIONAL | SUM        |
|------------|----------------|------------|-----------|-----------|---------------|------------|
| 1          | ACRG           | 6          | 3         | 0         | 0             | <b>9</b>   |
| 2          | ARFMRG         | 3          | 4         | 0         | 0             | <b>7</b>   |
| 3          | ARG            | 1          | 2         | 0         | 0             | <b>3</b>   |
| 4          | ATTRG          | 6          | 0         | 2         | 0             | <b>8</b>   |
| 5          | BMIE           | 4          | 2         | 1         | 1             | <b>8</b>   |
| 6          | CONE           | 3          | 3         | 0         | 0             | <b>6</b>   |
| 7          | DSIP           | 5          | 2         | 0         | 0             | <b>7</b>   |
| 8          | LCRG           | 6          | 2         | 0         | 1             | <b>9</b>   |
| 9          | MNSE           | 3          | 1         | 0         | 0             | <b>4</b>   |
| 10         | PEDG           | 3          | 0         | 1         | 0             | <b>4</b>   |
| 11         | PERG           | 3          | 3         | 0         | 0             | <b>6</b>   |
| 12         | PROTOM-i       | 9          | 4         | 1         | 0             | <b>14</b>  |
| 13         | STAR           | 2          | 1         | 0         | 0             | <b>3</b>   |
| 14         | VeCAD          | 1          | 0         | 1         | 0             | <b>2</b>   |
| 15         | OTHERS         | 1          | 0         | 0         | 0             | <b>1</b>   |
| 16         | CAIRO          | 3          | 0         | 2         | 0             | <b>5</b>   |
| 17         | CEES           | 5          | 2         | 0         | 0             | <b>7</b>   |
| 18         | IVAT           | 2          | 3         | 0         | 4             | <b>9</b>   |
| 19         | WCC            | 0          | 6         | 2         | 2             | <b>10</b>  |
| <b>SUM</b> |                | <b>66</b>  | <b>38</b> | <b>10</b> | <b>8</b>      | <b>122</b> |

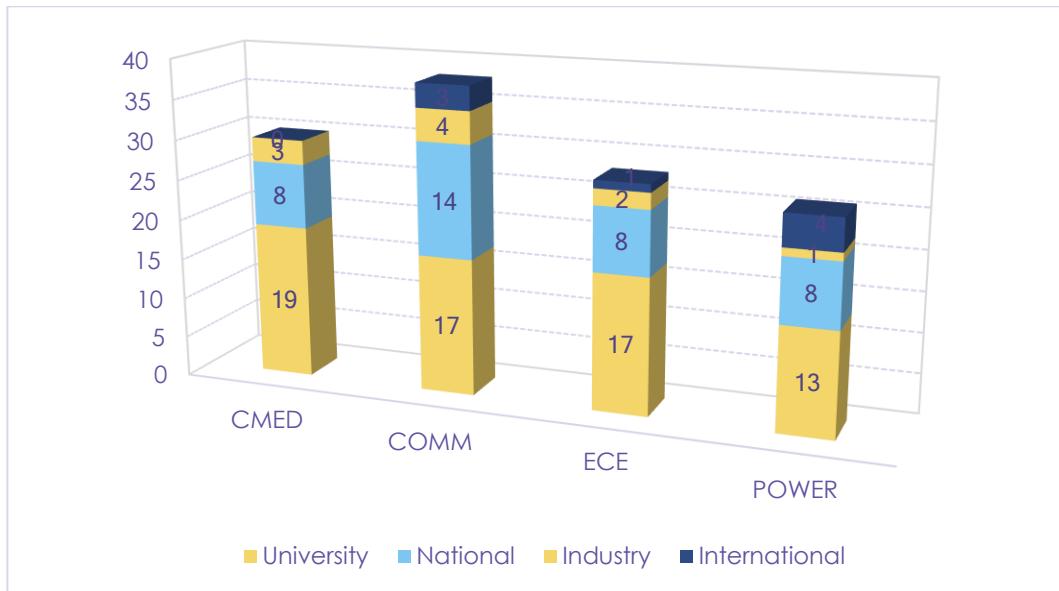


Figure 1 – Stacked Bar Chart of Critical Mass for Each Department

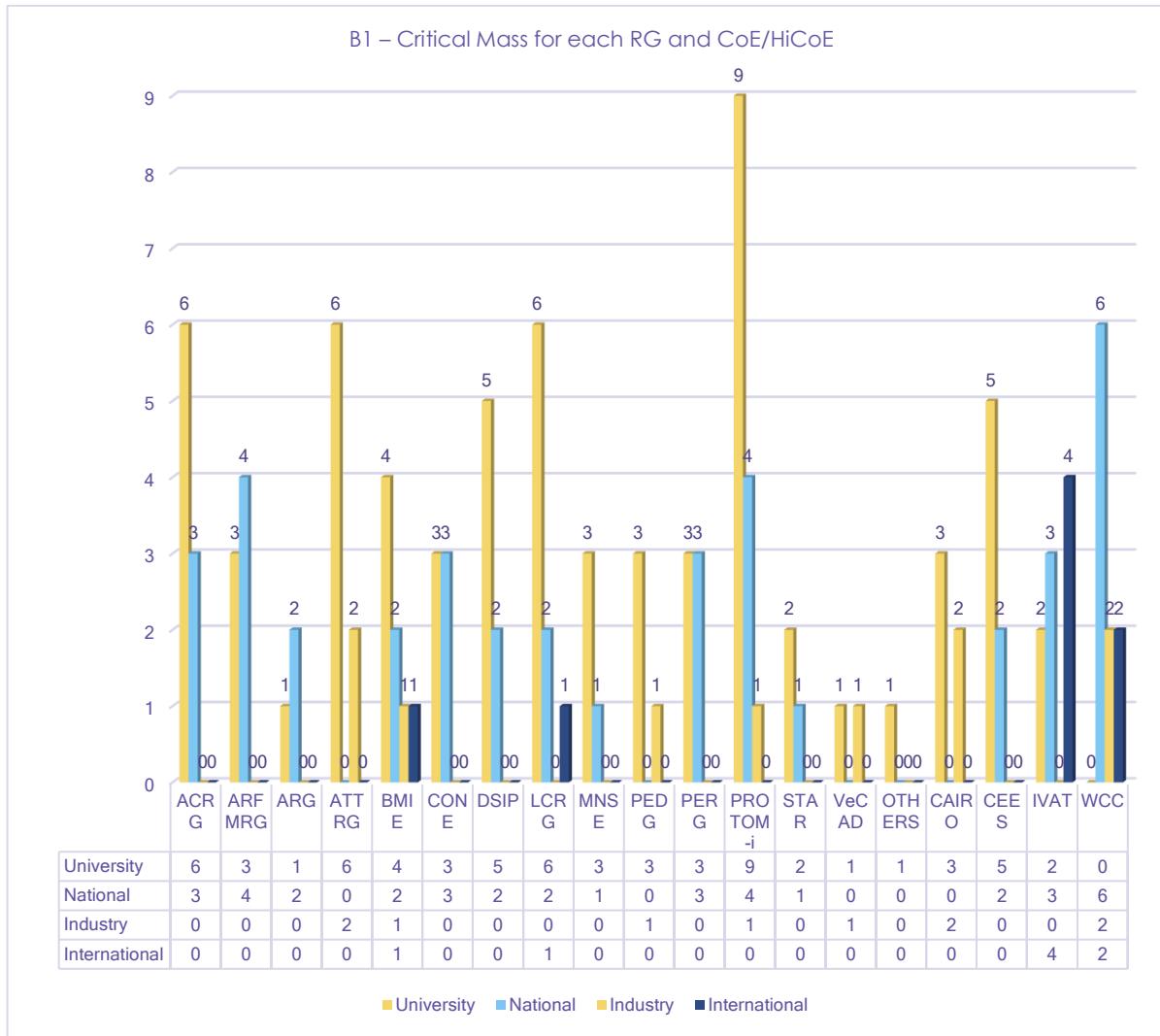


Figure 2 – Clustered Bar Chart of Critical Mass for each RG and CoE/HiCoE

**Section B4 - Awards and recognitions conferred by national and international learned and professional bodies in 2018**

Table 3 - Awards and Recognitions Received for each Division

| SEC       | AWARDS   | CMED | COMM | ECE | POWER | TOTAL |
|-----------|--|------|------|-----|-------|-------|
| <b>B4</b> | <b>Awards and recognitions conferred by national and international learned and professional bodies</b>     |      |      |     |       | 0     |
|           | a. Award conferred by INTERNATIONAL academic and professional bodies towards research excellent            |      |      |     |       | 1     |
|           | b. Recognition and stewardship conferred by INTERNATIONAL Learned and Professional Bodies towards research | 1    |      |     |       | 1     |
|           | c. Award conferred by NATIONAL academic and professional bodies towards research excellent                 | 1    | 2    |     |       | 3     |
|           | d. Recognition and stewardship conferred by NATIONAL Learned and Professional Bodies towards               | 1    | 1    |     |       | 2     |
|           | e. Research Exhibition Awards (gold medals/special awards)   |      |      | 2   |       | 2     |
|           | Total  | 3    | 3    | 2   | 0     | 8     |

Table 4 - Awards and Recognitions Received for each RG and CoE/HiCoE

| RG           | B4a      | B4b      | B4c      | B4d      | B4e      |
|--------------|----------|----------|----------|----------|----------|
| ARG          |          |          |          |          |          |
| ARFMRG       |          |          | 1        |          |          |
| ACRG         |          |          |          |          |          |
| CNetS        |          |          |          |          |          |
| TeSS         |          |          |          |          |          |
| bMIE         |          |          |          |          |          |
| CoNE         |          |          |          |          |          |
| DSIP         |          |          |          | 2        |          |
| LCRG         |          |          |          |          |          |
| PEDG         |          |          |          |          |          |
| PERG         |          |          |          |          |          |
| STAR         |          |          |          |          |          |
| VeCAD        |          |          |          |          |          |
| MNSE         |          |          |          |          |          |
| PROTOM-i     |          |          |          |          |          |
| WCC          |          |          | 1        | 1        |          |
| CEES         |          |          |          |          |          |
| IVAT         |          |          |          |          |          |
| CAIRO        |          | 1        | 1        | 1        |          |
| <b>TOTAL</b> | <b>0</b> | <b>1</b> | <b>3</b> | <b>2</b> | <b>2</b> |

Awards and recognitions conferred by national and international learned and professional bodies

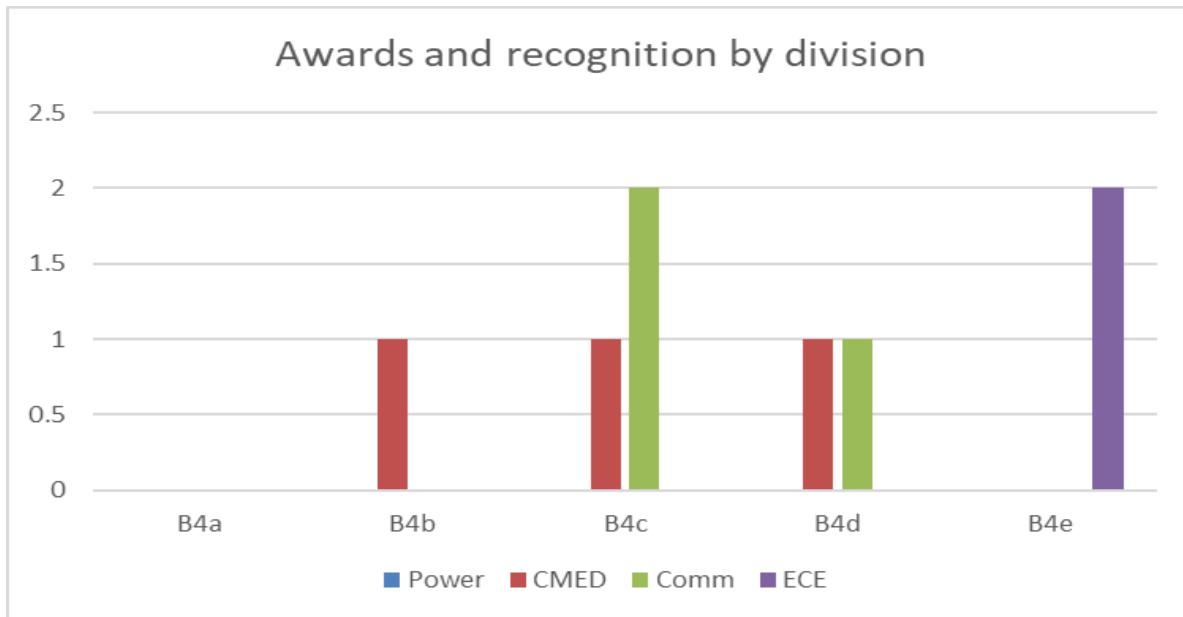


Figure 3 – Awards and Recognitions Received  
for each Division

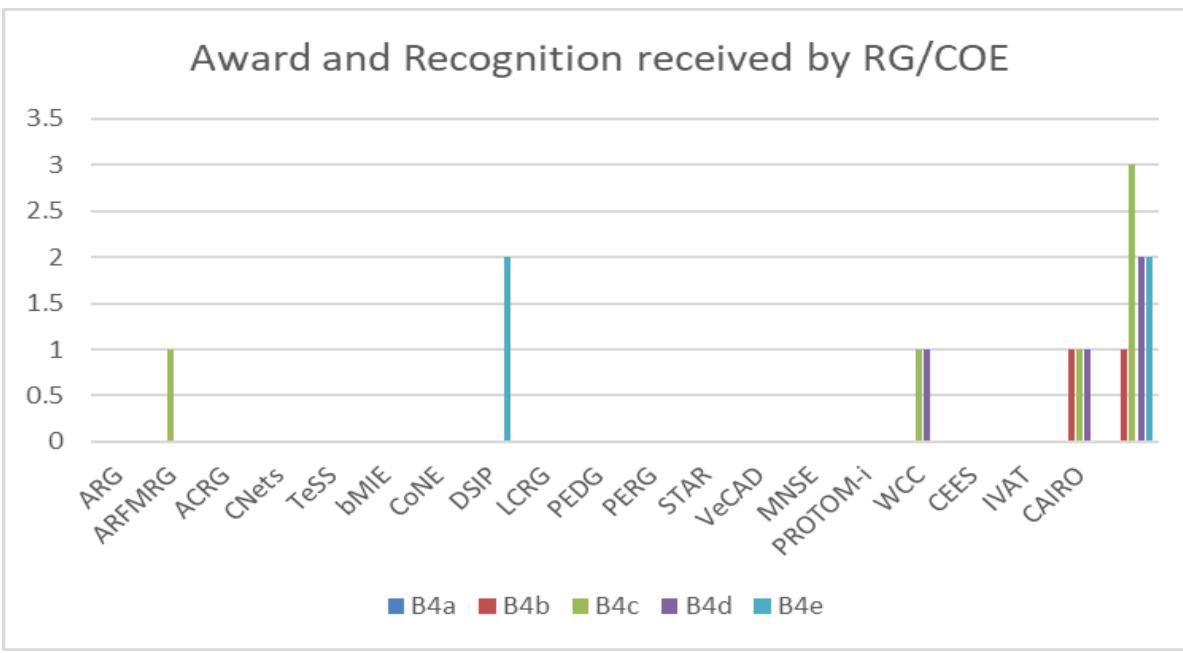


Figure 4 – Awards and Recognitions Received for each RG and CoE/HiCoE

## SECTION C

### Section C1 – Publication

Table 5: Publication by category for all departments in FKE

| CATEGORY            | COMM | CMED | POWER | ECE | FKE |
|---------------------|------|------|-------|-----|-----|
| INDEXED             | 112  | 59   | 85    | 35  | 291 |
| NON-INDEXED & OTHER | 13   | 13   | 24    | 19  | 69  |
| CONFERENCE          | 27   | 40   | 40    | 16  | 123 |
| BOOKCHAPTER         | 7    | 31   | 3     | 18  | 59  |

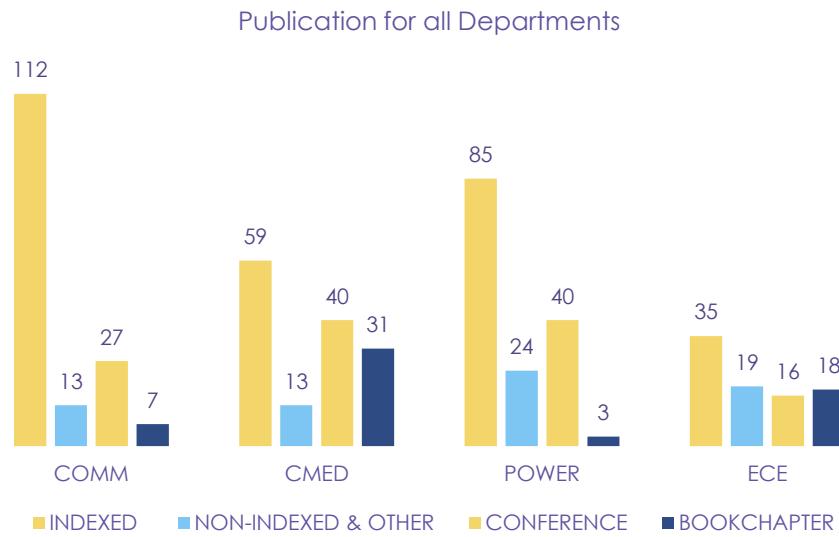


Figure 5: Publication by category for all departments in FKE

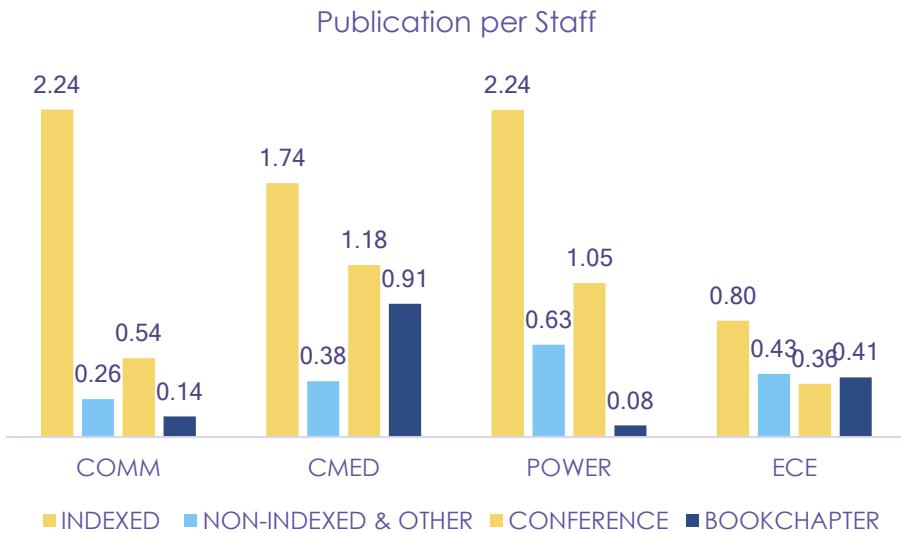


Figure 6: Publication per staff in FKE

## FKE 2016 & 2017 Performance Comparison

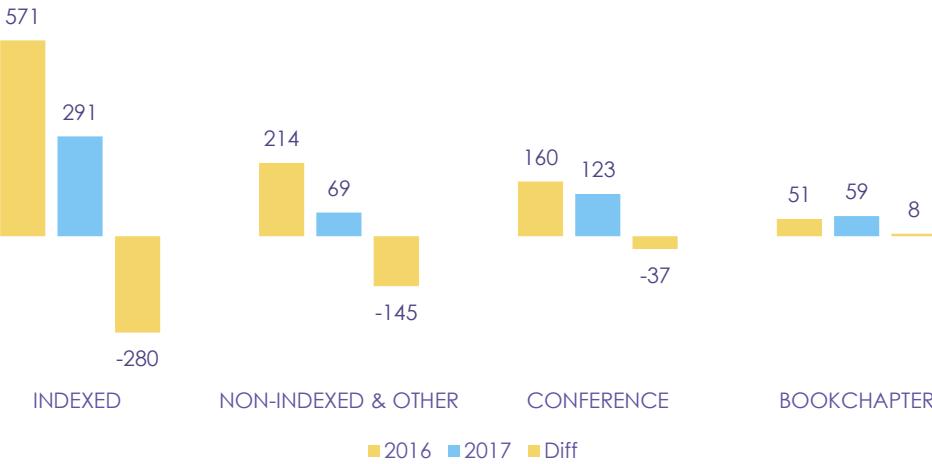


Figure 7: Comparison of publication output between year 2016 and 2017

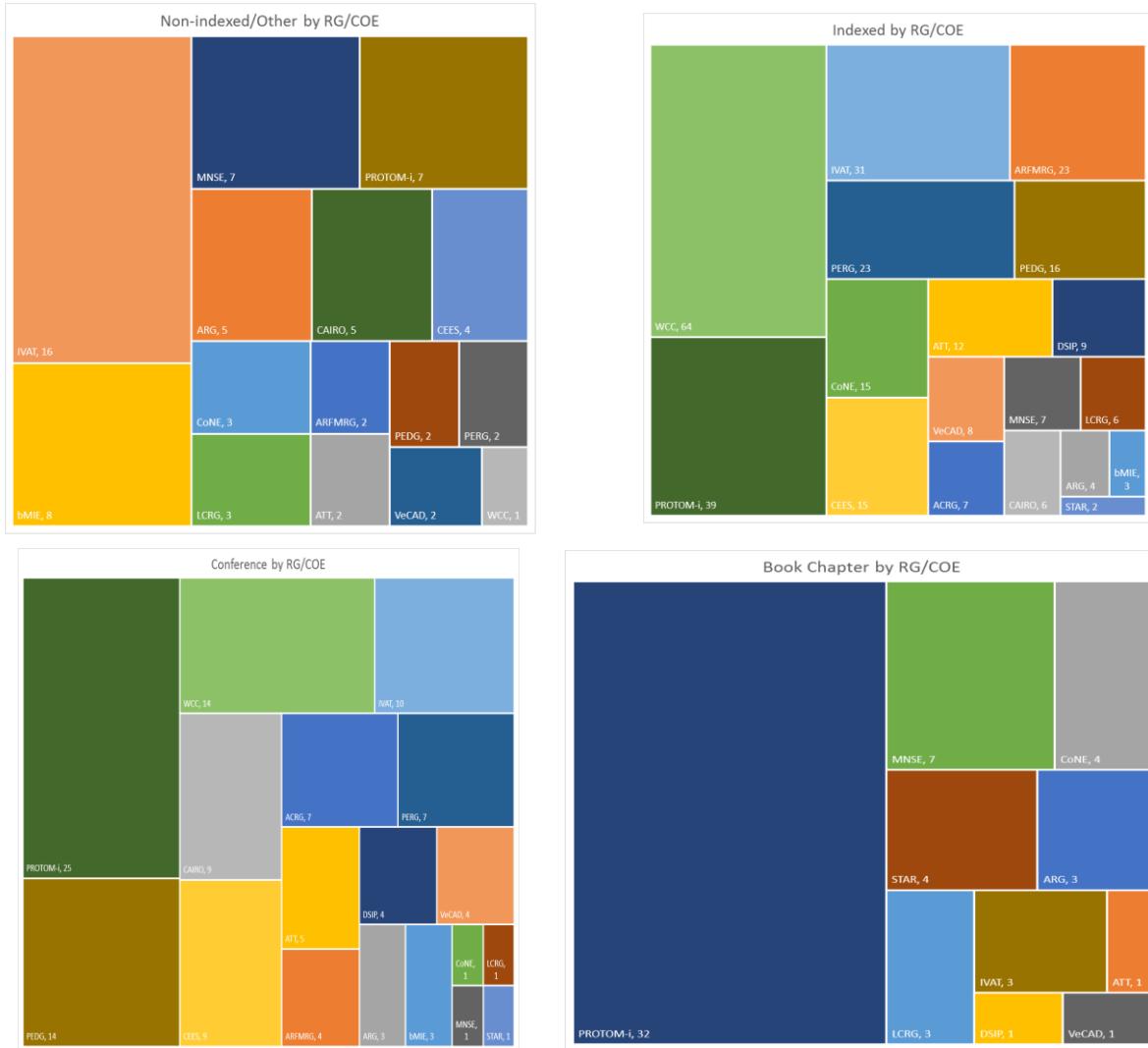


Figure 8: Publication by research group and Center of Excellence (COE) in FKE

## Section C2 - Research Grants Received

Table 6 - Public, Private and International Research Grants Received for each Department

| GRANT                       | CMED             | COMM               | ECE              | POWER              | TOTAL              |
|-----------------------------|------------------|--------------------|------------------|--------------------|--------------------|
| <b>Public Grants</b>        | RM651,267        | RM1,678,725        | RM921,942        | RM556,083          | <b>RM3,808,017</b> |
| <b>Private Grants</b>       | RM4,000          | RM91,248           | RM0              | RM432,215          | <b>RM527,463</b>   |
| <b>International Grants</b> | RM0              | RM57,593           | RM59,793         | RM32,000           | <b>RM149,386</b>   |
|                             | <b>RM655,267</b> | <b>RM1,827,566</b> | <b>RM981,735</b> | <b>RM1,020,298</b> | <b>RM4,484,866</b> |

Table 7 - Research Grants Received for each RG and CoE/HiCoE

| NO         | RG       | PUBLIC                | PRIVATE             | INTERNATIONAL       | SUM                   |
|------------|----------|-----------------------|---------------------|---------------------|-----------------------|
| 1          | ACRG     | RM125,867             | RM0                 | RM0                 | <b>RM125,867.00</b>   |
| 2          | ARFMRG   | RM219,600             | RM0                 | RM0                 | <b>RM219,600.00</b>   |
| 3          | ARG      | RM0                   | RM0                 | RM0                 | <b>RM0.00</b>         |
| 4          | ATTRG    | RM325,105             | RM91,248            | RM0                 | <b>RM416,353.00</b>   |
| 5          | BMIE     | RM250,233             | RM432,215           | RM32,000            | <b>RM714,448.00</b>   |
| 6          | CONE     | RM118,050             | RM0                 | RM0                 | <b>RM118,050.00</b>   |
| 7          | DSIP     | RM126,300             | RM0                 | RM0                 | <b>RM126,300.00</b>   |
| 8          | LCRG     | RM318,000             | RM0                 | RM20,121            | <b>RM338,121.24</b>   |
| 9          | MNSE     | RM85,500              | RM0                 | RM0                 | <b>RM85,500.00</b>    |
| 10         | PEDG     | RM38,400              | RM0                 | RM0                 | <b>RM38,400.00</b>    |
| 11         | PERG     | RM116,192             | RM0                 | RM0                 | <b>RM116,192.00</b>   |
| 12         | PROTOM-i | RM276,900             | RM4,000             | RM0                 | <b>RM280,900.00</b>   |
| 13         | STAR     | RM54,000              | RM0                 | RM0                 | <b>RM54,000.00</b>    |
| 14         | VeCAD    | RM0                   | RM0                 | RM0                 | <b>RM0.00</b>         |
| 15         | OTHERS   | RM20,000              | RM0                 | RM0                 | <b>RM20,000.00</b>    |
| 16         | CAIRO    | RM157,800             | RM0                 | RM0                 | <b>RM157,800.00</b>   |
| 17         | CEES     | RM500,800             | RM0                 | RM0                 | <b>RM500,800.00</b>   |
| 18         | IVAT     | RM266,550             | RM0                 | RM59,793            | <b>RM326,343.01</b>   |
| 19         | WCC      | RM808,720             | RM0                 | RM37,472            | <b>RM846,191.97</b>   |
| <b>SUM</b> |          | <b>RM3,808,017.00</b> | <b>RM527,463.00</b> | <b>RM149,386.22</b> | <b>RM4,484,866.22</b> |

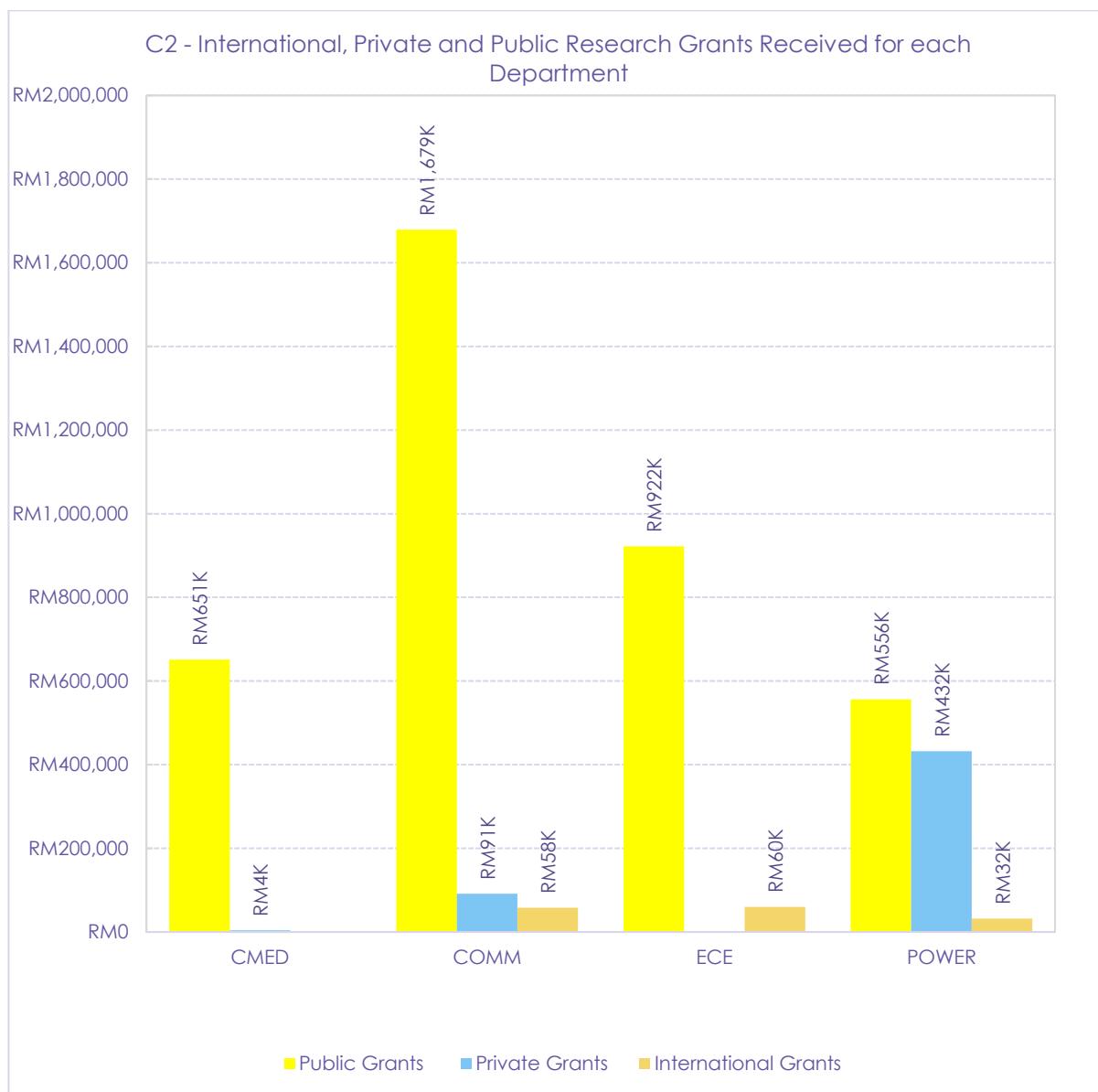


Figure 9 – Clustered Bar Chart of Public, Private and International Research Grants for each Department

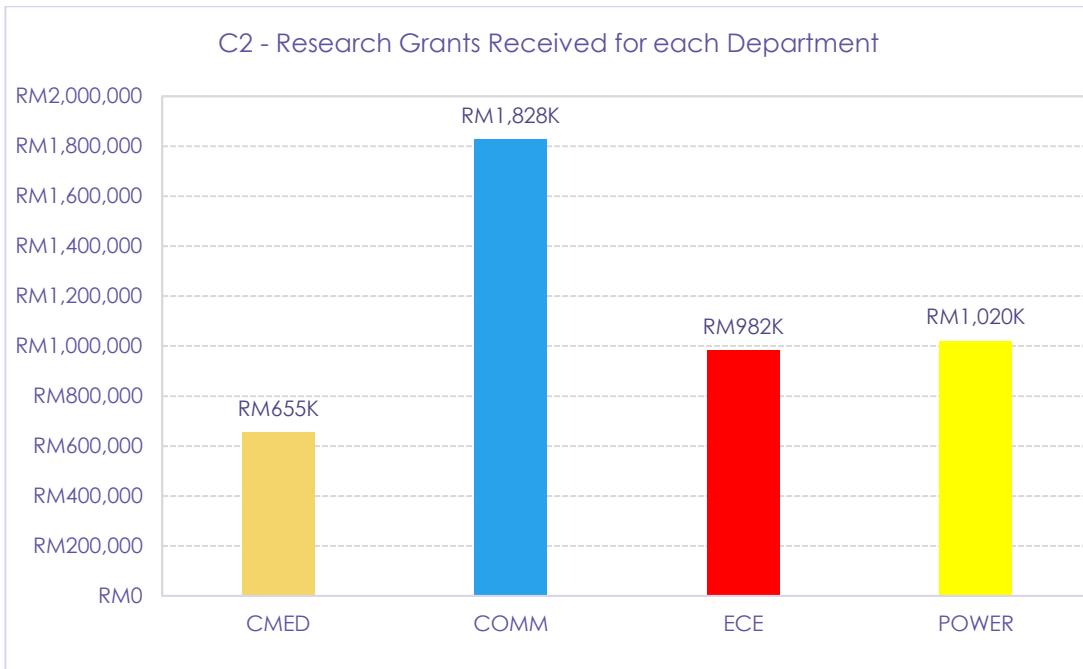


Figure 10 - Bar Chart of Research Grants for each Department

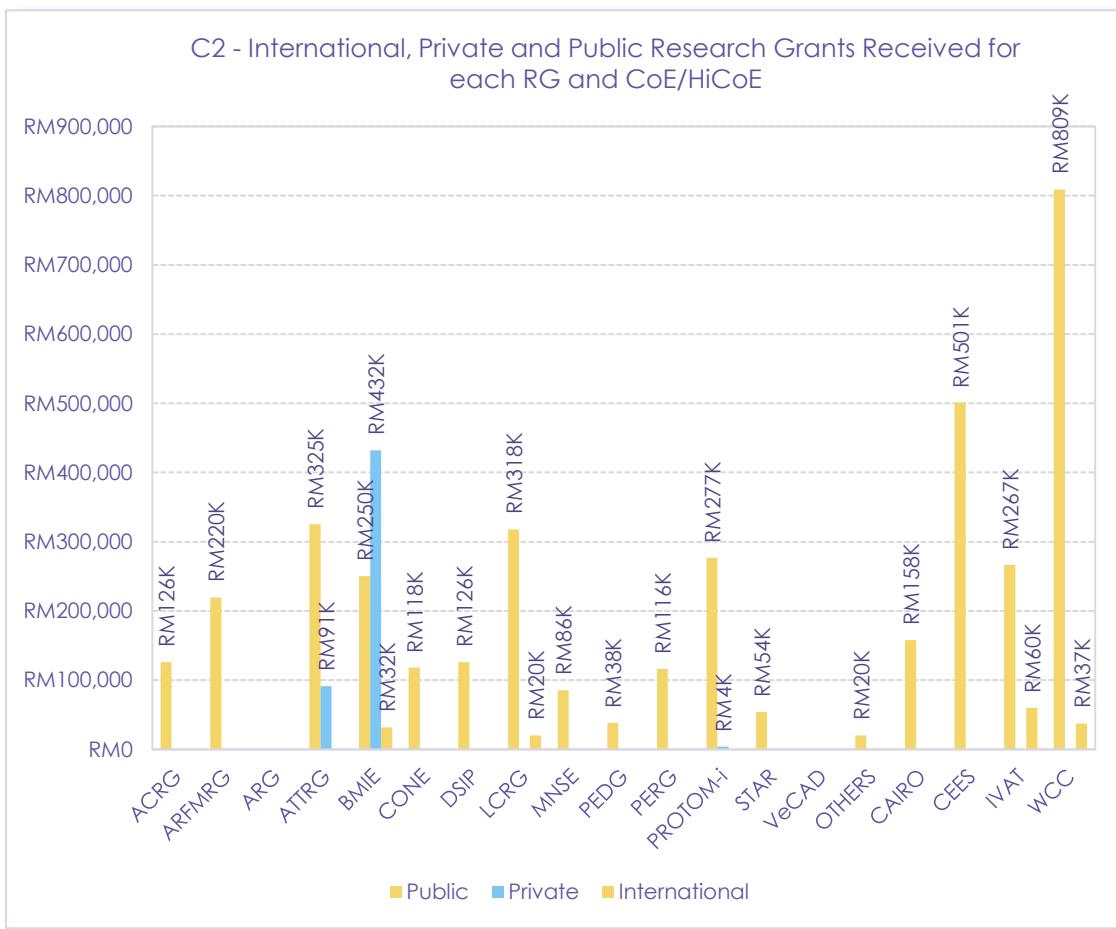


Figure 11 – Clustered Bar Chart of Public, Private and International Research Grants  
for each RG and CoE/HiCoE

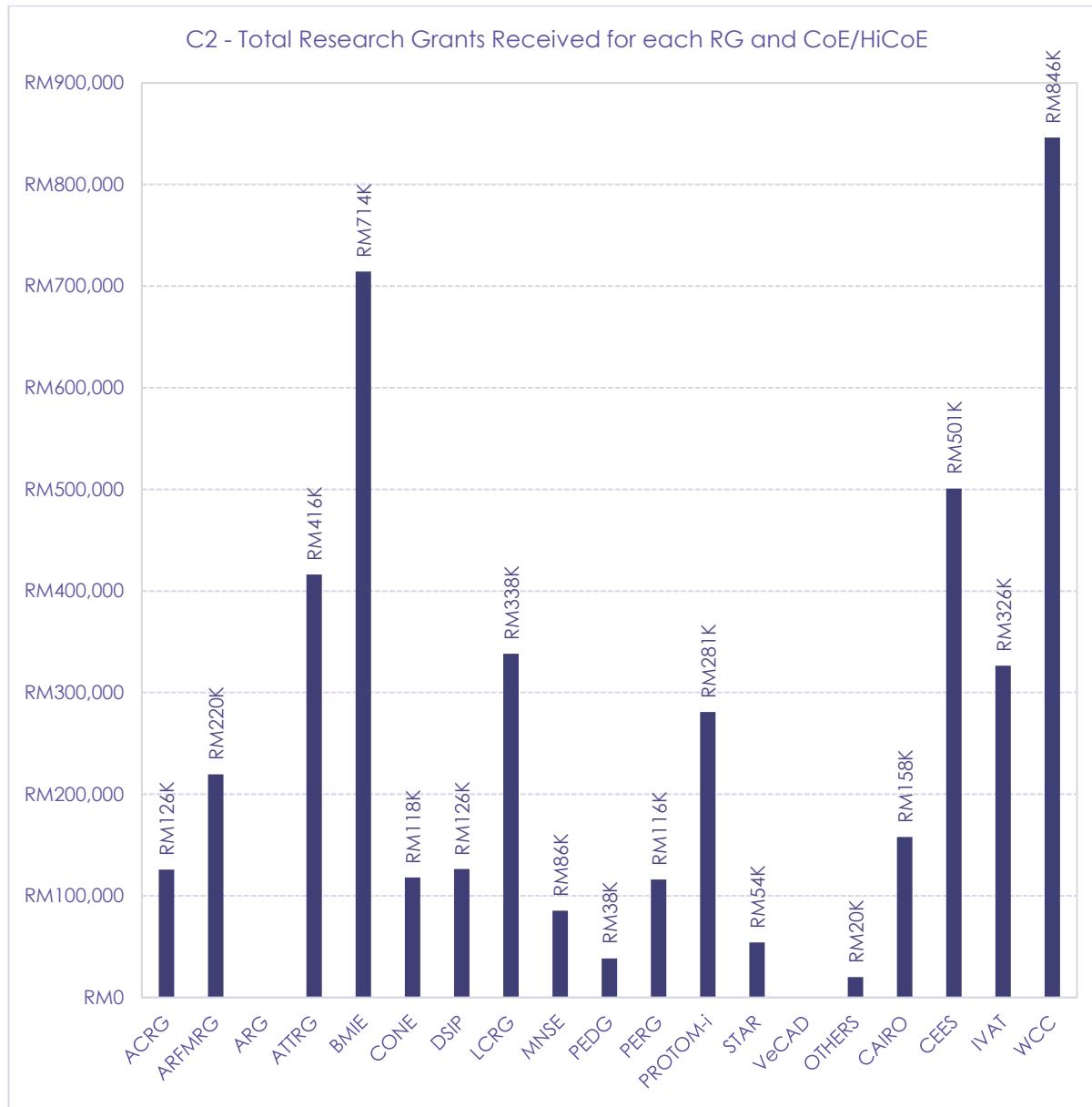


Figure 12 - Bar Chart of Public, Private and International Research Grants Received for each RG and CoE/HiCoE

#### SECTION D: POSTGRADUATE STUDENT

Table 8: Total number of postgraduate students in research group and CoE

| <b>RG</b> | <b>MEng</b> | <b>MPhil</b> | <b>MASTER</b> | <b>PhD</b> | <b>TOTAL RESEARCH STUDENTS</b> |
|-----------|-------------|--------------|---------------|------------|--------------------------------|
| ARG       | 0           | 1            | 1             | 5          | 6                              |
| ARFMRG    | 7           | 5            | 12            | 19         | 24                             |
| ACRG      | 7           | 12           | 19            | 31         | 43                             |
| CNETs     | 4           | 3            | 7             | 22         | 25                             |
| TeSS      | 2           | 0            | 2             | 3          | 3                              |
| bMIE      | 4           | 7            | 11            | 11         | 18                             |
| CoNE      | 12          | 5            | 17            | 13         | 18                             |
| DSIP      | 27          | 8            | 35            | 16         | 24                             |
| LCRG      | 7           | 4            | 11            | 17         | 21                             |
| PEDG      | 14          | 1            | 15            | 17         | 18                             |
| PERG      | 13          | 3            | 16            | 27         | 30                             |
| STAR      | 3           | 5            | 8             | 3          | 8                              |
| VeCAD     | 7           | 2            | 9             | 18         | 20                             |
| MNSE      | 2           | 2            | 4             | 1          | 5                              |
| PROTOM-i  | 1           | 9            | 10            | 22         | 32                             |
| WCC       | 3           | 12           | 15            | 44         | 59                             |
| CEES      | 10          | 5            | 15            | 11         | 26                             |
| IVAT      | 14          | 8            | 22            | 19         | 41                             |
| CAIRO     | 6           | 2            | 8             | 3          | 11                             |

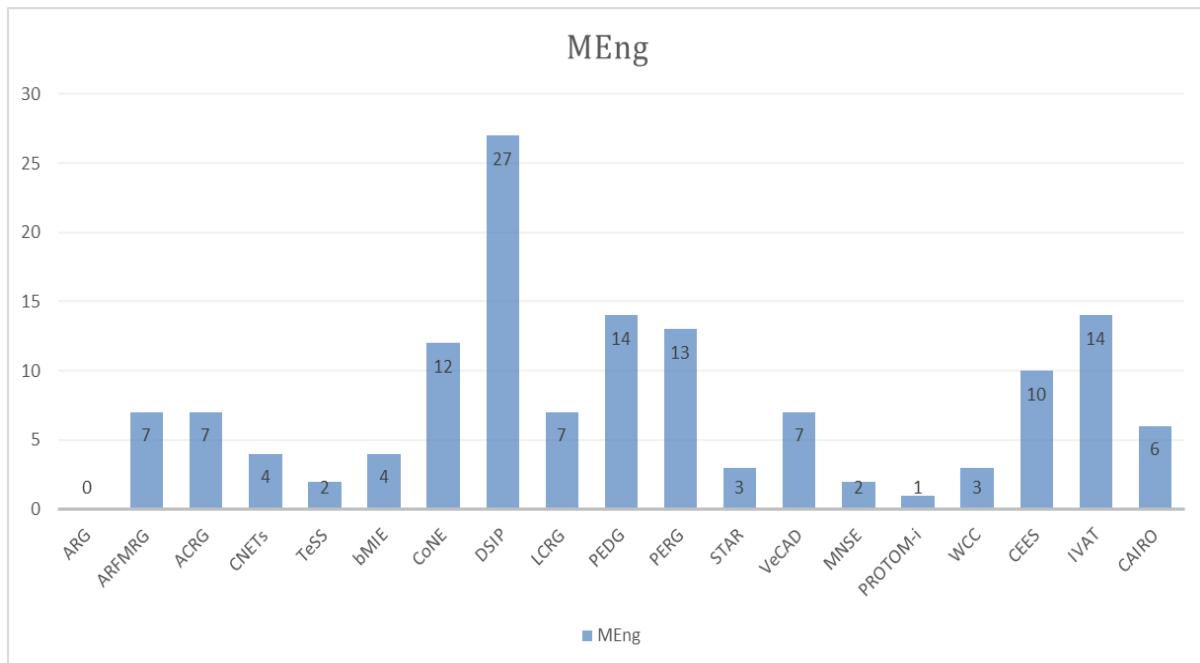


Figure 13 : Number of Master students by taught course (MEng)

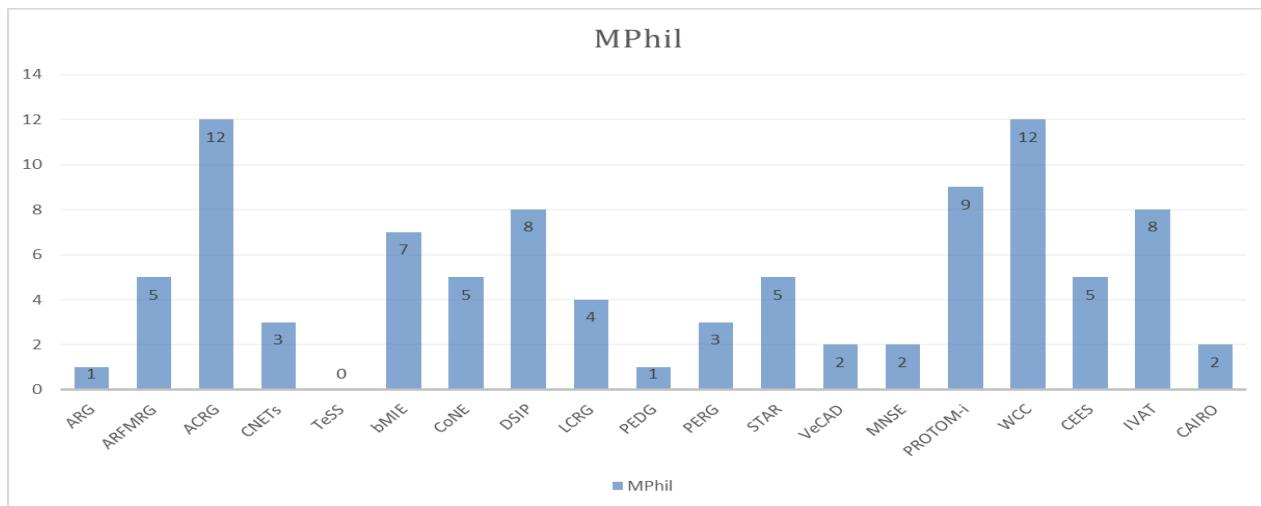


Figure 14 : Number of Master students by research (MPhil)

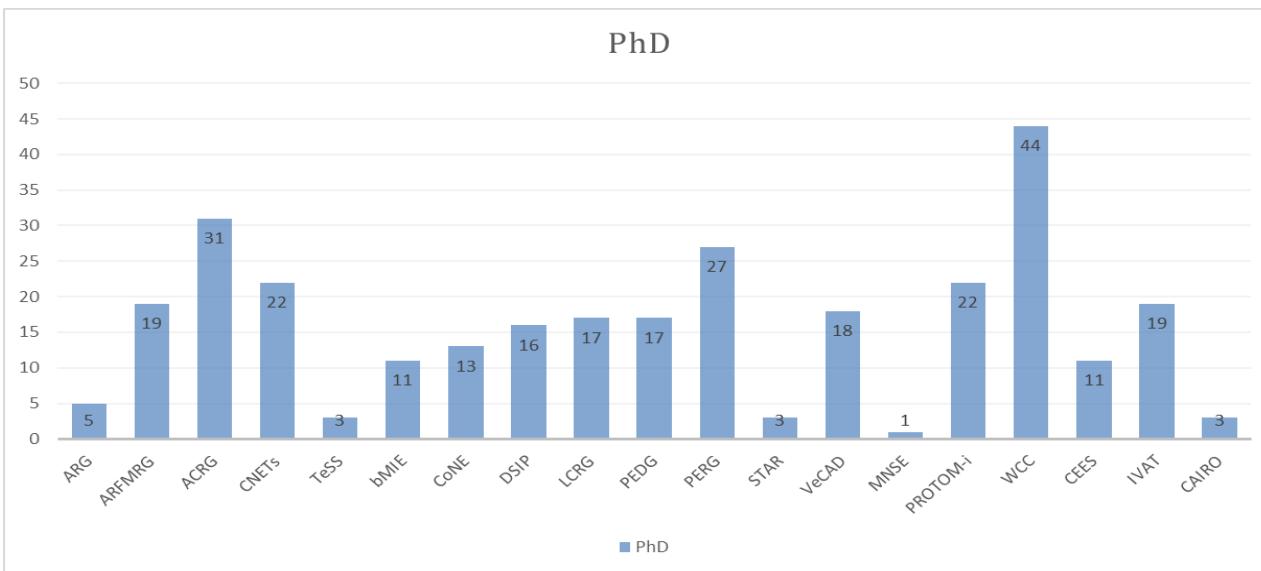


Figure 15 : Number of PhD students

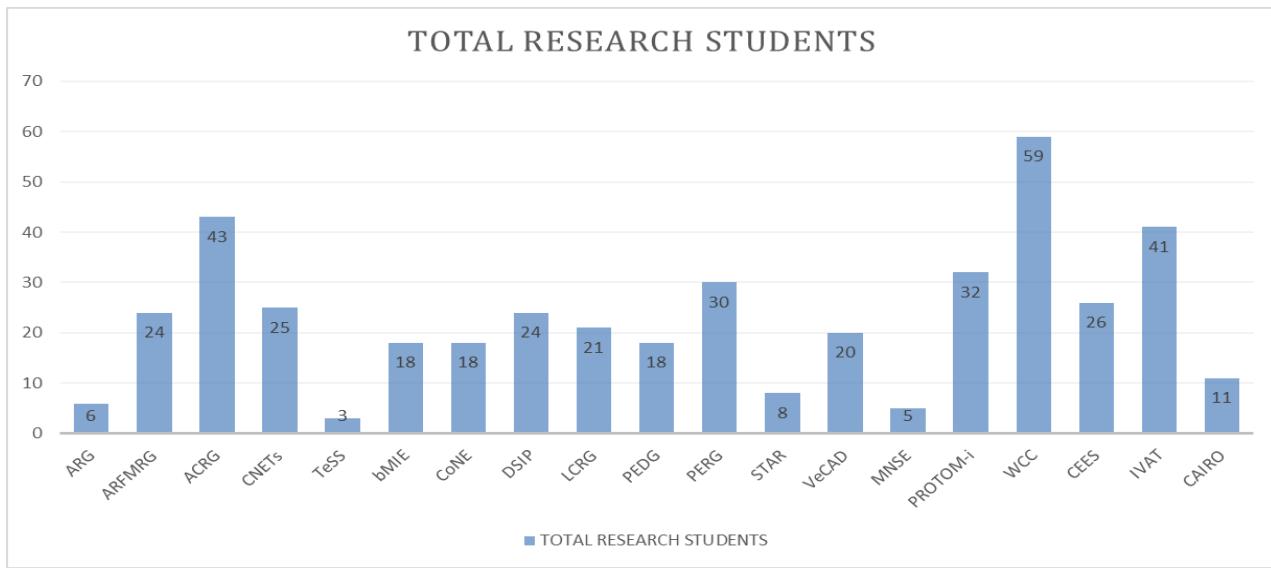


Figure 16 : Number of research students (MPhil &amp; PhD)

## SECTION E: Innovation

Table 9. Summary of faculty achievement in section E

| No. | Criteria                      | Description   | Achievement |
|-----|-------------------------------|---|-------------|
| E1  | Patent                        | a. Total number of patents granted<br>b. Total number of patents filed                    | 16<br>1     |
| E2  | Commercialized product        | Total number of new products licensed for commercialization in the year                   | 0           |
| E3  | Technology know-how licensing | Total number of technology know-how licensing in the year                                 | 0           |
| E4  | IPR other than patent         | Total number of IPR other than patents (i.e. copyright, trademark, industrial design etc) | 50          |

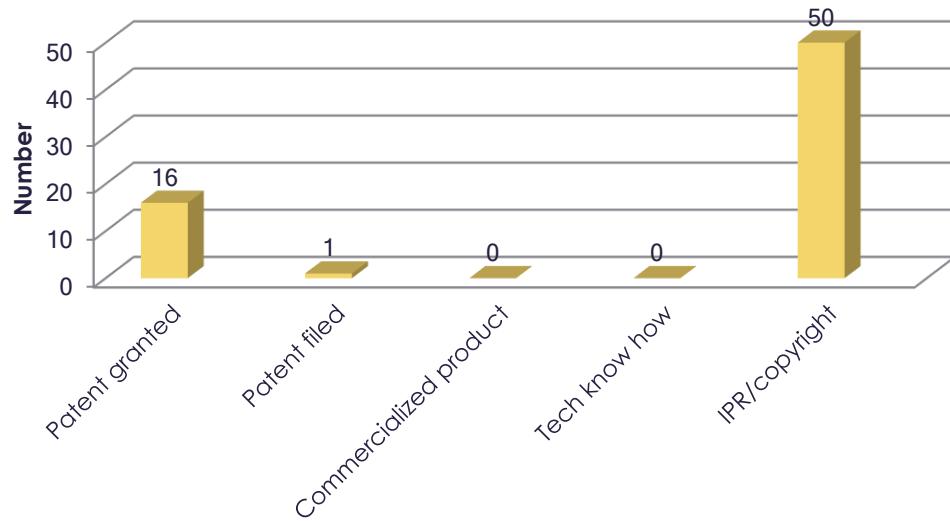


Figure 17. Section innovation achievement

Table 10. Department achievement for all sub-section in innovation

| No | Dept  | Patent granted (E1a) | Patent submitted (E1b) | Commercialized product (E2) | Technology know-how licensing (E3) | IPR/Copyright (E4) |
|----|-------|----------------------|------------------------|-----------------------------|------------------------------------|--------------------|
| 1  | POWER | 1                    | 0                      | 0                           | 0                                  | 13                 |
| 2  | CMED  | 6                    | 1                      | 0                           | 0                                  | 13                 |
| 3  | COMM  | 8                    | 0                      | 0                           | 0                                  | 8                  |
| 4  | ECE   | 1                    | 0                      | 0                           | 0                                  | 16                 |

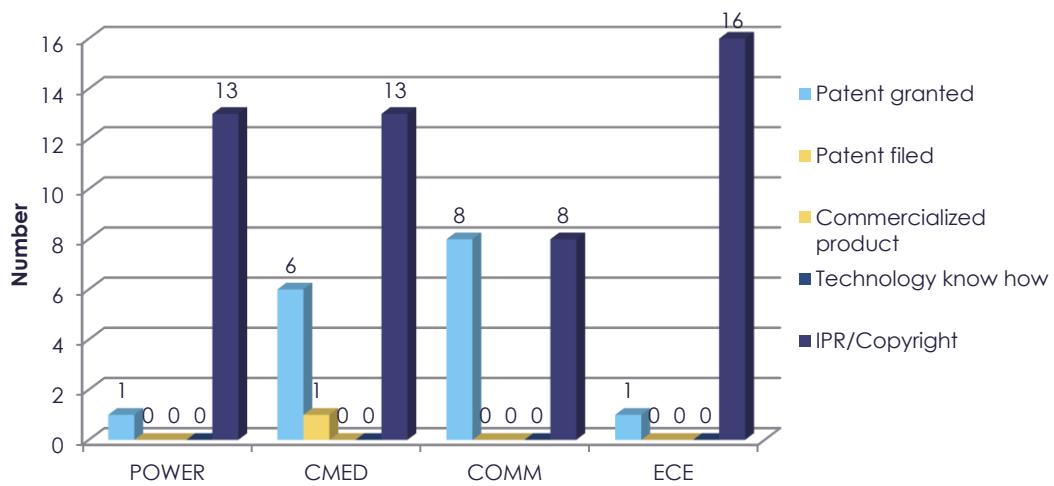


Figure 18. Department achievement for all sub-section in innovation

Table 11. Research group and center of excellence achievement for all sub-section in innovation

| No | RG/COE   | Patent granted<br>(E1a) | Patent filed<br>(E1b) | Commercialized product (E2) | Technology know-how<br>licensing<br>(E3) | IPR/<br>Copyright<br>(E4) |
|----|----------|-------------------------|-----------------------|-----------------------------|--|---------------------------|
| 1  | ARG      | 0                       | 0                     | 0                           | 0  | 0                         |
| 2  | ACRG     | 1                       | 0                     | 0                           | 0  | 1                         |
| 3  | ARFMRG   | 2                       | 0                     | 0                           | 0  | 0                         |
| 4  | BMIE     | 0                       | 0                     | 0                           | 0  | 2                         |
| 5  | CONE     | 0                       | 0                     | 0                           | 0  | 1                         |
| 6  | DSIP     | 0                       | 0                     | 0                           | 0  | 0                         |
| 7  | MNSE     | 0                       | 1                     | 0                           | 0  | 3                         |
| 8  | PEDG     | 0                       | 0                     | 0                           | 0  | 0                         |
| 9  | PERG     | 0                       | 0                     | 0                           | 0  | 1                         |
| 10 | STAR     | 0                       | 0                     | 0                           | 0  | 0                         |
| 11 | TESS     | 0                       | 0                     | 0                           | 0  | 1                         |
| 12 | VeCAD    | 1                       | 0                     | 0                           | 0  | 11                        |
| 13 | PROTOM-i | 6                       | 0                     | 0                           | 0  | 9                         |
| 14 | LCRG     | 3                       | 0                     | 0                           | 0  | 4                         |
| 15 | CNETS    | 0                       | 0                     | 0                           | 0  | 0                         |
| 16 | WCC      | 1                       | 0                     | 0                           | 0  | 3                         |
| 17 | CEES     | 0                       | 0                     | 0                           | 0  | 8                         |
| 18 | IVAT     | 1                       | 0                     | 0                           | 0  | 4                         |
| 19 | CAIRO    | 0                       | 0                     | 0                           | 0  | 2                         |

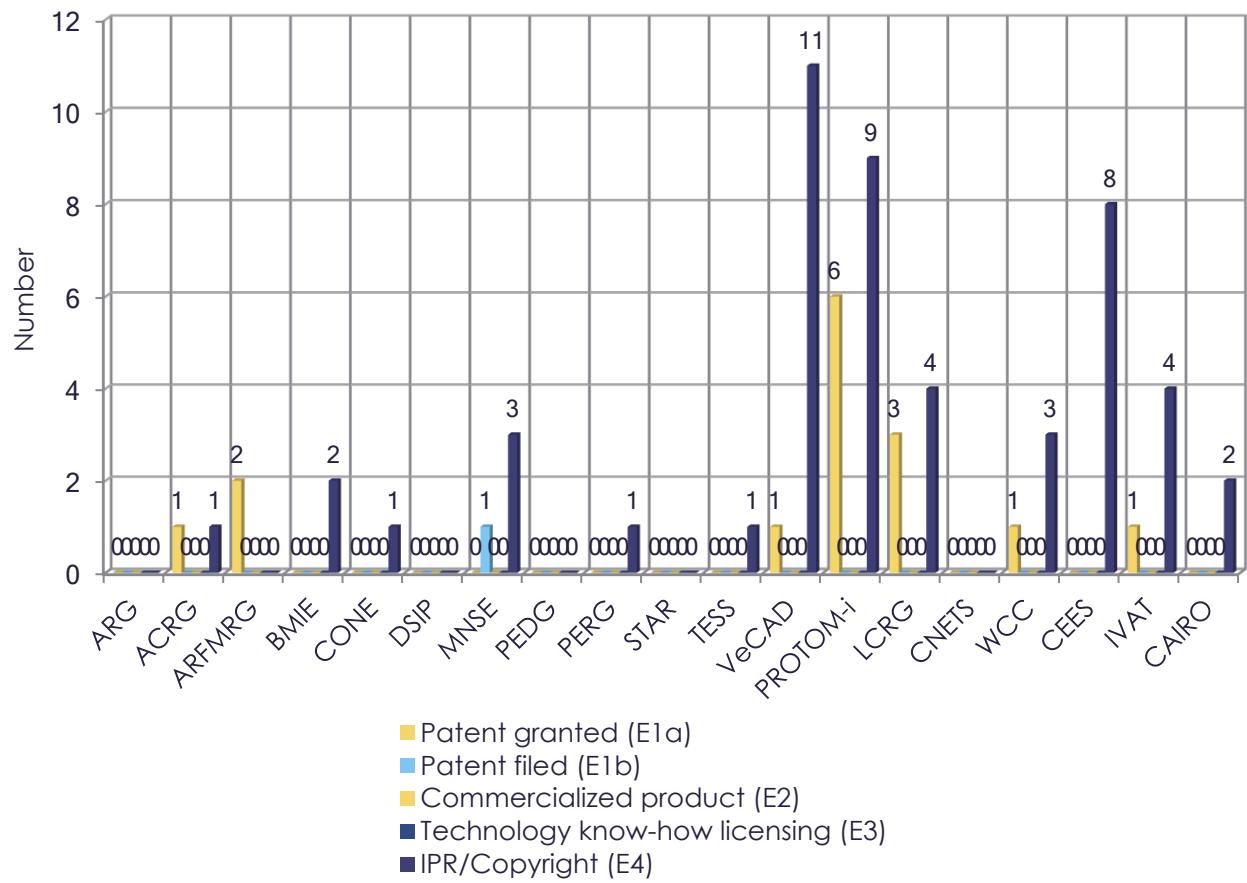


Figure 19. Research group and center of excellence achievement for all sub-section in innovation

## SECTION F – Professional Services and Gifts

Table 12 – Professional Services & Gift

| <b>SECTION F – PROFESSIONAL SERVICES AND GIFTS</b> |                              |   |                                  |              |
|--|------------------------------|---|----------------------------------|--------------|
| <b>No</b>  | <b>Kriteria</b>              | <b>KPI</b>  | <b>Achievement<br/>(RM)</b>      |              |
| 1  | Professional Services & Gift | Gross Income from training courses (non-degree programme) and postgraduate fees (research programme)        | a. Training Courses              | 38,760.00    |
|  |                              |   | b. Postgraduate Fee              | 1,675,741.13 |
| 2  |                              | Gross Income from organizing conference, seminars and knowledge sharing programme in the field of expertise |                                  | 229,950.00   |
| 3  |                              | Gross Income from product commercialization/technology know how licencing                                   | a. Product Commercialization     |              |
|  |                              |   | b. Technology Know-How Licencing | 14,500.00    |
| 4  |                              | Gross Income from consultancy (excluding contract research)/hospital recoupable fees/lab service fees       | a. Consultancies                 | 144,470.28   |
| 5  |                              | Endowment (including professorial chairs)   | b. Lab Service Fees              | 73,231.15    |
| 6  |                              | Gift (money, equipment, research materials, etc) (worth > RM3,000.00)                                       |                                  | 28,887.00    |
|  |                              |   |                                  | 13,942.00    |

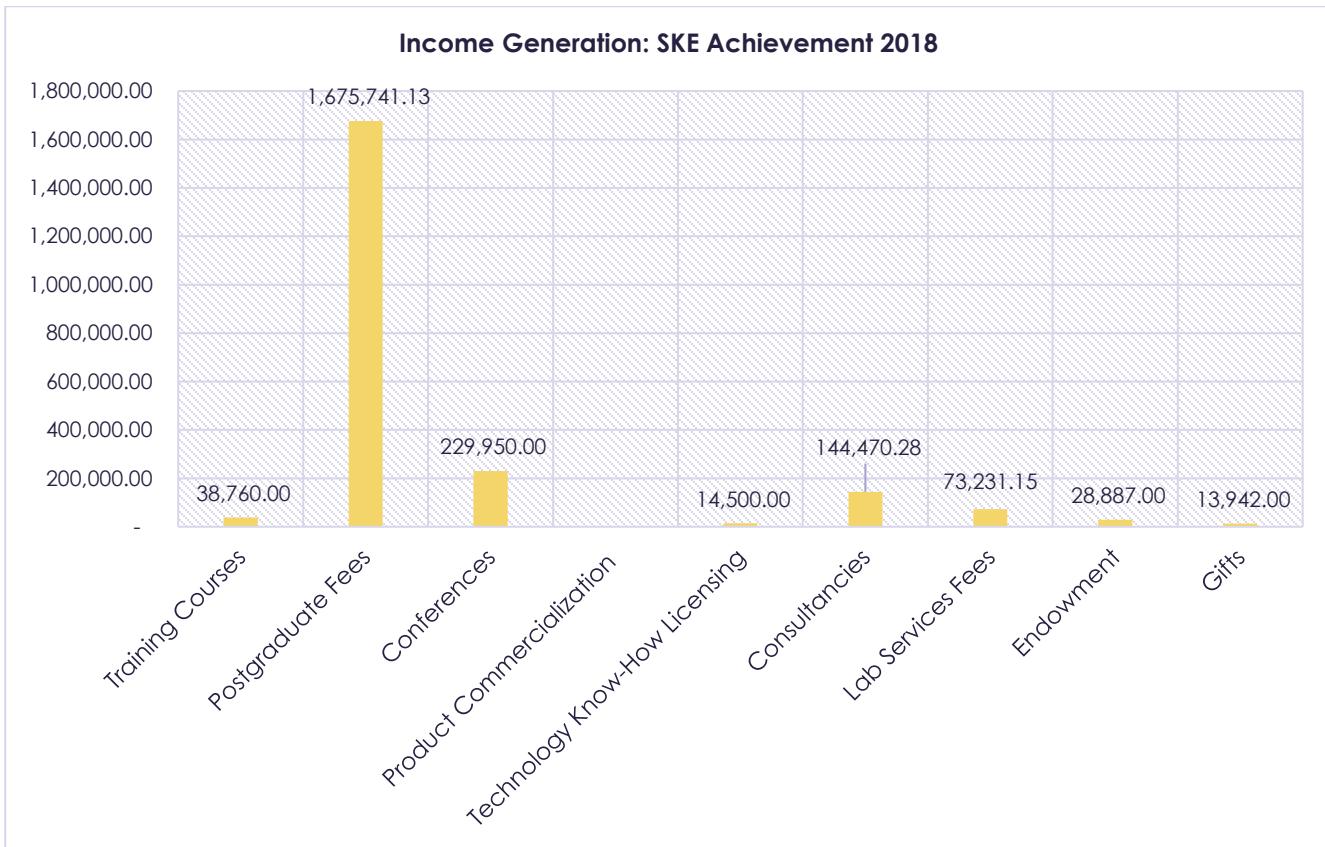


Figure 20: SKE Income Generation

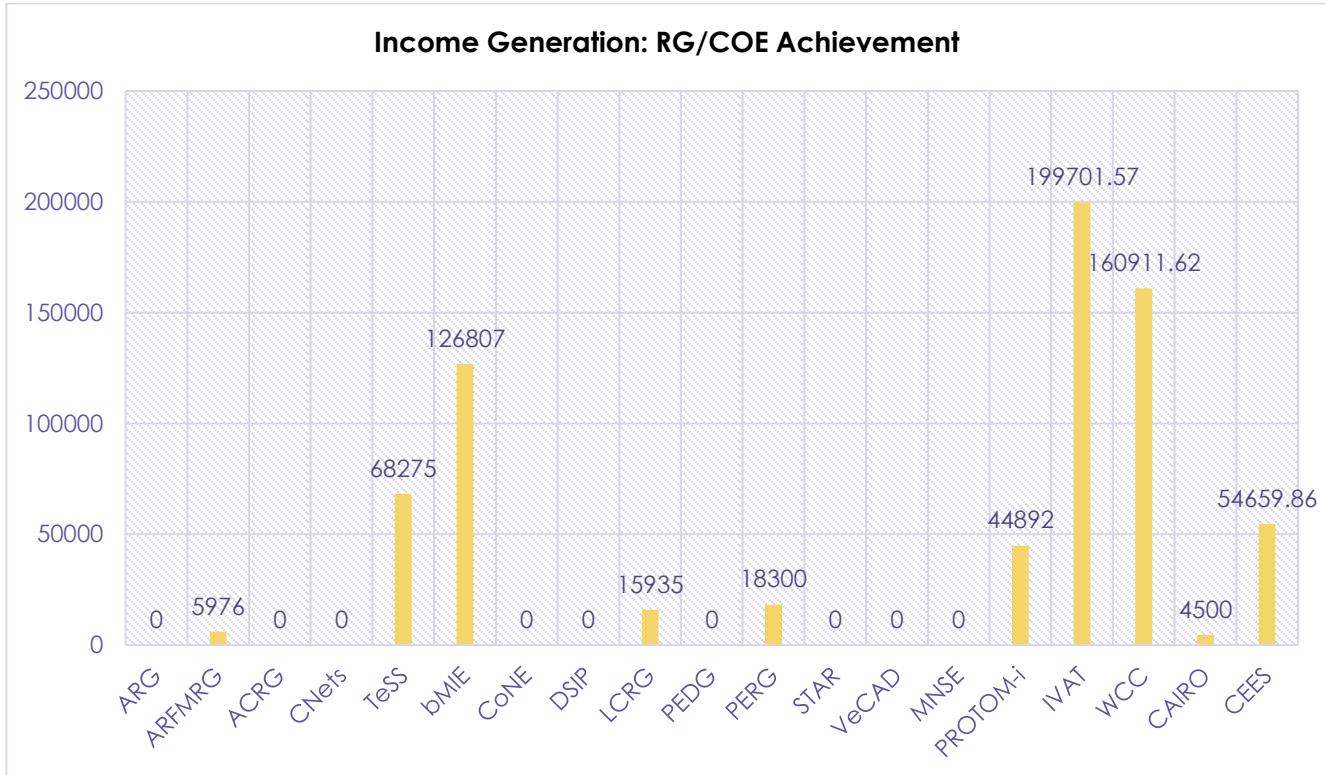


Figure 21 - Income Generation by Research Group Graph

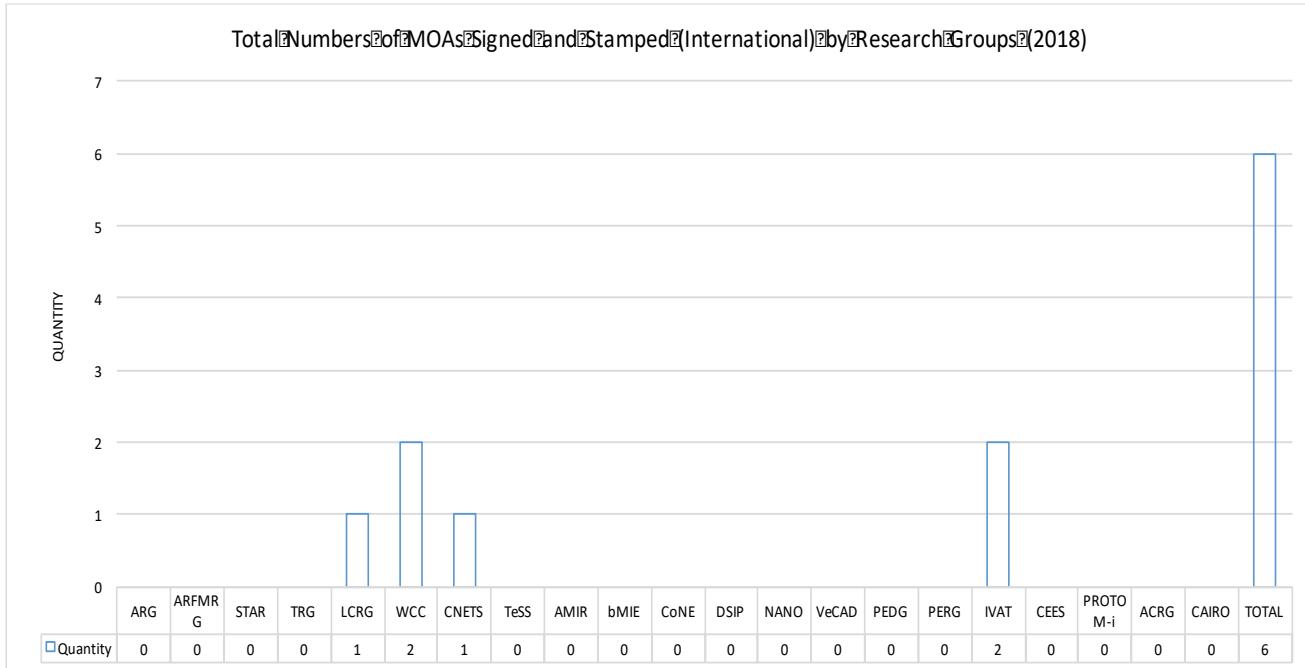
Table 13 – Income Generation by Research Group

|                 | F1(a):<br>Training<br>Courses from<br>Non-Degree<br>Programmes | F2:<br>Conference<br>/Seminar<br>/Short<br>Course | F3(a):<br>Product<br>Commer<br>cialization | F3(b):<br>Technology<br>Know-How<br>Licencing | F4(a):<br>Consultan<br>cy | F4(c): Lab<br>Services | F5:<br>End<br>ow<br>men<br>t | F6: Gifts  | Total      |
|-----------------|--|---|--|---|---------------------------|------------------------|------------------------------|------------|------------|
| RG/COE          | Amount (RM)  |   |  |   |                           |                        |                              |            |            |
| <b>ARG</b>      |  |   |  |   |                           |                        |                              |            |            |
| <b>ARFMRG</b>   |  |   |  |   |                           |                        |                              | 5,976.00   | 5,976.00   |
| <b>ACRG</b>     |  |   |  |   |                           |                        |                              |            |            |
| <b>CNeTS</b>    |  |   |  |   |                           |                        |                              |            |            |
| <b>TeSS</b>     |  |   | 10,000.00                                  |   | 58,275.00                 |                        |                              |            | 68,275.00  |
| <b>bMIE</b>     |  |   |  |   | 126,807.00                |                        |                              |            | 126,807.00 |
| <b>CoNE</b>     |  |   |  |   |                           |                        |                              |            |            |
| <b>DSIP</b>     |  |   |  |   |                           |                        |                              |            |            |
| <b>LCRG</b>     | 2,100.00   |   |  |   | 13,835.00                 |                        |                              |            | 15,935.00  |
| <b>PEDG</b>     |  |   |  |   |                           |                        |                              |            |            |
| <b>PERG</b>     |  |   |  |   | 18,300.00                 |                        |                              |            | 18,300.00  |
| <b>STAR</b>     |  |   |  |   |                           |                        |                              |            |            |
| <b>VeCAD</b>    |  |   |  |   |                           |                        |                              |            |            |
| <b>MNSE</b>     |  |   |  |   |                           |                        |                              |            |            |
| <b>PROTOM-i</b> |  |   |  |   | 40,950.00                 |                        |                              | 3,942.00   | 44,892.00  |
| <b>IVAT</b>     |  |   |  |   | 126,470.42                | 73,231.15              |                              |            | 199,701.57 |
| <b>WCC</b>      | 34,840.00  |   |  |   |                           | 25,712.03              |                              | 100,359.59 | 160,911.62 |
| <b>CAIRO</b>    |  |   | 4,500.00                                   |   |                           |                        |                              |            | 4,500.00   |
| <b>CEES</b>     | 36,660.00  |   |  |   | 17,999.86                 |                        |                              |            | 54,659.86  |

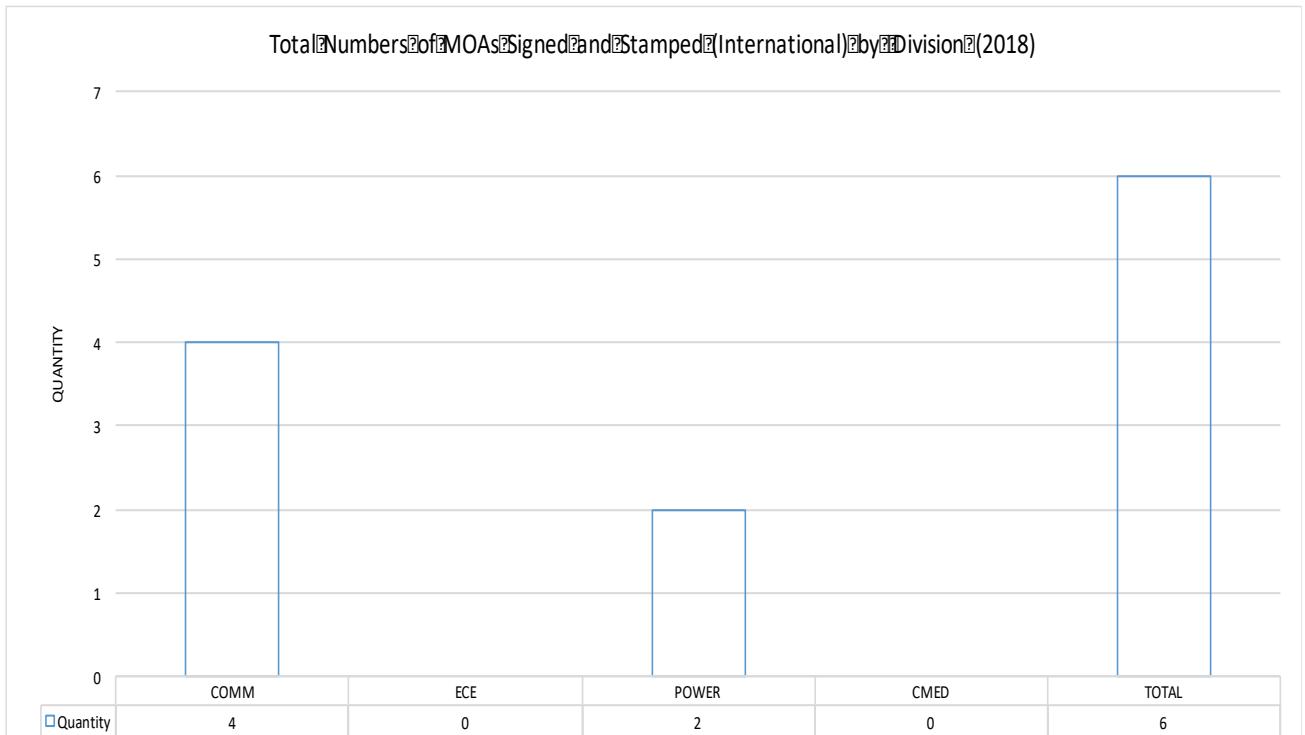
## SECTION G: NETWORKING AND LINKAGES

G1: Participation in International Inter-Institution research related activities under MoA/active agreement

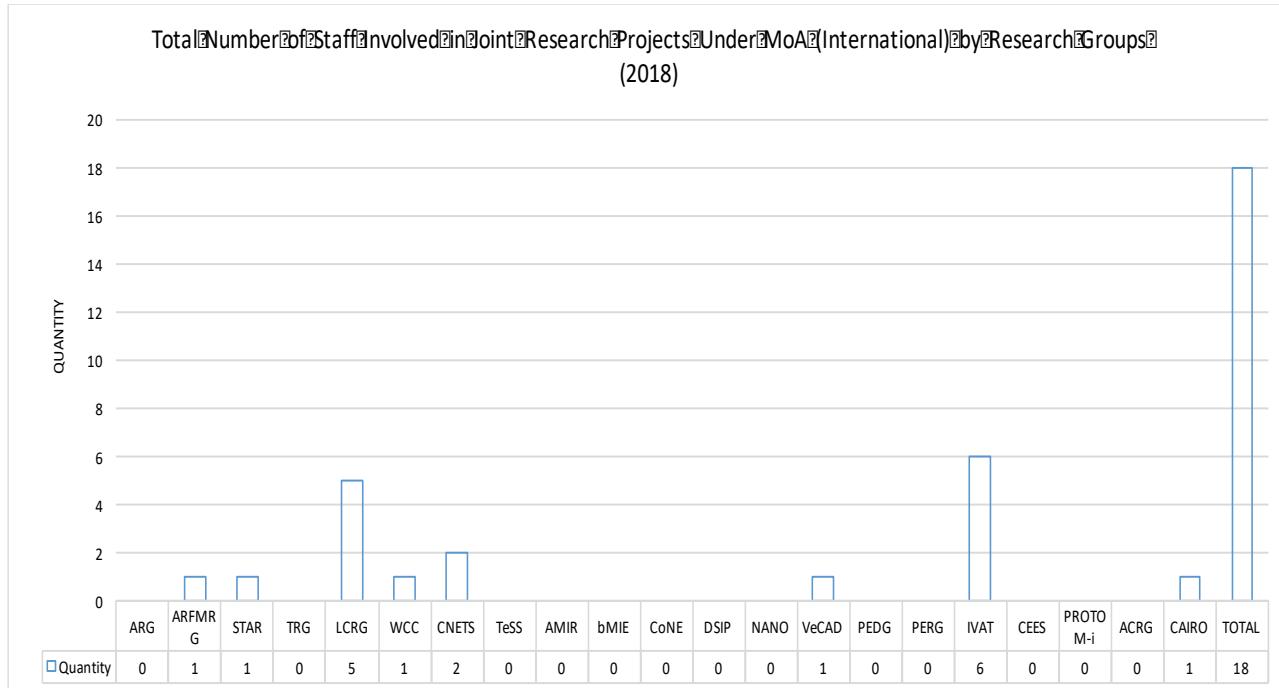
(a) (i) Total Numbers of MOAs Signed and Stamped (International) by Research Groups



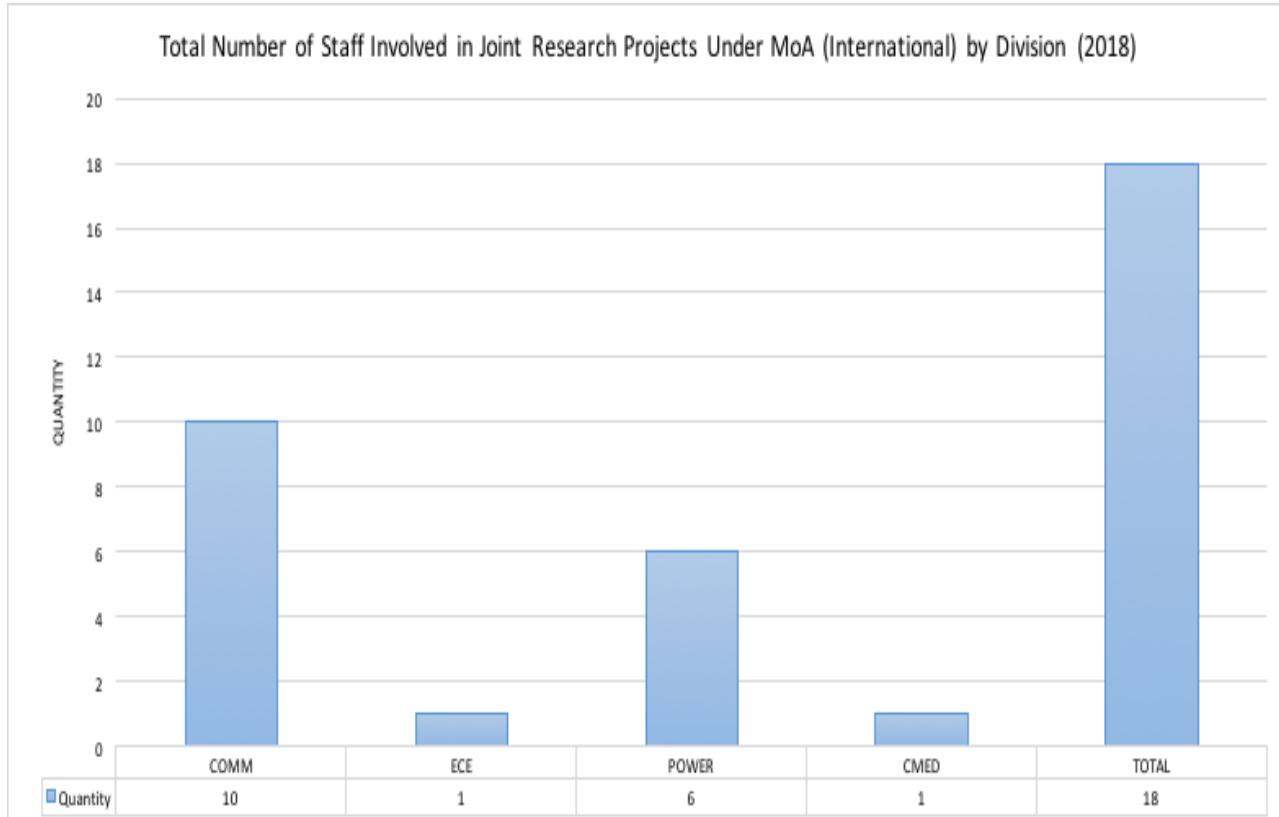
(a) (ii) Total Numbers of MOAs Signed and Stamped (International) by Divisions



## (b) (i) Total Number of Staff Involved in Joint Research Projects Under MoA (International) by Research Groups

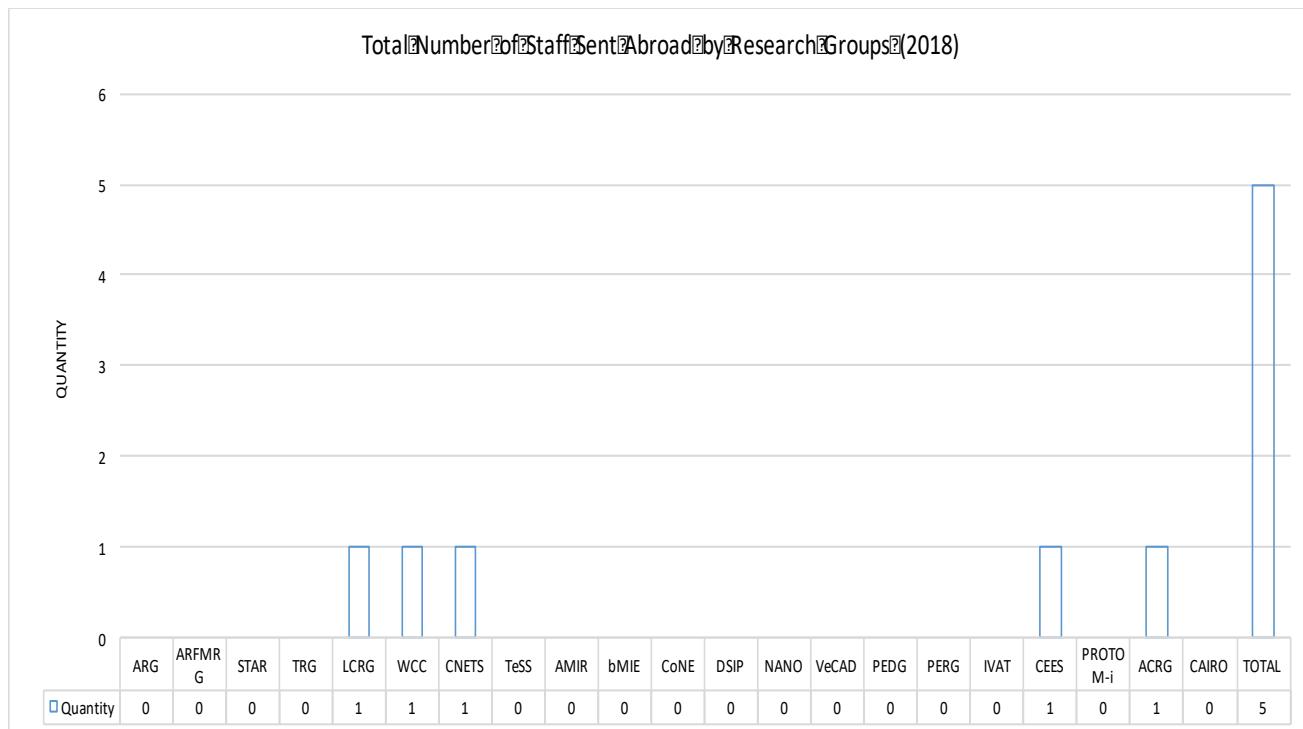


## (b) (ii) Total Number of Staff Involved in Joint Research Projects Under MoA (International) by Divisions

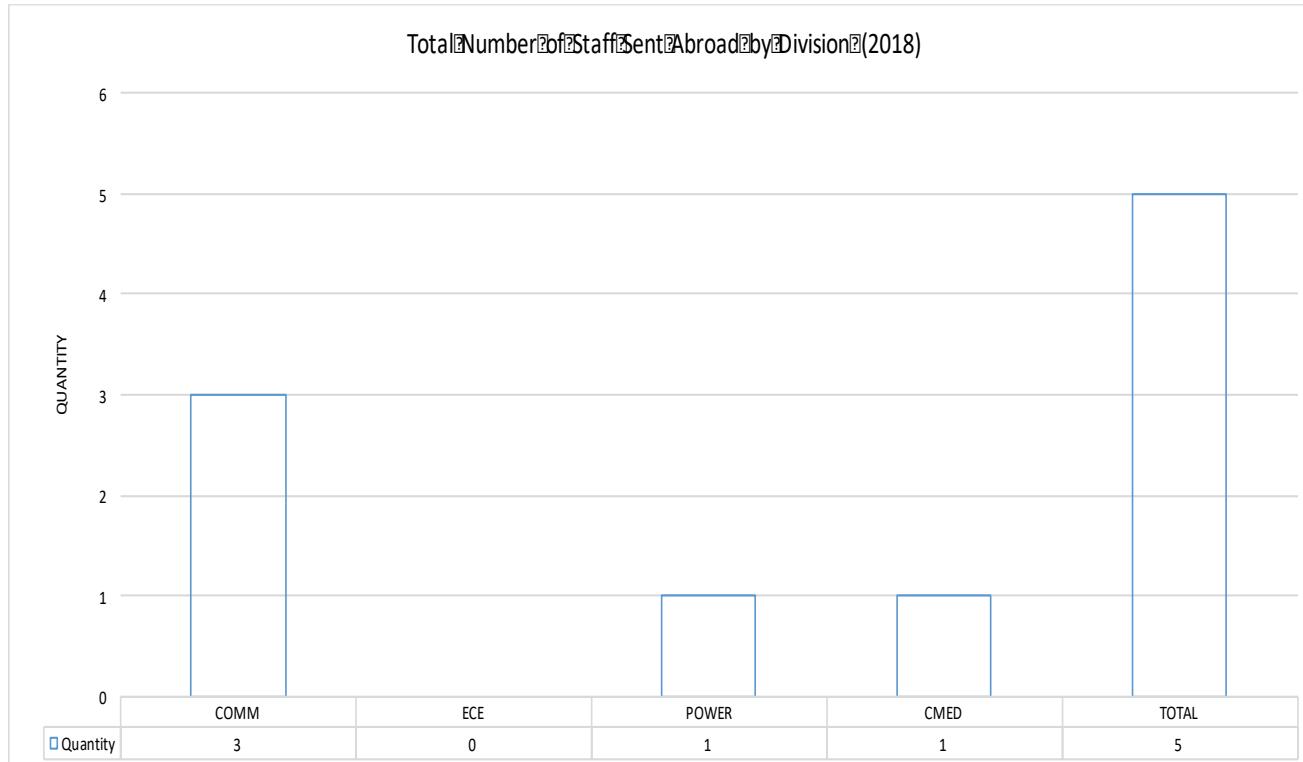


2: Number of Staff Sent Abroad for Research Activities

(i) Number of Staff Sent Abroad for Research Activities by Research Groups

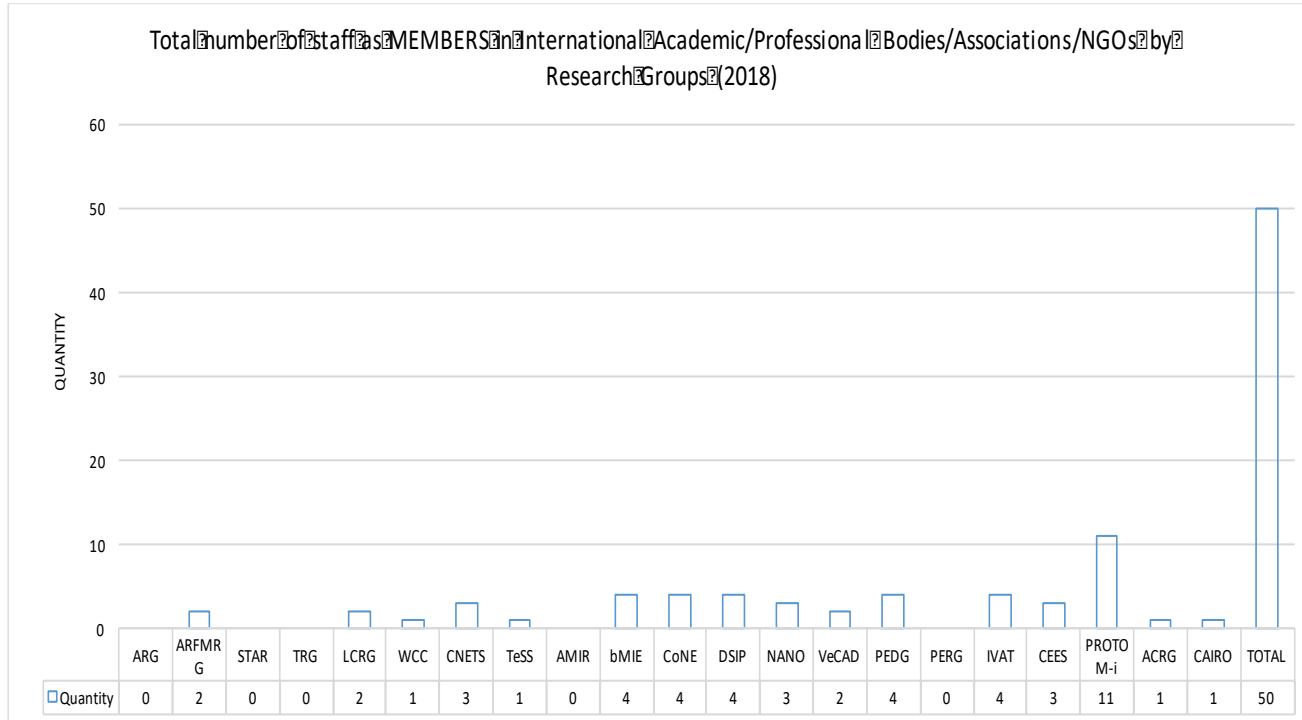


(ii) Number of Staff Sent Abroad for Research Activities by Divisions.

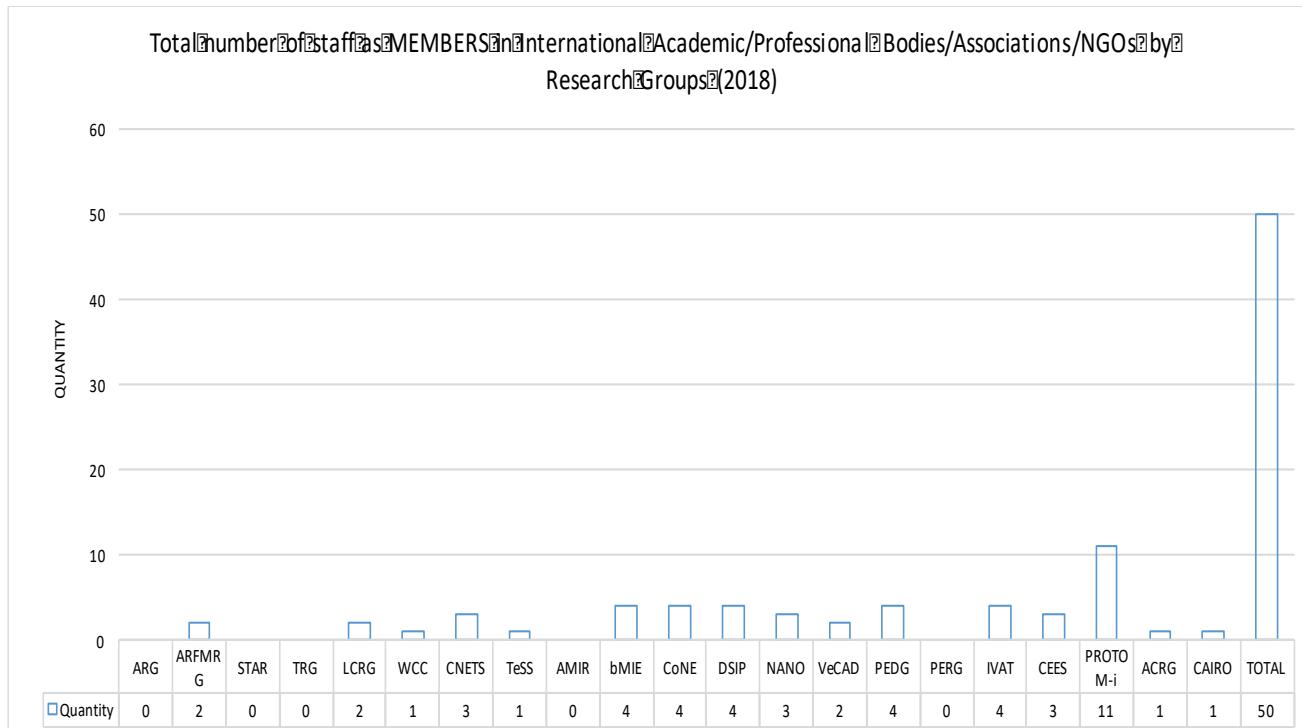


G3: Number of Staff as Members in International Bodies

- (i) Total number of staff as MEMBERS in International Academic/Professional Bodies/Associations/NGOs by Research Groups

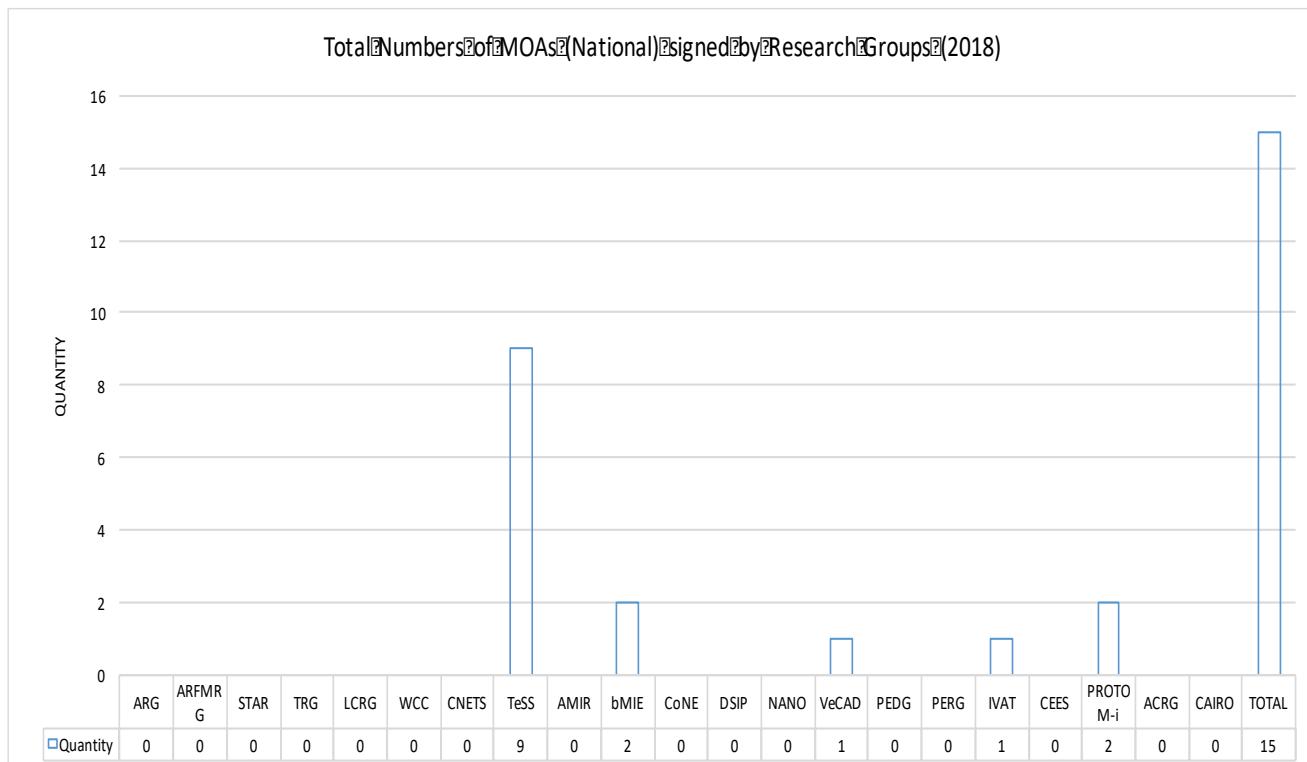


- (ii) Total number of staff as MEMBERS in International Academic/Professional Bodies/Associations/NGOs by Divisions

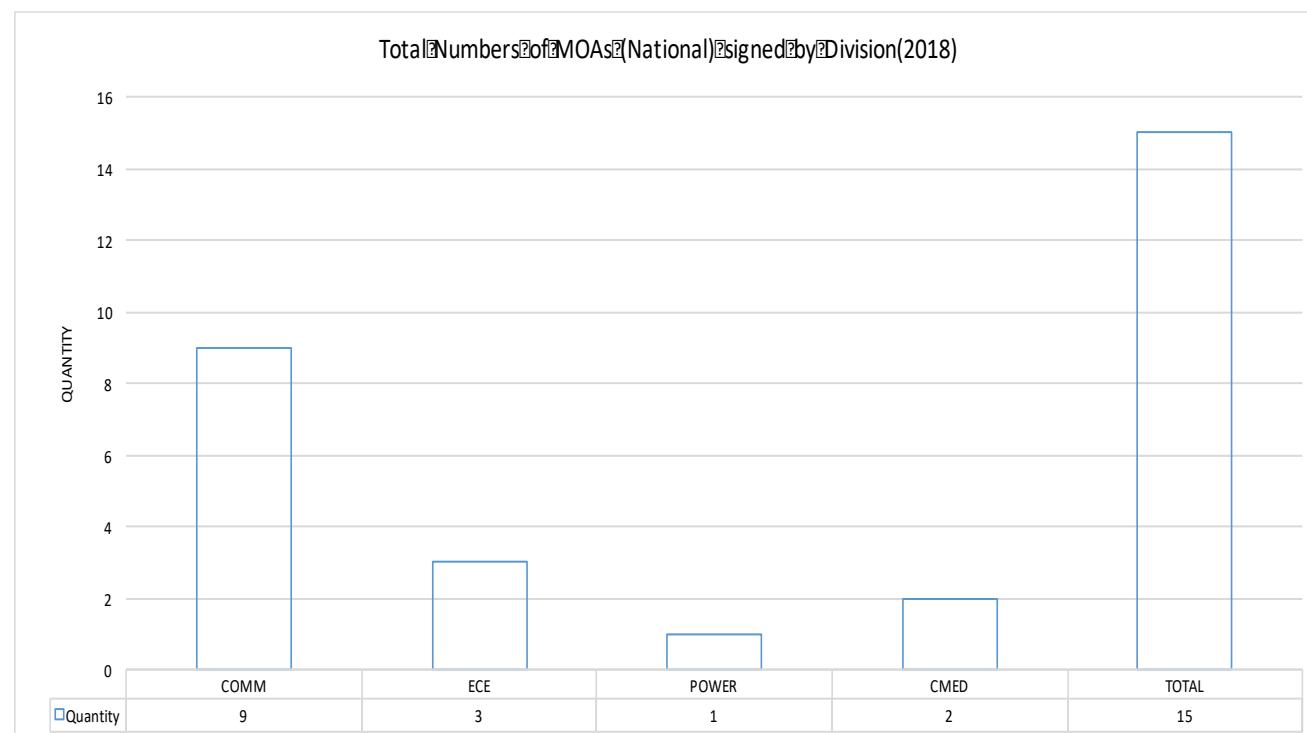


G4: Participation in National Inter-Institution research related activities under MoA

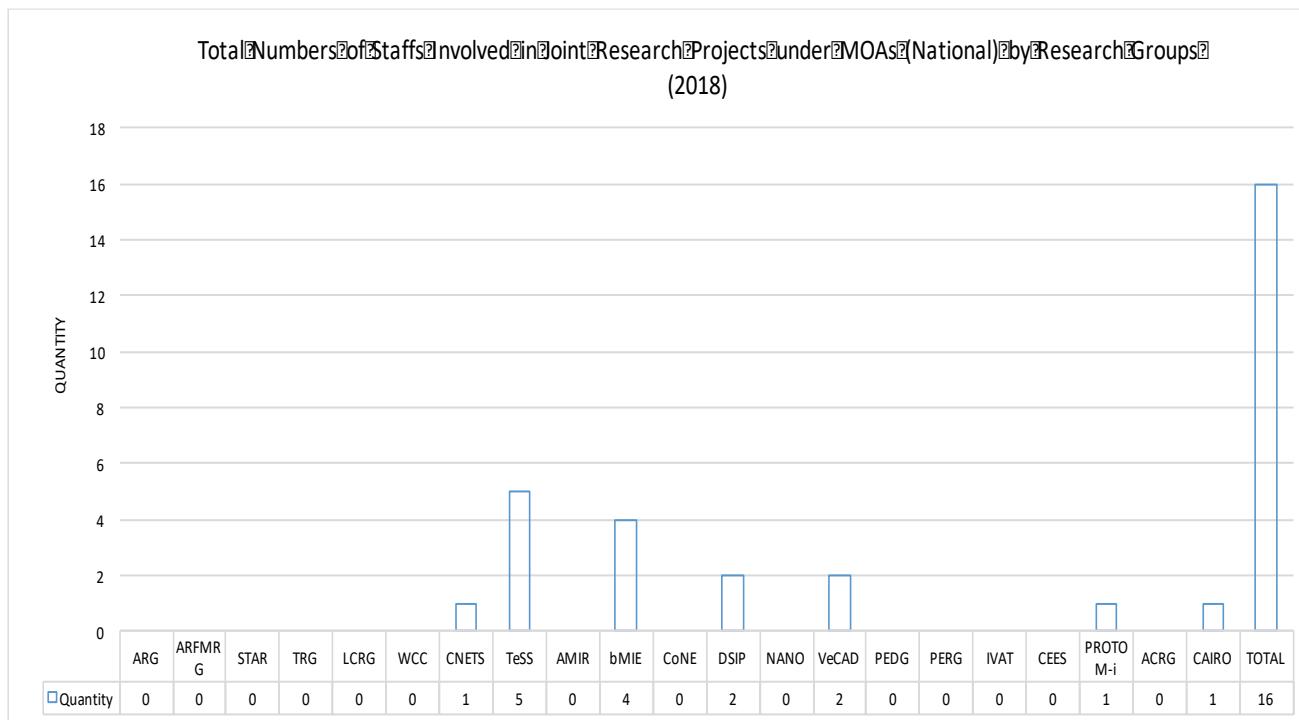
(a) (i) Total number of MoAs signed (National) by Research Groups



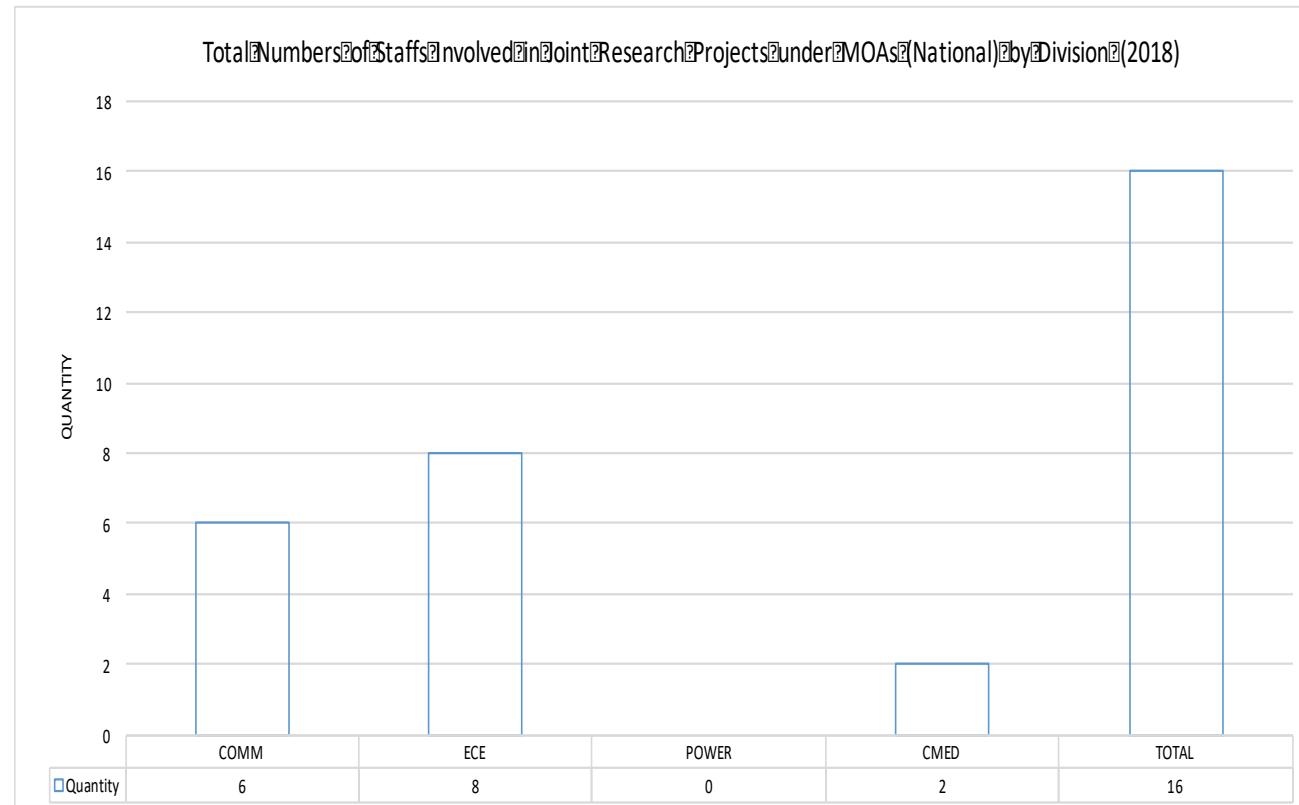
(a) (ii) Total number of MoAs signed (National) by Divisions



## (b) (i) Total Number of Staff Involved in Joint Research Projects Under MoA by Research Group

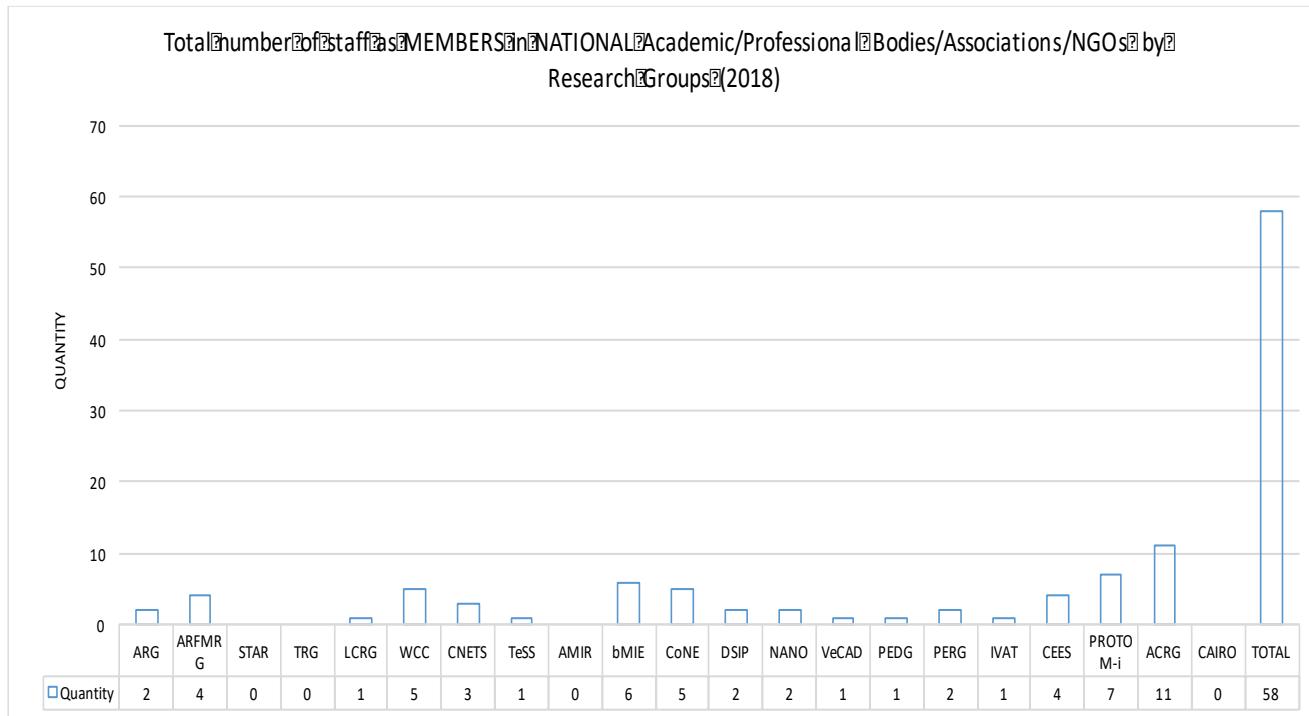


## (b) (ii) Total Number of Staff Involved in Joint Research Projects Under MoA by Divisions

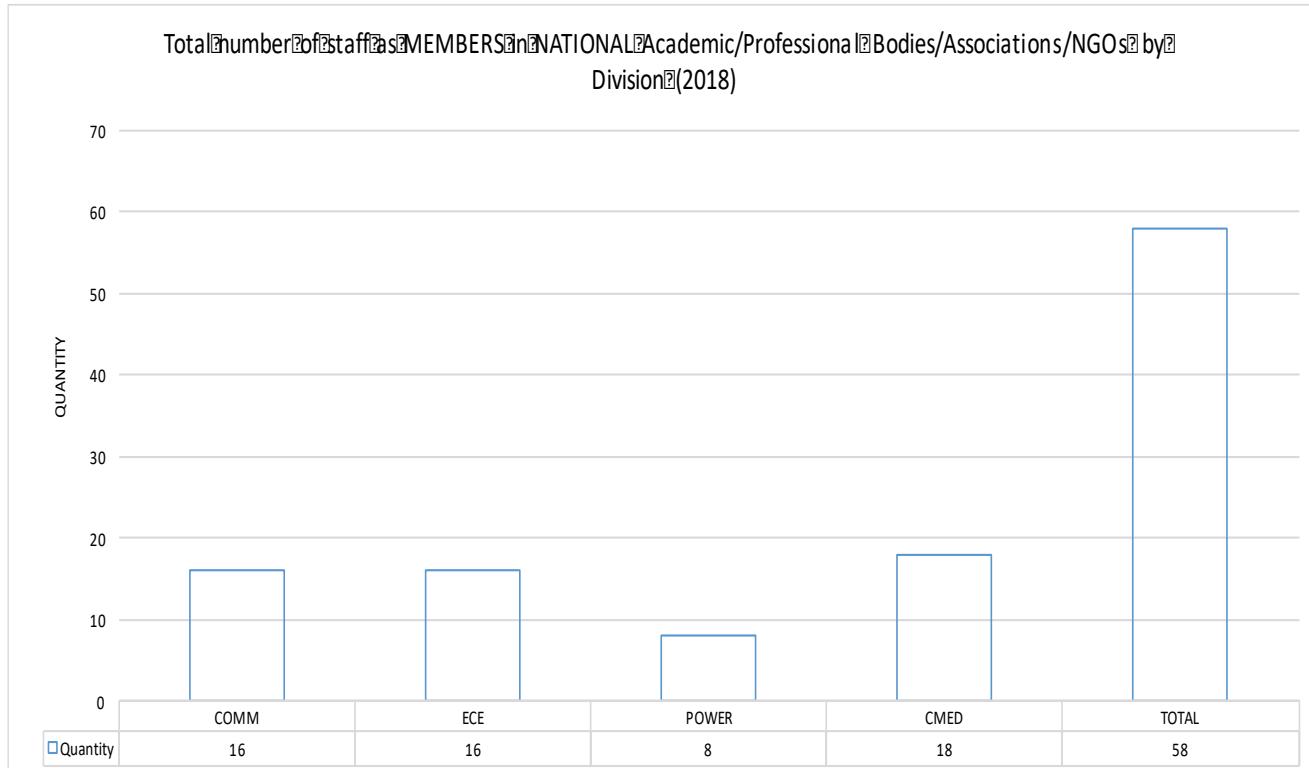


G5: Total number of staff as MEMBERS in NATIONAL bodies

- (i) Total number of staff as MEMBERS in NATIONAL Academic/Professional Bodies/Associations/NGOs by Research Groups

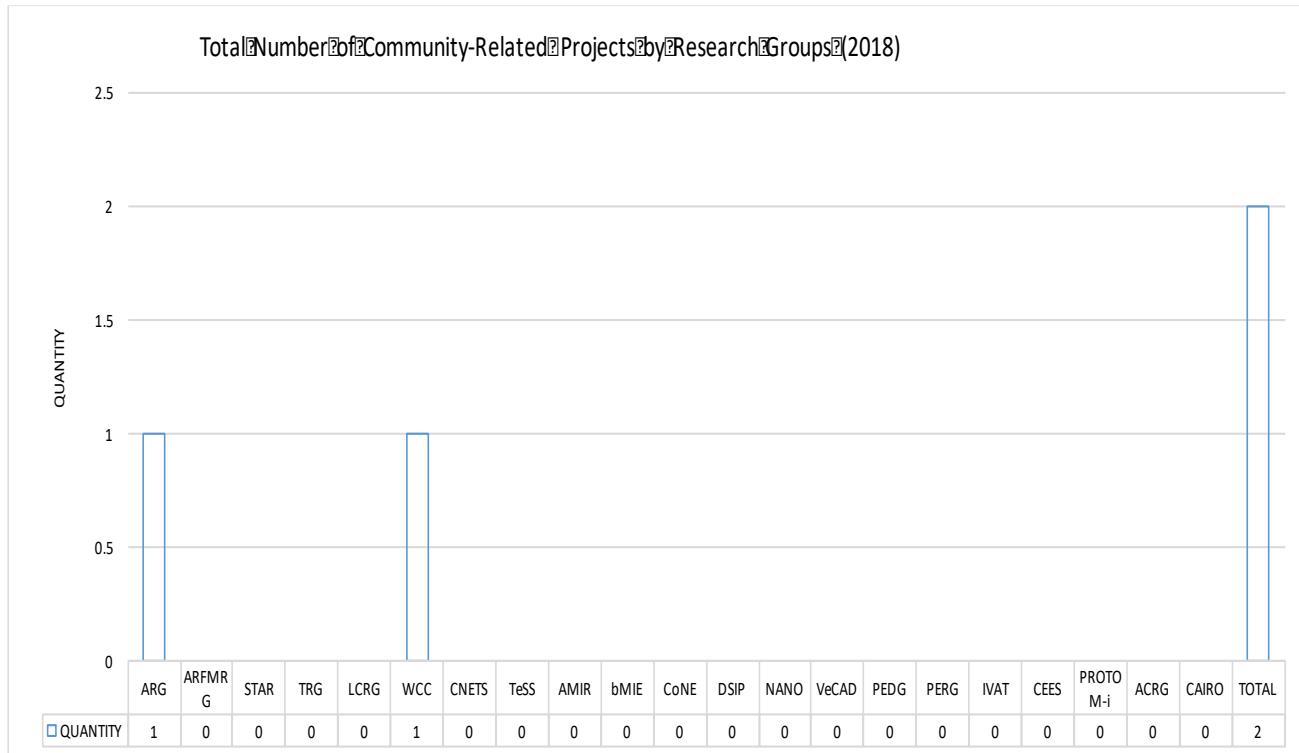


- (ii) Total number of staff as MEMBERS in NATIONAL Academic/Professional Bodies/Associations/NGOs by Divisions

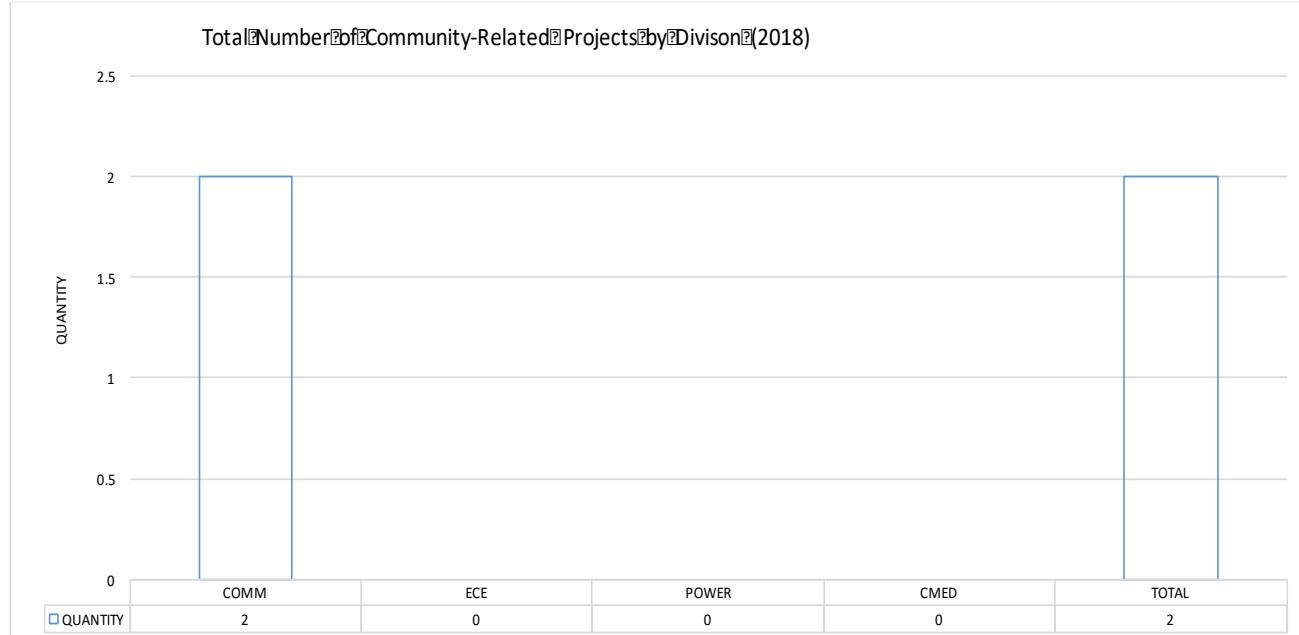


G6: Total Number of Community-Related Projects

(a) (i) Total Number of Community-Related Projects by Research Groups



(a) (ii) Total Number of Community-Related Projects by Divisions



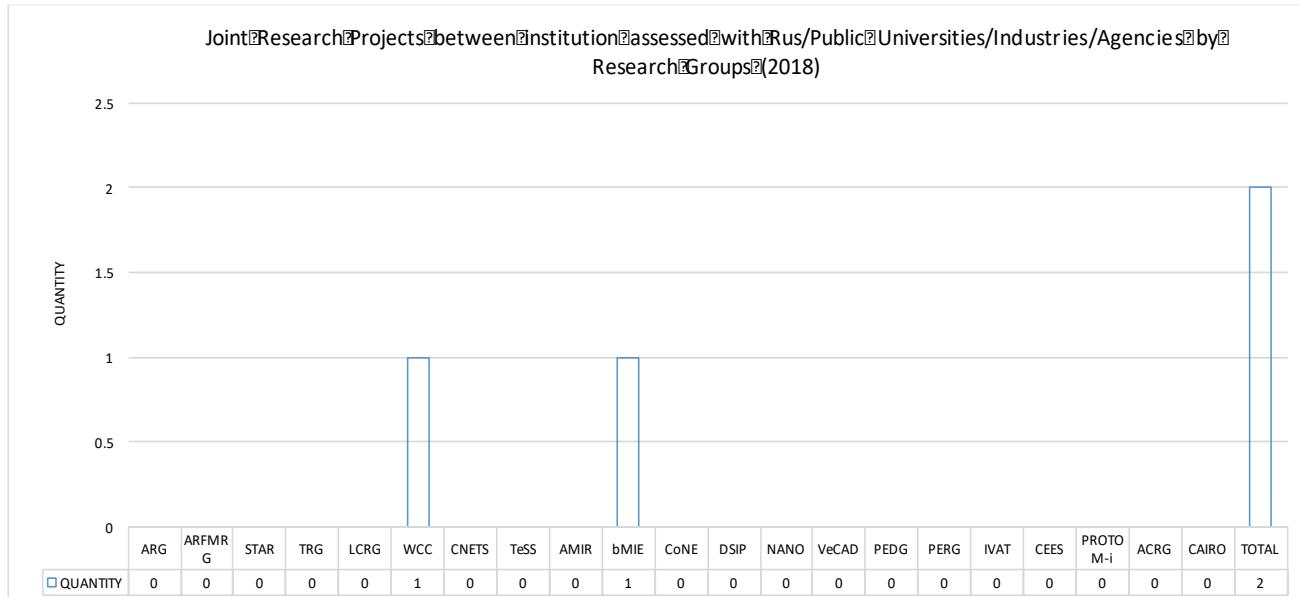
b (i) Total Number of Communities Receiving/Benefiting from the Knowledge/Technology Diffusion Projects by Research Groups

Nil

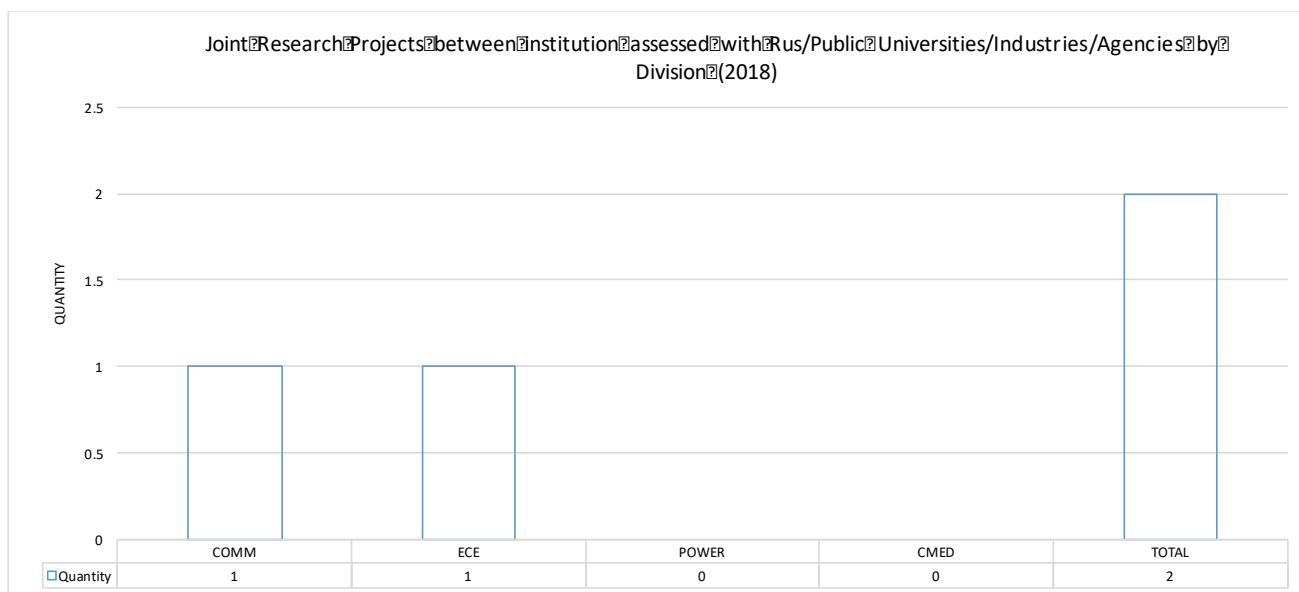
- b (ii) Total Number of Communities Receiving/Benefiting from the Knowledge/Technology Diffusion Projects by Divisions  
Nil

G7: Joint research projects between institution assessed with Rus/Public Universities/Private

- (i) Joint research projects between institution assessed with Rus/Public Universities/Private Universities/Industries/Agencies by Research Groups



- (ii) Joint research projects between institution assessed with Rus/Public Universities/Private Universities/Industries/Agencies by Divisions



- G8: Joint research projects between Research Universities (RUs) in each project  
Nil

**School Achievement  
Malaysia Research  
Assessment  
(MyRA)**

**2019**

## SECTION B

Table 1 - Critical Mass PI for each division

| TYPE/DIVISION        | CMED      | COMM      | ECE       | POWER     | TOTAL      |
|----------------------|-----------|-----------|-----------|-----------|------------|
| <b>University</b>    | 13        | 20        | 19        | 12        | <b>64</b>  |
| <b>National</b>      | 7         | 10        | 12        | 5         | <b>34</b>  |
| <b>Industry</b>      | 3         | 7         | 2         | 3         | <b>15</b>  |
| <b>International</b> | 1         | 3         | 1         | 4         | <b>9</b>   |
| <b>Total</b>         | <b>24</b> | <b>40</b> | <b>34</b> | <b>24</b> | <b>122</b> |

Table 2 - Critical Mass for each RG and CoE/HiCoE

| NO         | RESEARCH GROUP | UNIVERSITY | NATIONAL  | INDUSTRY  | INTERNATIONAL | SUM        |
|------------|----------------|------------|-----------|-----------|---------------|------------|
| 1          | ACRG           | 3          | 4         | 0         | 0             | <b>7</b>   |
| 2          | ARFMRG         | 5          | 1         | 0         | 0             | <b>6</b>   |
| 3          | ARG            | 1          | 0         | 0         | 0             | <b>1</b>   |
| 4          | CNets          | 6          | 0         | 1         | 0             | <b>7</b>   |
| 5          | TeSS           | 1          | 1         | 3         | 0             | <b>5</b>   |
| 6          | BMIE           | 7          | 3         | 1         | 1             | <b>12</b>  |
| 7          | CONE           | 2          | 5         | 0         | 0             | <b>7</b>   |
| 8          | DSIP           | 5          | 2         | 0         | 0             | <b>7</b>   |
| 9          | LCRG           | 5          | 2         | 1         | 2             | <b>10</b>  |
| 10         | MNSE           | 4          | 1         | 0         | 0             | <b>5</b>   |
| 11         | PEDG           | 1          | 1         | 1         | 0             | <b>3</b>   |
| 12         | PERG           | 4          | 2         | 1         | 0             | <b>7</b>   |
| 13         | PROTOM-i       | 7          | 3         | 1         | 0             | <b>11</b>  |
| 14         | STAR           | 2          | 1         | 0         | 0             | <b>3</b>   |
| 15         | VeCAD          | 2          | 0         | 1         | 0             | <b>3</b>   |
| 16         | OTHERS         | 0          | 1         | 0         | 0             | <b>1</b>   |
| 17         | CAIRO          | 1          | 1         | 2         | 0             | <b>4</b>   |
| 18         | CEES           | 5          | 0         | 1         | 0             | <b>6</b>   |
| 19         | IVAT           | 2          | 2         | 0         | 4             | <b>8</b>   |
| 20         | WCC            | 1          | 4         | 2         | 2             | <b>9</b>   |
| <b>SUM</b> |                | <b>64</b>  | <b>34</b> | <b>15</b> | <b>9</b>      | <b>122</b> |

Figure 1 – Stacked Bar Chart of Critical Mass for Each Department

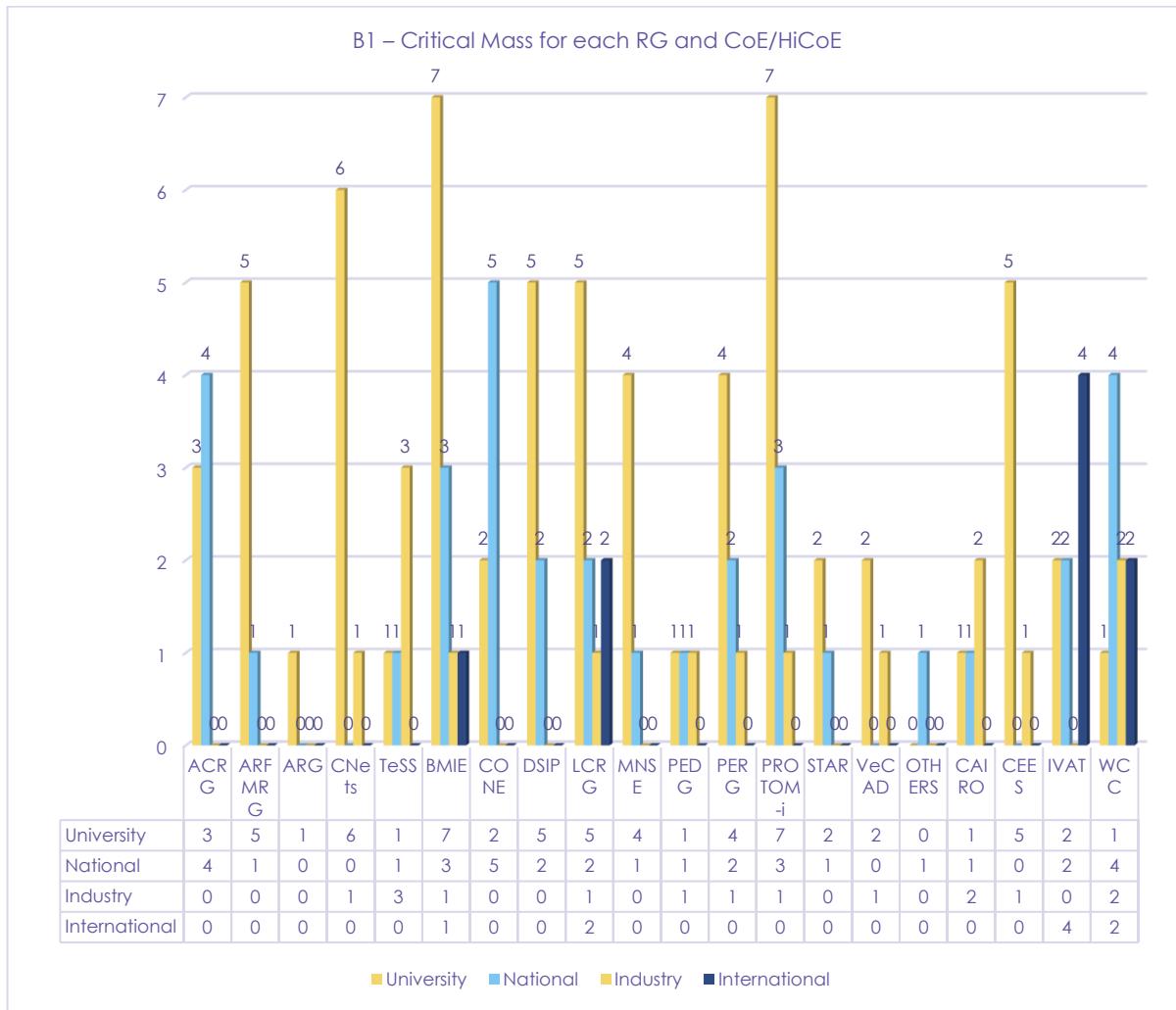


Figure 2 – Clustered Bar Chart of Critical Mass for each RG and CoE/HiCoE

**Section B4 - Awards and recognitions conferred by national and international learned and professional bodies**

Table 3 - Awards and Recognitions Received for each Division

| SEC | AWARDS   |  |  | CMED | COMM | ECE | POWER | TOTAL |
|-----|--|--|--|------|------|-----|-------|-------|
| B4  | <b>Awards and recognitions conferred by national and international learned and professional bodies</b> | a. Award conferred by INTERNATIONAL academic and professional bodies towards research excellent            |  |      |      |     |       |       |
|     |  | b. Recognition and stewardship conferred by INTERNATIONAL Learned and Professional Bodies towards research |  |      |      |     |       |       |
|     |  | c. Award conferred by NATIONAL academic and professional bodies towards research excellent                 |  | 1    |      |     | 1     | 2     |
|     |  | d. Recognition and stewardship conferred by NATIONAL Learned and Professional Bodies towards               |  |      | 1    |     |       | 1     |
|     |  | e. Research Exhibition Awards (gold medals/special awards)   |  |      | 1    | 1   |       | 2     |
|     |  | Total  |  |      | 1    | 2   | 1     | 5     |

Table 4 - Awards and Recognitions Received for each RG and CoE/HiCoE

| NO | RG       | B4a | B4b | B4c | B4d | B4e |
|----|----------|-----|-----|-----|-----|-----|
| 1  | ARG      |     |     |     |     |     |
| 2  | ARFMRG   |     |     |     |     |     |
| 3  | SCRG     |     |     |     |     |     |
| 4  | CNeTs    |     |     |     |     |     |
| 5  | TeSS     |     |     |     |     | 1   |
| 6  | bMIE     |     |     |     |     |     |
| 7  | CoNE     |     |     |     |     |     |
| 8  | DSIP     |     |     |     |     |     |
| 9  | LCRG     |     |     |     |     |     |
| 10 | PEDG     |     |     |     |     |     |
| 11 | PERG     |     |     |     |     |     |
| 12 | STAR     |     |     |     |     |     |
| 13 | VeCAD    |     |     |     |     |     |
| 14 | MNSE     |     |     |     |     |     |
| 15 | PROTOM-i |     |     | 1   |     |     |
| 16 | WCC      |     |     |     | 1   | 1   |
| 17 | CEES     |     |     | 1   |     |     |
| 18 | IVAT     |     |     |     |     |     |
| 19 | CAIRO    | 0   | 0   | 2   | 1   | 2   |

**Awards and recognitions conferred by national and international learned and professional bodies**

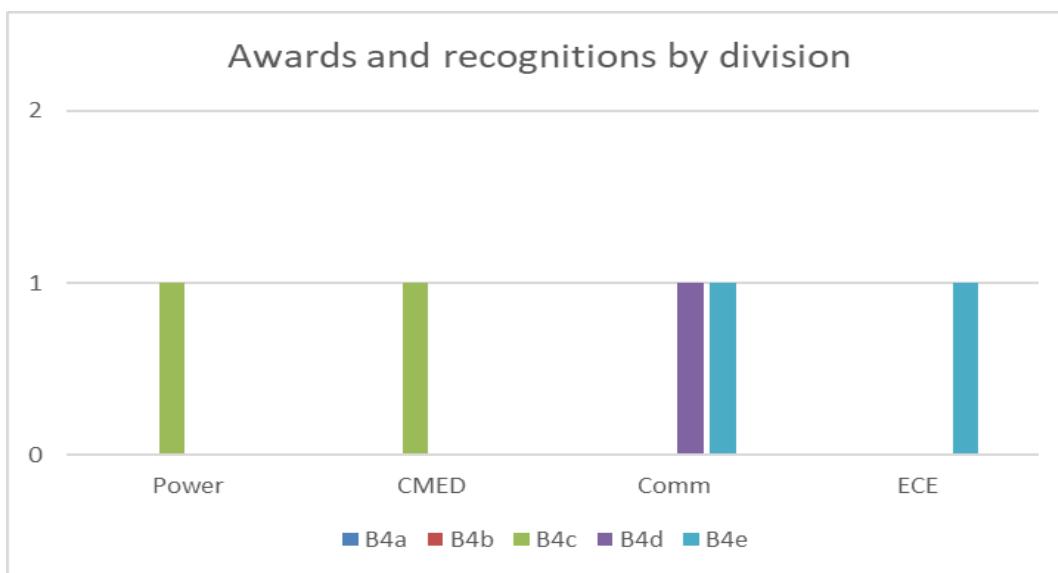


Figure 3 – Awards and Recognitions Received for each Division

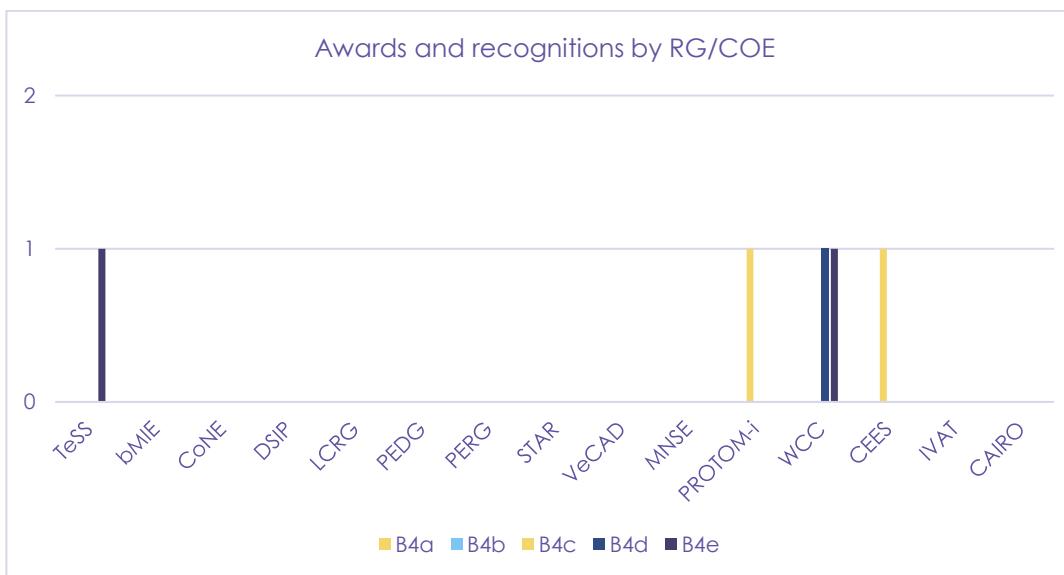


Figure 4 – Awards and Recognitions Received for each RG and CoE/HiCoE

Table 5 – Publications for Each Department

| TYPE                                    | CMED       | COMM       | ECE        | POWER      | SUM        |
|---|------------|------------|------------|------------|------------|
| JOURNAL – J                             | 34         | 111        | 39         | 74         | <b>258</b> |
| JOINT PUBLICATION (INDUSTRIAL) - JPIn   | 1          | 2          | 0          | 2          | <b>5</b>   |
| JOINT PUBLICATION (NATIONAL) - JPN      | 11         | 47         | 14         | 11         | <b>83</b>  |
| JOINT PUBLICATION (INTERNATIONAL) - JPI | 12         | 45         | 11         | 52         | <b>120</b> |
| PROCEEDINGS – P                         | 10         | 28         | 28         | 51         | <b>117</b> |
| MyCITE – MC                             | 7          | 3          | 2          | 1          | <b>13</b>  |
| RESEARCH BOOK – RB                      | 1          | 0          | 1          | 1          | <b>3</b>   |
| CHAPTERS IN RB – CRB                    | 18         | 3          | 0          | 0          | <b>21</b>  |
| CASE STUDIES - CS                       | 0          | 1          | 0          | 0          | <b>1</b>   |
| OTHER PUBLICATIONS - OP                 | 24         | 27         | 35         | 27         | <b>113</b> |
| <b>SUM</b>                              | <b>118</b> | <b>267</b> | <b>130</b> | <b>219</b> |            |

Table 6 – Publications for each RG and CoE/HiCoE

| NO        | RG         | J          | JPIn     | JPN       | JPI        | P          | MC        | RB       | CRB       | CS       | OP         | SUM        |
|-----------|------------|------------|----------|-----------|------------|------------|-----------|----------|-----------|----------|------------|------------|
| <b>1</b>  | ACRG       | 16         | 0        | 3         | 8          | 5          | 0         | 1        | 0         | 0        | 7          | <b>40</b>  |
| <b>2</b>  | ARFMRG     | 19         | 0        | 9         | 4          | 8          | 0         | 0        | 0         | 0        | 8          | <b>48</b>  |
| <b>3</b>  | ARG        | 0          | 0        | 0         | 0          | 0          | 0         | 0        | 1         | 0        | 3          | <b>4</b>   |
| <b>4</b>  | CNets      | 10         | 0        | 4         | 4          | 3          | 0         | 0        | 0         | 0        | 6          | <b>27</b>  |
| <b>5</b>  | TeSS       | 16         | 0        | 11        | 1          | 5          | 2         | 0        | 0         | 1        | 3          | <b>39</b>  |
| <b>6</b>  | BMIE       | 3          | 0        | 1         | 2          | 5          | 0         | 1        | 0         | 0        | 9          | <b>21</b>  |
| <b>7</b>  | CONE       | 21         | 0        | 9         | 4          | 5          | 1         | 0        | 0         | 0        | 14         | <b>54</b>  |
| <b>8</b>  | DSIP       | 6          | 0        | 3         | 2          | 8          | 1         | 0        | 0         | 0        | 5          | <b>25</b>  |
| <b>9</b>  | LCRG       | 9          | 1        | 3         | 6          | 1          | 0         | 0        | 1         | 0        | 4          | <b>25</b>  |
| <b>10</b> | MNSE       | 1          | 0        | 0         | 0          | 4          | 0         | 0        | 0         | 0        | 6          | <b>11</b>  |
| <b>11</b> | PEDG       | 16         | 0        | 0         | 12         | 4          | 0         | 0        | 0         | 0        | 0          | <b>32</b>  |
| <b>12</b> | PERG       | 14         | 0        | 0         | 12         | 5          | 1         | 1        | 0         | 0        | 4          | <b>37</b>  |
| <b>13</b> | PROTOM-i   | 12         | 1        | 6         | 2          | 4          | 3         | 0        | 18        | 0        | 7          | <b>53</b>  |
| <b>14</b> | STAR       | 1          | 0        | 0         | 1          | 0          | 0         | 0        | 0         | 0        | 0          | <b>2</b>   |
| <b>15</b> | VeCAD      | 8          | 0        | 1         | 3          | 6          | 0         | 0        | 0         | 0        | 1          | <b>19</b>  |
| <b>16</b> | OTHERS     | 4          | 0        | 0         | 3          | 0          | 0         | 0        | 2         | 0        | 1          | <b>10</b>  |
| <b>17</b> | CAIRO      | 6          | 0        | 2         | 2          | 1          | 4         | 0        | 0         | 0        | 10         | <b>25</b>  |
| <b>18</b> | CEES       | 19         | 0        | 7         | 9          | 3          | 0         | 0        | 0         | 0        | 2          | <b>40</b>  |
| <b>19</b> | IVAT       | 25         | 2        | 4         | 19         | 39         | 0         | 0        | 0         | 0        | 21         | <b>110</b> |
| <b>20</b> | WCC        | 56         | 1        | 20        | 29         | 11         | 1         | 0        | 1         | 0        | 3          | <b>122</b> |
|           | <b>SUM</b> | <b>262</b> | <b>5</b> | <b>83</b> | <b>123</b> | <b>117</b> | <b>13</b> | <b>3</b> | <b>23</b> | <b>1</b> | <b>114</b> | <b>744</b> |

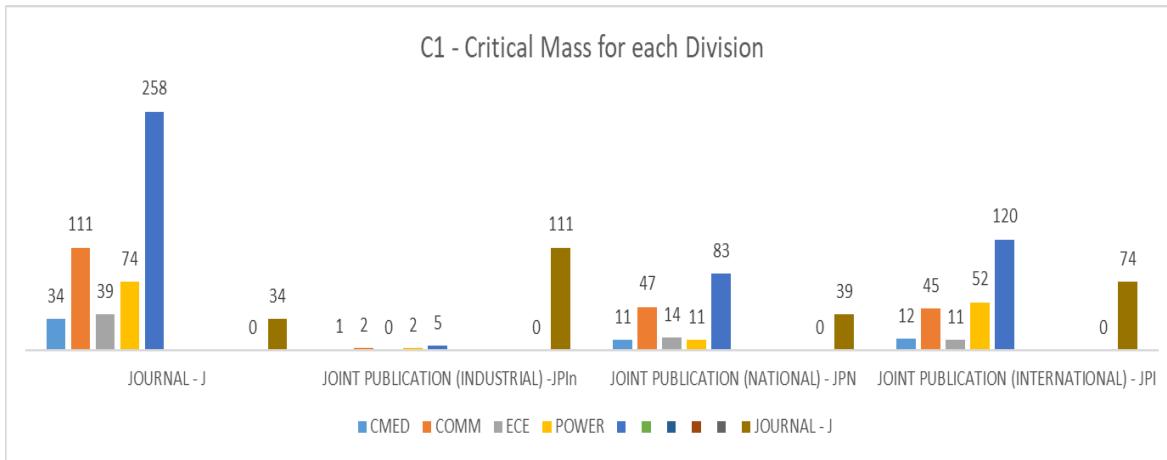


Figure 5 – Clustered bar chart of Publications for each Division

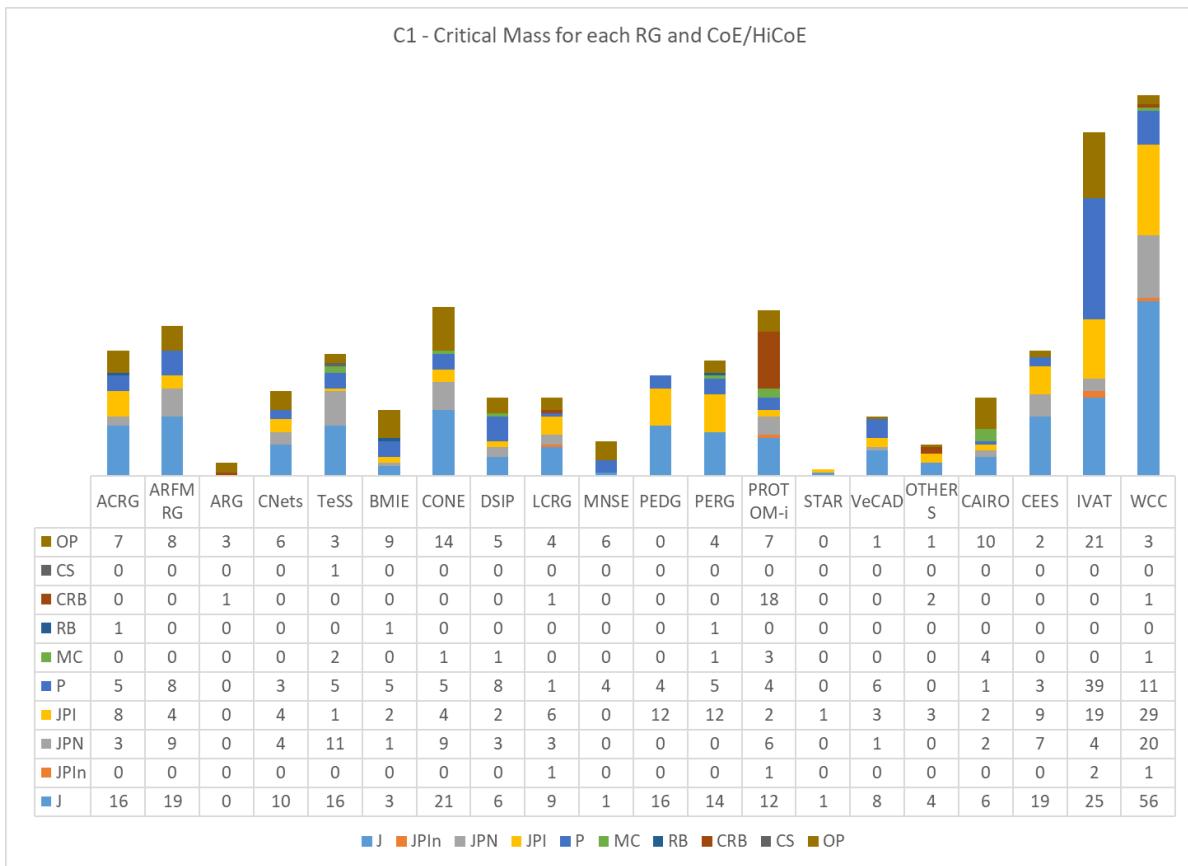


Figure 6 – Stacked Bar Chart of Publications for each RG and CoE/HiCoE

## Section C2 - Research Grants Received

Table 7 - Public, Private and International Research Grants Received for each Division

| TYPE                        | CMED               | COMM               | ECE                | POWER            | SUM                |
|-----------------------------|--------------------|--------------------|--------------------|------------------|--------------------|
| <b>Public Grants</b>        | RM1,072,260        | RM1,793,550        | RM1,037,265        | RM834,554        | <b>RM4,737,629</b> |
| <b>Private Grants</b>       | RM715,300          | RM645,740          | RM87,552           | RM80,000         | <b>RM1,528,592</b> |
| <b>International Grants</b> | RM31,312           | RM20,499           | RM24,474           | RM80,702         | <b>RM156,986</b>   |
| <b>SUM</b>                  | <b>RM1,818,872</b> | <b>RM2,459,788</b> | <b>RM1,149,291</b> | <b>RM995,256</b> | <b>RM6,423,207</b> |

Table 8 - Research Grants Received for each RG and CoE/HiCoE

| NO         | RG              | PUBLIC                | PRIVATE               | INTERNATIONAL       | SUM                   |
|------------|-----------------|-----------------------|-----------------------|---------------------|-----------------------|
| 1          | <b>ACRG</b>     | RM183,700             | RM0                   | RM0                 | <b>RM183,700.00</b>   |
| 2          | <b>ARFMRG</b>   | RM130,200             | RM0                   | RM0                 | <b>RM130,200.00</b>   |
| 3          | <b>ARG</b>      | RM12,400              | RM0                   | RM0                 | <b>RM12,400.00</b>    |
| 4          | <b>CNets</b>    | RM99,300              | RM19,163              | RM0                 | <b>RM118,463.48</b>   |
| 5          | <b>TeSS</b>     | RM607,085             | RM466,576             | RM0                 | <b>RM1,073,661.30</b> |
| 6          | <b>BMIE</b>     | RM340,790             | RM87,552              | RM24,474            | <b>RM452,815.53</b>   |
| 7          | <b>CONE</b>     | RM306,425             | RM0                   | RM0                 | <b>RM306,425.00</b>   |
| 8          | <b>DSIP</b>     | RM153,200             | RM0                   | RM0                 | <b>RM153,200.00</b>   |
| 9          | <b>LCRG</b>     | RM185,150             | RM30,000              | RM31,312            | <b>RM246,462.38</b>   |
| 10         | <b>MNSE</b>     | RM234,710             | RM0                   | RM0                 | <b>RM234,710.00</b>   |
| 11         | <b>PEDG</b>     | RM59,400              | RM0                   | RM0                 | <b>RM59,400.00</b>    |
| 12         | <b>PERG</b>     | RM135,154             | RM80,000              | RM0                 | <b>RM215,154.00</b>   |
| 13         | <b>PROTOM-i</b> | RM412,250             | RM620,000             | RM0                 | <b>RM1,032,250.00</b> |
| 14         | <b>STAR</b>     | RM21,000              | RM0                   | RM0                 | <b>RM21,000.00</b>    |
| 15         | <b>VeCAD</b>    | RM77,150              | RM0                   | RM0                 | <b>RM77,150.00</b>    |
| 16         | <b>OTHERS</b>   | RM82,000              | RM0                   | RM0                 | <b>RM82,000.00</b>    |
| 17         | <b>CAIRO</b>    | RM315,000             | RM95,300              | RM0                 | <b>RM410,300.00</b>   |
| 18         | <b>CEES</b>     | RM117,300             | RM0                   | RM0                 | <b>RM117,300.00</b>   |
| 19         | <b>IVAT</b>     | RM522,700             | RM0                   | RM80,702            | <b>RM603,401.88</b>   |
| 20         | <b>WCC</b>      | RM742,715             | RM130,000             | RM20,499            | <b>RM893,213.38</b>   |
| <b>SUM</b> |                 | <b>RM4,737,628.75</b> | <b>RM1,528,591.78</b> | <b>RM156,986.42</b> | <b>RM6,423,206.95</b> |

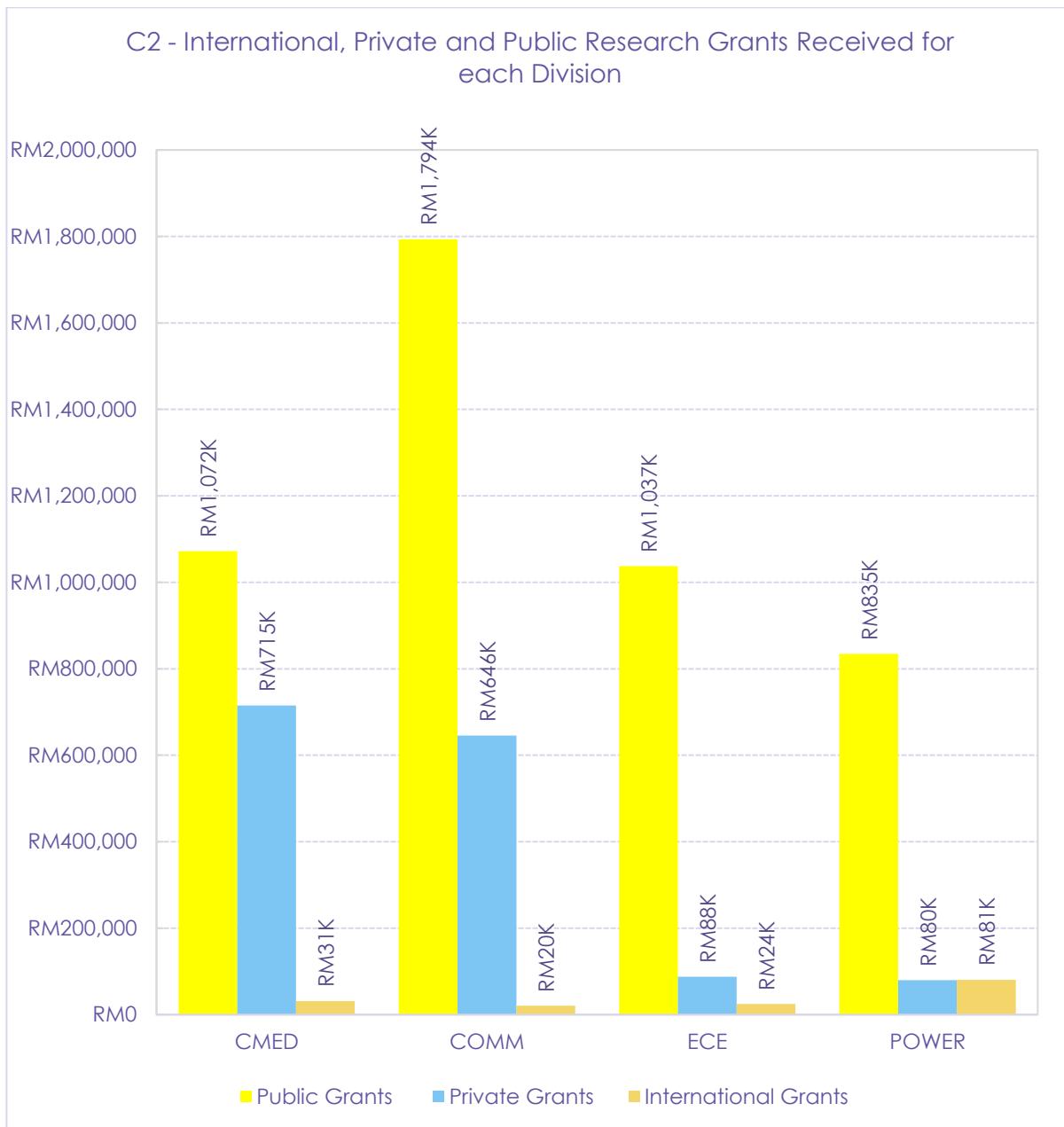


Figure 7 – Clustered Bar Chart of Public, Private and International Research Grants for each Division

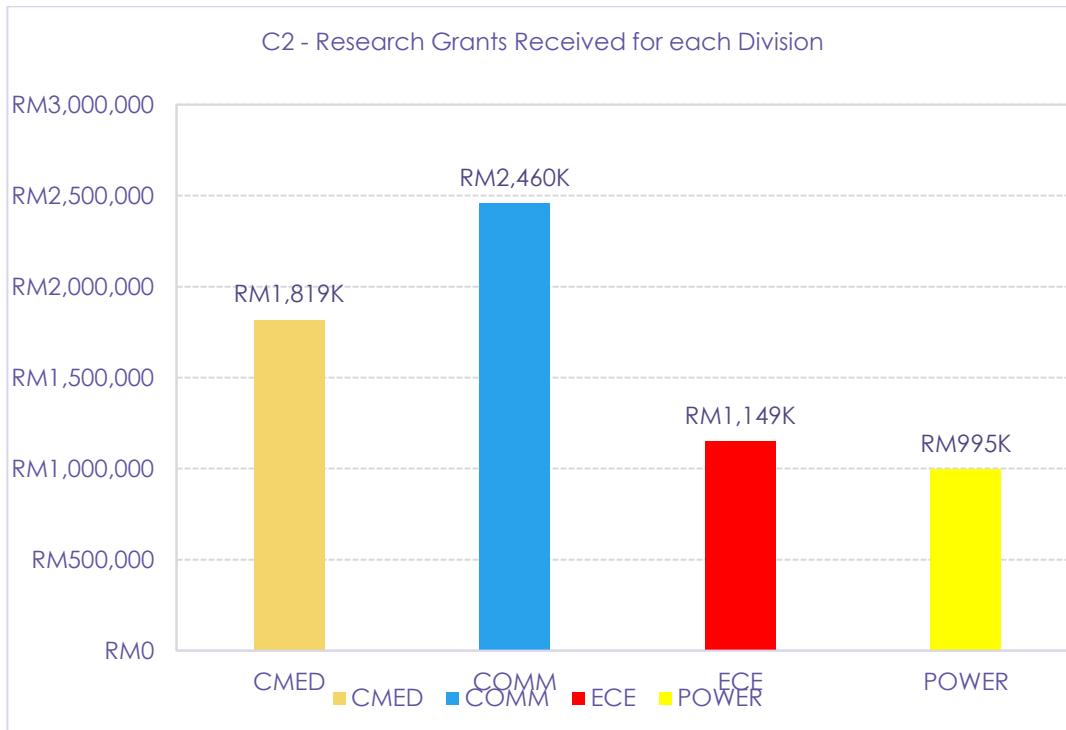


Figure 8 - Bar Chart of Research Grants for each Division

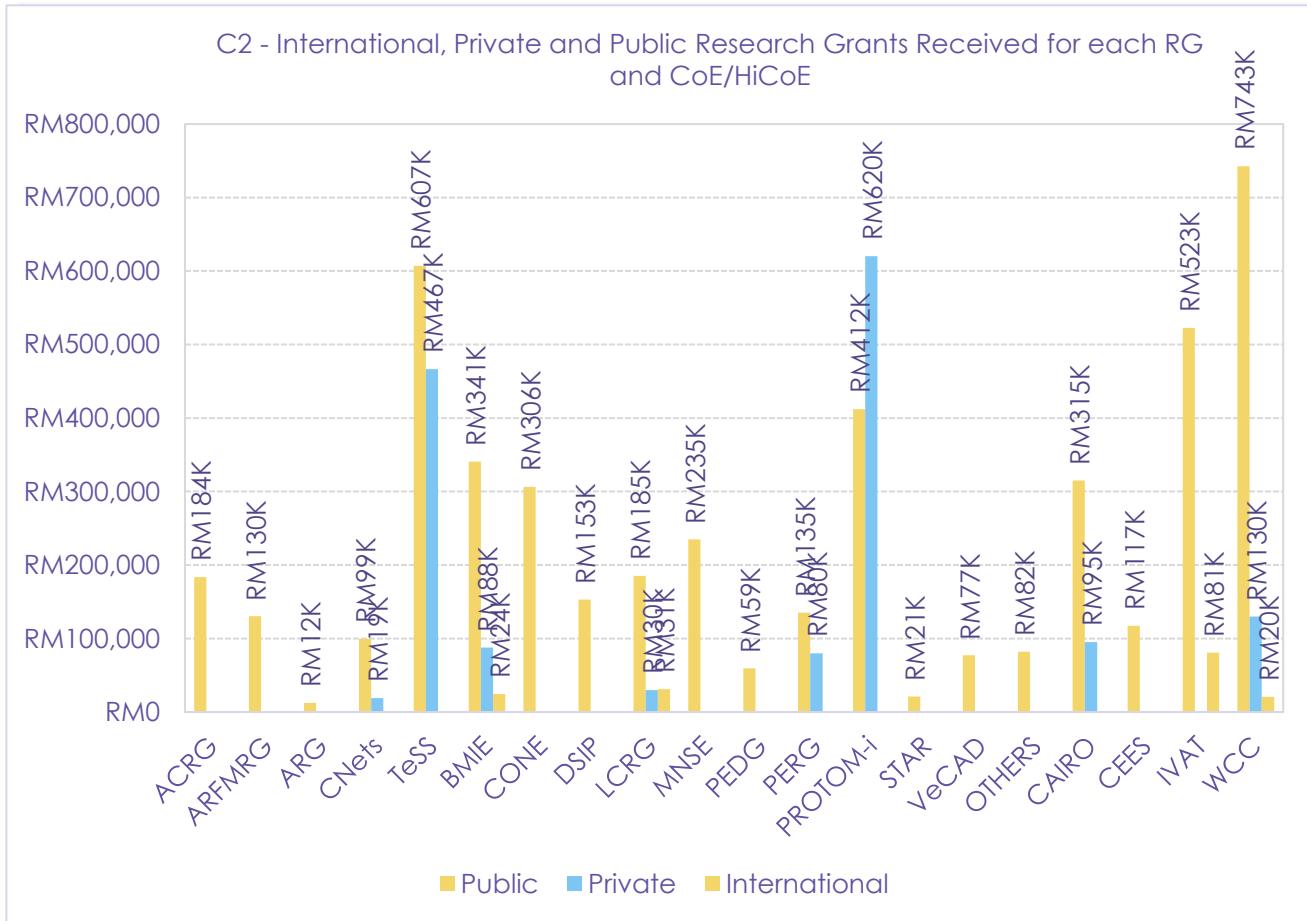


Figure 9 – Clustered Bar Chart of Public, Private and International Research Grants for each RG and CoE/HiCoE

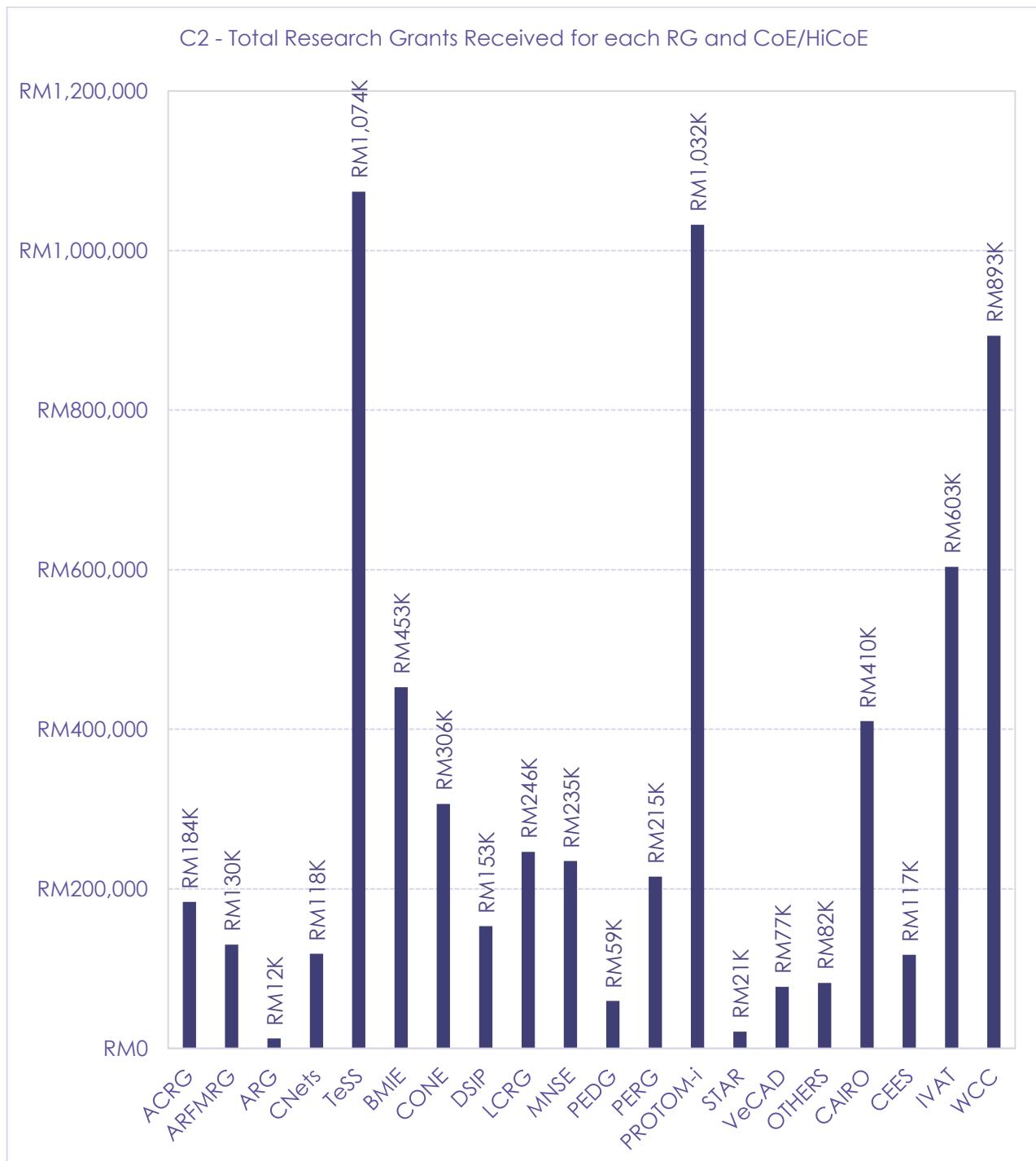


Figure 10 - Bar Chart of Total Research Grants (Public, Private and International) Received for each RG and CoE/HiCoE

#### SECTION D: POSTGRADUATE STUDENT

Table 9: Number of SKE postgraduate students based on MEng (taught course), MPhil (research mode) and PhD based on research group. Total research student is 434.

| <b>RG &amp; COE</b> | <b>MEng</b> | <b>MPhil</b> | <b>PhD</b> | <b>Research (MPhil + PhD)</b> |
|---------------------|-------------|--------------|------------|-------------------------------|
| ARG                 | 1           | 1            | 6          | 7                             |
| ARFMRG              | 6           | 3            | 24         | 27                            |
| ACRG                | 8           | 10           | 29         | 39                            |
| CNETs               | 5           | 6            | 22         | 28                            |
| TeSS                | 2           | 1            | 3          | 4                             |
| bMIE                | 7           | 7            | 11         | 18                            |
| CoNE                | 10          | 9            | 14         | 23                            |
| DSIP                | 19          | 7            | 16         | 23                            |
| LCRG                | 10          | 5            | 17         | 22                            |
| PEDG                | 16          | 1            | 20         | 21                            |
| PERG                | 19          | 4            | 21         | 25                            |
| STAR                | 4           | 4            | 4          | 8                             |
| VeCAD               | 9           | 2            | 18         | 20                            |
| MNSE                | 2           | 6            | 3          | 9                             |
| PROTOM-i            | 3           | 10           | 30         | 40                            |
| WCC                 | 2           | 9            | 41         | 50                            |
| CEES                | 9           | 7            | 23         | 30                            |
| IVAT                | 23          | 7            | 24         | 31                            |
| CAIRO               | 7           | 5            | 4          | 9                             |
| <b>TOTAL</b>        |             |              |            | <b>434</b>                    |

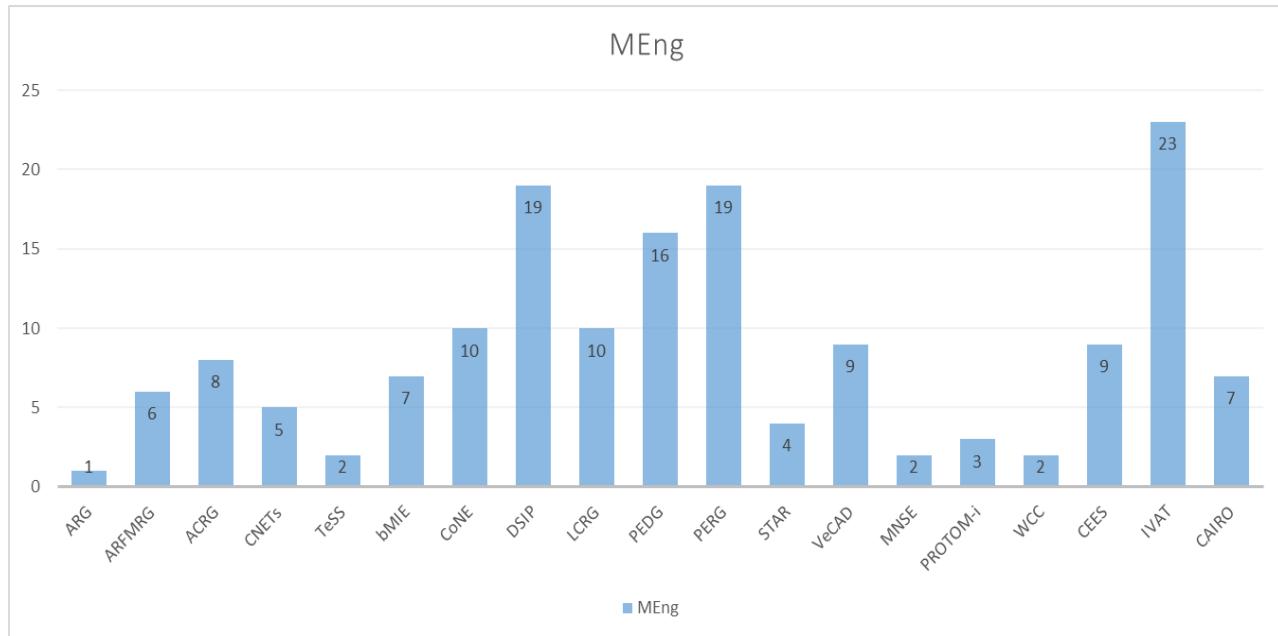


Figure 11 : Number of Master students by taught course (MEng)

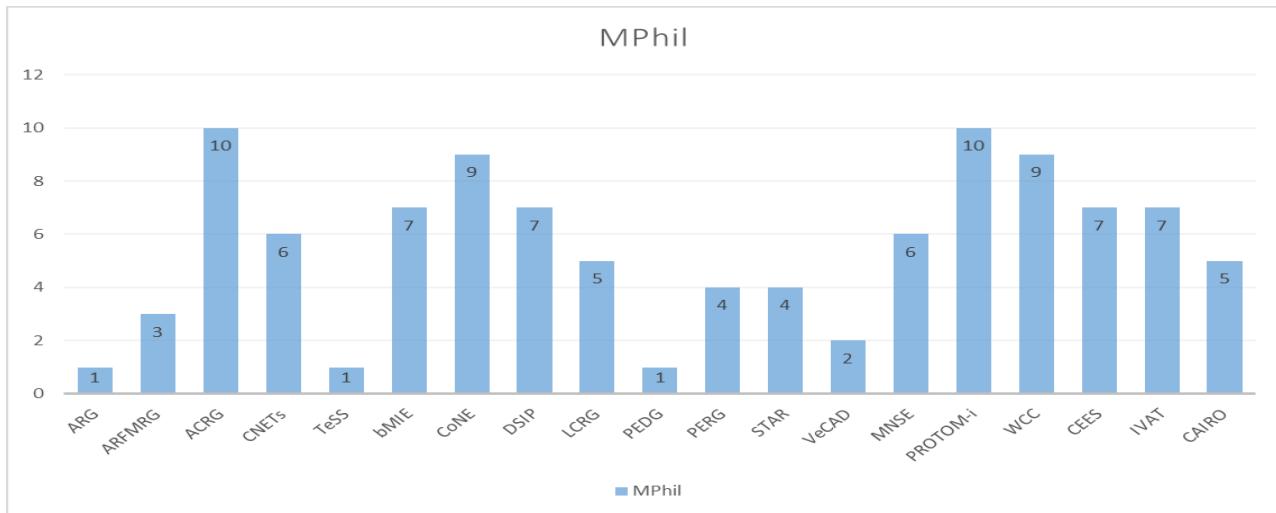


Figure 12 : Number of Master students by research MPhil)

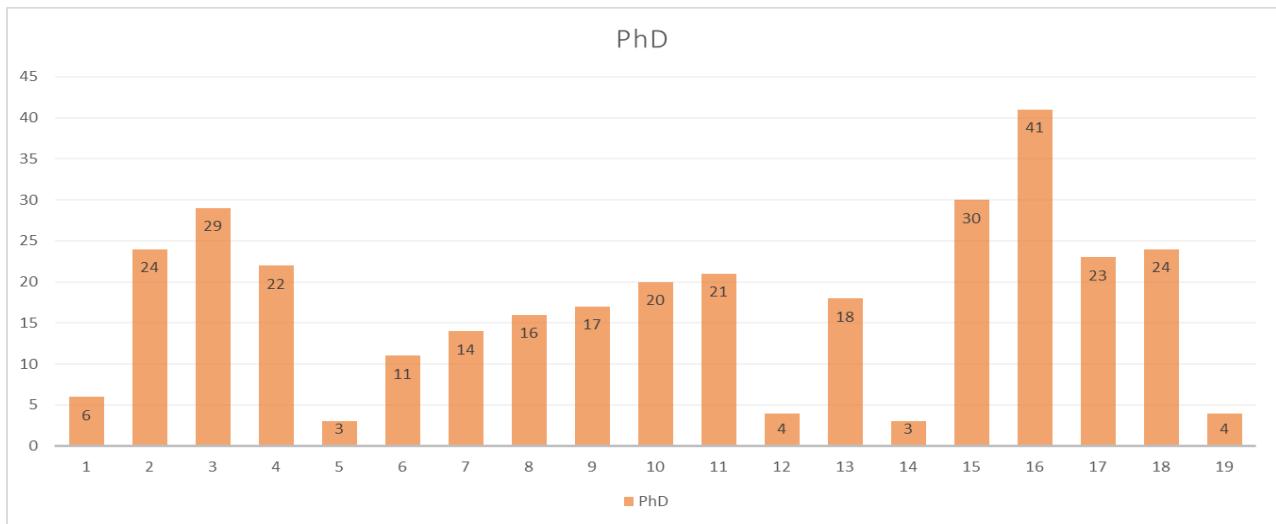


Figure 13 : Number of PhD students

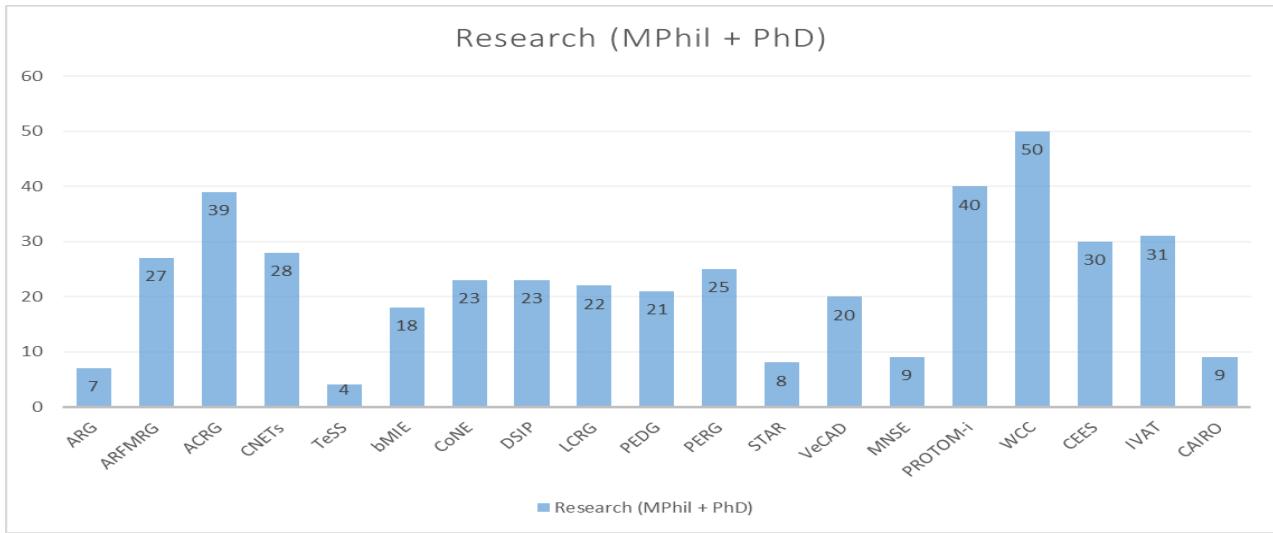


Figure 14 : Number of research students (MPhil &amp; PhD)

## SECTION E: Innovation

Table 10. Summary of faculty achievement (2018) in section E

| No. | Criteria                      | Description   | Achievement |
|-----|-------------------------------|---|-------------|
| E1  | Patent                        | a. Total number of patents granted  | 15          |
|     |                               | b. Total number of patents filed  | 8           |
| E2  | Commercialized product        | Total number of new products licensed for commercialization in the year                   | 1           |
| E3  | Technology know-how licensing | Total number of technology know-how licensing in the year                                 | 3           |
| E4  | IPR other than patent         | Total number of IPR other than patents (i.e. copyright, trademark, industrial design etc) | 52          |

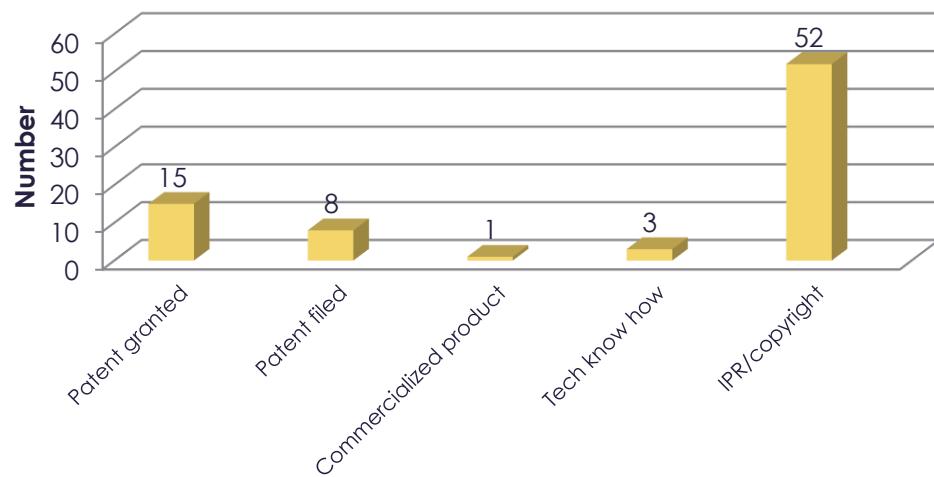


Figure 15. Section innovation achievement in 2019

Table 11 Department achievement for all sub-section in innovation

| NO. | DEPT. | PATENT GRANTED (E1a) | PATENT SUBMITTED (E1b) | COMMERCIALIZED PRODUCT (E2) | TECHNOLOGY KNOW-HOW LICENCING (E3) | IPR/ COPYRIGHT (E4) |
|-----|-------|----------------------|------------------------|-----------------------------|------------------------------------|---------------------|
| 1   | POWER | 3                    | 0                      | 0                           | 0                                  | 1                   |
| 2   | CMED  | 7                    | 3                      | 0.5                         | 0                                  | 17                  |
| 3   | COMM  | 4                    | 4                      | 2                           | 0                                  | 8                   |
| 4   | ECE   | 1                    | 1                      | 0.5                         | 0                                  | 26                  |

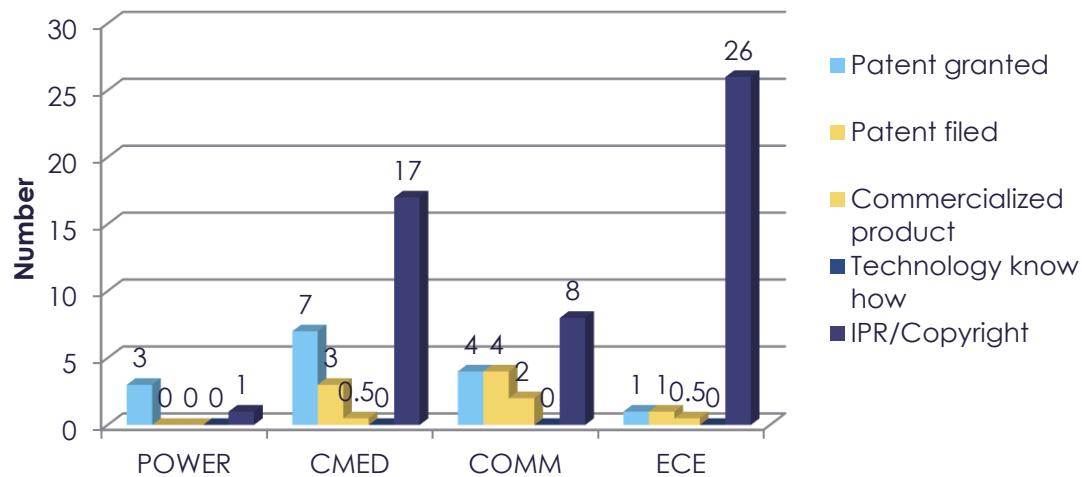


Figure 16. Department achievement for all sub-section in innovation

Table 12. Research group and center of excellence achievement for all sub-section in innovation

| RG/COE          | PATENT<br>GRANTED (E1a) | PATENT<br>FILED<br>(E1b) | COMMERCIALIZED<br>PRODUCT (E2) | TECHNOLOGY<br>KNOW-HOW<br>LICENCING<br>(E3) | IPR/<br>COPYRIGHT<br>(E4) |
|-----------------|-------------------------|--------------------------|--------------------------------|---|---------------------------|
| <b>ARG</b>      | 0                       | 0                        | 0                              | 0   | 0                         |
| <b>ACRG</b>     | 0                       | 2                        | 0                              | 0   | 4                         |
| <b>ARFMRG</b>   | 0                       | 4                        | 0                              | 0   | 0                         |
| <b>BMIE</b>     | 0                       | 1                        | 0                              | 0.5   | 10                        |
| <b>CONE</b>     | 0                       | 0                        | 0                              | 0   | 4                         |
| <b>DSIP</b>     | 0                       | 0                        | 0                              | 0   | 0                         |
| <b>MNSE</b>     | 1                       | 0                        | 0                              | 0   | 1                         |
| <b>PEDG</b>     | 0                       | 0                        | 0                              | 0   | 0                         |
| <b>PERG</b>     | 0                       | 0                        | 0                              | 0   | 0                         |
| <b>STAR</b>     | 0                       | 0                        | 0                              | 0   | 0                         |
| <b>TESS</b>     | 2                       | 0                        | 0                              | 1   | 0                         |
| <b>VeCAD</b>    | 0                       | 0                        | 0                              | 0   | 12                        |
| <b>PROTOM-i</b> | 4                       | 1                        | 1                              | 0   | 10                        |
| <b>LCRG</b>     | 0                       | 0                        | 0                              | 1   | 5                         |
| <b>CNETS</b>    | 0                       | 0                        | 0                              | 0   | 0                         |
| <b>WCC</b>      | 2                       | 0                        | 0                              | 0   | 3                         |
| <b>CEES</b>     | 0                       | 0                        | 0                              | 0   | 1                         |
| <b>IVAT</b>     | 2                       | 0                        | 0                              | 0   | 0                         |
| <b>CAIRO</b>    | 2                       | 0                        | 0                              | 0.5   | 2                         |

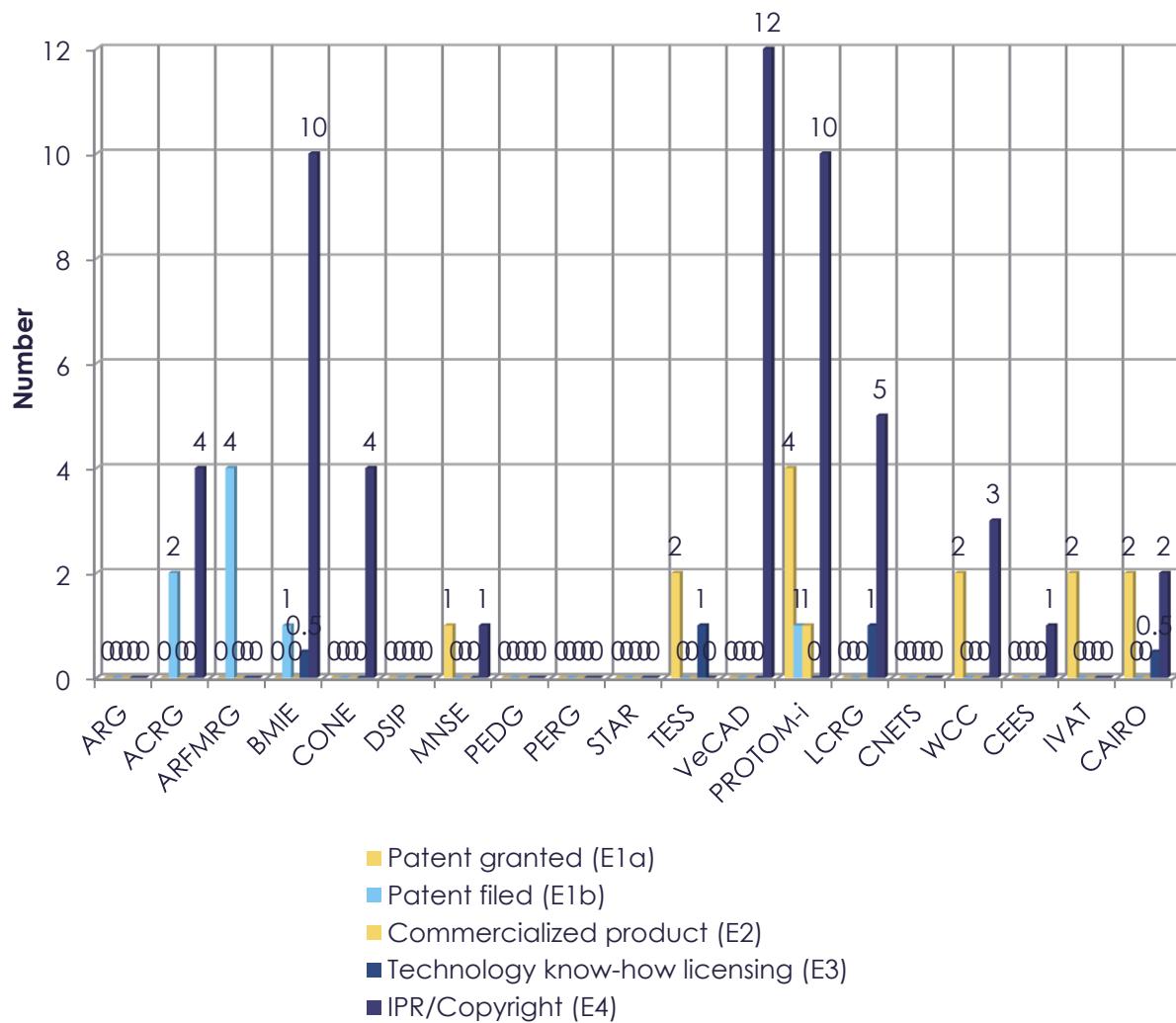


Figure 17. Research group and center of excellence achievement for all sub-section in innovation

## SECTION F – Professional Services and Gifts

Table 13. SKE performance achievement of income generation for year 2019

| <b>SECTION F – PROFESSIONAL SERVICES AND GIFTS</b> |                              |   |                                  |                         |
|--|------------------------------|---|----------------------------------|-------------------------|
| <b>No</b>  | <b>Kriteria</b>              | <b>KPI</b>  |                                  | <b>Achievement (RM)</b> |
| 1  | Professional Services & Gift | Gross Income from training courses (non-degree programme) and postgraduate fees (research programme)        | c. Training Courses              | 4,250.00                |
| 2  |                              | Gross Income from organizing conference, seminars and knowledge sharing programme in the field of expertise | d. Postgraduate Fee              | 1,091,320.33            |
| 3  |                              | Gross Income from product commercialization/technology know how licencing                                   | c. Product Commercialization     | 42,102.63               |
| 4  |                              | Gross Income from consultancy (excluding contract research)/hospital recoupable fees/lab service fees       | d. Technology Know-How Licencing | 80,000.00               |
| 5  |                              | Endowment (including professorial chairs)   | c. Consultancies                 | 485,651.66              |
| 6  |                              | Gift (money, equipment, research materials, etc) (worth > RM3,000.00)                                       | d. Lab Service Fees              | 96,886.50               |
|  |                              |   |                                  | 8,326.00                |
|  |                              |   |                                  | 590,870.99              |

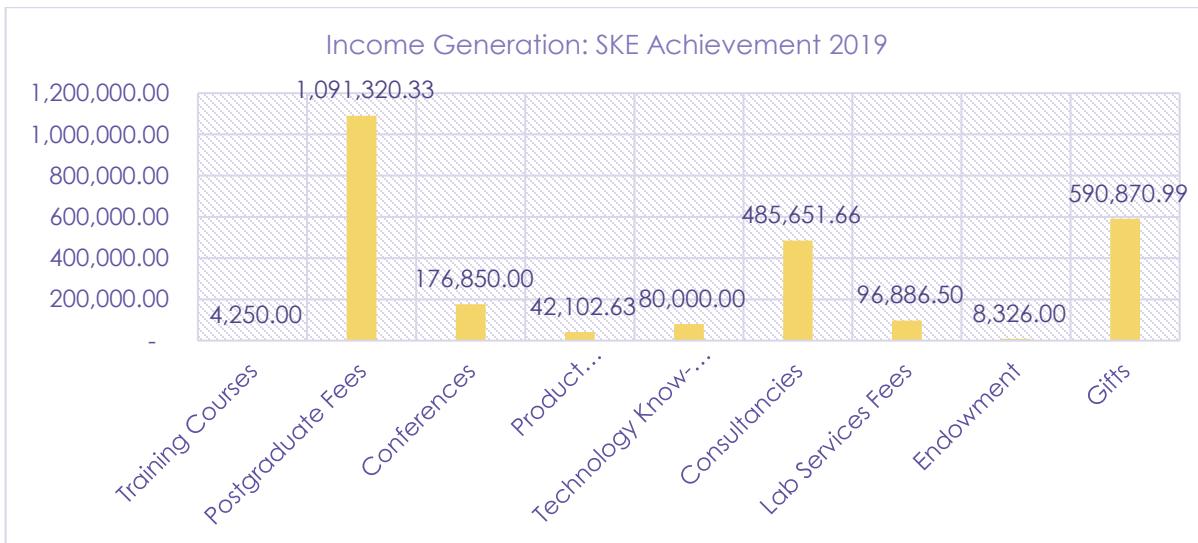


Figure 18. SKE performance achievement of income generation for year 2019

Table 14. Total contribution of RG/COE to the SKE achievement

|          | F1(a):<br>Training<br>Courses<br>from Non-<br>Degree<br>Programm<br>es | F2:<br>Conferen<br>ce<br>/Seminar<br>/Short<br>Course | F3(a):<br>Product<br>Commer<br>cialization | F3(b):<br>Technolog<br>y<br>Know-<br>How<br>Licencing | F4(a):<br>Consultan<br>cy | F4(c): Lab<br>Services | F5:<br>End<br>ow<br>men<br>t | F6: Gifts  | Total      |
|----------|--|---|--|---|---------------------------|------------------------|------------------------------|------------|------------|
| RG/COE   | Amount (RM)  |   |  |   |                           |                        |                              |            |            |
| ARG      |  |   |  |   |                           |                        |                              |            |            |
| ARFMRG   |  |   |  |   |                           |                        |                              | 36,536.04  | 36,536.04  |
| ACRG     |  |   |  |   |                           |                        |                              |            |            |
| CNets    |  |   |  |   |                           | 29,653.00              |                              | 147,850.49 | 177,503.00 |
| TeSS     | 1,950.00   |   |  | 10,000.00   |                           |                        |                              | 9,023.23   | 20,973.00  |
| bMIE     |  |   |  |   |                           |                        |                              | 83,577.40  | 83,577.40  |
| CoNE     |  |   |  |   |                           |                        |                              |            |            |
| DSIP     |  |   |  |   |                           |                        |                              | 7,286.54   | 7,286.54   |
| LCRG     |  | 1,000.00  |  | 20,000.00   | 52,500.00                 |                        |                              | 89,267.70  | 162,768.00 |
| PEDG     |  |   |  |   |                           |                        |                              |            |            |
| PERG     |  |   |  |   | 36,620.00                 |                        |                              |            | 36,620.00  |
| STAR     |  |   |  |   |                           |                        |                              |            |            |
| VeCAD    |  |   |  |   |                           |                        |                              |            |            |
| MNSE     |  |   |  |   |                           |                        |                              |            |            |
| PROTOM-i |  |   | 42,102.63                                  |   | 54,631.26                 |                        |                              | 18,450.00  | 115,183.89 |
| IVAT     | 2,300.00   |   |  |   | 266,286.45                | 62,783.50              |                              |            | 331,369.95 |
| WCC      |  |   |  |   |                           |                        |                              | 50,558.96  | 50,558.96  |
| CAIRO    |  |   |  | 50,000.00   |                           |                        |                              | 102,357.00 | 152,357.00 |
| CEES     |  |   |  |   | 74,599.45                 | 4,450.00               |                              | 4,651.25   | 83,700.70  |

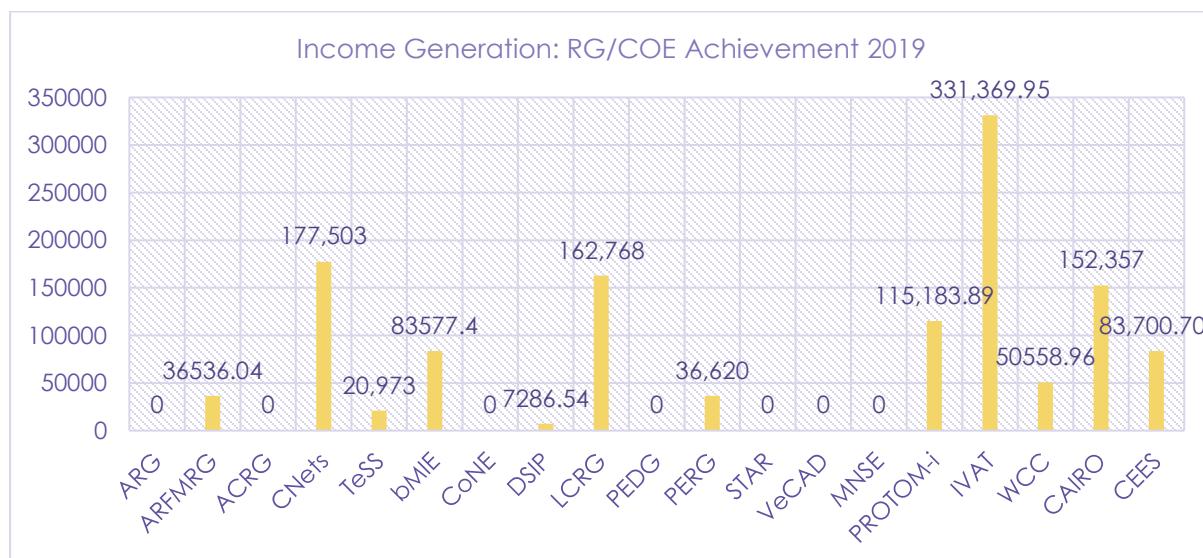
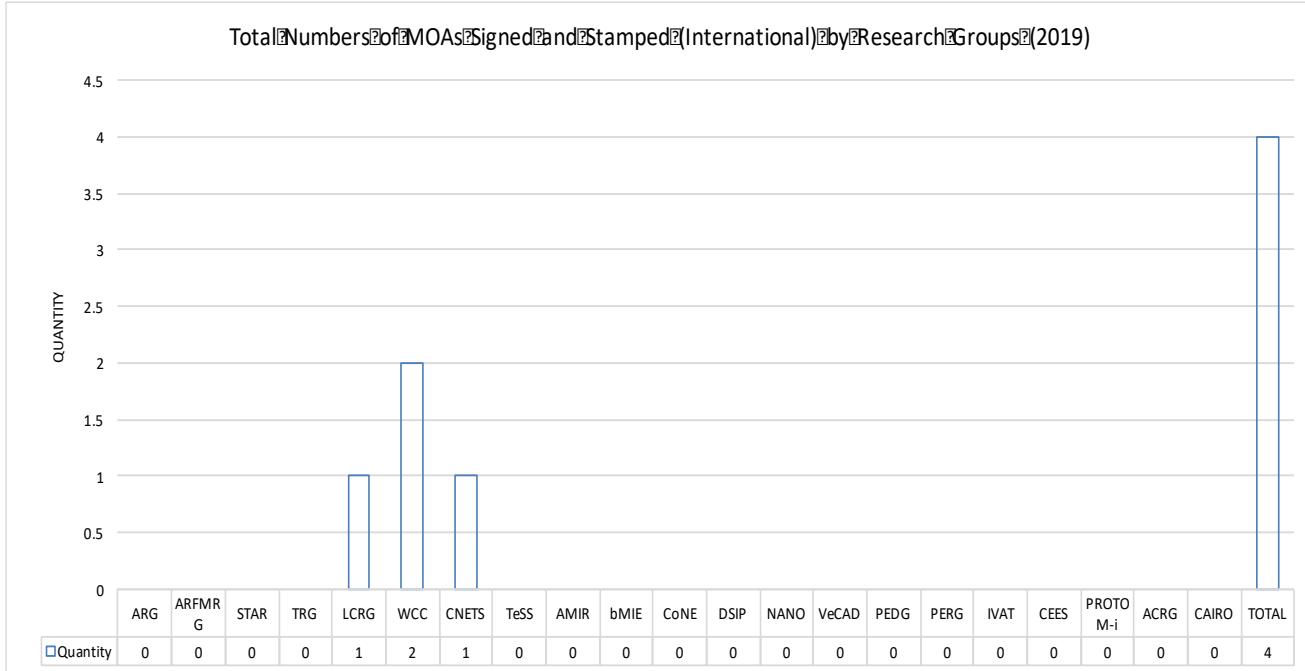


Figure 19. Total contribution of RG/COE to the SKE achievement

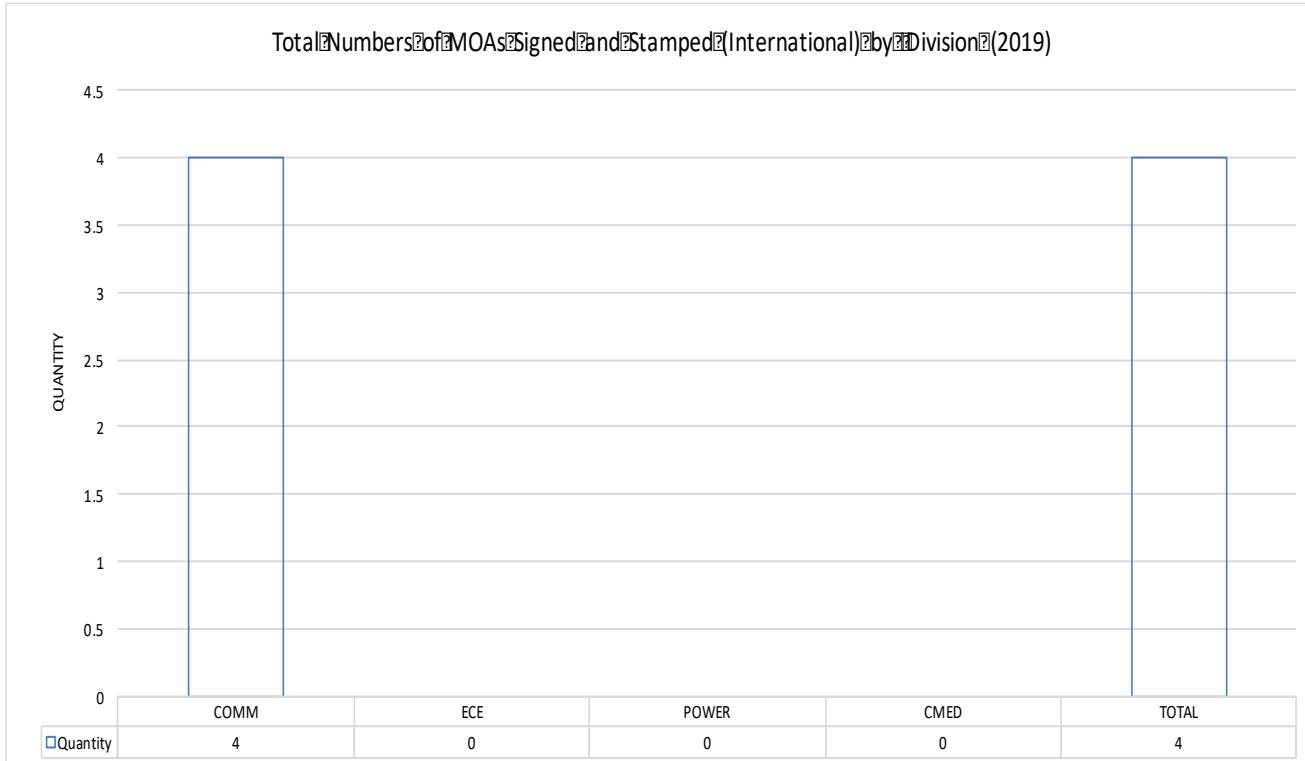
## SECTION G

G1: Participation in International Inter-Institution research related activities under MoA/active agreement

(a) (i) Total Numbers of MOAs Signed and Stamped (International) by Research Groups

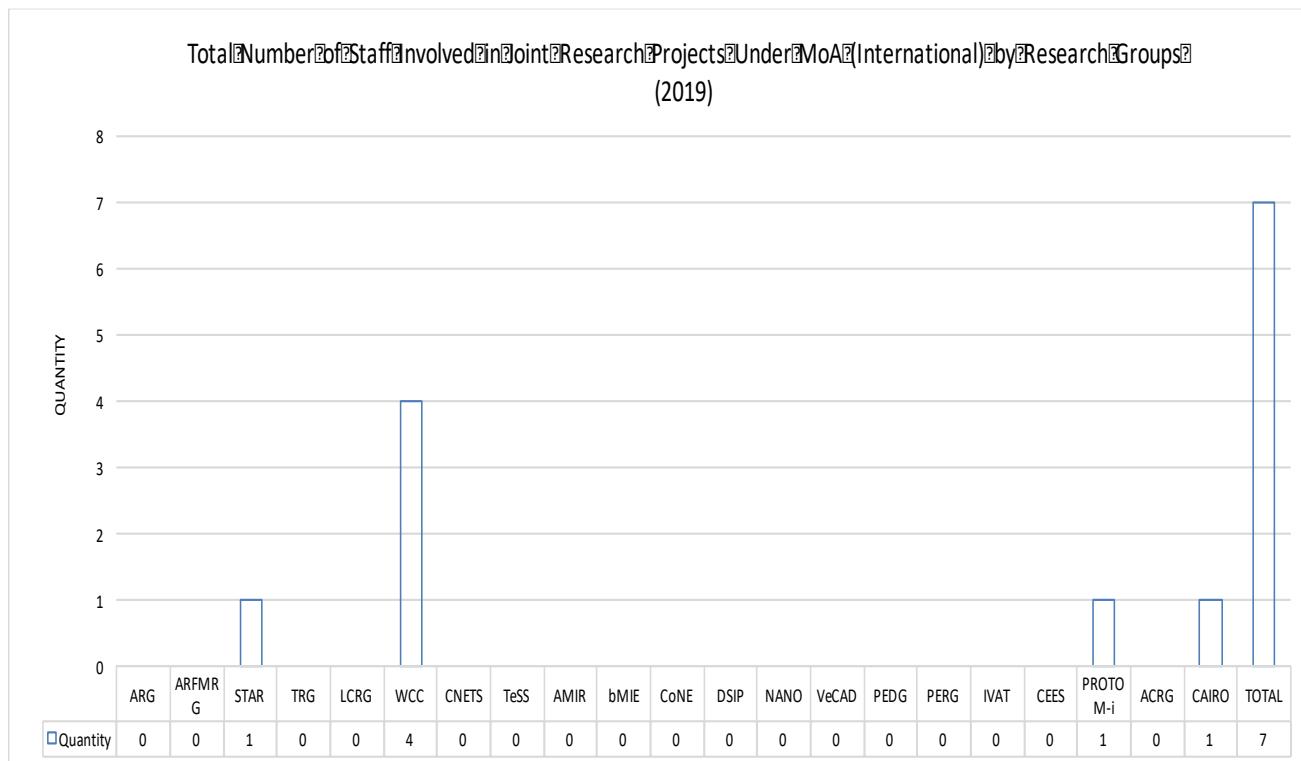


(a) (ii) Total Numbers of MOAs Signed and Stamped (International) by Divisions

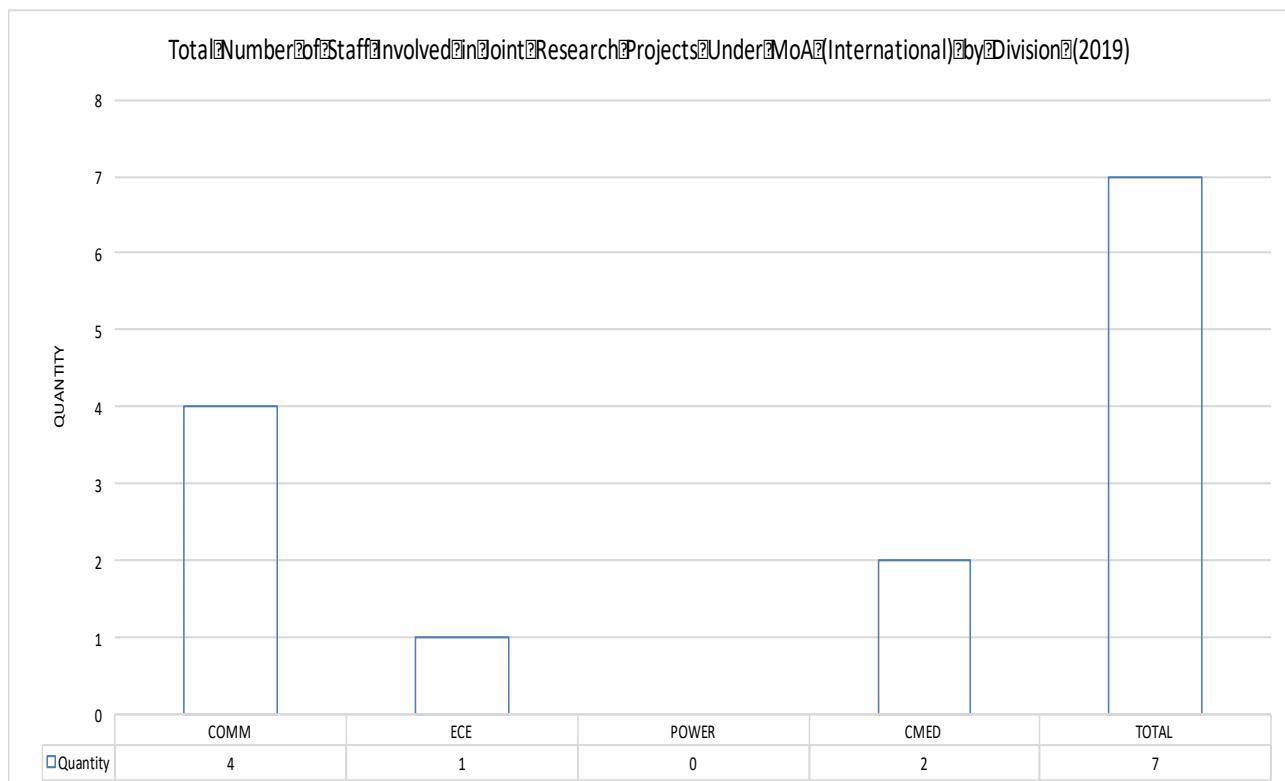


| RG   | ORGANISATION   | COUNTRY | PROGRAMME TITLE  | TYPE<br>(MoA,<br>MoU,<br>LoA, RA) | STAFF NAME  |
|--|--|---------|--|-----------------------------------|---|
| ADVANCE RF<br>AND<br>MICROWAVE<br>RESEARCH<br>GROUP<br>(ARFMG) | INSTITUTE FOR<br>INFORMATION &<br>COMMUNICATIONS<br>TECHNOLOGIES<br>JOANNEUM RESEARCH    | AUSTRIA | MEASUREMENT AND<br>ASSESSMENT OF<br>SECOND ORDER<br>STATISTICS OF KA BAND<br>SATCOM SYSTEMS IN<br>TROPICAL REGIONS | MoA                               | PROF. DR.<br>JAFRI DIN                                  |
| LIGHTWAVE<br>COMMUNIC<br>ATION<br>RESEARCH<br>GROUP<br>(LCRG)  | THE NATIONAL INSTITUTE<br>OF INFORMATION AND<br>COMMUNICATIONS<br>TECHNOLOGY OF<br>JAPAN | JAPAN   | INFORMATION AND<br>COMMUNICATION<br>TECHNOLOGY IN RADIO<br>OVER FIBER  | MoU                               | PROF. DR.<br>SEVIA<br>MAHDALIZA<br>IDRUS SUTAN<br>NAMEH |
| COMMUNIC<br>ATION<br>NETWORK<br>SYSTEM<br>(CNetS)              | UNIVERSITE DE HAUTE<br>ALSACE, FRANCE  | FRANCE  | COLLABORATIVE<br>EFFORTS IN RESEARCH<br>ACTIVITIES   | MoU                               | PROF. MADYA<br>DR. NURUL<br>MU'AZZAH<br>ABDUL LATIFF    |
| WIRELESS<br>COMMUNIC<br>ATION<br>SYSTEM<br>(WCC)               | LANCASTER UNIVERSITY<br>(ULANC), UNIVERSITY OF<br>CYPRUS (UCY)                           | EU      | ADVANCING THE STATE<br>OF THE ART OF MIMO:<br>THE KEY TO THE<br>SUCCESSFUL EVOLUTION<br>OF WIRELESS NETWORKS       | MoA                               | PROF. MADYA<br>DR. LEOW<br>CHEE YEN                     |

## (b) (i) Total Number of Staff Involved in Joint Research Projects Under MoA (International) by Research Groups



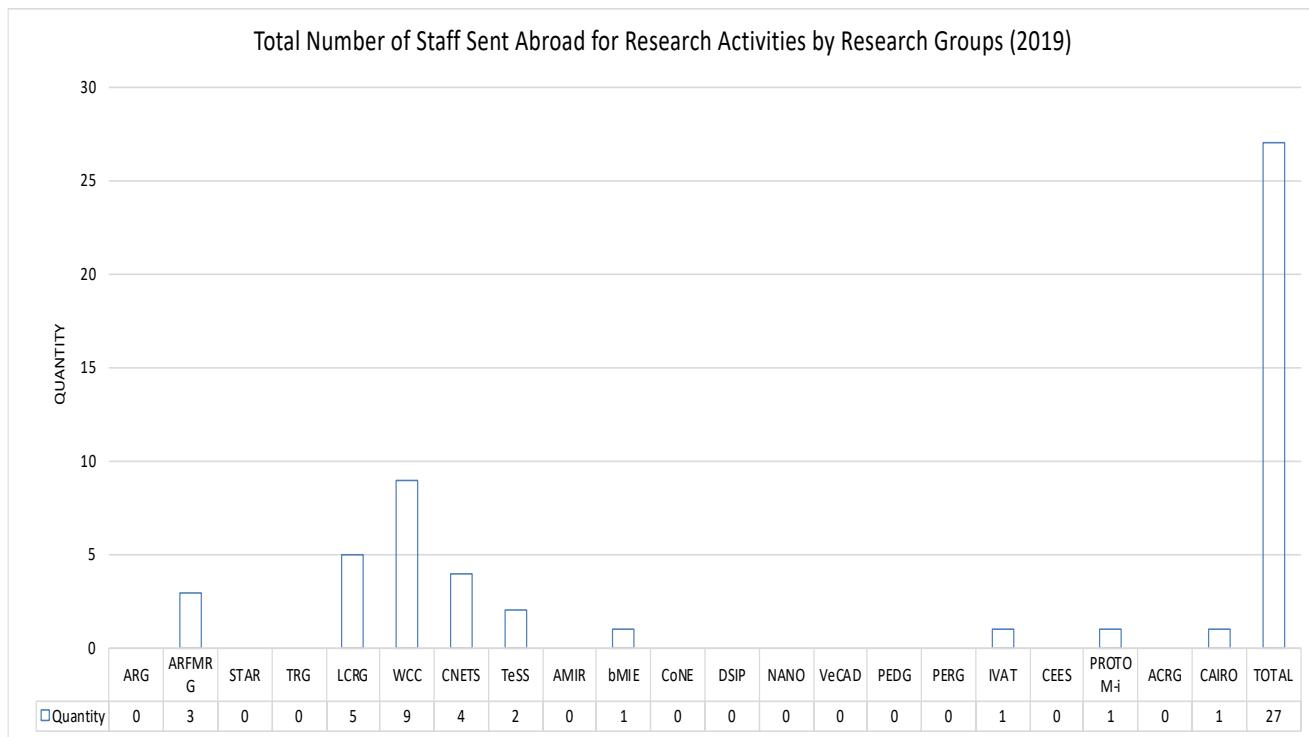
## (b) (ii) Total Number of Staff Involved in Joint Research Projects Under MoA (International) by Divisions



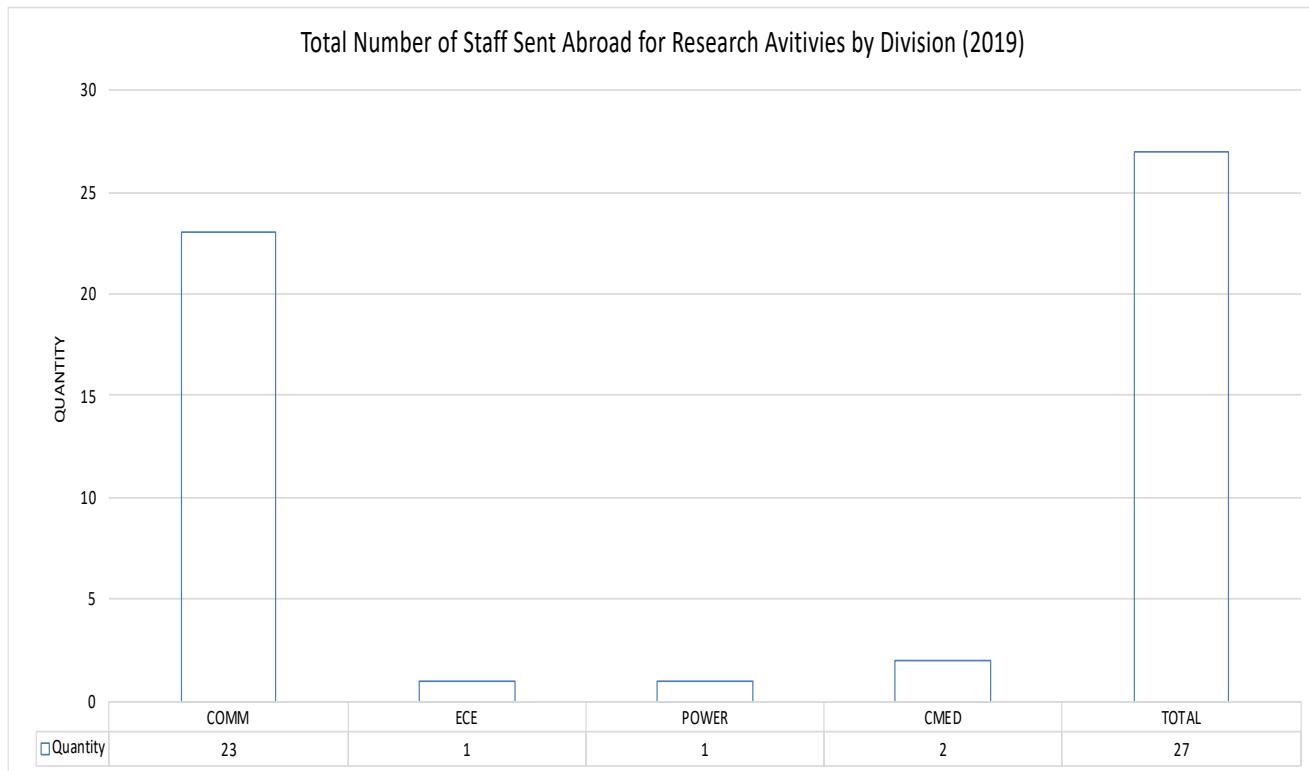
| RG                 | PROGRAMME TITLE   | STAFF NAME                   |
|--------------------|---|------------------------------|
| CAIRO              | CONTROL AND OPTIMIZATION OF HVAC SYSTEM   | HAZLINA BINTI SELAMAT        |
| VLSI & EMBEDDED    | REAL TIME OCCUPANCY MODEL USING DEEP LEARNING WITH IoT SENSORS TECHNOLOGY FOR HVAC PREDICTIVE OPERATION | MOHD SHAHRIZAL BIN RUSLI     |
| WCC                | ADVANCING THE STATE OF THE ART OF MIMO: THE KEY TO THE SUCCESSFUL EVOLUTION OF WIRELESS NETWORKS        | LEOW CHEE YEN                |
| WCC                | ADVANCING THE STATE OF THE ART OF MIMO: THE KEY TO THE SUCCESSFUL EVOLUTION OF WIRELESS NETWORKS        | THAREK BIN ABD RAHMAN        |
| WCC                | ADVANCING THE STATE OF THE ART OF MIMO: THE KEY TO THE SUCCESSFUL EVOLUTION OF WIRELESS NETWORKS        | SHARUL KAMAL BIN ABDUL RAHIM |
| PROCESS TOMOGRAPHY | ADVANCING THE STATE OF THE ART OF MIMO: THE KEY TO THE SUCCESSFUL EVOLUTION OF WIRELESS NETWORKS        | LEOW PEI LING                |
| WCC                | ADVANCING THE STATE OF THE ART OF MIMO: THE KEY TO THE SUCCESSFUL EVOLUTION OF WIRELESS NETWORKS        | NORHUDAH BINTI SEMAN         |

## G2: Number of Staff Sent Abroad for Research Activities

### (i) Number of Staff Sent Abroad for Research Activities by Research Groups

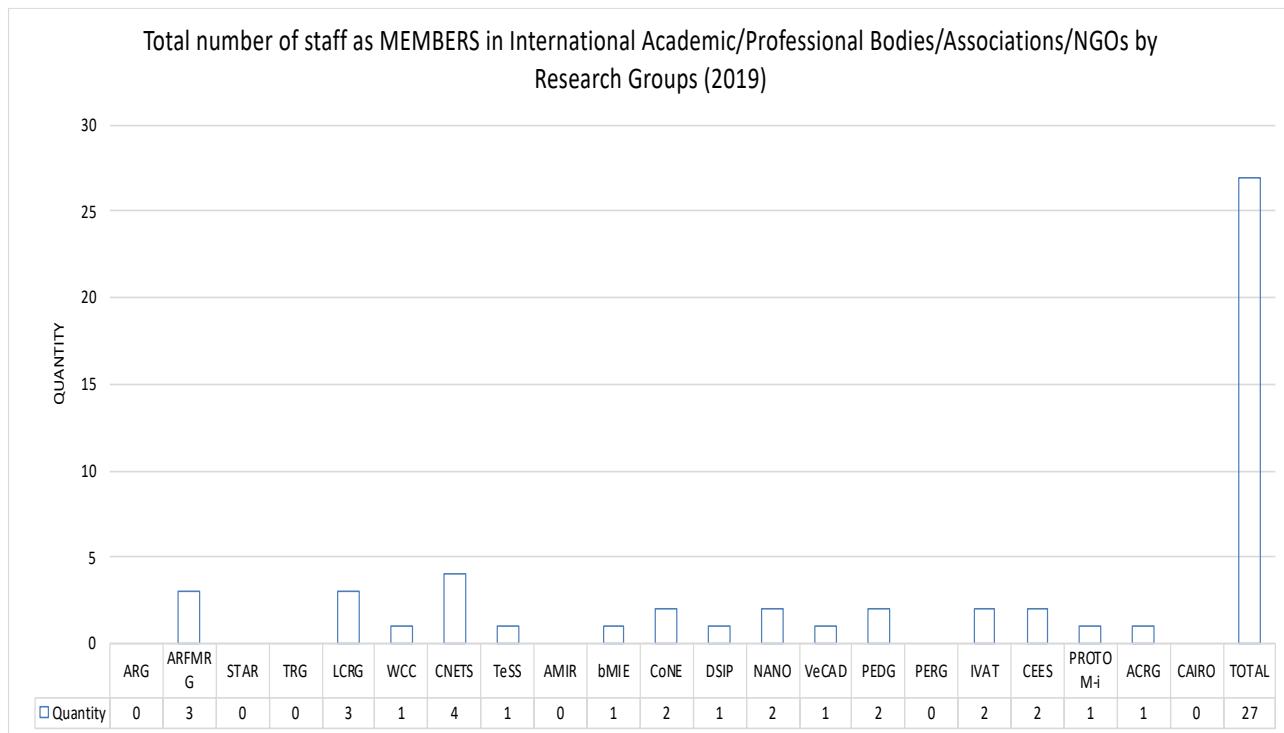


### (ii) Number of Staff Sent Abroad for Research Activities by Divisions

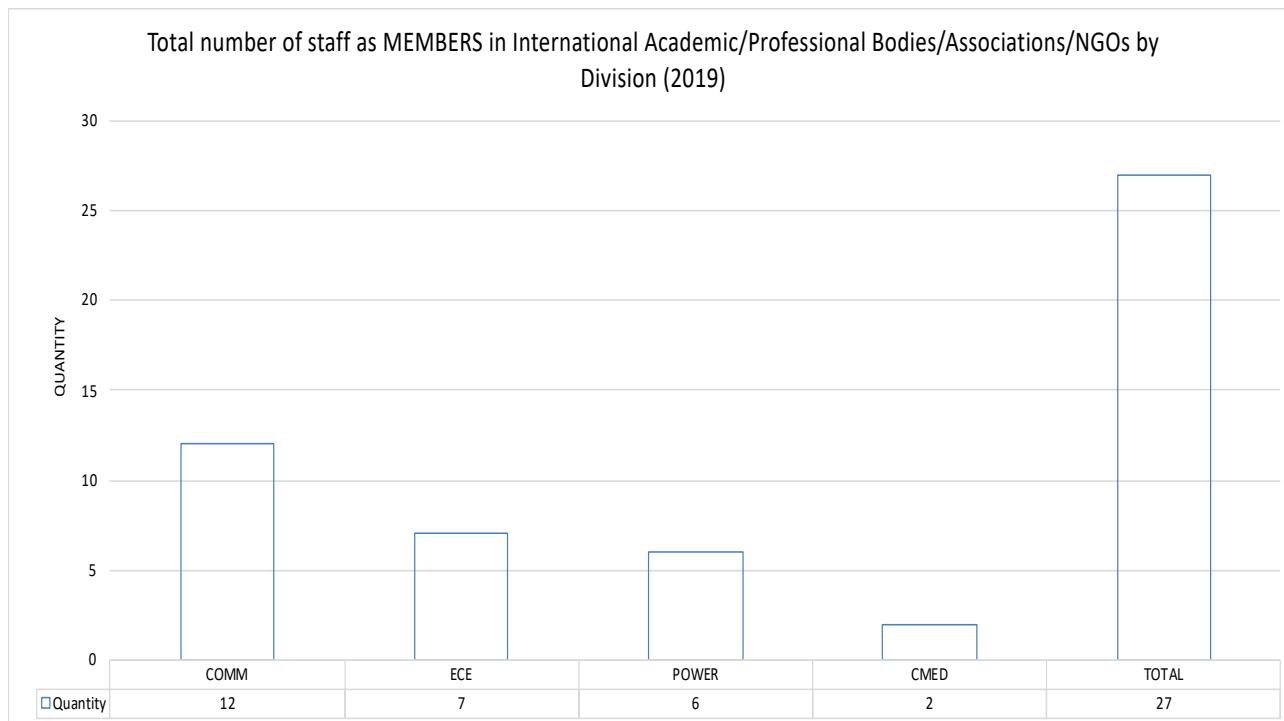


### G3: Number of Staff as Members in International Bodies

(i) Total number of staff as MEMBERS in International Academic/Professional Bodies/Associations/NGOs by Research Groups

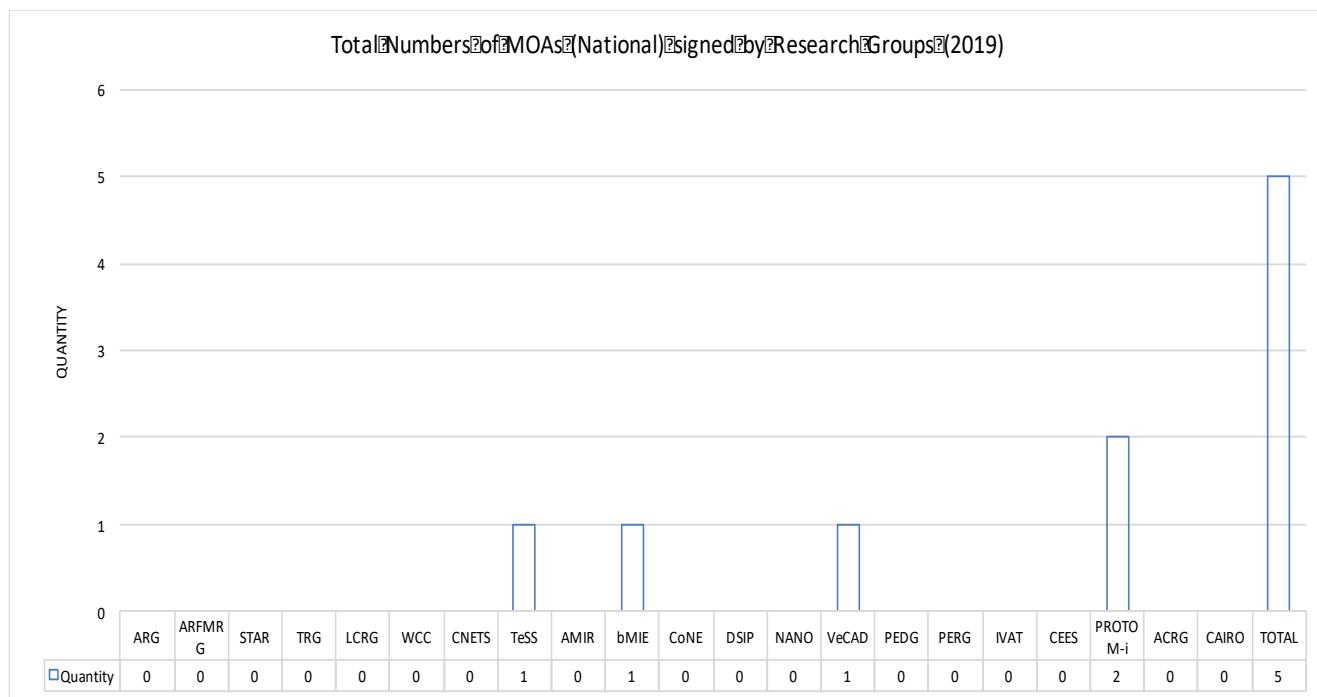


(ii) Total number of staff as MEMBERS in International Academic/Professional Bodies/Associations/NGOs by Divisions

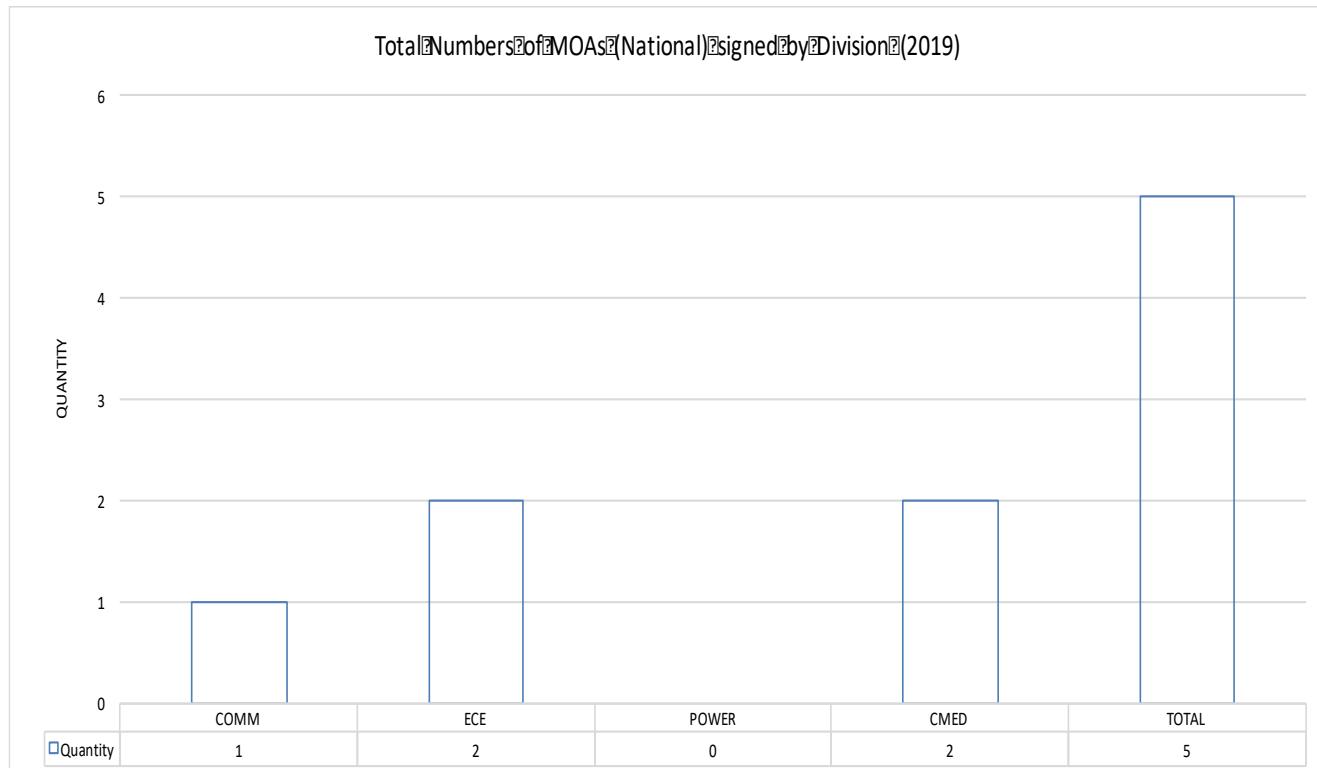


**G4: Participation in National Inter-Institution research related activities under MoA**

**(a) (i) Total number of MoAs signed (National) by Research Groups**

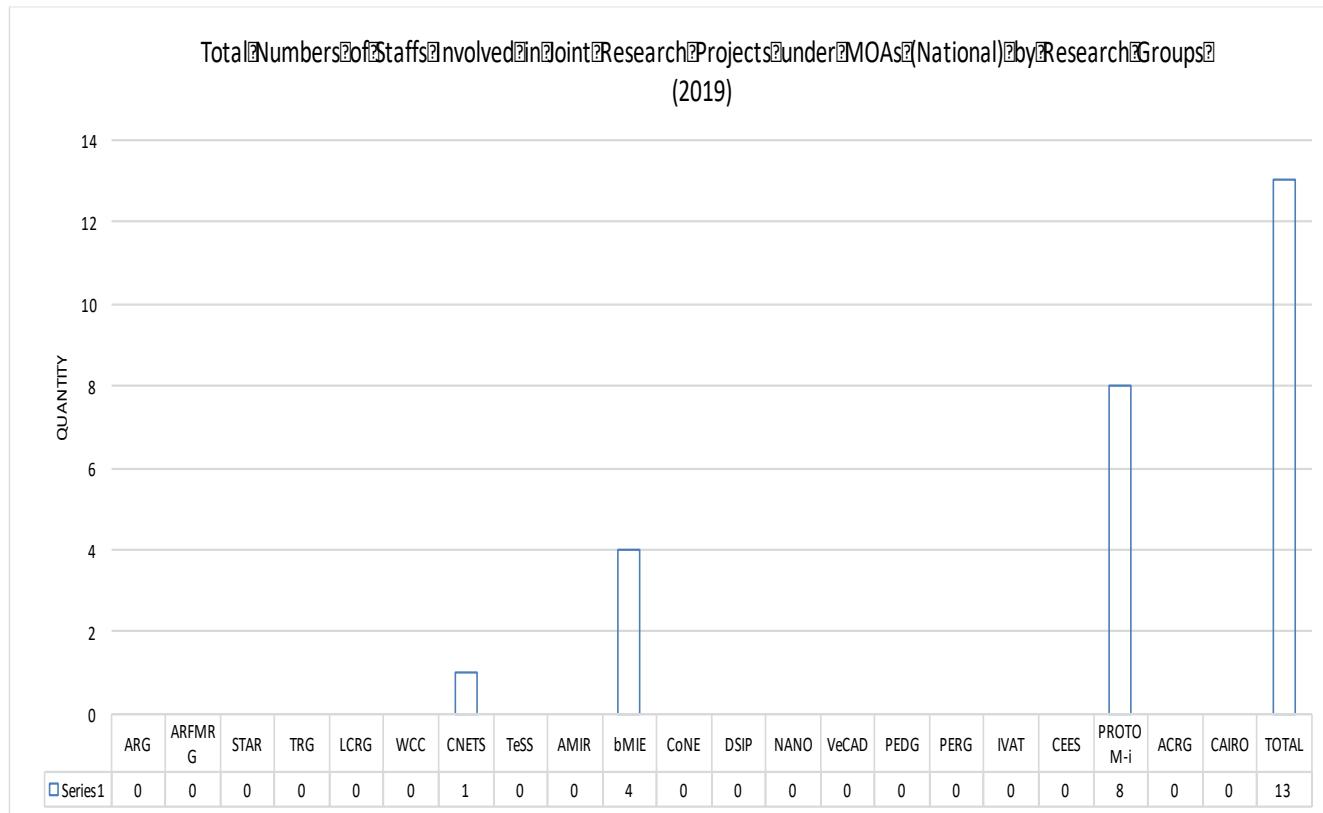


**(a) (ii) Total number of MoAs signed (National) by Divisions**

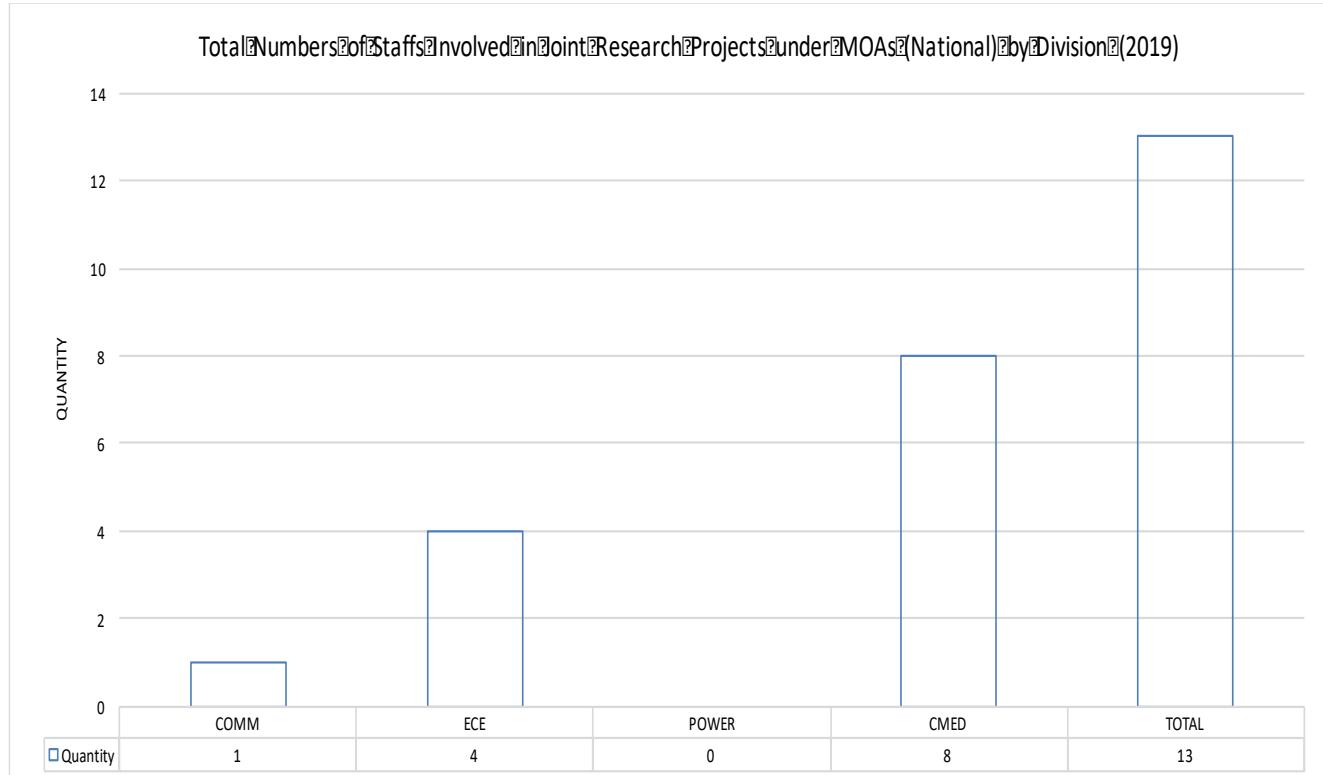


| RG                            | ORGANISATION  | PROGRAMME TITLE  | TYPE<br>(MoA,<br>LoA, RA) | STAFF NAME              |
|-------------------------------|---|--|---------------------------|-------------------------|
| BIO-MEDICAL & INSTRUMENTATION | COLLABORATIVE RESEARCH IN ENGINEERING, SCIENCE & TECHNOLOGY CENTER (CREST), TECHCARE INNOVATION SDN BHD | MINI HEARTCATCHER – A SMARTPHONE APPLICATION WITH NATIVE INTELLIGENT ARRHYTHMIA CLASSIFIER   | RA                        | EILEEN SU LEE MING      |
| VLSI & EMBEDDED               | COLLABORATIVE RESEARCH IN ENGINEERING, SCIENCE & TECHNOLOGY CENTER (CREST), TECHCARE INNOVATION SDN BHD | MINI HEARTCATCHER – A SMARTPHONE APPLICATION WITH NATIVE INTELLIGENT ARRHYTHMIA CLASSIFIER   | RA                        | MUHAMMAD NADZIR MARSONO |
| TELECOMMUNICATION SOFTWARE    | LOG3 SOLUTION TECH SDN BHD (PHASE 3)  | UPGRADE AND MAINTENANCE OF IoT-BASED RFID WAREHOUSE MANAGEMENT SYSTEM  | MoA                       | MOHD. ADIB SARIJARI     |
| PROCESS TOMOGRAPHY            | UNIMAP & UTHM & UMP   | CRG10 - TOMOGRAPHY LAB-ON-CHIP FOR MICROSAMPLE IMAGE RECONSTRUCTION  | RA                        | LEOW PEI LING           |
| PROCESS TOMOGRAPHY            | UMP & UTHM & UTEM   | CRG 9.4 – INTEGRATION OF THE METAL-BASED FLEXIBLE THERMOELECTRIC GENERATOR WITH THE CONDITIONING CIRCUIT AND CHARACTERIZATION OF OVERALL SYSTEM BASED ON OBJECTIVE 4 | RA                        | SHAFISHUHAZ A SAHLAN    |

## (b) (i) Total Number of Staff Involved in Joint Research Projects Under MoA by Research Group

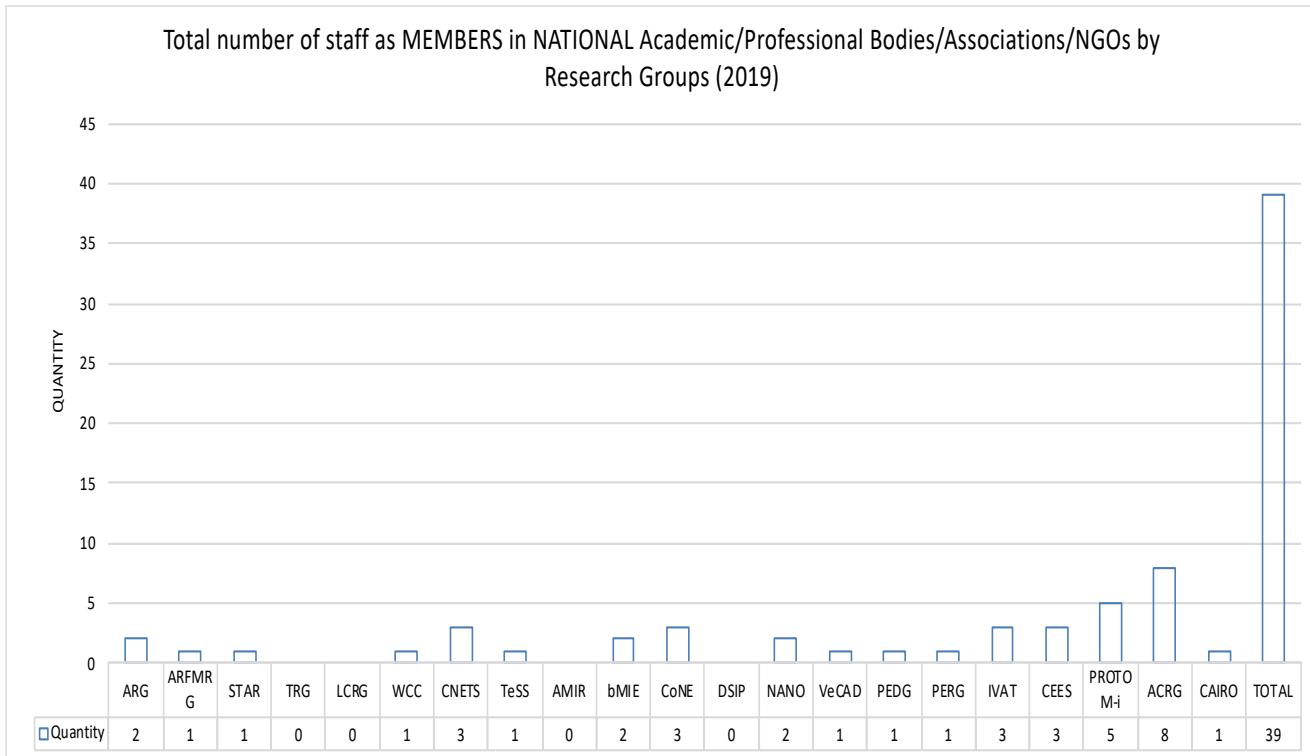


## (b) (ii) Total Number of Staff Involved in Joint Research Projects Under MoA by Divisions

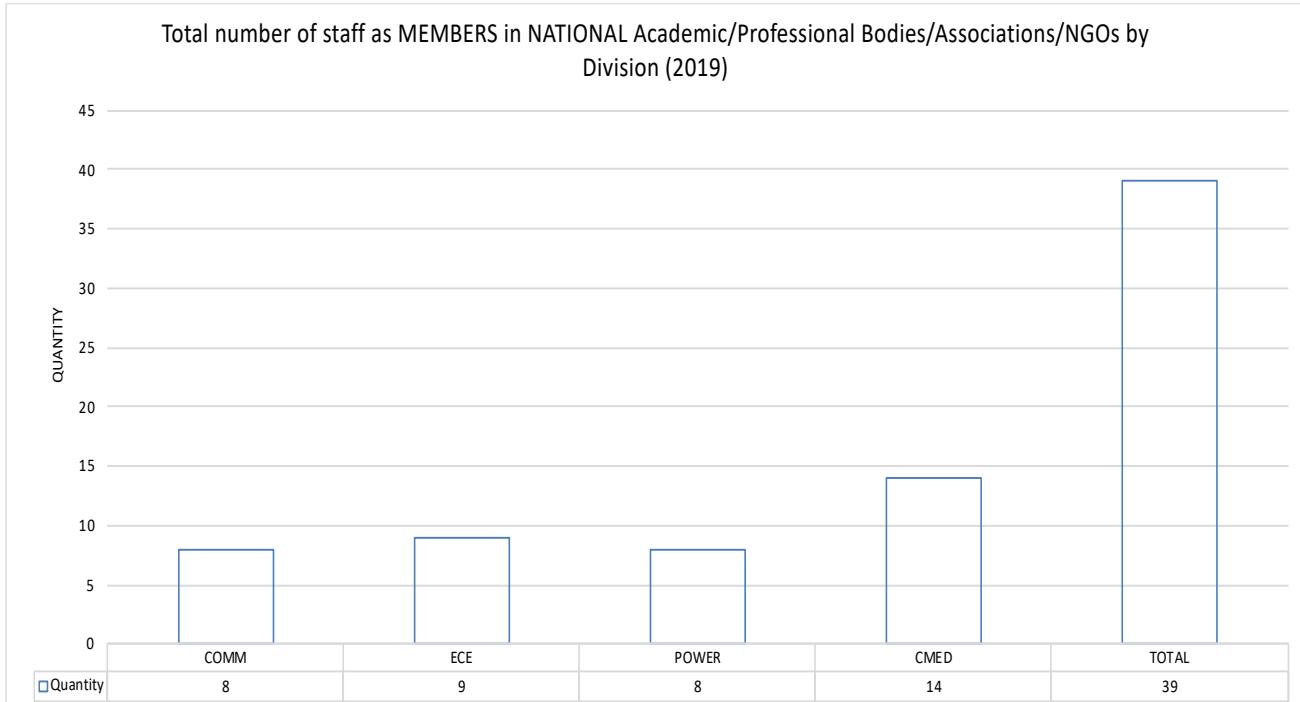


**G5: Total number of staff as MEMBERS in NATIONAL bodies**

- (i) **Total number of staff as MEMBERS in NATIONAL Academic/Professional Bodies/Associations/NGOs by Research Groups.**

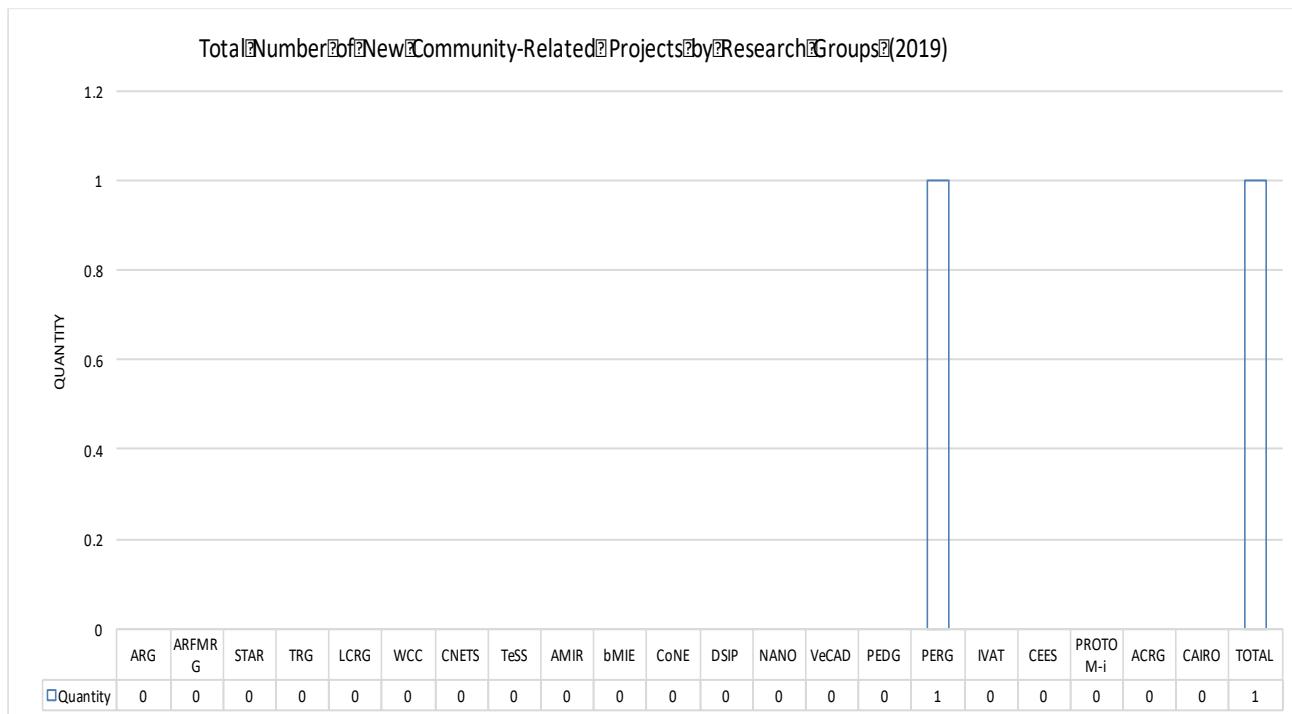


- (ii) **Total number of staff as MEMBERS in NATIONAL Academic/Professional Bodies/Associations/NGOs by Divisions.**

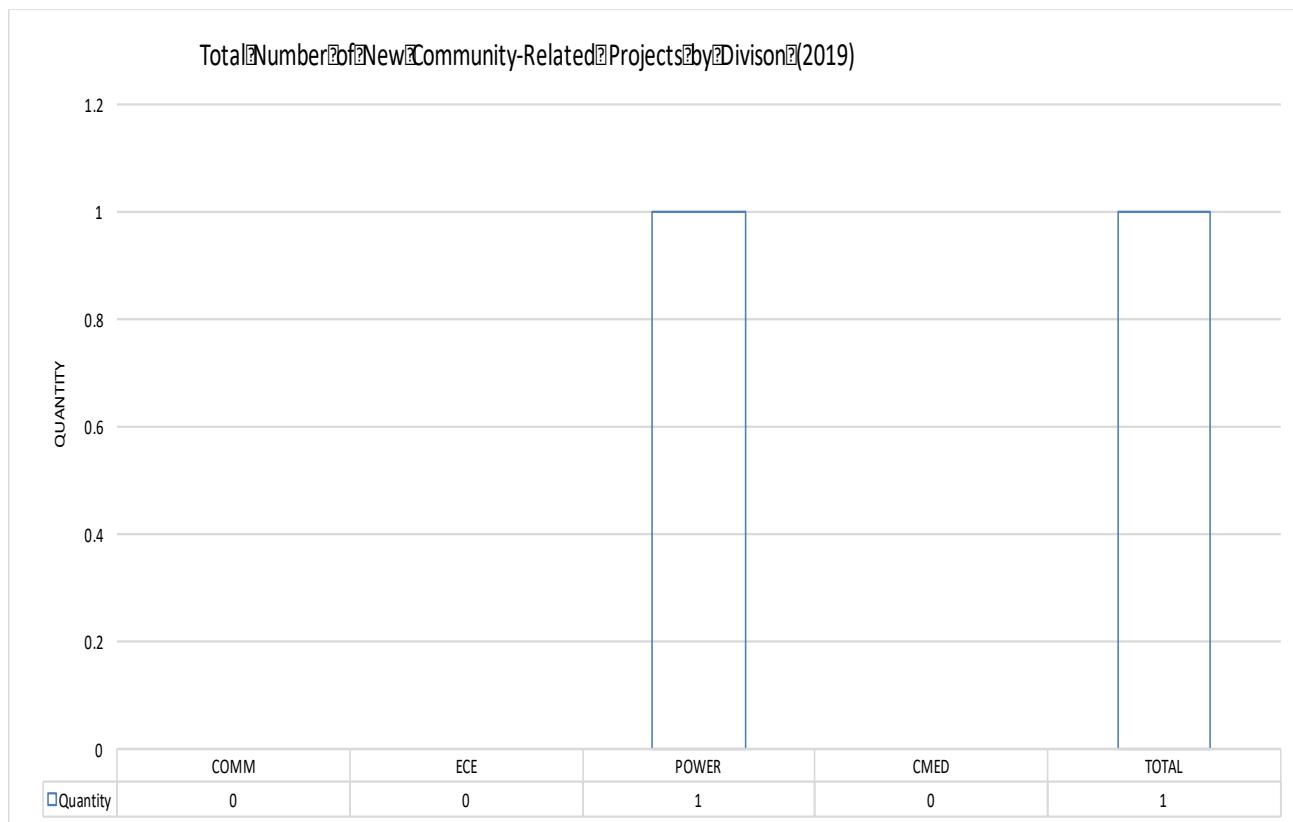


### G6: Total Number of Community-Related Projects

#### (b) (i) Total Number of New Community-Related Projects by Research Groups

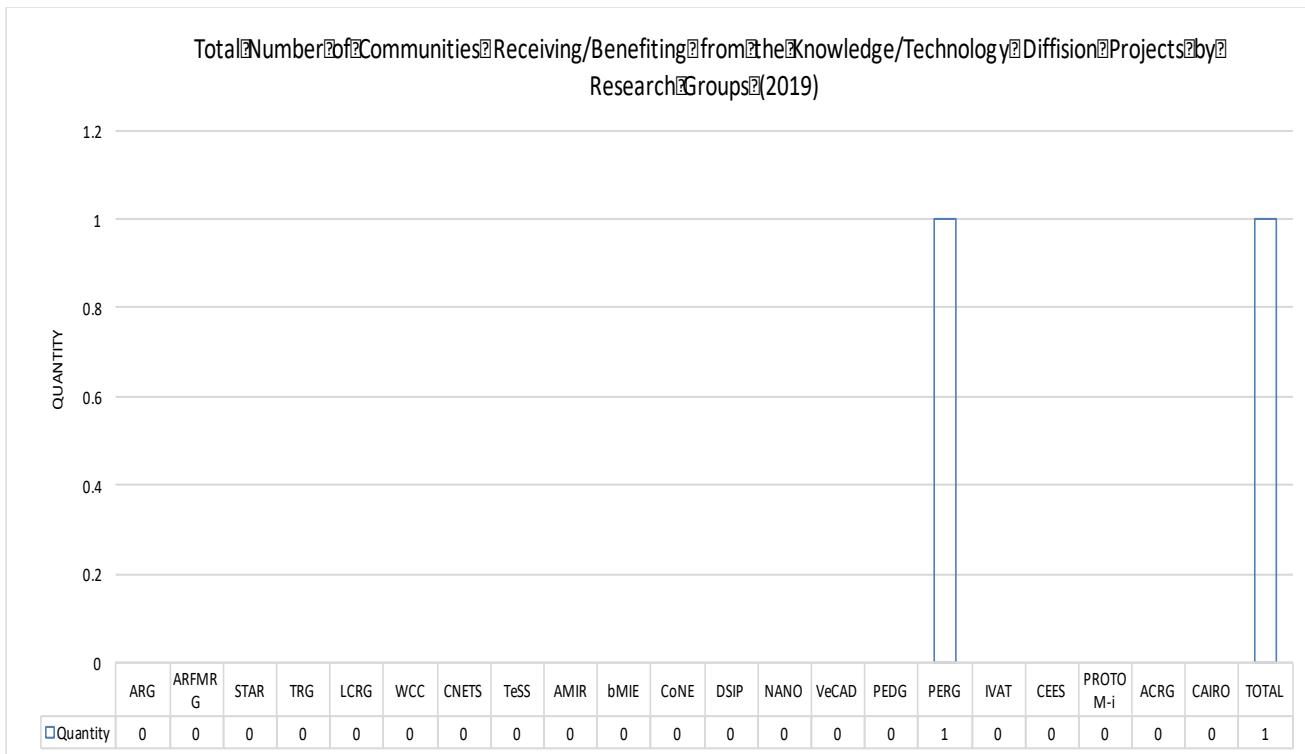


#### (b) (ii) Total Number of New Community-Related Projects by Divisions

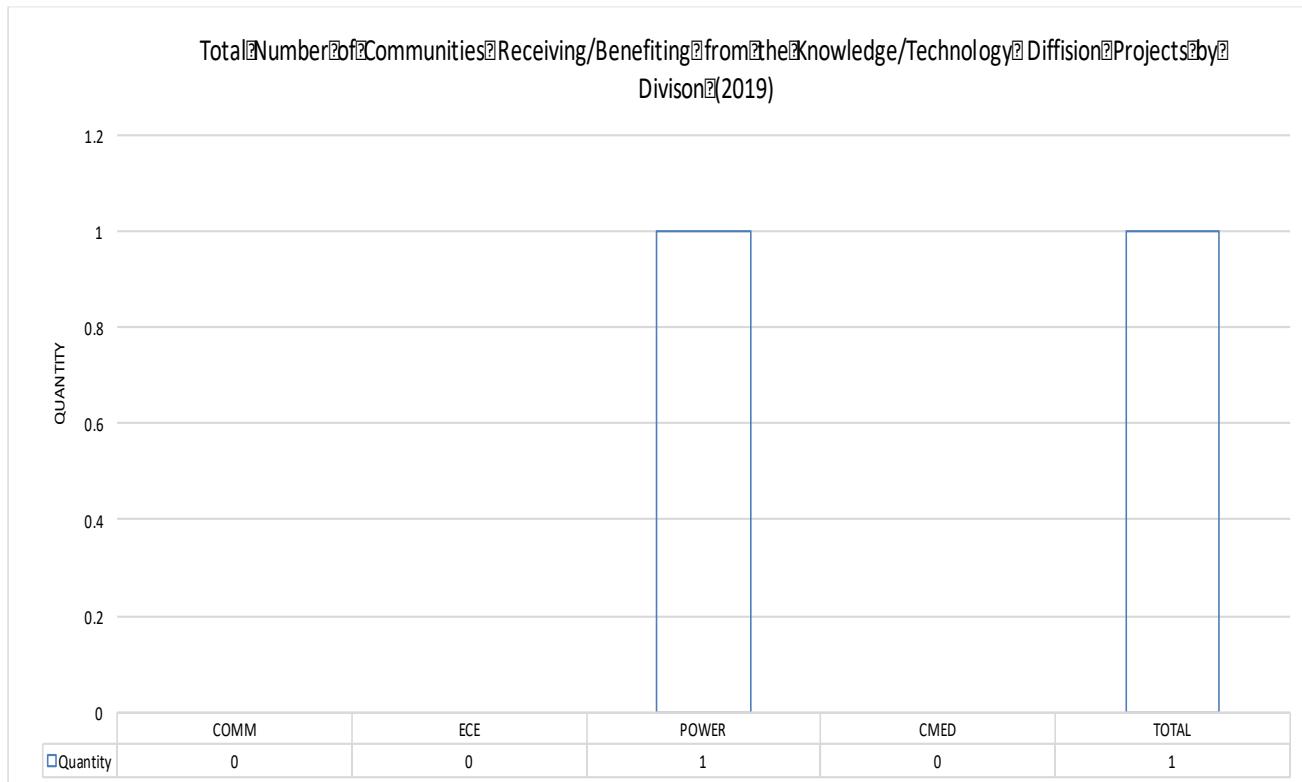


| STAFF NAME              | PROJECT NAME  | RELATED RESEARCH PROJECT/INNOVATION  |
|-------------------------|---|--|
| JASRUL JAMANI<br>JAMIAN | PROJEK PEMINDAHAN ILMU UNTUK<br>MENCAPAI PENJIMATAN & KECEKAPAN<br>ELEKTRIK TERBAIK DALAM MENJAMIN<br>KELESTARIAN HIDUP | KTP-NMG2019: PROJEK PEMINDAHAN ILMU<br>UNTUK MENCAPAI PENJIMATAN & KECEKAPAN<br>ELEKTRIK TERBAIK DALAM MENJAMIN<br>KELESTARIAN HIDUP |

b (i) Total Number of Communities Receiving/Benefiting from the Knowledge/Technology Diffusion Projects by Research Groups



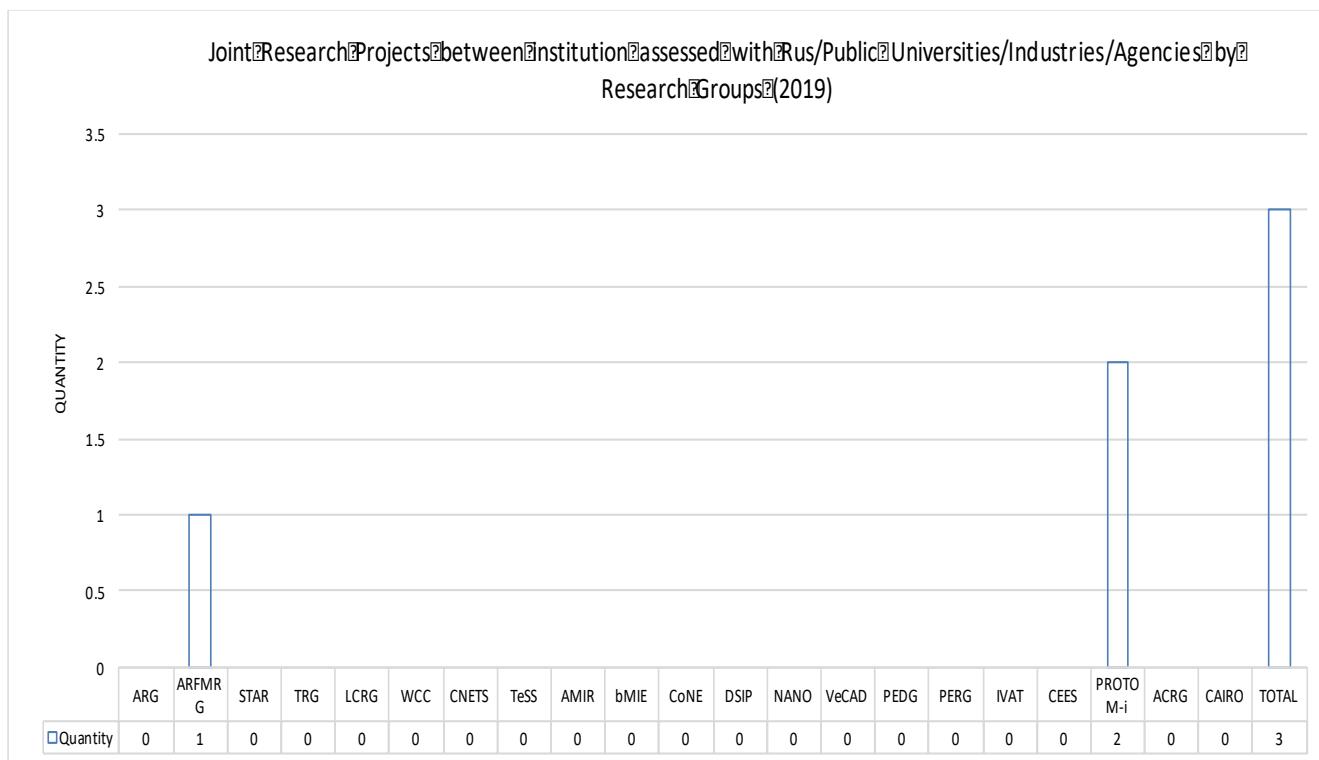
- b (ii) Total Number of Communities Receiving/Benefiting from the Knowledge/Technology Diffusion Projects by Divisions



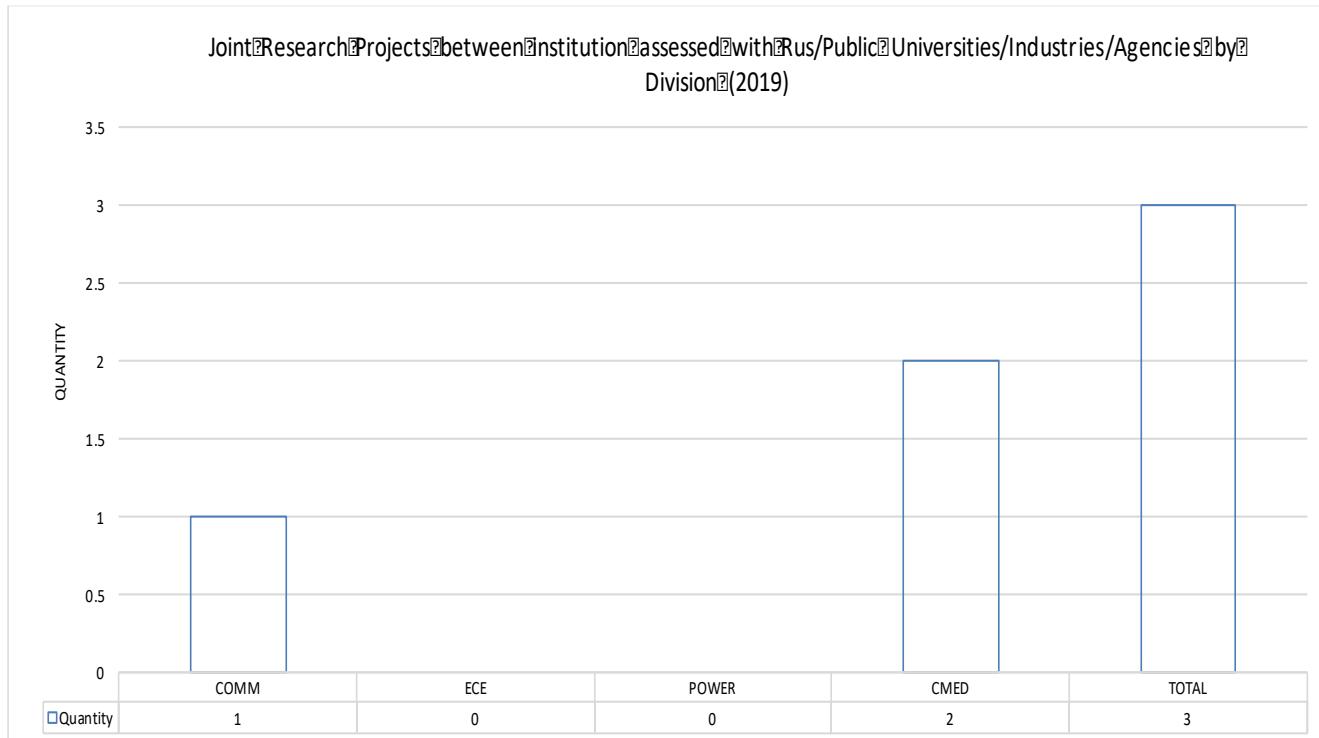
| STAFF NAME              | COMMUNITY/INDUSTRY NAME                          | PROJECT NAME  |
|-------------------------|--|---|
| JASRUL JAMANI<br>JAMIAN | IBU BAPA, MASYARAKAT, GURU &<br>PELAJAR SETEMPAT | KTP-NMG2019: PROJEK PEMINDAHAN ILMU<br>UNTUK MENCAPIAI PENJIMATAN & KECEKAPAN<br>ELEKTRIK TERBAIK DALAM MENJAMIN<br>KELESTARIAN HIDUP |

**G7: Joint research projects between institution assessed with Rus/Public Universities/Private Universities/Industries/Agencies**

**(i) Joint research projects between institution assessed with Rus/Public Universities/Private Universities/Industries/Agencies by Research Groups**



**(ii) Joint research projects between institution assessed with Rus/Public Universities/Private Universities/Industries/Agencies by Divisions**



| RG                          | STAFF NAME                 | PROGRAMME TITLE   |
|-----------------------------|----------------------------|---|
| ADVANCE RF<br>AND MICROWAVE | MOHAMAD KAMAL A. RAHIM     | CHARACTERIZATION OF BEAMFORMING<br>NETWORK AND ANTENNA AT 28GHZ USING<br>WAVEGUIDE TECHNOLOGY |
| PROCESS<br>TOMOGRAPHY       | LEOW PEI LING              | TOMOGRAPHY LAB-ON-CHIP FOR<br>MICROSAMPLE IMAGE RECONSTRUCTION                                |
| PROCESS<br>TOMOGRAPHY       | MOHAMED SULTAN MOHAMED ALI | METAL BASED FLEXIBLE THERMOELECTRIC<br>MICROGENERATOR   |

**G8 : Joint research projects between Research Universities (RUs) in each project**

Nil

**School Achievement  
Malaysia Research  
Assessment  
(MyRA)**

**2020**

## SECTION B

Table 1 - Critical Mass for Each Department

| TYPE/DIVISION        | CMED      | COMM      | ECE       | POWER     | TOTAL      |
|----------------------|-----------|-----------|-----------|-----------|------------|
| <b>University</b>    | 16        | 19        | 13        | 14        | <b>62</b>  |
| <b>National</b>      | 10        | 15        | 17        | 5         | <b>47</b>  |
| <b>Industry</b>      | 2         | 2         | 1         | 1         | <b>6</b>   |
| <b>International</b> | 2         | 5         | 2         | 5         | <b>14</b>  |
| <b>Total</b>         | <b>30</b> | <b>41</b> | <b>33</b> | <b>25</b> | <b>129</b> |

Table 2 - Critical Mass for each RG and CoE/HiCoE

| NO         | RESEARCH GROUP | UNIVERSITY | NATIONAL  | INDUSTRY | INTERNATIONAL | SUM        |
|------------|----------------|------------|-----------|----------|---------------|------------|
| 1          | ACRG           | 4          | 7         | 0        | 0             | <b>11</b>  |
| 2          | ARFMRG         | 3          | 3         | 0        | 0             | <b>6</b>   |
| 3          | CNetS          | 4          | 3         | 0        | 1             | <b>8</b>   |
| 4          | TeSS           | 2          | 3         | 2        | 0             | <b>7</b>   |
| 5          | bMIE           | 6          | 5         | 1        | 1             | <b>13</b>  |
| 6          | CONE           | 1          | 6         | 0        | 0             | <b>7</b>   |
| 7          | DSIP           | 1          | 3         | 0        | 1             | <b>5</b>   |
| 8          | LCRG           | 7          | 1         | 0        | 2             | <b>10</b>  |
| 9          | MNSE           | 4          | 1         | 0        | 0             | <b>5</b>   |
| 10         | PEDG           | 3          | 1         | 0        | 0             | <b>4</b>   |
| 11         | PERG           | 4          | 2         | 1        | 0             | <b>7</b>   |
| 12         | PROTOM-i       | 9          | 4         | 1        | 0             | <b>14</b>  |
| 13         | STAR           | 1          | 0         | 0        | 0             | <b>1</b>   |
| 14         | VeCAD          | 3          | 1         | 0        | 0             | <b>4</b>   |
| 16         | CAIRO          | 2          | 0         | 1        | 1             | <b>4</b>   |
| 17         | CEES           | 5          | 0         | 0        | 1             | <b>6</b>   |
| 18         | IVAT           | 2          | 2         | 0        | 4             | <b>8</b>   |
| 19         | WCC            | 1          | 5         | 0        | 3             | <b>9</b>   |
| <b>SUM</b> |                | <b>62</b>  | <b>47</b> | <b>6</b> | <b>14</b>     | <b>129</b> |

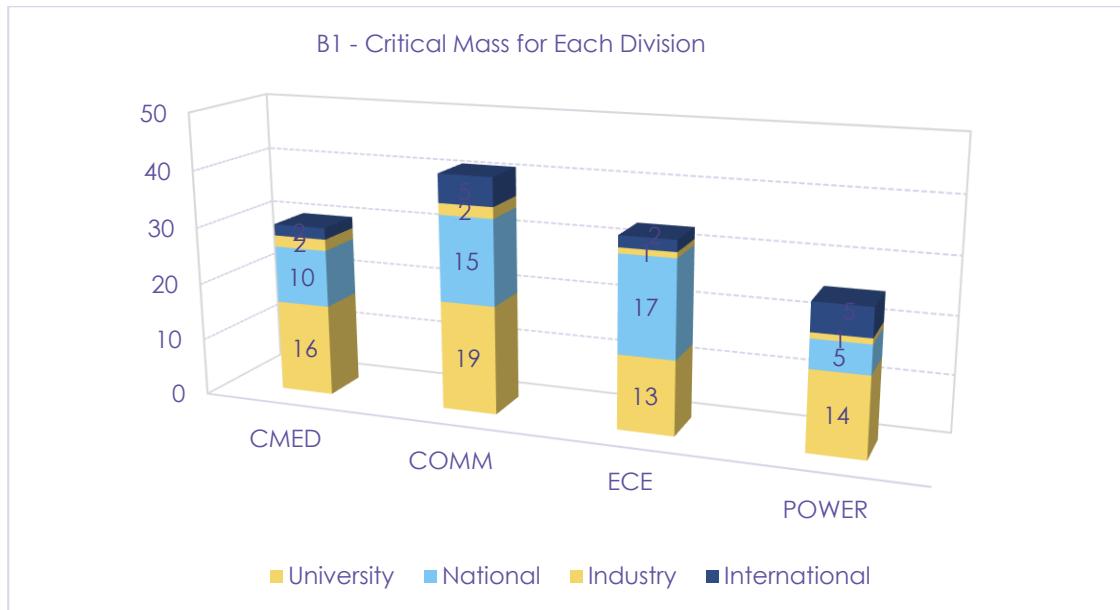


Figure 1 – Stacked Bar Chart of Critical Mass for Each Division

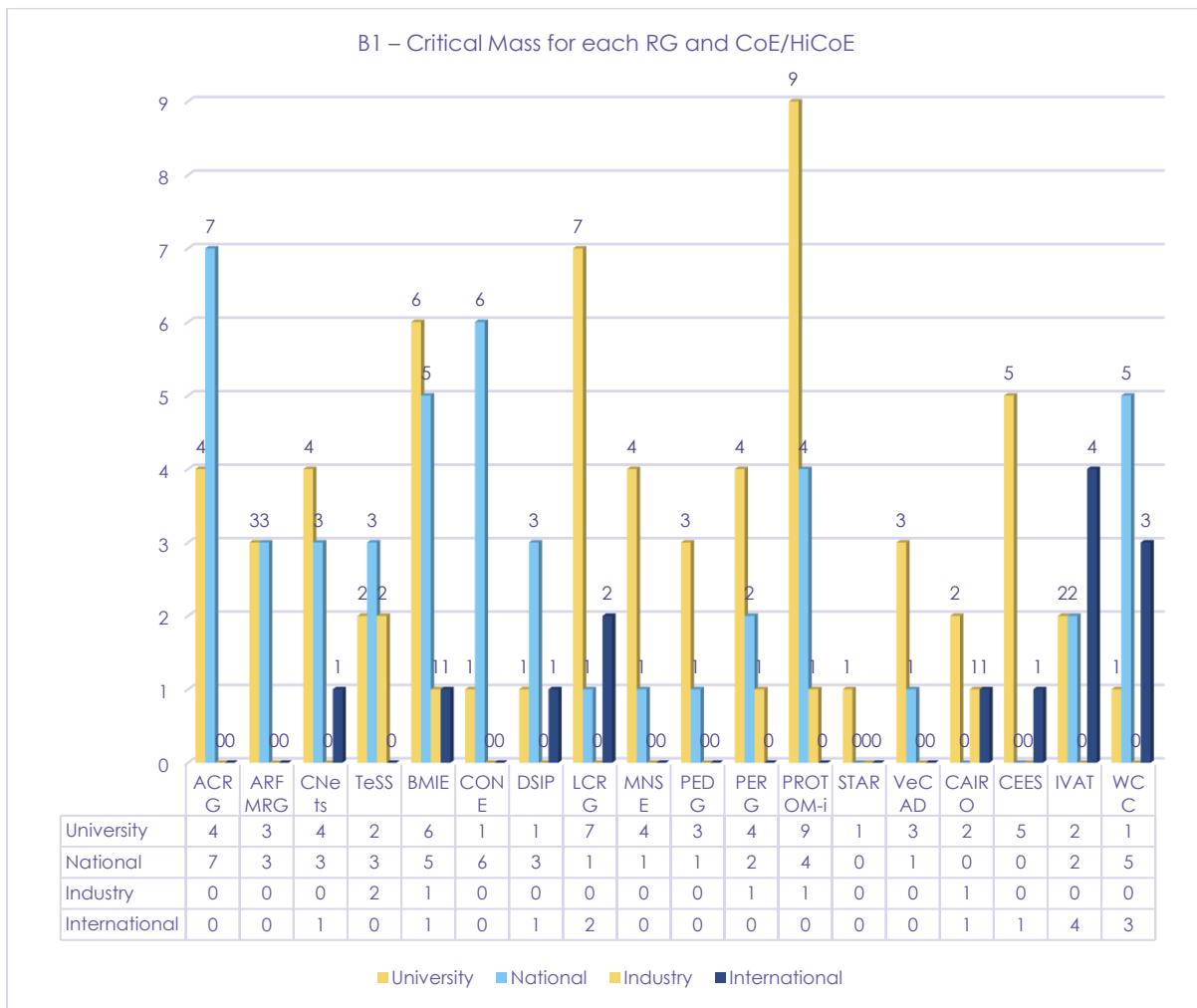


Figure 2 – Clustered Bar Chart of Critical Mass for each RG and CoE/HiCoE

**Section B4 - Awards and recognitions conferred by national and international learned and professional bodies in 2018**

Table 3 - Awards and Recognitions Received for each Division

| SEC       | AWARD  |  | CMED | COMM | ECE | POWER | TOTAL |
|-----------|--|--|------|------|-----|-------|-------|
| <b>B4</b> | <b>Awards and recognitions conferred by national and international learned and professional bodies</b> | a. Award conferred by INTERNATIONAL academic and professional bodies towards research excellent            |      |      |     |       | 0     |
|           |  | b. Recognition and stewardship conferred by INTERNATIONAL Learned and Professional Bodies towards research |      |      |     |       | 0     |
|           |  | c. Award conferred by NATIONAL academic and professional bodies towards research excellent                 |      |      |     |       | 0     |
|           |  | d. Recognition and stewardship conferred by NATIONAL Learned and Professional Bodies towards               |      | 1    |     |       | 1     |
|           |  | e. Research Exhibition Awards (gold medals/special awards)   |      |      |     |       | 0     |
|           |  | Total  | 0    | 1    | 0   | 0     | 1     |

Table 4 - Awards and Recognitions Received for each RG and CoE/HiCoE

| RG           | B4a      | B4b      | B4c      | B4d      | B4e      |
|--------------|----------|----------|----------|----------|----------|
| ARG          |          |          |          |          |          |
| ARFMRG       |          |          |          |          |          |
| ACRG         |          |          |          |          |          |
| CNets        |          |          |          |          |          |
| TeSS         |          |          |          |          |          |
| bMIE         |          |          |          |          |          |
| CoNE         |          |          |          |          |          |
| DSIP         |          |          |          |          |          |
| LCRG         |          |          |          |          |          |
| PEDG         |          |          |          |          |          |
| PERG         |          |          |          |          |          |
| STAR         |          |          |          |          |          |
| VeCAD        |          |          |          |          |          |
| MNSE         |          |          |          |          |          |
| PROTOM-i     |          |          |          |          |          |
| WCC          |          |          |          | 1        |          |
| CEES         |          |          |          |          |          |
| IVAT         |          |          |          |          |          |
| CAIRO        |          |          |          |          |          |
| <b>TOTAL</b> | <b>0</b> | <b>0</b> | <b>0</b> | <b>1</b> | <b>0</b> |

**Awards and recognitions conferred by national and international learned and professional bodies**

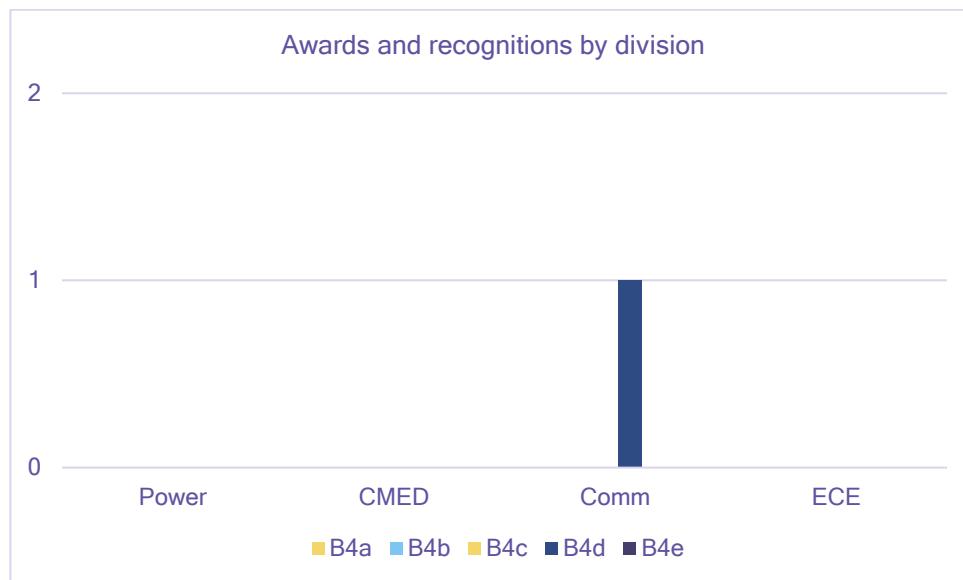


Figure 3 – Awards and Recognitions Received for each Division

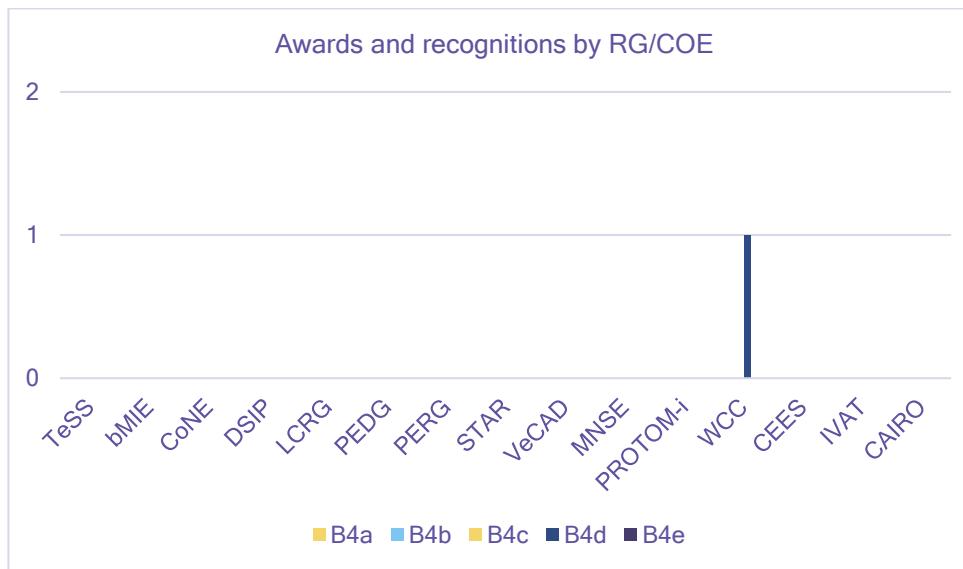


Figure 4 – Awards and Recognitions Received for each RG and CoE/HiCoE

## SECTION C

### Section C1 – Publication

Table 5: Publication by category for all departments in FKE

| CATEGORY            | COMM | CMED | ECE | POWER | TOTAL |
|---------------------|------|------|-----|-------|-------|
| INDEXED PUBLICATION | 93   | 89   | 52  | 61    | 295   |
| PROCEEDINGS         | 23   | 12   | 24  | 12    | 71    |
| BOOK CHAPTERS       | 21   | 0    | 12  | 31    | 64    |
| OTHERS              | 40   | 64   | 68  | 51    | 223   |

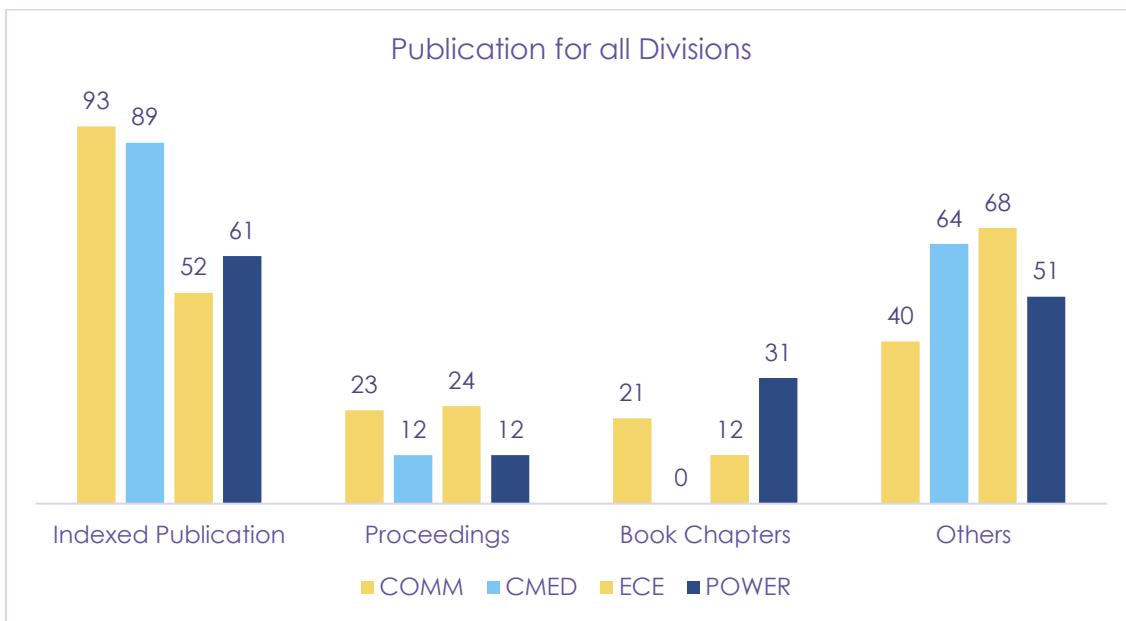


Figure 5: Publication by category for all divisions in FKE

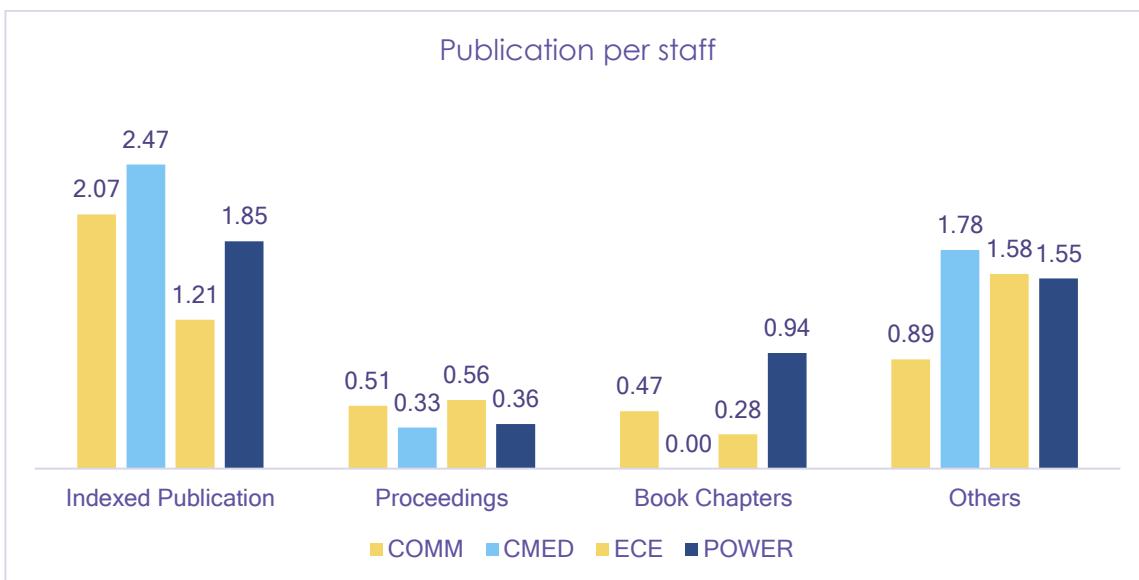


Figure 6: Publication per staff

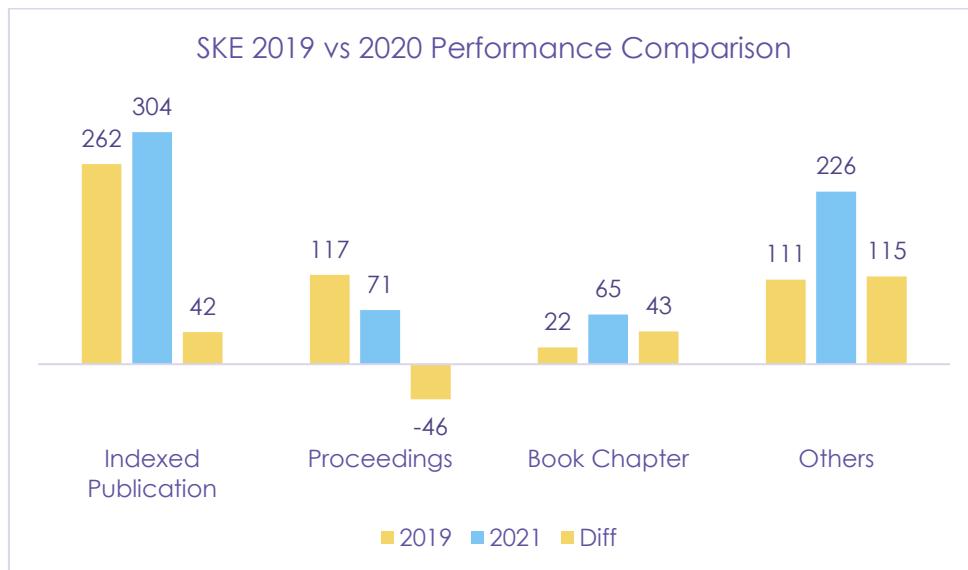
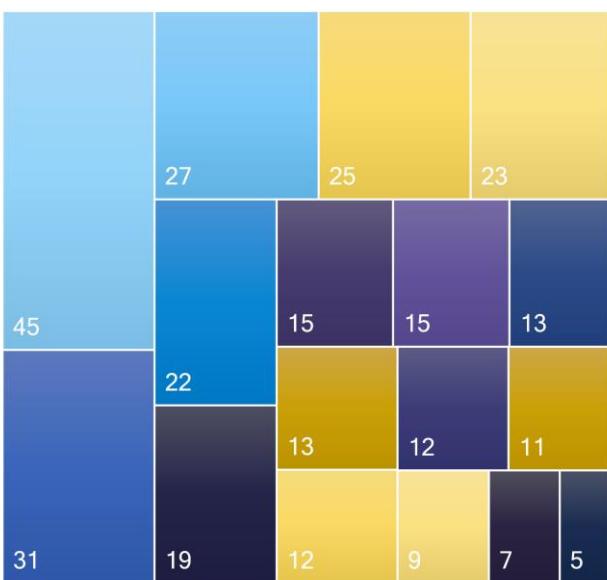
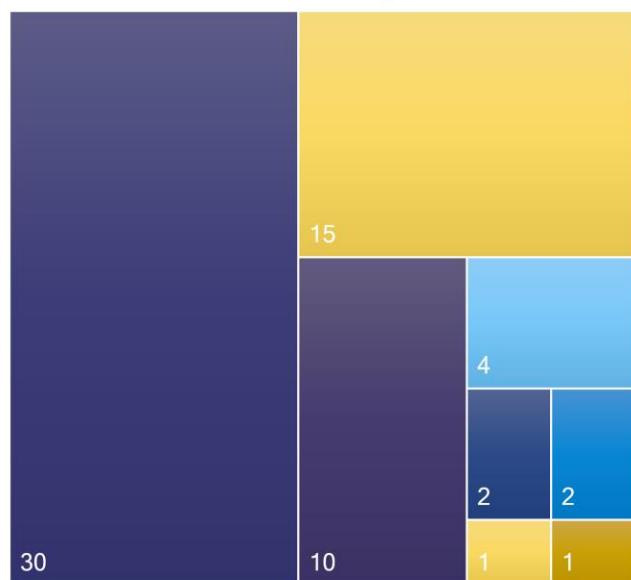


Figure 7: Comparison of publication output between year 2019 and 2020

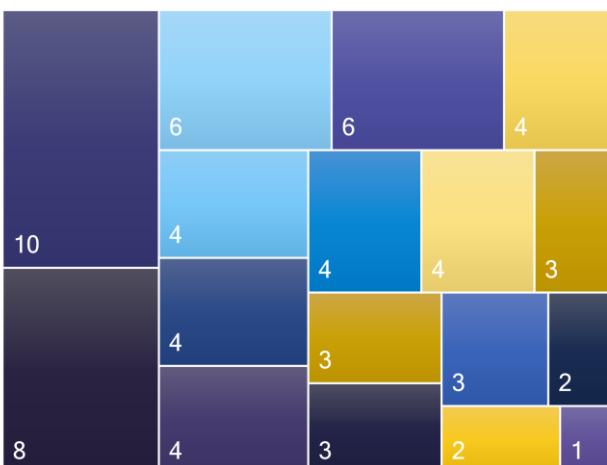
### Indexed Publication



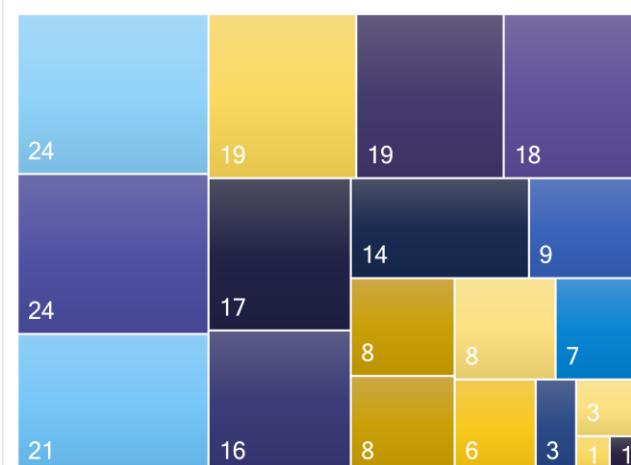
### Book Chapter



### Proceedings



### Others



■ ARFMRG    ■ ACRG    ■ CNETS  
■ TESS    ■ BMIE    ■ CONE  
■ DSIP    ■ LCRG    ■ PEDG  
■ PERG    ■ STAR    ■ VECAD  
■ MNSE    ■ PROTOM-I    ■ N/A  
■ WCC    ■ CEES    ■ IVAT  
■ CAIRO

■ ARFMRG    ■ ACRG    ■ CNETS  
■ TESS    ■ BMIE    ■ CONE  
■ DSIP    ■ LCRG    ■ PEDG  
■ PERG    ■ STAR    ■ VECAD  
■ MNSE    ■ PROTOM-I    ■ N/A  
■ WCC    ■ CEES    ■ IVAT  
■ CAIRO

## Section C2 - Research Grants Received

Table 6 - Public, Private and International Research Grants Received for each Department

| GRANT                | CMED        | COMM        | ECE       | POWER     | TOTAL       |
|----------------------|-------------|-------------|-----------|-----------|-------------|
| Public Grants        | RM1,839,743 | RM1,722,972 | RM593,600 | RM531,650 | RM4,687,965 |
| Private Grants       | RM948,100   | RM175,301   | RM0       | RM15,000  | RM1,138,401 |
| International Grants | RM18,637    | RM198,980   | RM64,492  | RM38,072  | RM320,181   |
|                      | RM2,806,480 | RM2,097,253 | RM658,092 | RM584,722 | RM6,146,546 |

Table 7- Research Grants Received f5or each RG and CoE/HiCoE

| NO | RG       | PUBLIC         | PRIVATE        | INTERNATIONAL | SUM            |
|----|----------|----------------|----------------|---------------|----------------|
| 1  | ACRG     | RM478,070      | RM100,000      | RM0           | RM578,070.00   |
| 2  | ARFMRG   | RM239,794      | RM0            | RM0           | RM239,794.00   |
| 3  | CNets    | RM282,600      | RM0            | RM92,381      | RM374,981.34   |
| 4  | TeSS     | RM457,240      | RM75,301       | RM0           | RM532,540.70   |
| 5  | bMIE     | RM256,300      | RM0            | RM0           | RM256,300.00   |
| 6  | CoNE     | RM224,900      | RM0            | RM0           | RM224,900.00   |
| 7  | DSIP     | RM27,100       | RM0            | RM64,492      | RM91,591.80    |
| 8  | LCRG     | RM286,550      | RM100,000      | RM44,936      | RM431,485.92   |
| 9  | MNSE     | RM115,350      | RM0            | RM0           | RM115,350.00   |
| 10 | PEDG     | RM109,150      | RM0            | RM0           | RM109,150.00   |
| 11 | PERG     | RM81,900       | RM15,000       | RM0           | RM96,900.00    |
| 12 | PROTOM-i | RM815,050      | RM627,500      | RM0           | RM1,442,550.00 |
| 13 | STAR     | RM49,700       | RM0            | RM0           | RM49,700.00    |
| 14 | VeCAD    | RM35,100       | RM0            | RM0           | RM35,100.00    |
| 15 | CAIRO    | RM411,473      | RM220,600      | RM15,400      | RM647,473.02   |
| 16 | CEES     | RM85,700       | RM0            | RM38,072      | RM123,772.00   |
| 17 | IVAT     | RM254,900      | RM0            | RM0           | RM254,900.00   |
| 18 | WCC      | RM498,688      | RM0            | RM64,899      | RM563,587.47   |
|    | SUM      | RM4,709,565.01 | RM1,138,400.70 | RM320,180.54  | RM6,168,146.25 |

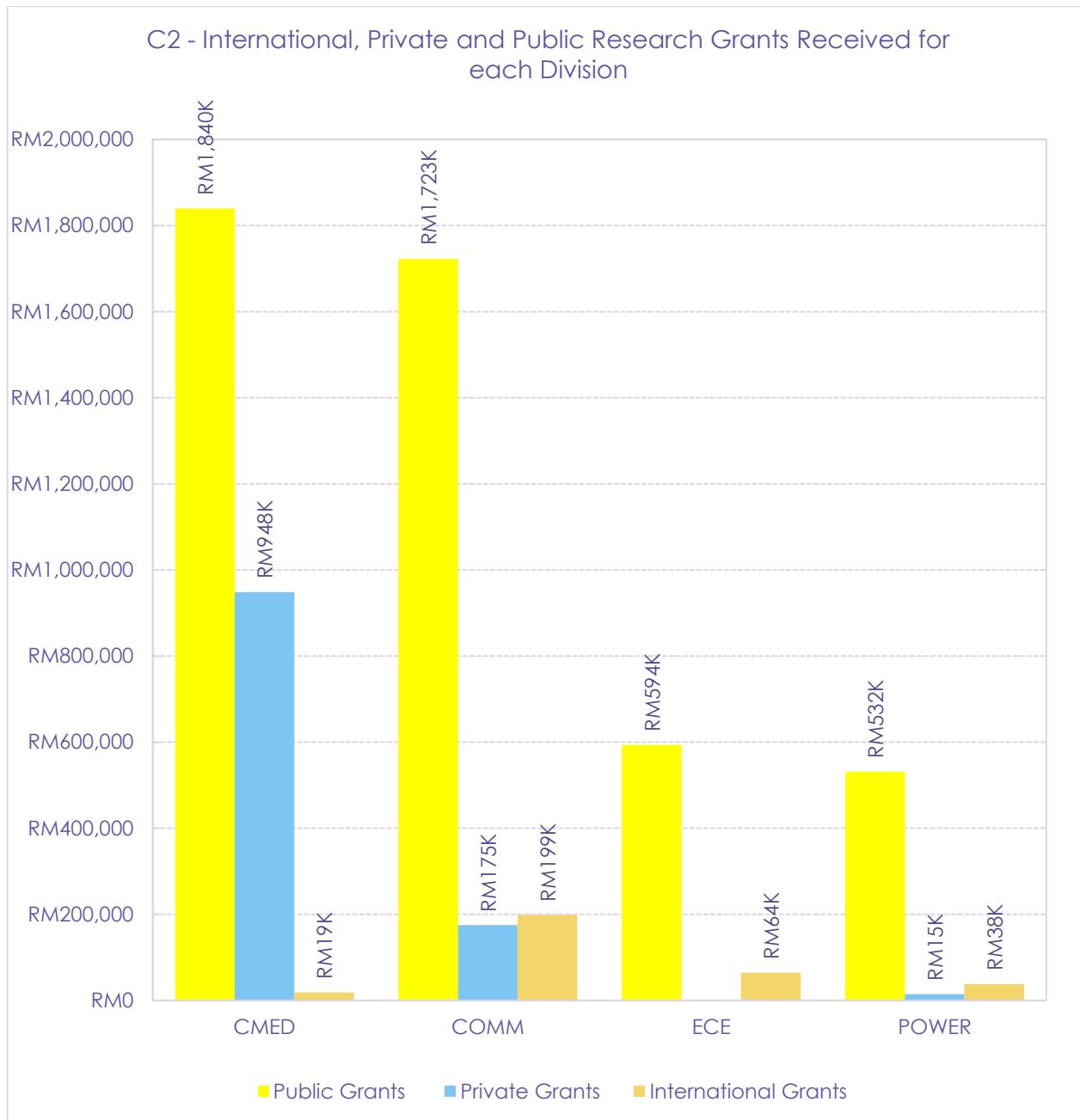


Figure 1 – Clustered Bar Chart of Public, Private and International Research Grants for each Division

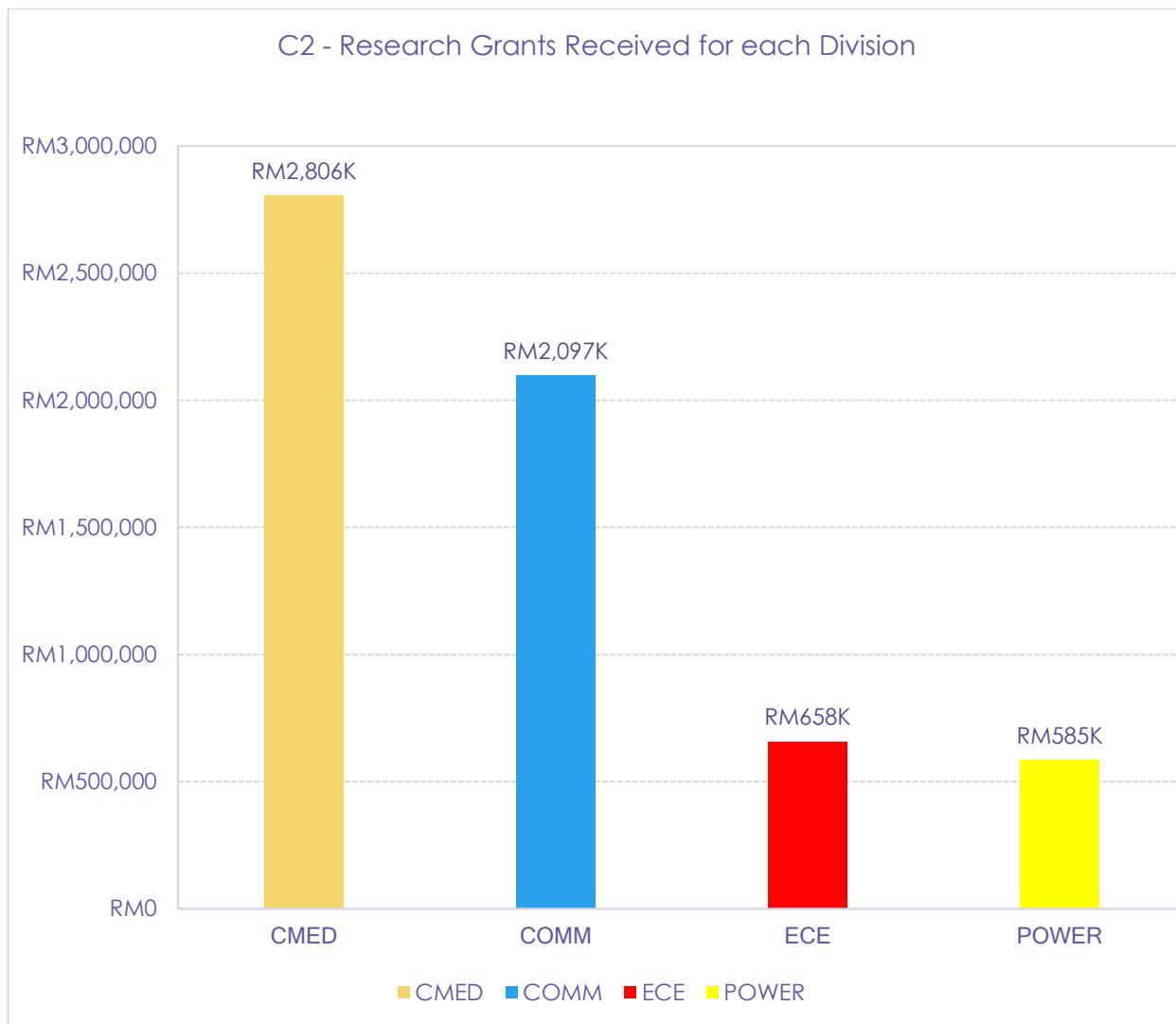


Figure 2 - Bar Chart of Research Grants for each Division

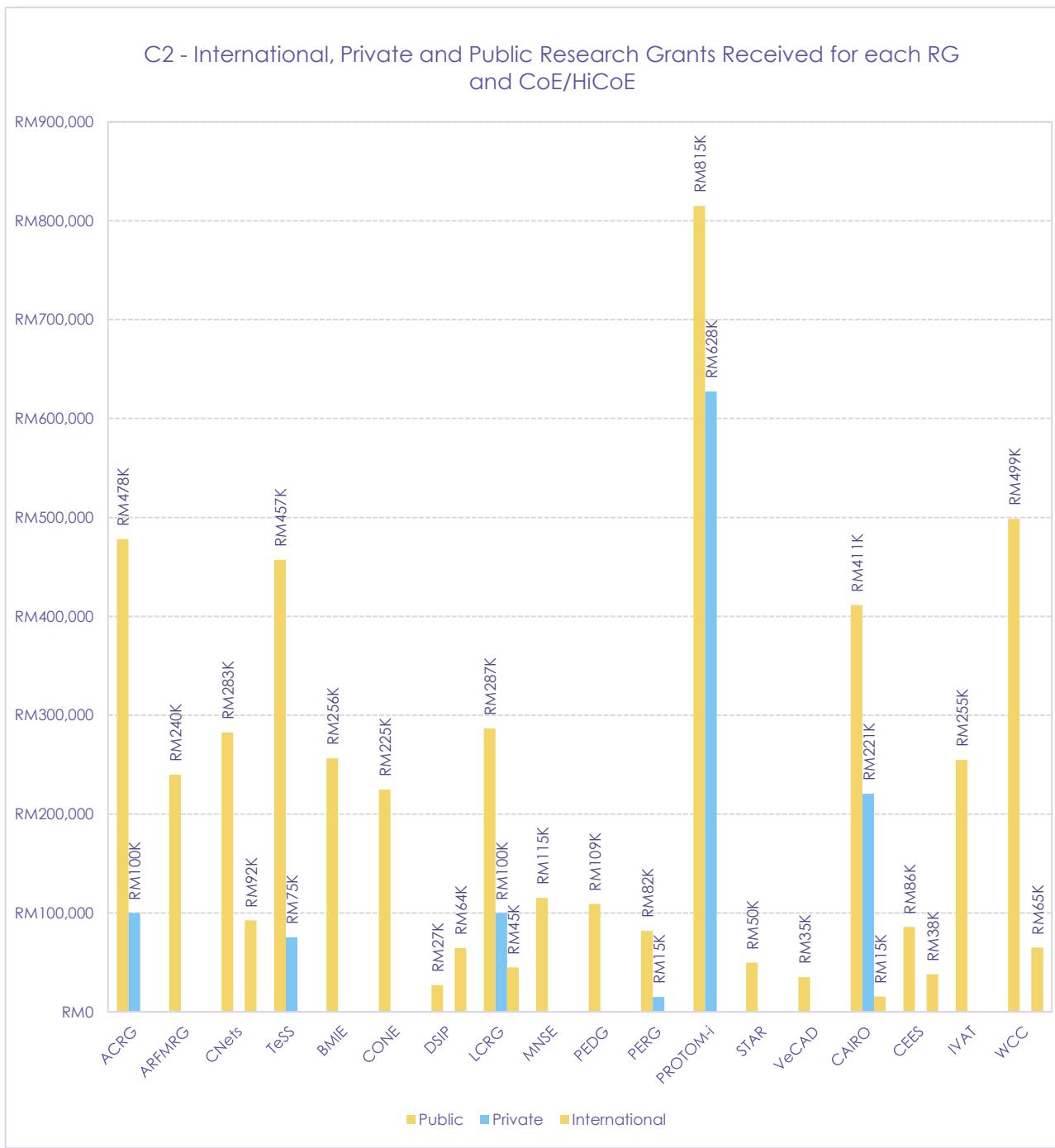


Figure 3 – Clustered Bar Chart of Public, Private and International Research Grants  
for each RG and CoE/HiCoE

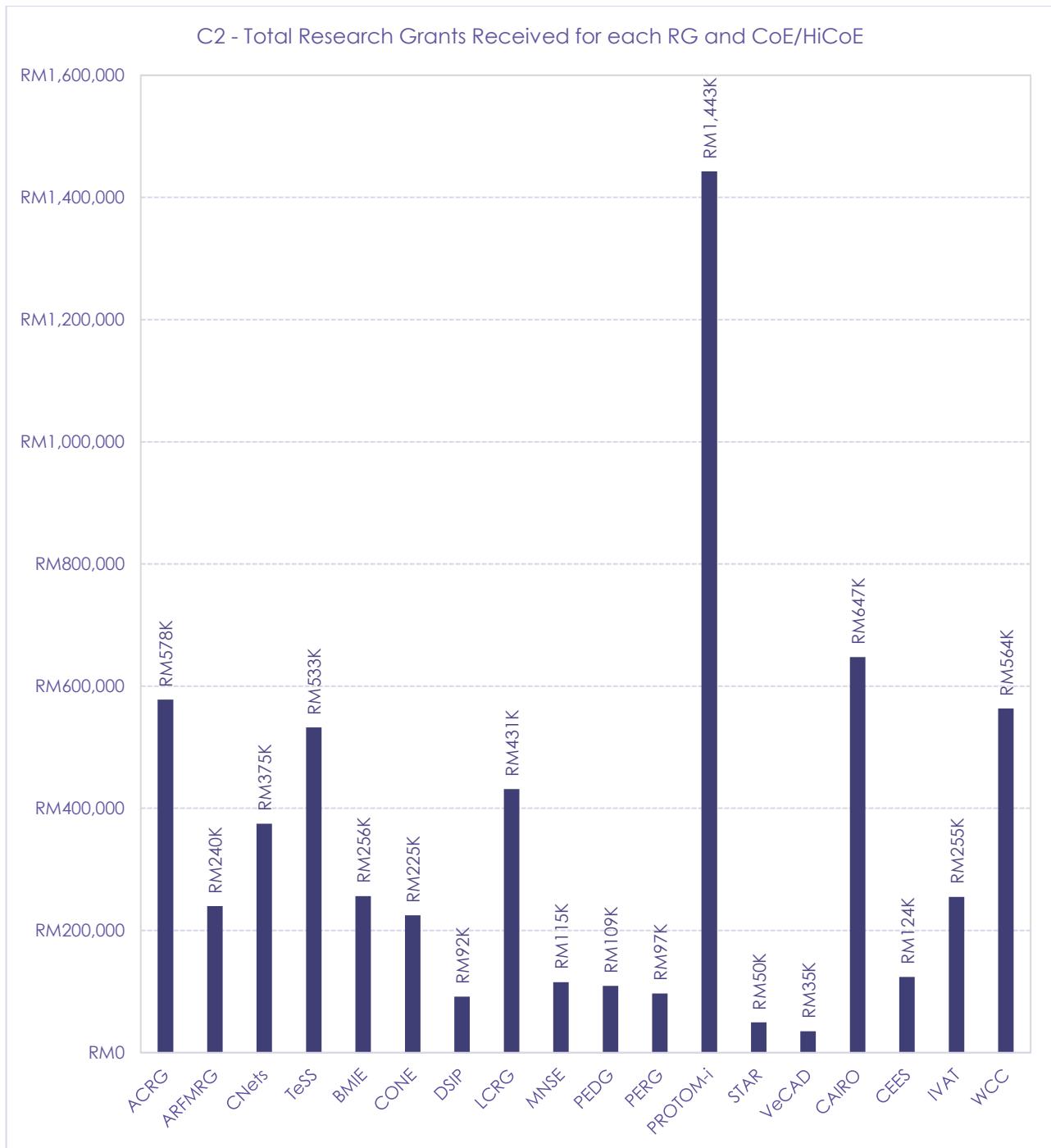


Figure 4- Bar Chart of Total Research Grants (Public, Private and International) Received for each RG and CoE/HiCoE

## SECTION D: POSTGRADUATE STUDENT

Table 8: Total number of postgraduate students in research group and CoE

| <b>RG &amp; COE</b> | <b>MPhil</b> | <b>PhD</b> | <b>TOTAL RESEARCH STUDENTS</b> |
|---------------------|--------------|------------|--------------------------------|
| ARFMRG              | 1            | 22         | 23                             |
| ACRG                | 11           | 27         | 38                             |
| CNETs               | 8            | 24         | 32                             |
| TeSS                | 4            | 9          | 13                             |
| bMIE                | 5            | 9          | 14                             |
| CoNE                | 8            | 13         | 21                             |
| DSIP                | 5            | 20         | 25                             |
| LCRG                | 2            | 22         | 24                             |
| PEDG                | 1            | 21         | 22                             |
| PERG                | 3            | 19         | 22                             |
| STAR                | 3            | 4          | 7                              |
| VeCAD               | 1            | 19         | 20                             |
| MNSE                | 6            | 3          | 9                              |
| PROTOM-i            | 15           | 29         | 44                             |
| WCC                 | 7            | 35         | 42                             |
| CEES                | 7            | 23         | 30                             |
| IVAT                | 6            | 23         | 29                             |
| CAIRO               | 6            | 6          | 12                             |

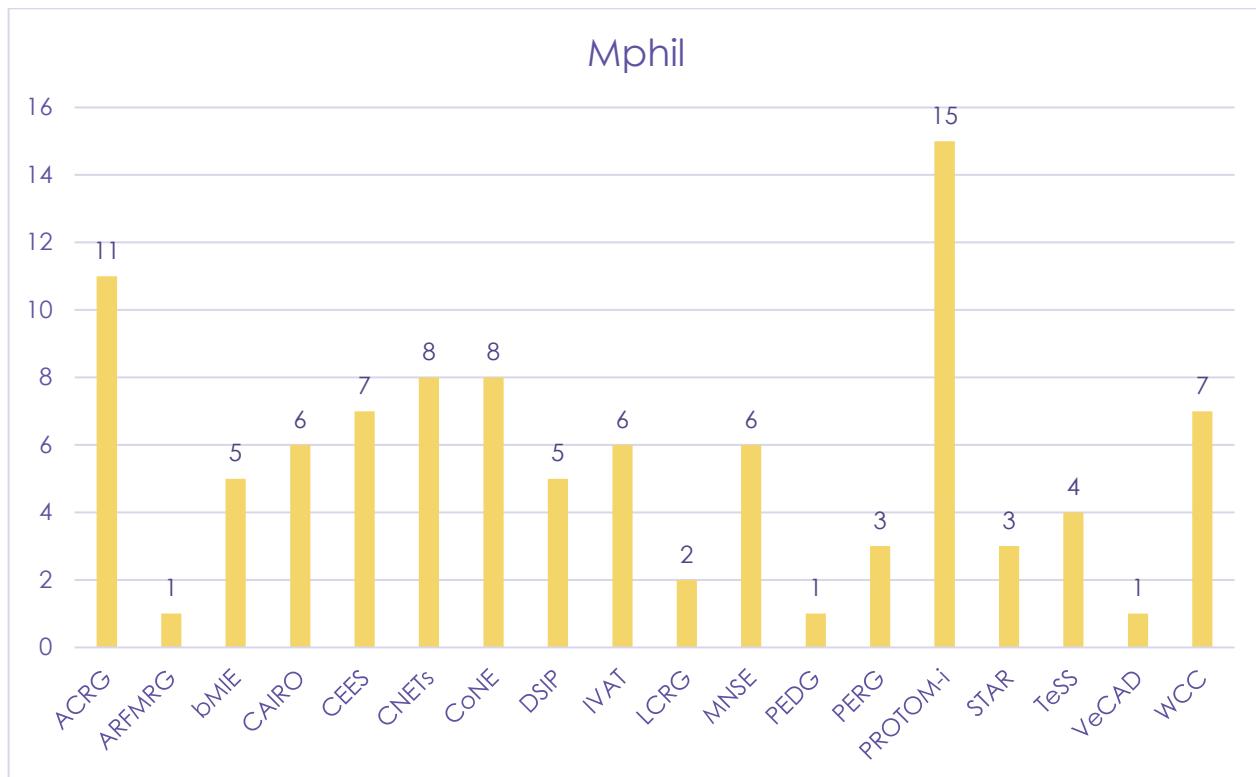


Figure 5 : Number of Mphil students

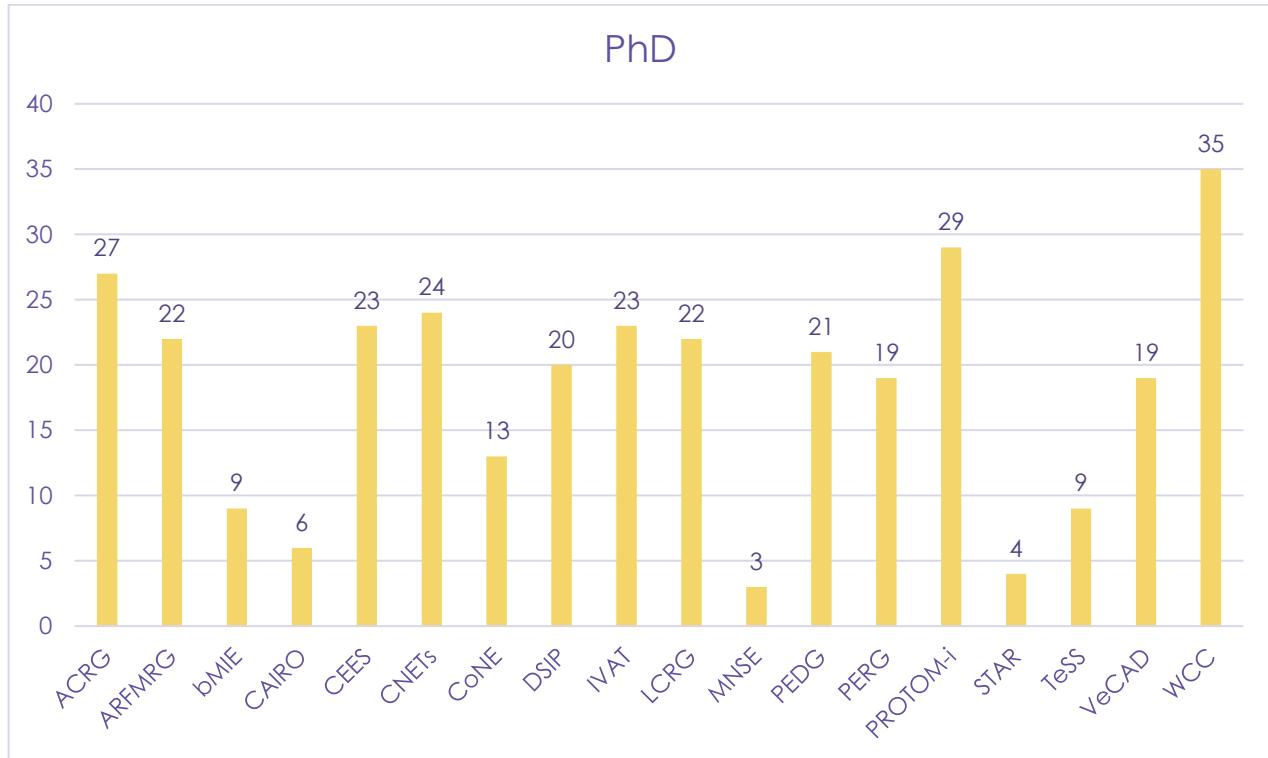


Figure 6 : Number of PhD students

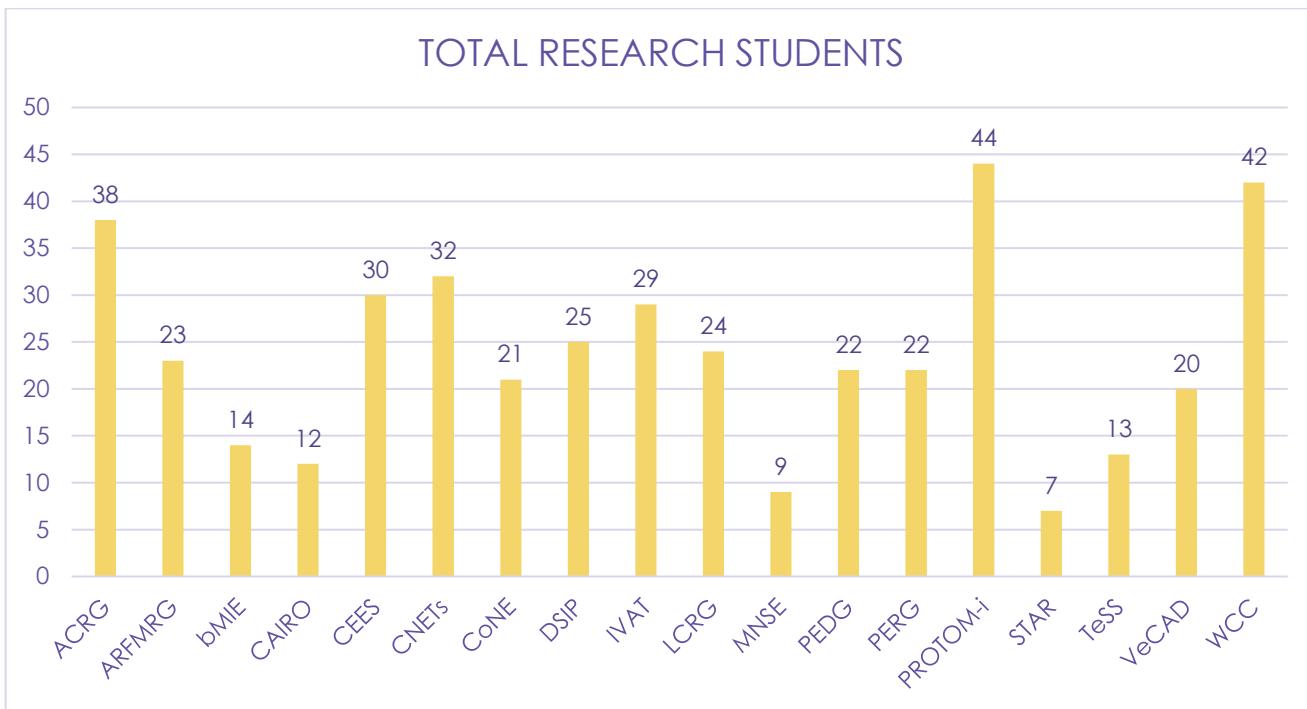


Figure 7 : Number of research students (MPhil & PhD)

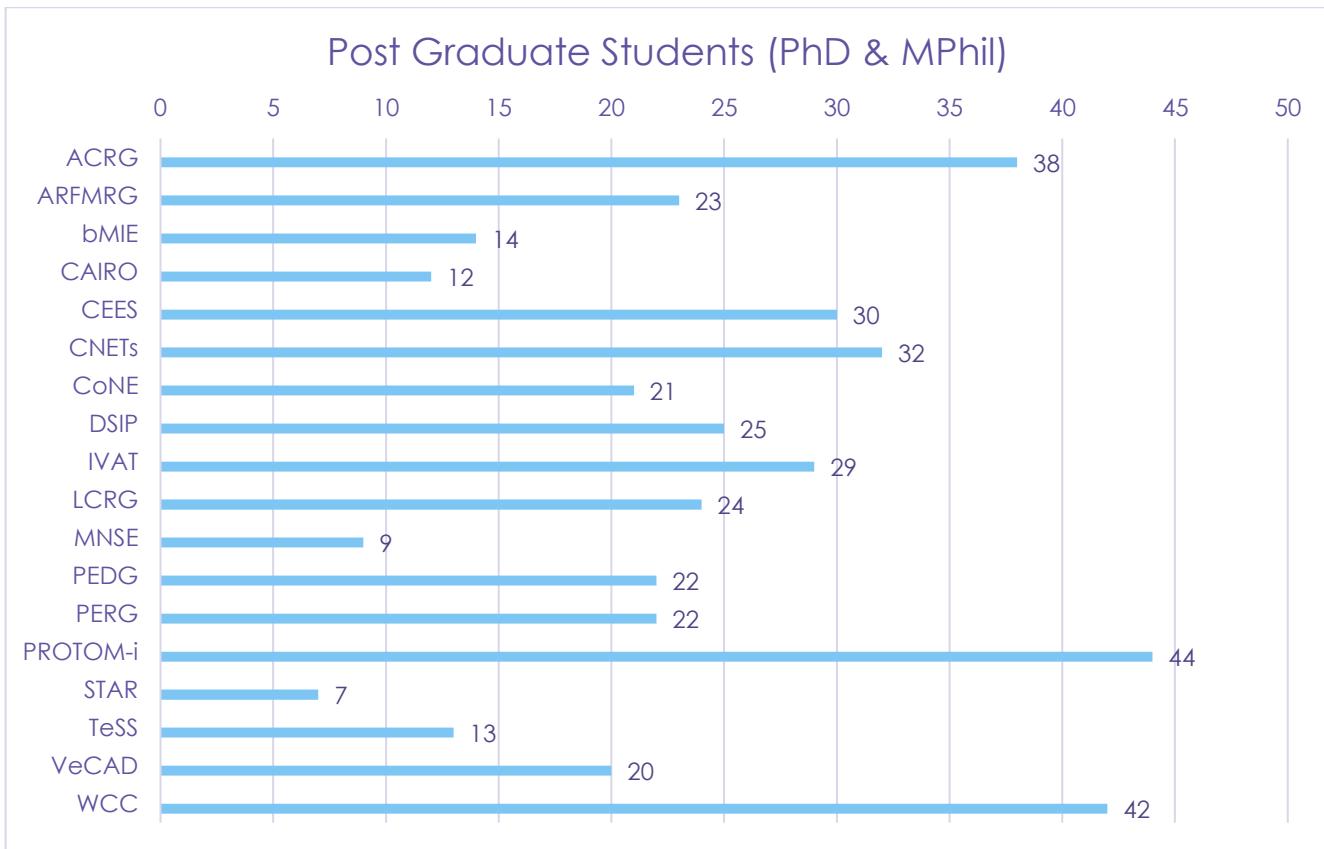


Figure 8 : Number of research students (MPhil & PhD) Research Grants Received for each RG and

CoE/HiCoE

## SECTION E: Innovation

Table 9: Summary of faculty achievement in section E

| No. | Criteria                      | Description   | Achievement |
|-----|-------------------------------|---|-------------|
| E1  | Patent                        | a. Total number of patents granted  | 23          |
|     |                               | b. Total number of patents filed  | 10          |
| E2  | Commercialized product        | Total number of new products licensed for commercialization in the year                   | 1           |
| E3  | Technology know-how licensing | Total number of technology know-how licensing in the year                                 | 1           |
| E4  | IPR other than patent         | Total number of IPR other than patents (i.e. copyright, trademark, industrial design etc) | 48          |

Table 10: Division achievement for all sub-section in innovation

| NO. | DEPT.        | PATENT GRANTED (E1a) | PATENT SUBMITTED (E1b) | COMMERCIALIZED PRODUCT (E2) | TECHNOLOGY KNOW-HOW LICENCING (E3) | IPR/ COPYRIGHT (E4) |
|-----|--------------|----------------------|------------------------|-----------------------------|------------------------------------|---------------------|
| 1   | <b>POWER</b> | 0                    | 0                      | 0                           | 0                                  | 7                   |
| 2   | <b>CMED</b>  | 5                    | 2                      | 1                           | 1                                  | 13                  |
| 3   | <b>COMM</b>  | 14                   | 7                      | 0                           | 0                                  | 18                  |
| 4   | <b>ECE</b>   | 4                    | 1                      | 0                           | 0                                  | 10                  |

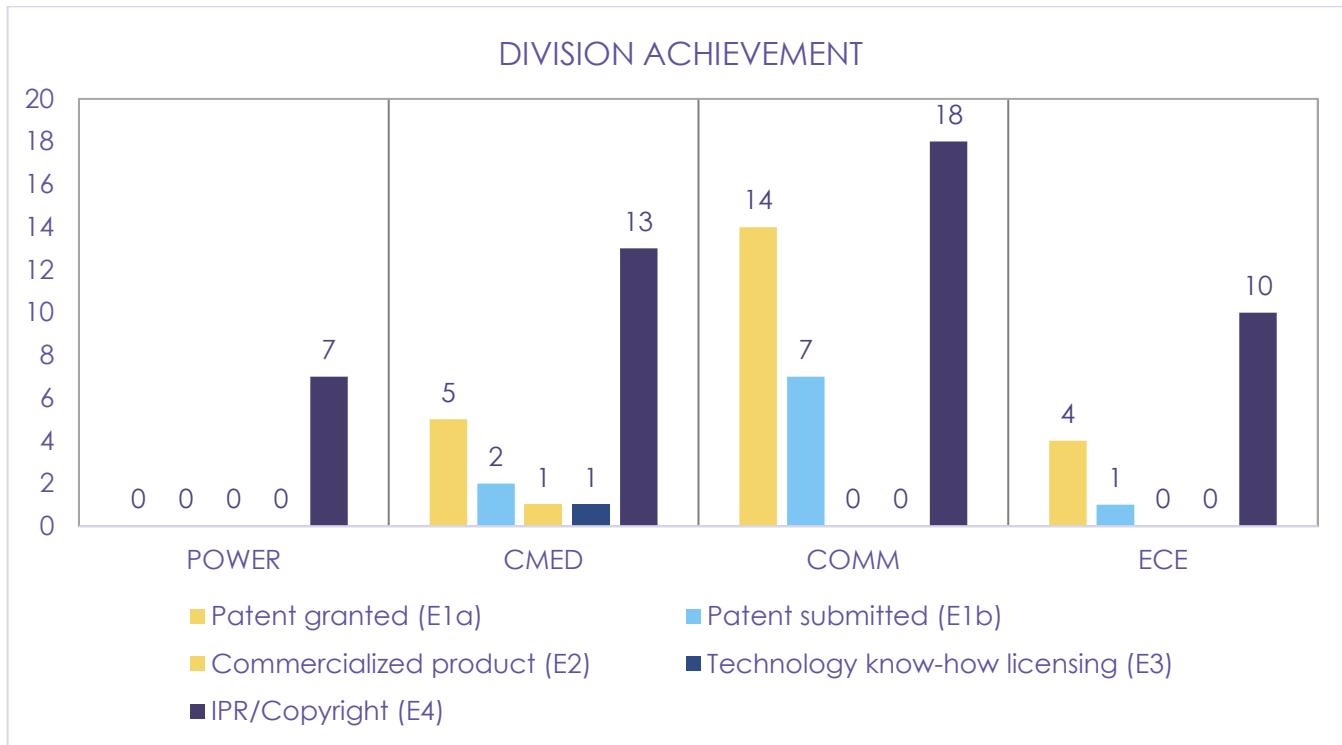


Figure 9. Division achievement for all sub-section in innovation

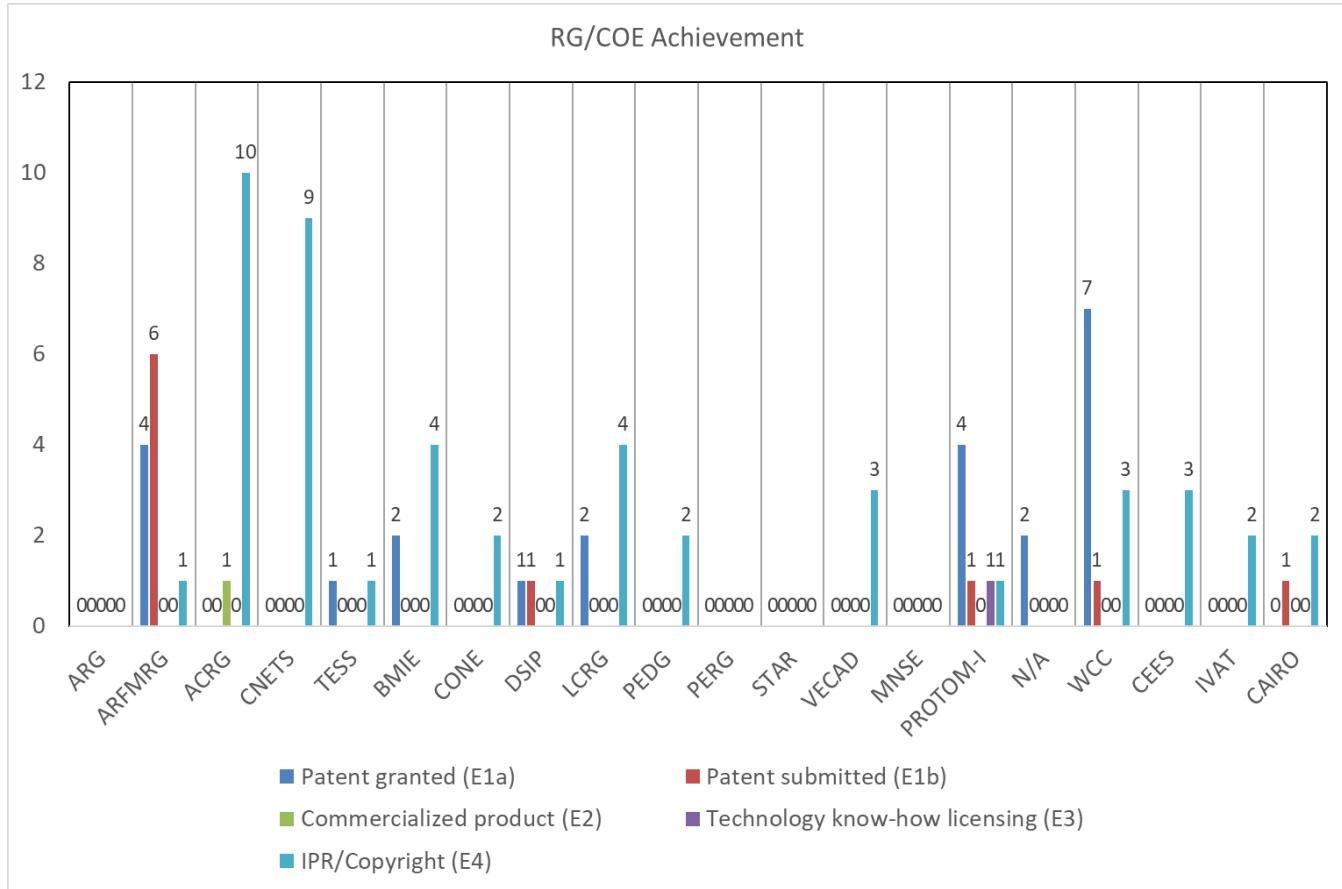


Figure 10. Research group and center of excellence achievement for all sub-section in innovation

Table 11: RG/COE Achievement

| No | RG           | Patent granted (E1a) | Patent submitted (E1b) | Commercialized product (E2) | Technology know-how licensing (E3) | IPR/Copyright (E4) |
|----|--------------|----------------------|------------------------|-----------------------------|------------------------------------|--------------------|
| 1  | ARG          | 0                    | 0                      | 0                           | 0                                  | 0                  |
| 2  | ARFMRG       | 4                    | 6                      | 0                           | 0                                  | 1                  |
| 3  | ACRG         | 0                    | 0                      | 1                           | 0                                  | 10                 |
| 4  | CNETS        | 0                    | 0                      | 0                           | 0                                  | 9                  |
| 5  | TESS         | 1                    | 0                      | 0                           | 0                                  | 1                  |
| 6  | BMIE         | 2                    | 0                      | 0                           | 0                                  | 4                  |
| 7  | CONE         | 0                    | 0                      | 0                           | 0                                  | 2                  |
| 8  | DSIP         | 1                    | 1                      | 0                           | 0                                  | 1                  |
| 9  | LCRG         | 2                    | 0                      | 0                           | 0                                  | 4                  |
| 10 | PEDG         | 0                    | 0                      | 0                           | 0                                  | 2                  |
| 11 | PERG         | 0                    | 0                      | 0                           | 0                                  | 0                  |
| 12 | STAR         | 0                    | 0                      | 0                           | 0                                  | 0                  |
| 13 | VECAD        | 0                    | 0                      | 0                           | 0                                  | 3                  |
| 14 | MNSE         | 0                    | 0                      | 0                           | 0                                  | 0                  |
| 15 | PROTOM-I     | 4                    | 1                      | 0                           | 1                                  | 1                  |
| 16 | N/A          | 2                    | 0                      | 0                           | 0                                  | 0                  |
| 17 | WCC          | 7                    | 1                      | 0                           | 0                                  | 3                  |
| 18 | CEES         | 0                    | 0                      | 0                           | 0                                  | 3                  |
| 19 | IVAT         | 0                    | 0                      | 0                           | 0                                  | 2                  |
| 20 | CAIRO        | 0                    | 1                      | 0                           | 0                                  | 2                  |
|    | <b>Total</b> | <b>23</b>            | <b>10</b>              | <b>1</b>                    | <b>1</b>                           | <b>48</b>          |

### SECTION F – Professional Services and Gifts

Table 12. SKE performance achievement of income generation for year 2019

| <b>SECTION F – PROFESSIONAL SERVICES AND GIFTS</b> |                              |   |                                  |                         |
|--|------------------------------|---|----------------------------------|-------------------------|
| <b>No</b>  | <b>Kriteria</b>              | <b>KPI</b>  |                                  | <b>Achievement (RM)</b> |
| 1  | Professional Services & Gift | Gross Income from training courses (non-degree programme) and postgraduate fees (research programme)  | e. Training Courses              | 348,627.02              |
| 2  |                              |   | f. Postgraduate Fee              | 1,555,403.75            |
| 3  |                              | Gross Income from product commercialization/technology know how licencing                             | e. Product Commercialization     | 20,168.00               |
| 4  |                              |   | f. Technology Know-How Licencing | 11,000.00               |
| 5  |                              | Gross Income from consultancy (excluding contract research)/hospital recoupable fees/lab service fees | e. Consultancies                 | 770,393.92              |
| 6  |                              |   | f. Lab Service Fees              | 272,712.30              |
|  |                              | Endowment (including professorial chairs)   |                                  | 52,668.81               |
|  |                              | Gift (money, equipment, research materials, etc) (worth > RM3,000.00)                                 |                                  |                         |

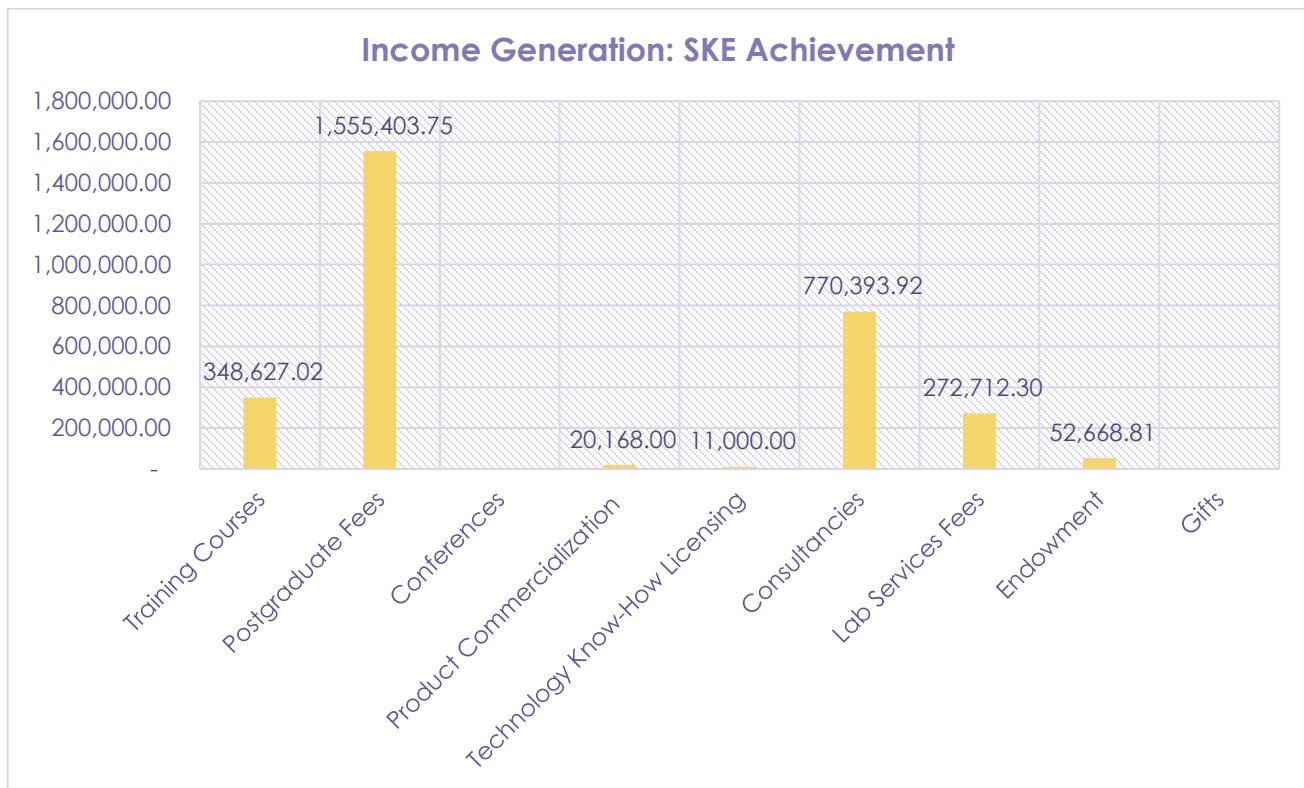


Figure 11. SKE performance achievement of income generation for year 2019

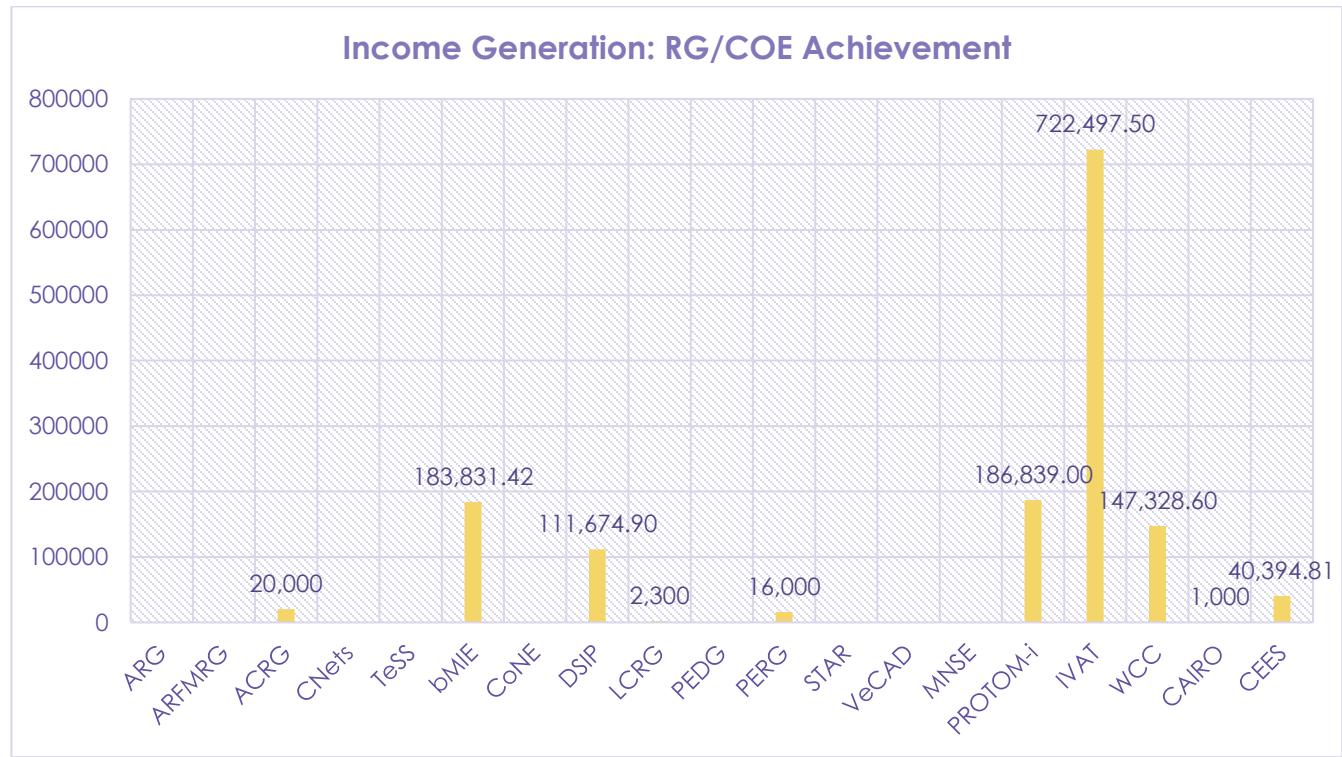


Figure 12. Total contribution of RG/COE to the SKE achievement

Table 13. Total contribution of RG/COE to the SKE achievement

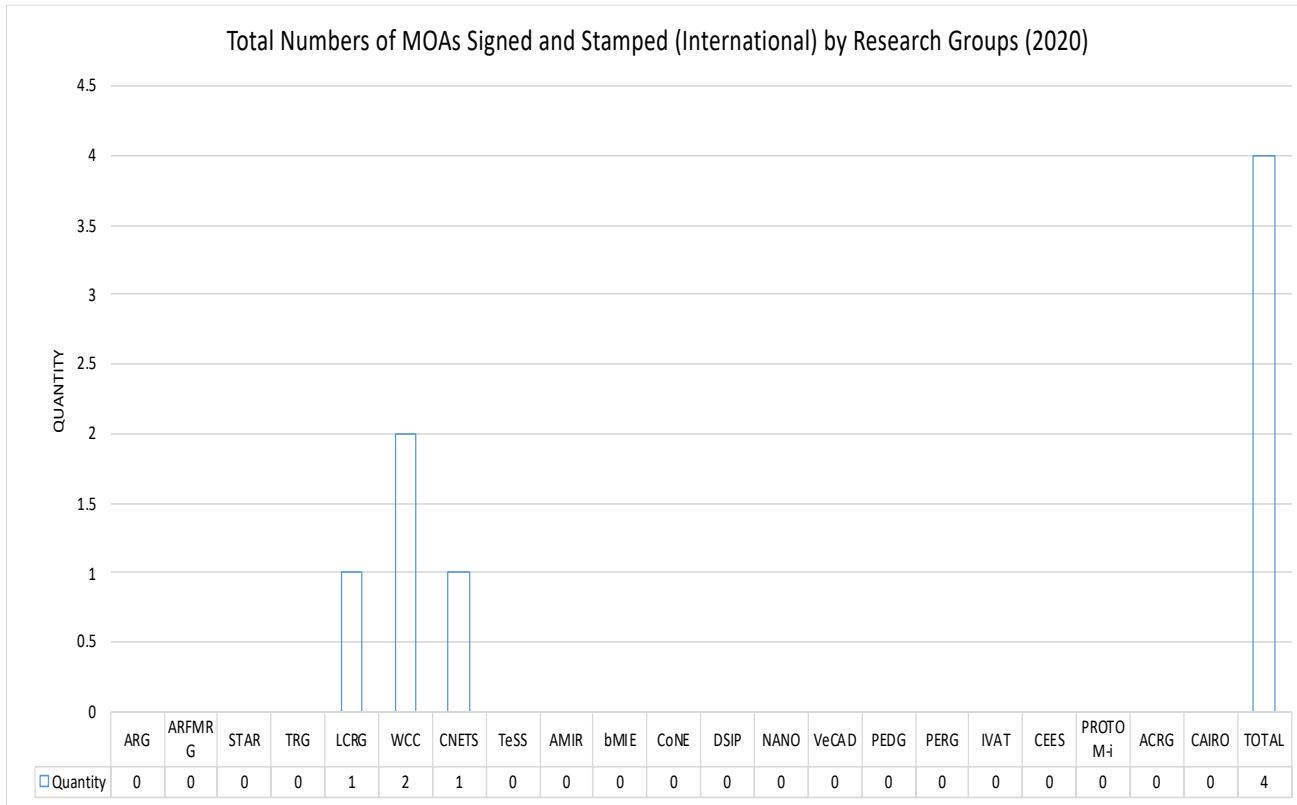
|                 | F1(a):<br>Training<br>Courses from<br>Non-Degree<br>Programmes | F2:<br>Conference<br>/Seminar<br>/Short<br>Course | F3(a):<br>Product<br>Commer<br>cialization | F3(b):<br>Technology<br>Know-How<br>Licencing | F4(a):<br>Consultan<br>cy | F4(c): Lab<br>Services | F5:<br>End<br>ow<br>men<br>t | F6: Gifts | Total      |
|-----------------|--|---|--|---|---------------------------|------------------------|------------------------------|-----------|------------|
| RG/COE          | Amount (RM)  |   |  |   |                           |                        |                              |           |            |
| <b>ARG</b>      |  |   |  |   |                           |                        |                              |           |            |
| <b>ARFMRG</b>   |  |   |  |   |                           |                        |                              |           |            |
| <b>ACRG</b>     |  |   | 20,000.00                                  |   |                           |                        |                              |           | 20,000.00  |
| <b>CNeTS</b>    |  |   |  |   |                           |                        |                              |           |            |
| <b>TeSS</b>     |  |   |  |   |                           |                        |                              |           |            |
| <b>bMIE</b>     | 183,831.42   |   |  |   |                           |                        |                              |           | 183,831.42 |
| <b>CoNE</b>     |  |   |  |   |                           |                        |                              |           |            |
| <b>DSIP</b>     |  |   |  |   | 111,674.90                |                        |                              |           | 111,674.90 |
| <b>LCRG</b>     |  |   |  |   | 2,300.00                  |                        |                              |           | 2,300.00   |
| <b>PEDG</b>     |  |   |  |   |                           |                        |                              |           |            |
| <b>PERG</b>     |  |   |  |   | 16,000.00                 |                        |                              |           | 16,000.00  |
| <b>STAR</b>     |  |   |  |   |                           |                        |                              |           |            |
| <b>VeCAD</b>    |  |   |  |   |                           |                        |                              |           |            |
| <b>MNSE</b>     |  |   |  |   |                           |                        |                              |           |            |
| <b>PROTOM-i</b> |  |   |  | 10,000.00                                     | 176,839.00                |                        |                              |           | 186,839.00 |
| <b>IVAT</b>     | 45,000.00  |   |  |   | 404,785.20                | 272,712.30             |                              |           | 722,497.50 |
| <b>WCC</b>      | 119,795.60   |   | 168.00                                     |   | 18,400.00                 | 8,965.00               |                              |           | 147,328.60 |
| <b>CAIRO</b>    |  |   |  | 1,000.00                                      |                           |                        |                              |           | 1,000.00   |
| <b>CEES</b>     |  |   |  |   | 40,394.81                 |                        |                              |           | 40,394.81  |

## SECTION G: NETWORKING AND LINKAGES

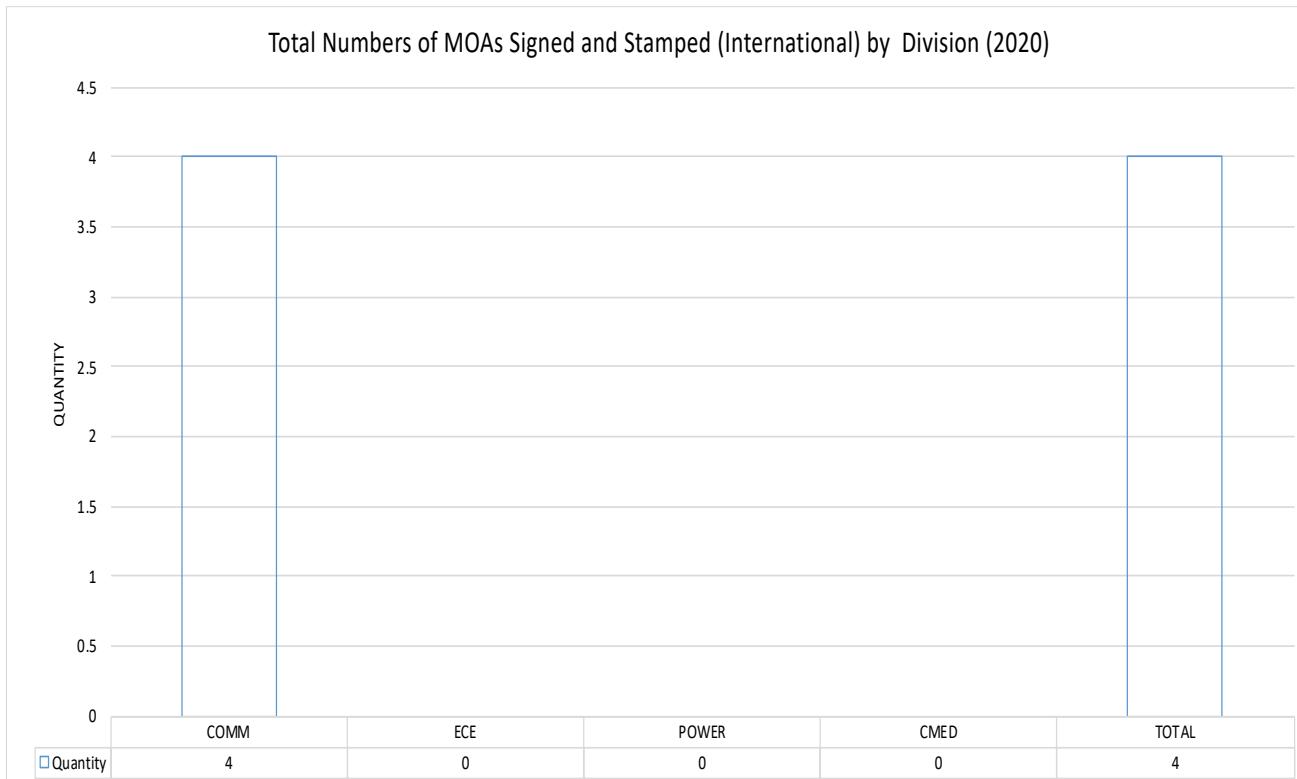
G1: Participation in International Inter-Institution research related activities under MoA/active agreement

| NO | ORGANISATION/COLLABORATOR  | COUNTRY                 | PROGRAMME TITLE  | TYPE | AMOUNT        |
|----|--|-------------------------|--|------|---------------|
| 1  | INSTITUTE FOR INFORMATION & COMMUNICATIONS TECHNOLOGIES JOANNEUM RESEARCH      | AUSTRIA                 | MEASUREMENT AND ASSESSMENT OF SECOND ORDER STATISTICS OF KA BAND SATCOM SYSTEMS IN TROPICAL REGIONS                                      | MOA  | EUR25,960.00  |
| 2  | THE EDUCATION, AUDIOVISUAL AND CULTURE EXECUTIVE AGENCY                        | BELGIUM                 | STRATEGIC IP MANAGEMENT FOR EFFECTIVE R&I IN ASIAN HIGHER EDUCATION (SPIRE) UNDER ERAMUS+GRANT   | MOA  | EUR831,506.00 |
| 3  | UNIVERSITY OF CYPRUS (1)<br>LANCASTER UNIVERSITY (2)<br>UNIVERSITY OF YORK (3) | CYPRUS & UNITED KINGDOM | ADVANCING THE STATE OF THE ART OF MIMO: THE KEY TO THE SUCCESSFUL EVOLUTION OF WIRELESS NETWORKS   | MOA  | EUR904,500.00 |
| 4  | UNIVERSITE LUMIERE LYON 2  | FRANCE                  | CAPACITY BUILDING PROJECT IN THE FIELD OF HIGHER EDUCATION (E+CBHE): BUILDING SKILLS 4.0 THROUGH UNIVERSITY AND ENTERPRISE COLLABORATION | MOA  | EUR82,029.00  |
| 5  | UNIVERSITAS SRIWIJAYA (UNSRI)  | INDONESIA               | EXCHANGE AND COOPERATION IN EDUCATION, RESEARCH AND SOCIAL SERVICES  | MOA  | RM40,000.00   |

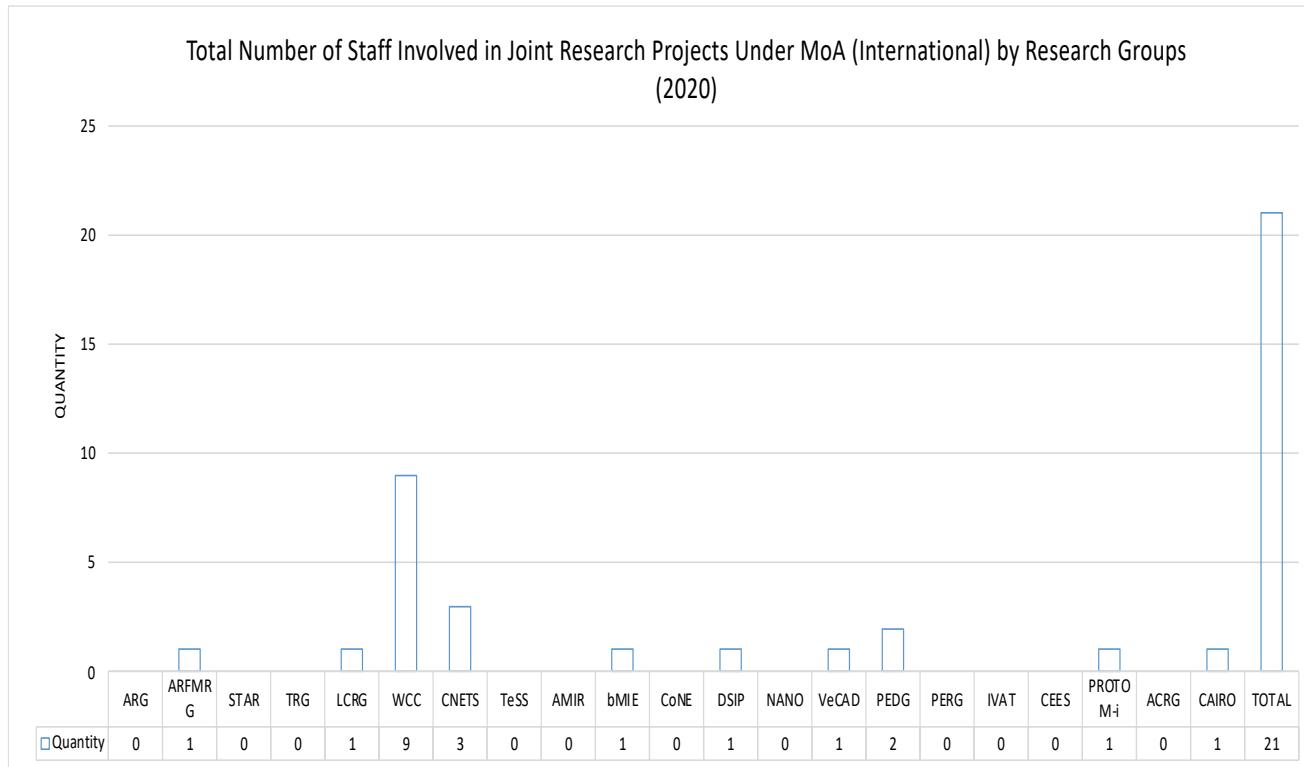
## (i) Total Numbers of MOAs Signed and Stamped (International) by Research Groups



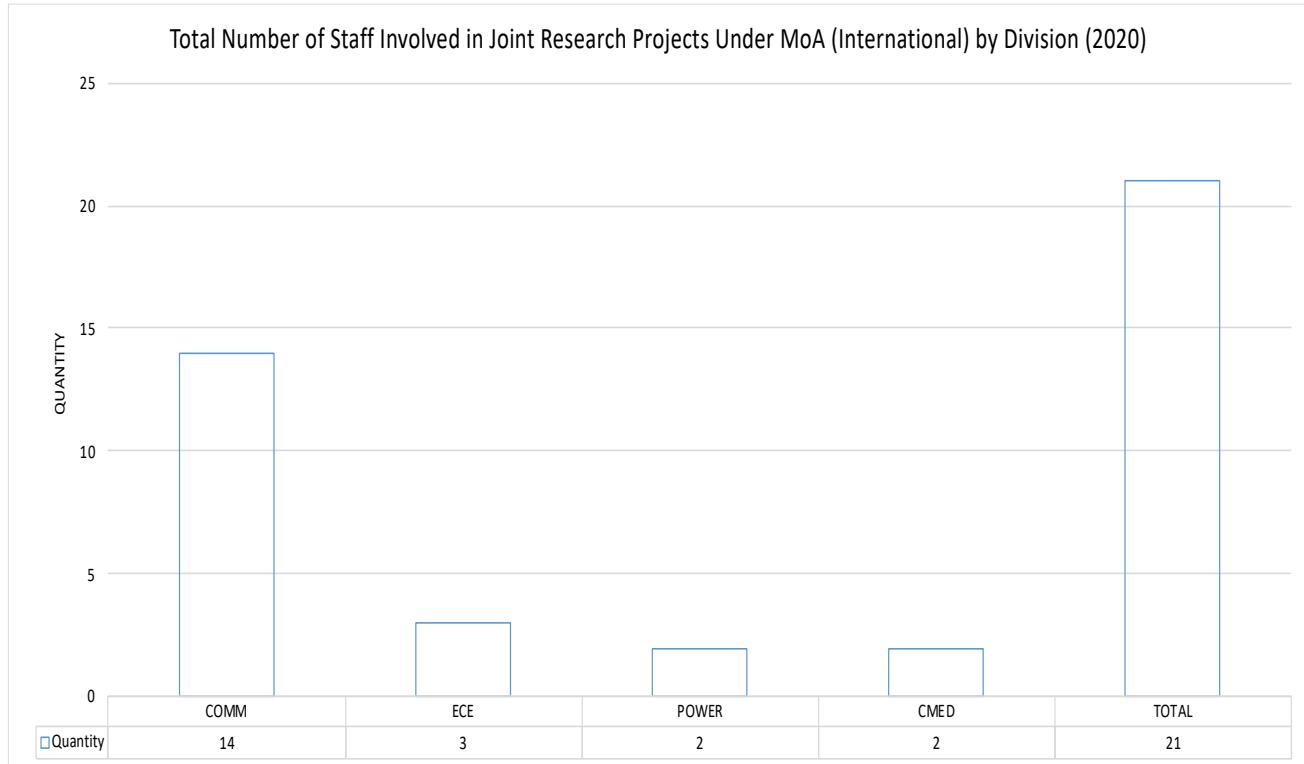
## (a) (ii) Total Numbers of MOAs Signed and Stamped (International) by Divisions



- (b) (i) Total Number of Staff Involved in Joint Research Projects Under MoA (International) by Research Groups



- (b) (ii) Total Number of Staff Involved in Joint Research Projects Under MoA (International) by Divisions

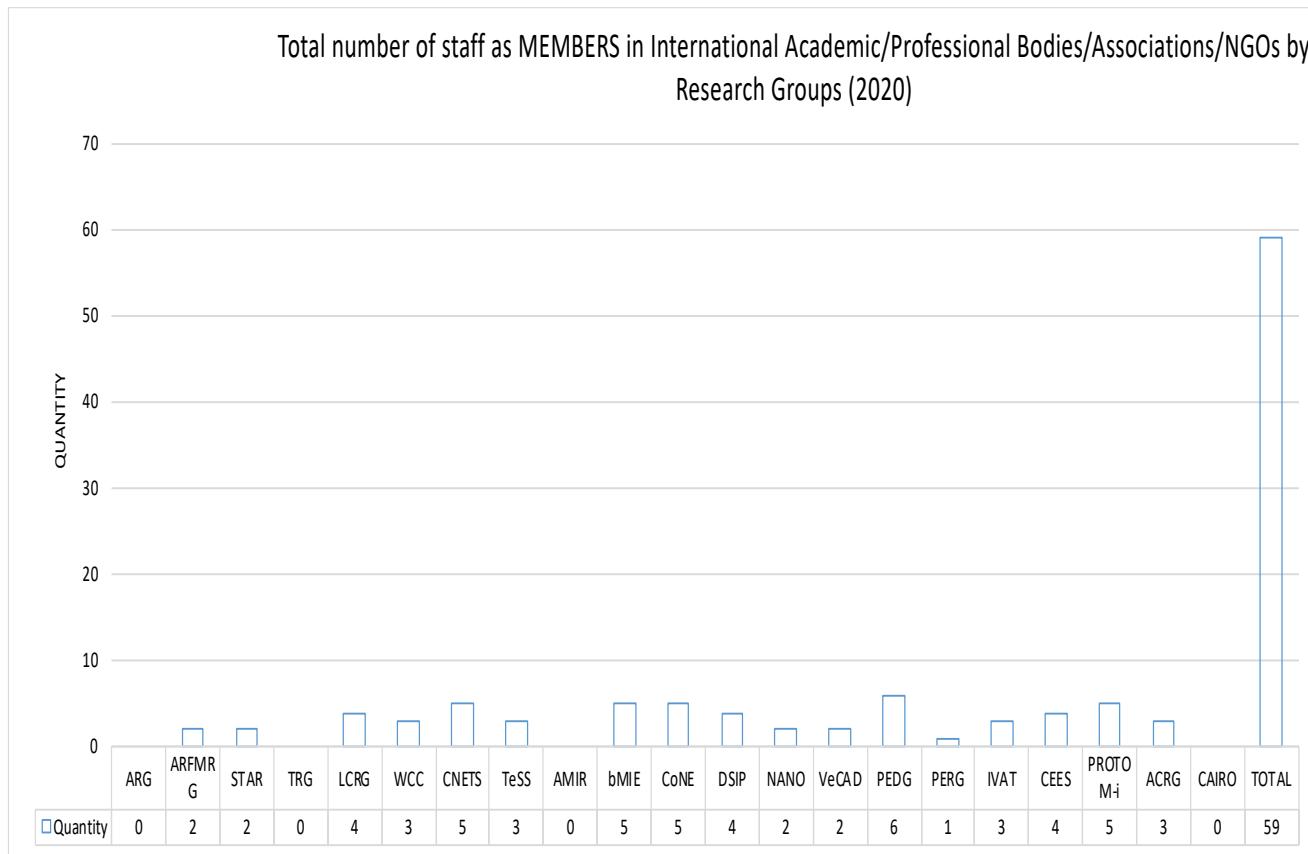


## G2: Number of Staff Sent Abroad for Research Activities

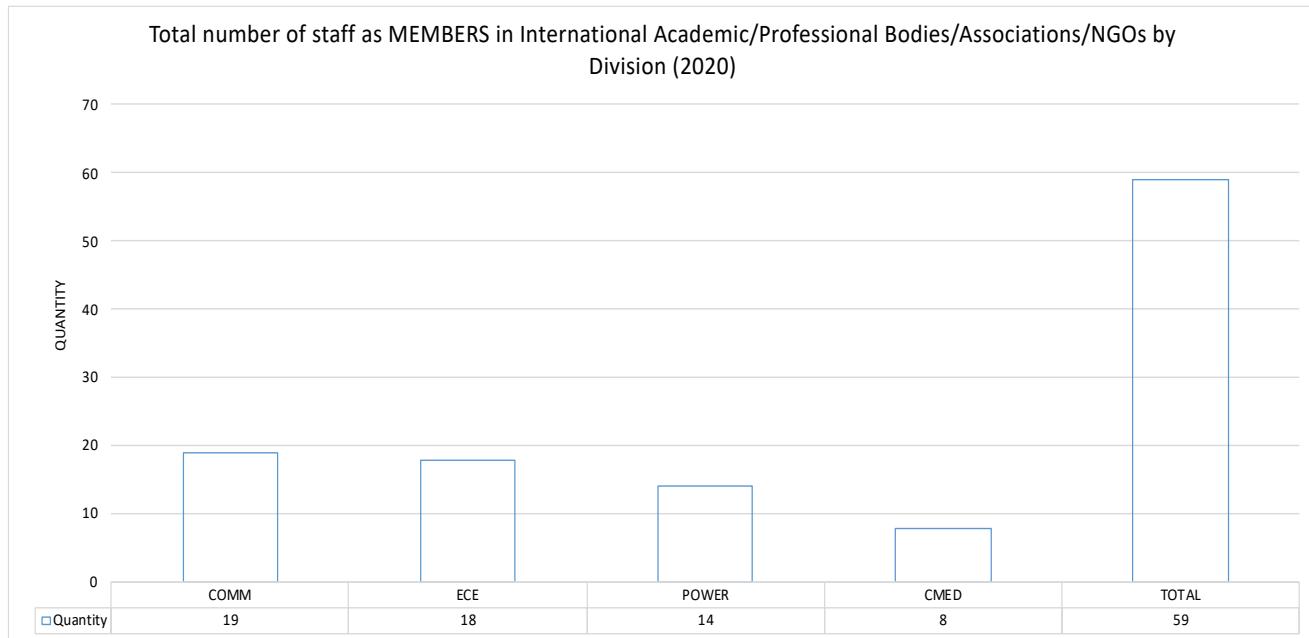
| STAFF NAME            | RG                          | ORGANISATION                                      | COUNTRY | TYPE (ATTACHMENT, RESEARCH, TRAINING, SABBATICAL LEAVE, ETC) |
|-----------------------|-----------------------------|---|---------|--|
| FARID<br>BIN<br>ZUBIR | ADVANCE RF AND<br>MICROWAVE | THE UNIVERSITY OF<br>BRITISH COLUMBIA,<br>KELOWNA | CANADA  | POST DOCTORAL  |

## G3: Number of Staff as Members in International Bodies

- (iii) Total number of staff as MEMBERS in International Academic/Professional Bodies/Associations/NGOs by Research Groups



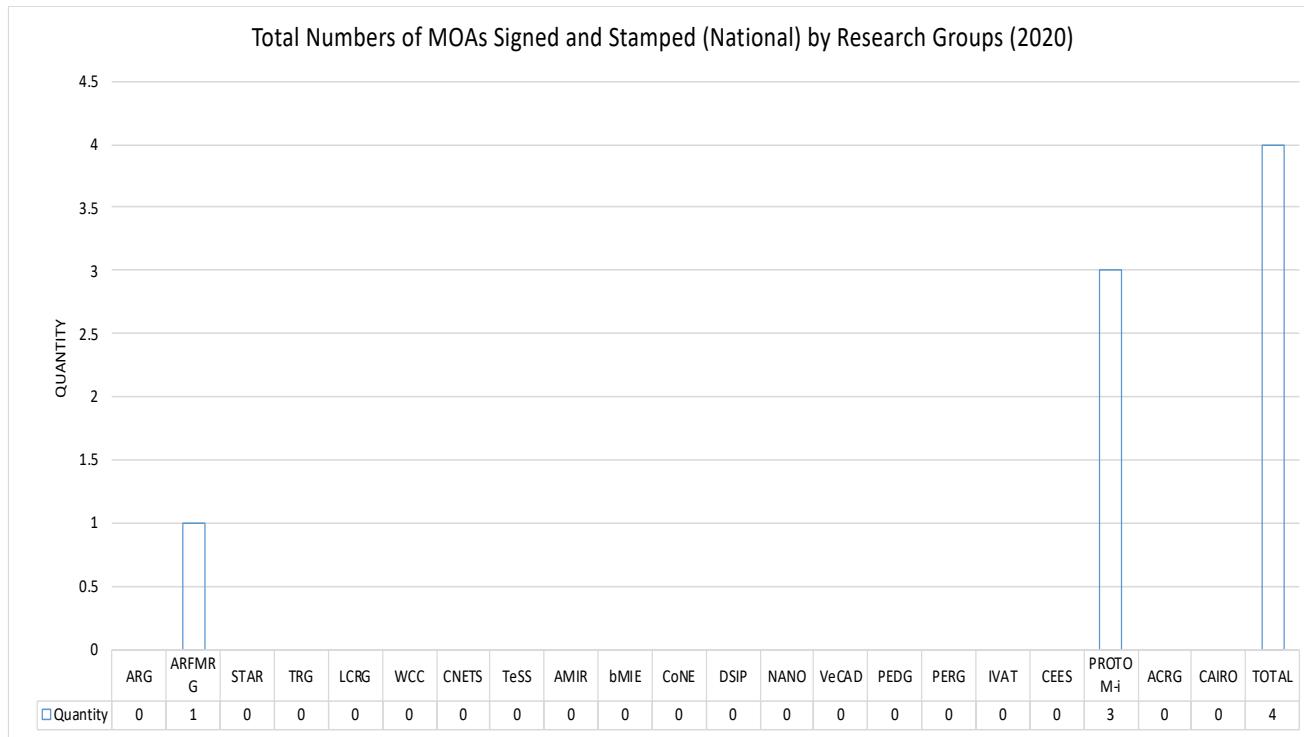
- (iv) Total number of staff as MEMBERS in International Academic/Professional Bodies/Associations/NGOs by Divisions



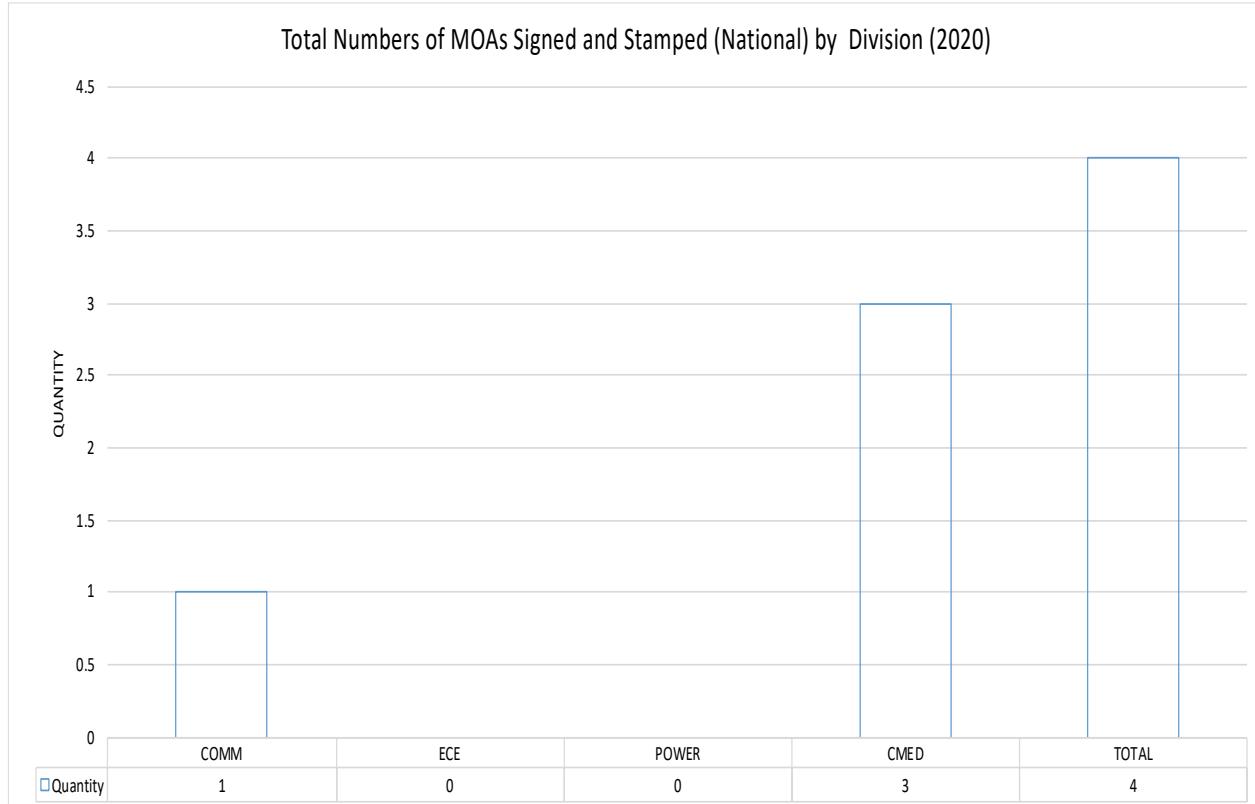
G4: Participation in National Inter-Institution research related activities under MoA

| NO | ORGANISATION/<br>COLLABORATOR  | TYPE | CATEGORY   | AMOUNT       | PROGRAMME TITLE  |
|----|--|------|------------|--------------|--|
| 1  | UNIMAP & UTHM & UMP  | RA   | UNIVERSITY | RM160,000.00 | CRG10 TOMOGRAPHY LAB-ON-CHIP FOR MICROSAMPLE IMAGE RECONSTRUCTION  |
| 2  | UMP & UTHM & UTEM  | RA   | UNIVERSITY | RM20,000.00  | CRG 9.4 – INTEGRATION OF THE METAL-BASED FLEXIBLE THERMOELECTRIC GENERATOR WITH THE CONDITIONING CIRCUIT AND CHARACTERIZATION OF OVERALL SYSTEM BASED ON OBJECTIVE 4 |
| 3  | UNIVERSITI MALAYSIA PERLIS<br>UNIVERSITI TUN HUSSEIN ONN<br>MALAYSIA<br>UNIVERSITI TEKNIKAL MALAYSIA<br>MELAKA | MOA  | UNIVERSITY | RM160,000.00 | CRG 5 - CHARACTERIZATION OF BEAMFORMING NETWORK AND ANTENNA AT 28 GHZ USING WAVEGUIDE TECHNOLOGY   |
| 4  | UNIVERSITI MALAYSIA PAHANG<br>UNIVERSITI TEKNIKAL MALAYSIA<br>MELAKA<br>UNIVERSITI TUN HUSSEIN ONN<br>MALAYSIA | MOA  | UNIVERSITY | RM160,000.00 | CRG 9: METAL BASED FLEXIBLE THERMOELECTRIC MICROGENERATOR  |

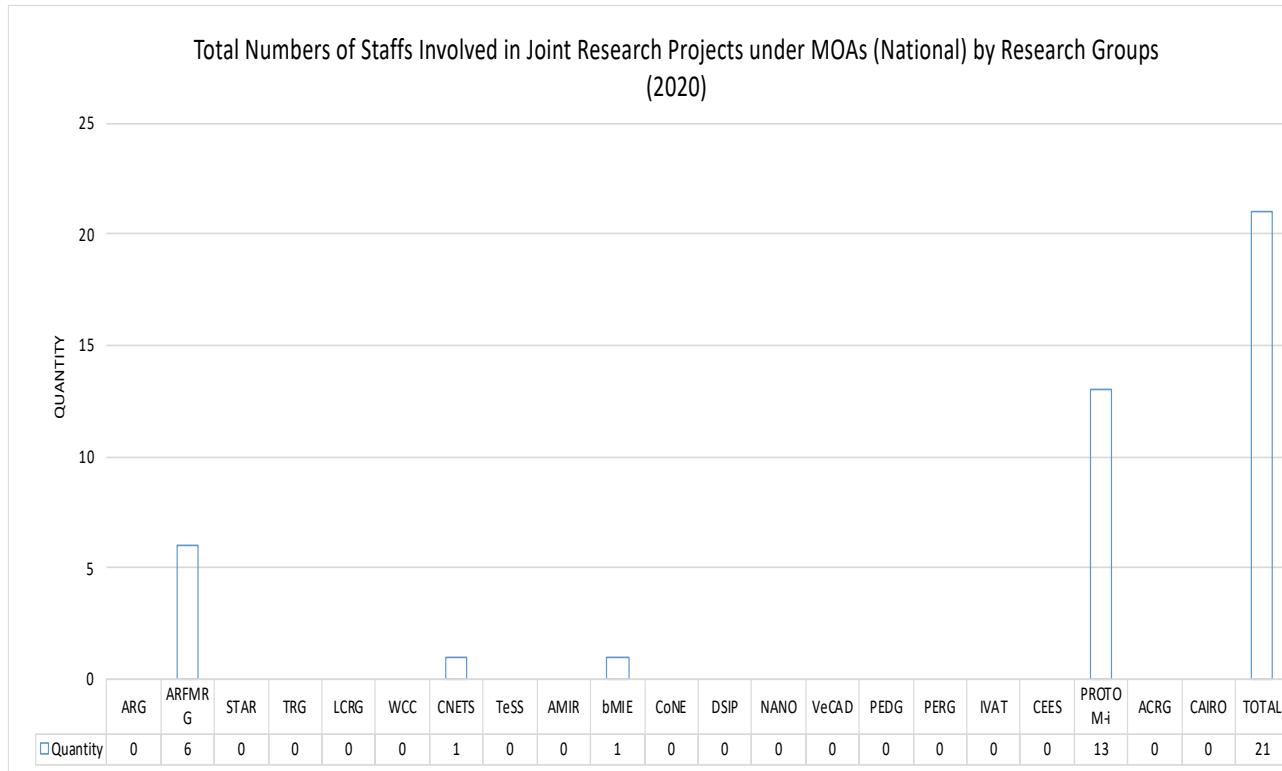
## (a) (i) Total Numbers of MOAs Signed and Stamped (National) by Research Groups



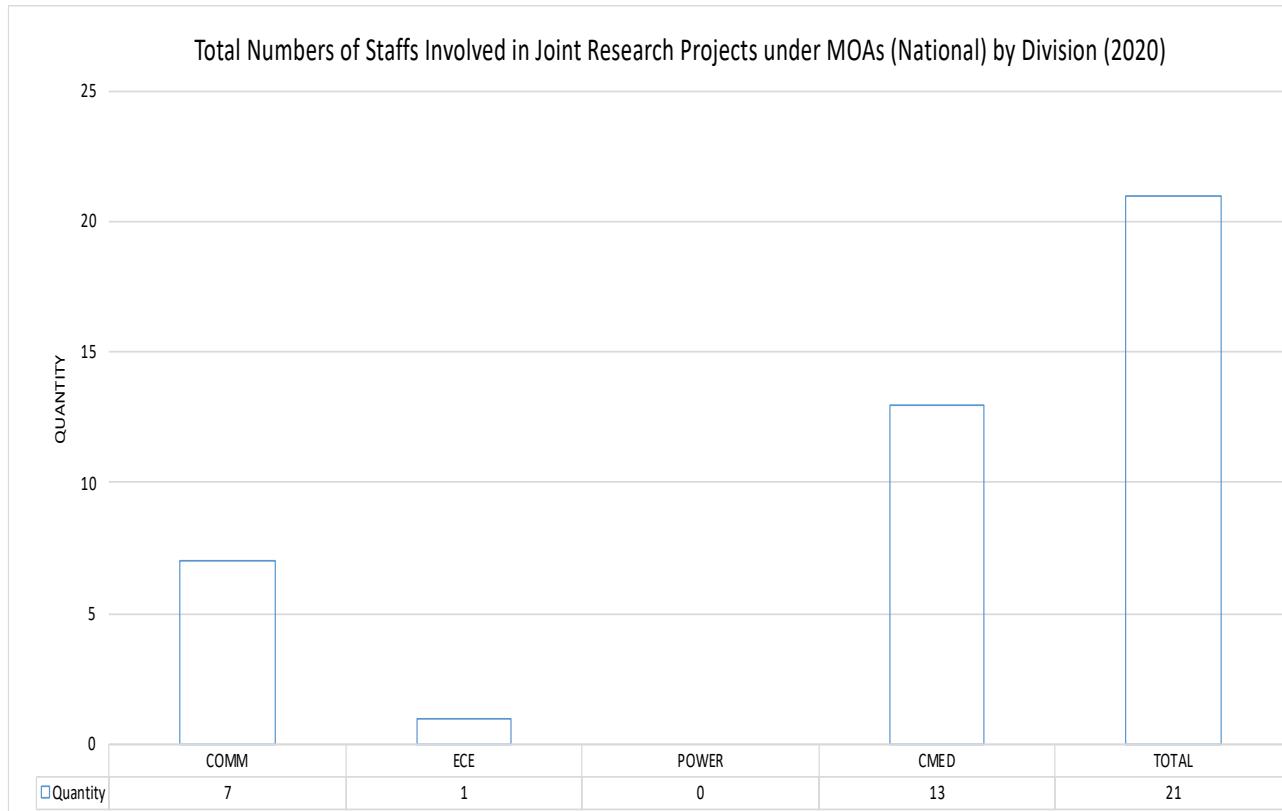
## (a) (ii) Total Numbers of MOAs Signed and Stamped (National) by Division



## (b) (i) Total Number of Staff Involved in Joint Research Projects Under MoA by Research Group

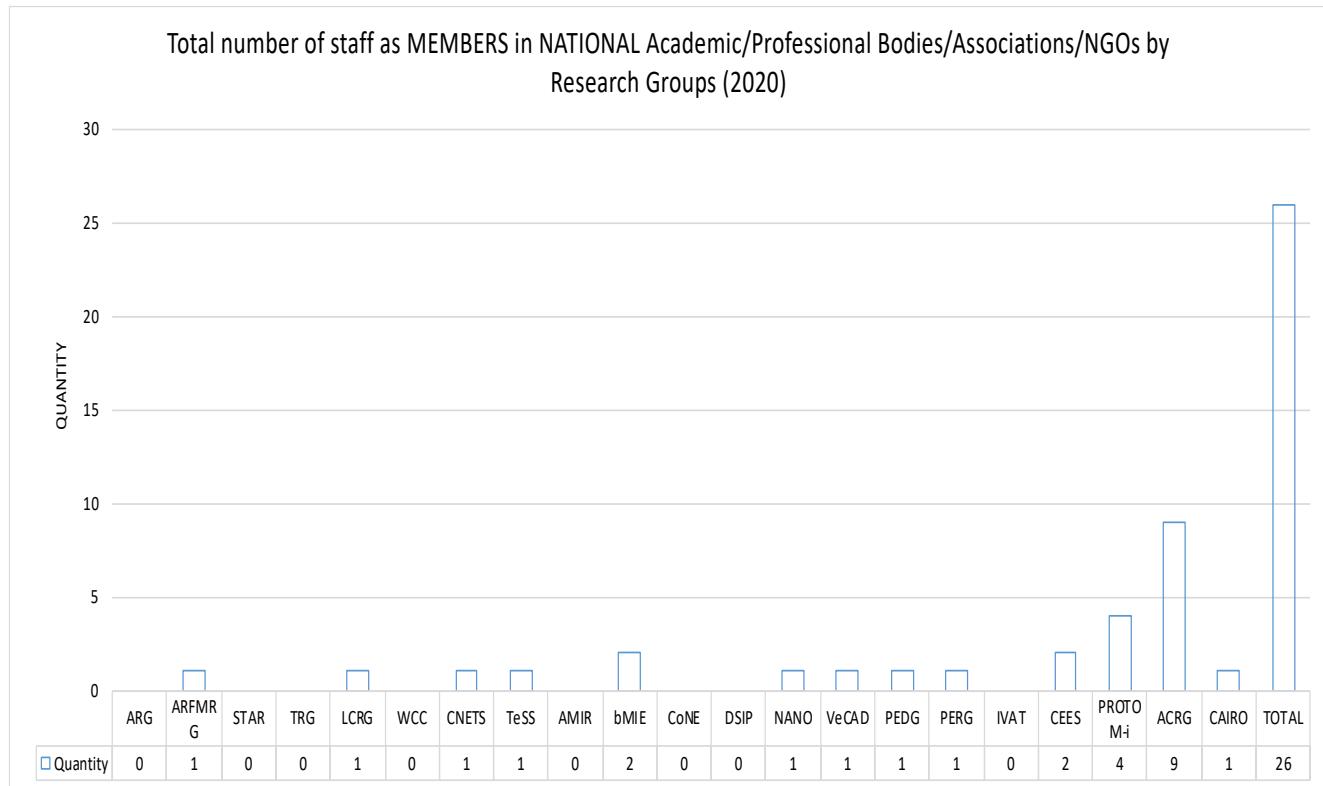


## (b) (ii) Total Number of Staff Involved in Joint Research Projects Under MoA by Divisions

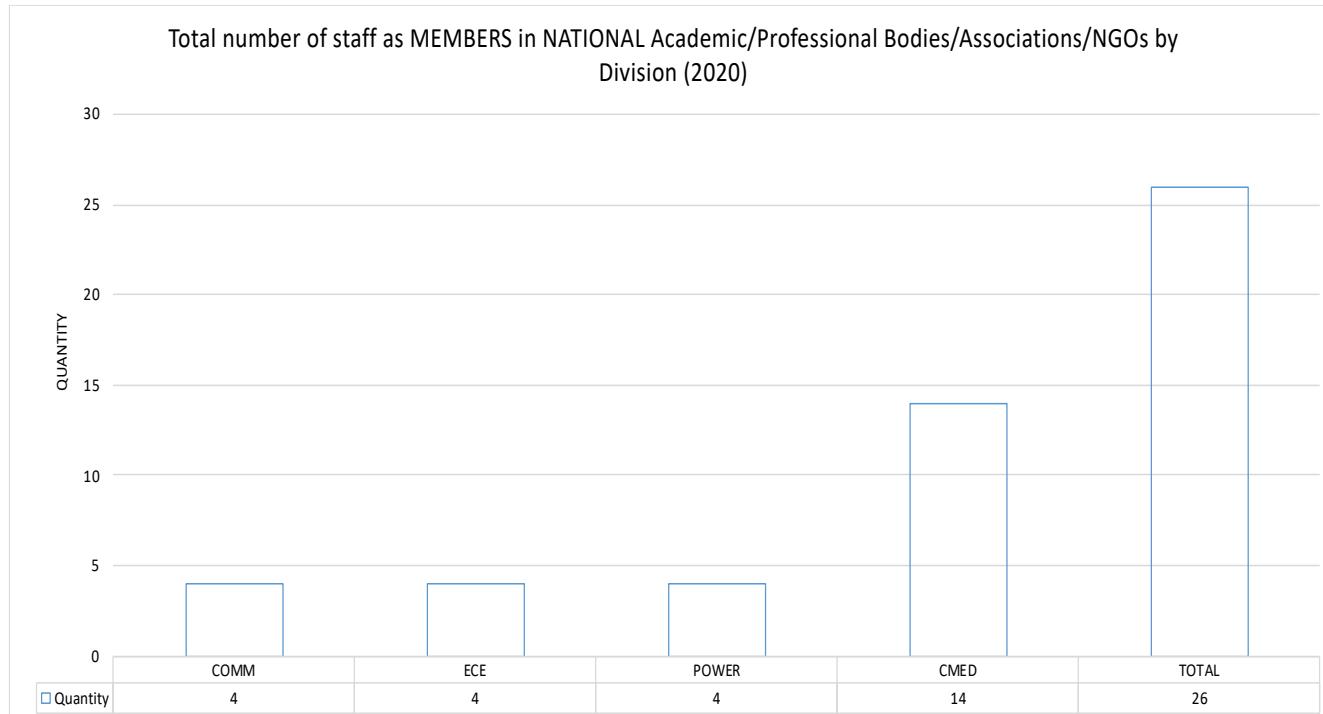


G5: Total number of staff as MEMBERS in NATIONAL bodies

- (i) Total number of staff as MEMBERS in NATIONAL Academic/Professional Bodies/Associations/NGOs by Research Groups.

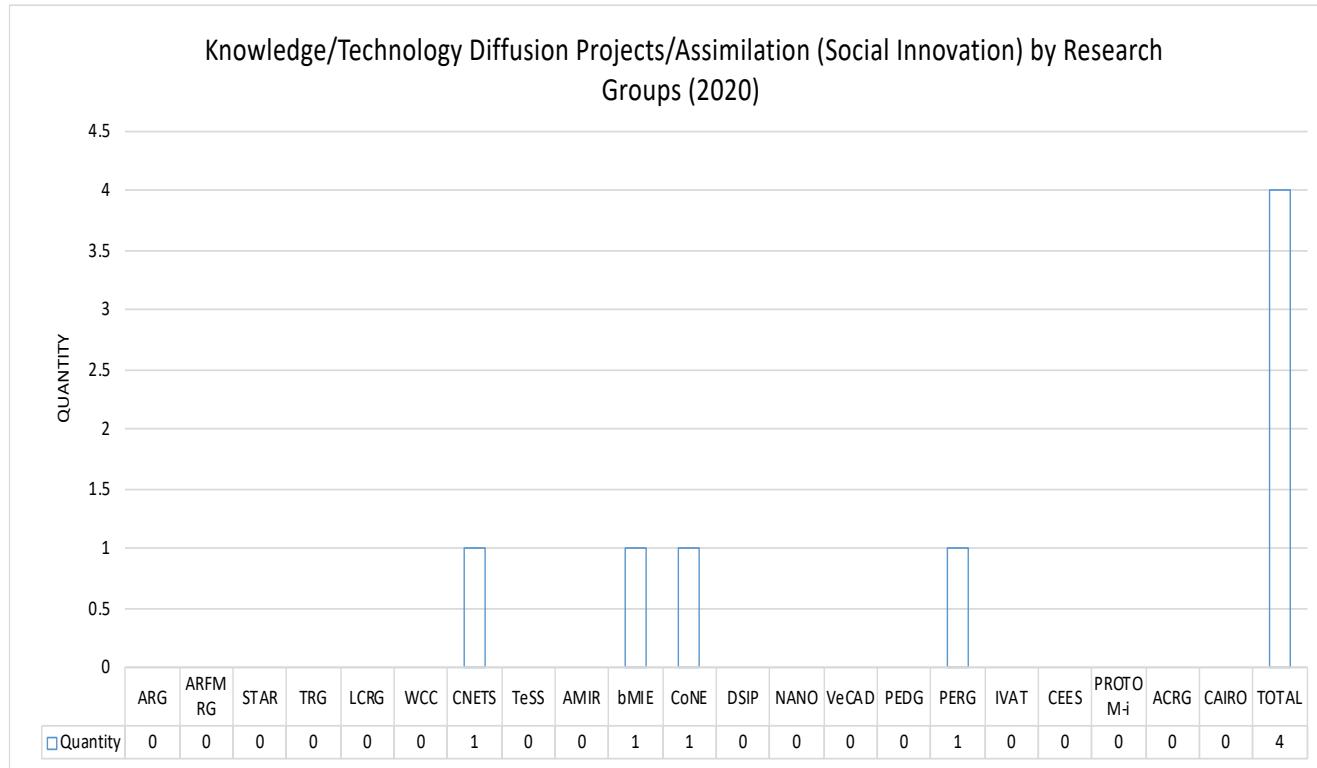


- (ii) Total number of staff as MEMBERS in NATIONAL Academic/Professional Bodies/Associations/NGOs by Divisions.

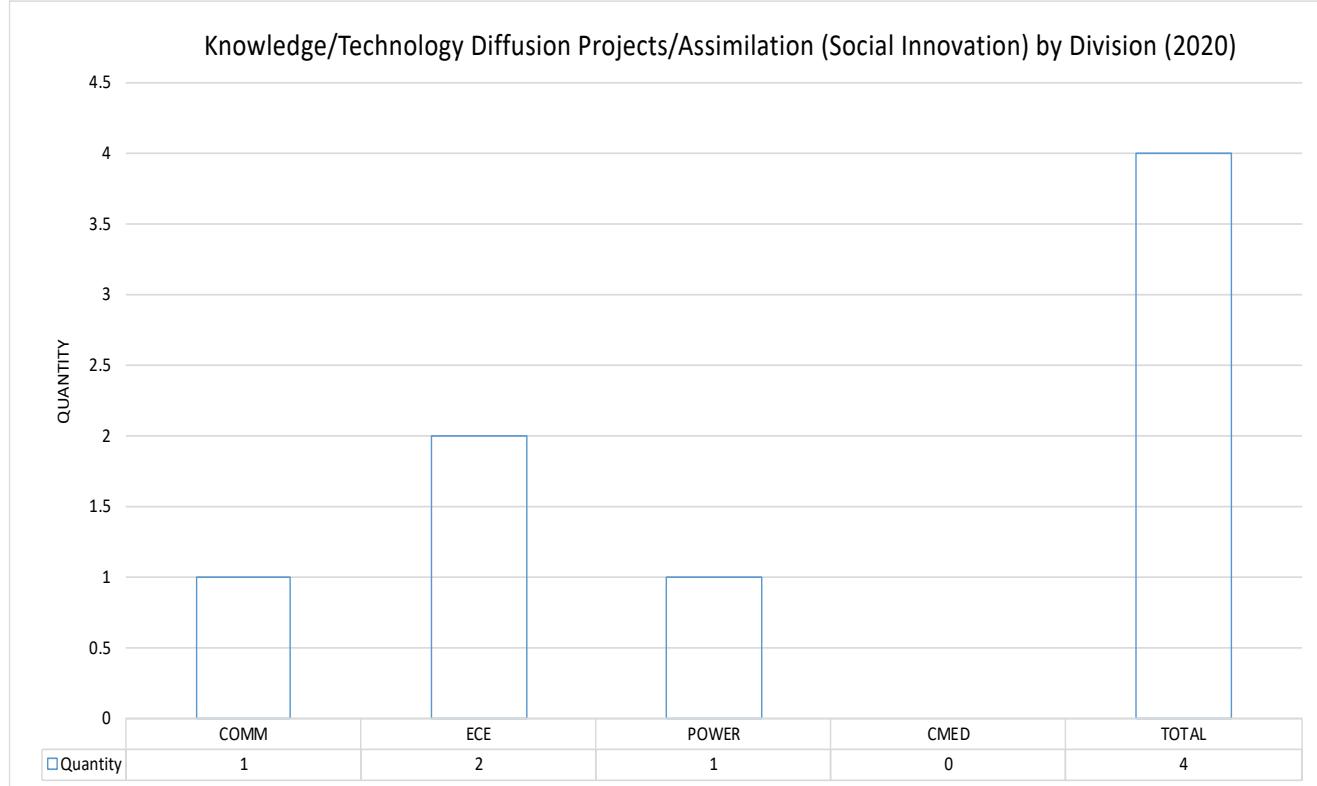


G6: Total Number of Community-Related Projects

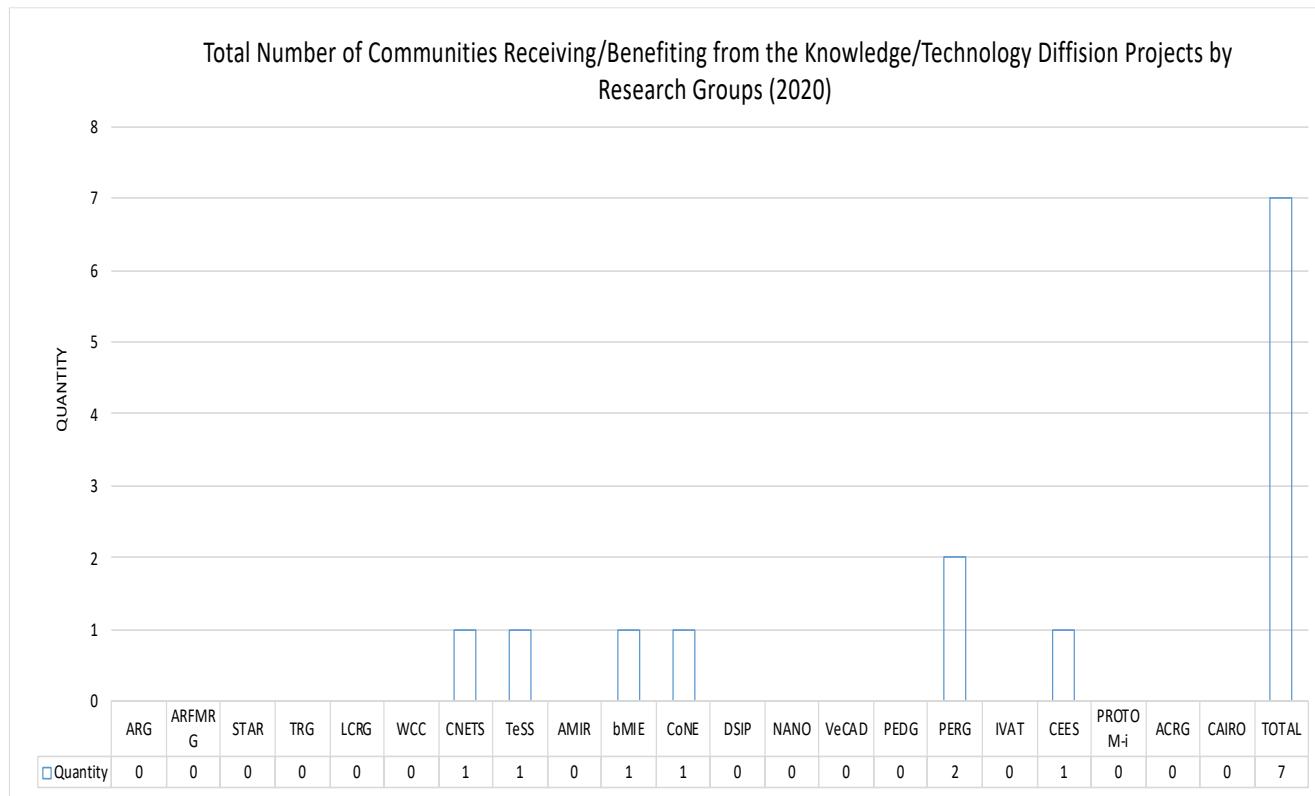
(c) (i) Total Number of New Community-Related Projects by Research Groups



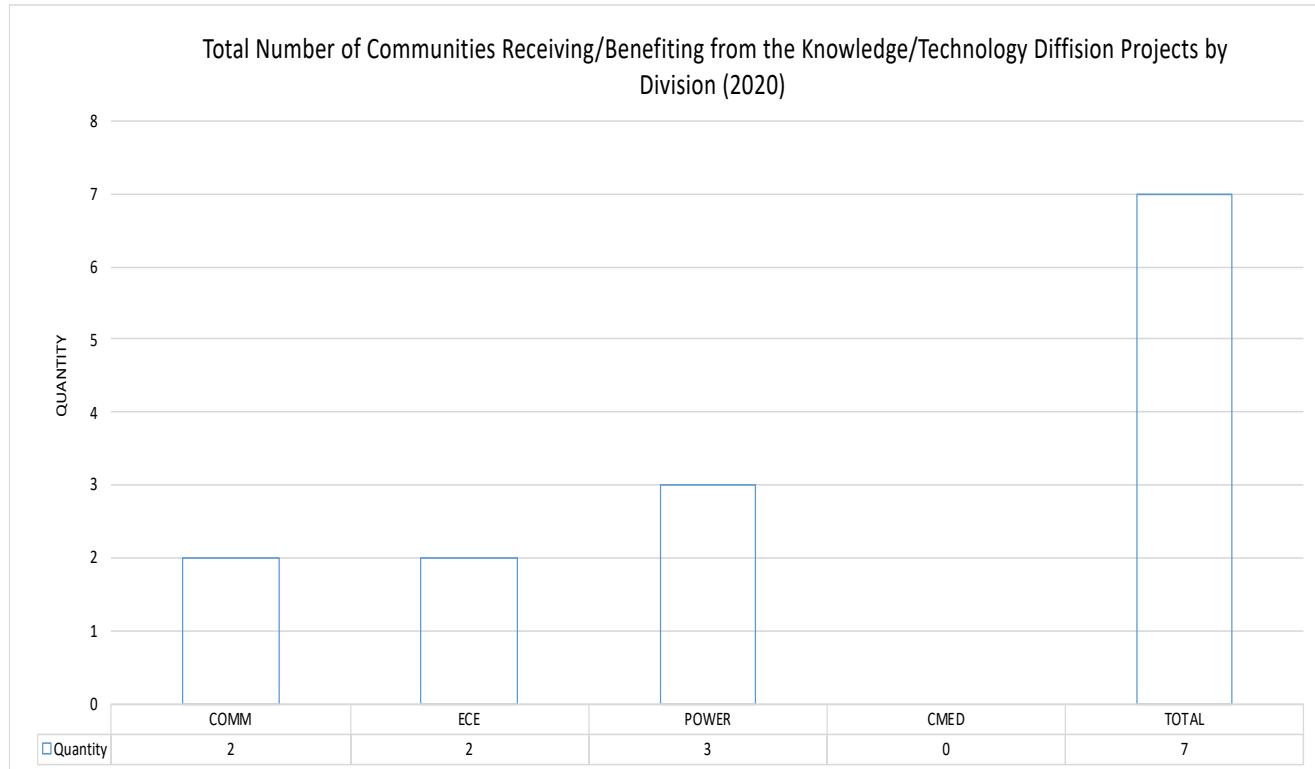
(c) (ii) Total Number of New Community-Related Projects by Divisions



- b (i) Total Number of Communities Receiving/Benefiting from the Knowledge/Technology Diffusion Projects by Research Groups

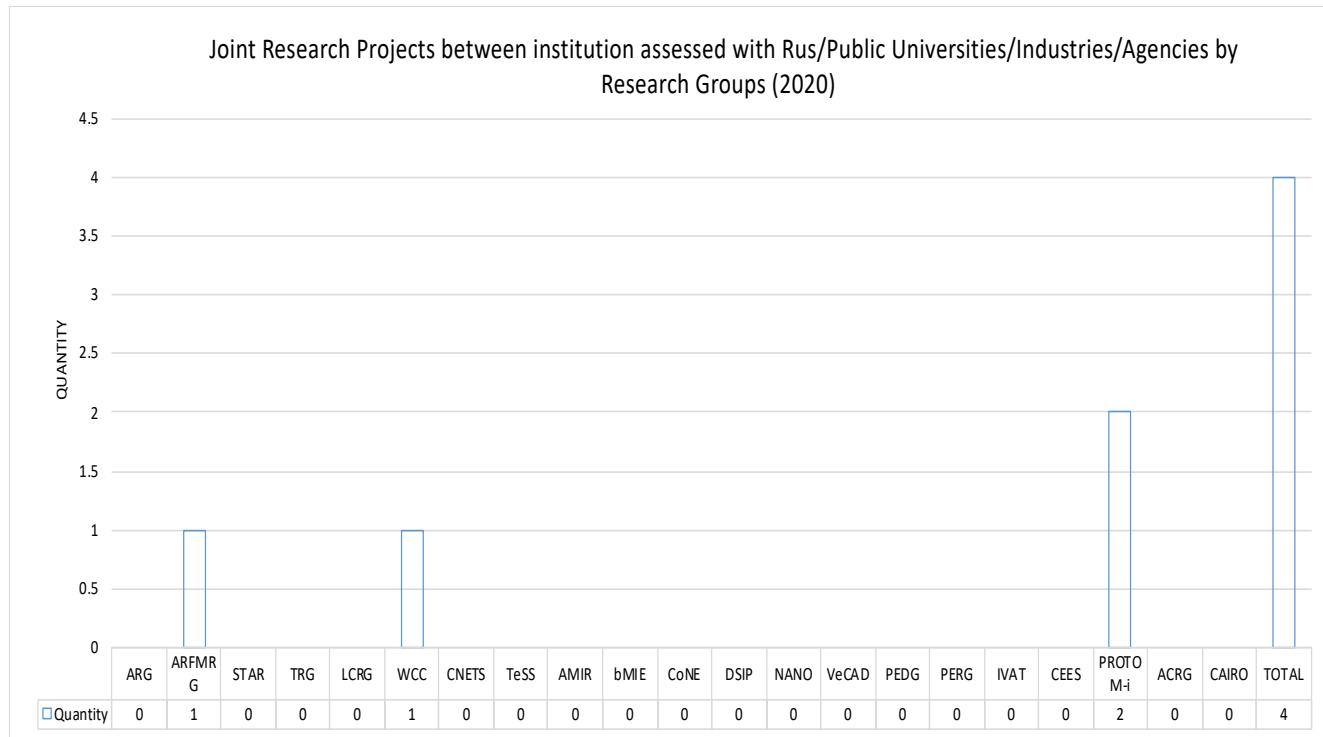


- b (ii) Total Number of Communities Receiving/Benefiting from the Knowledge/Technology Diffusion Projects by Divisions

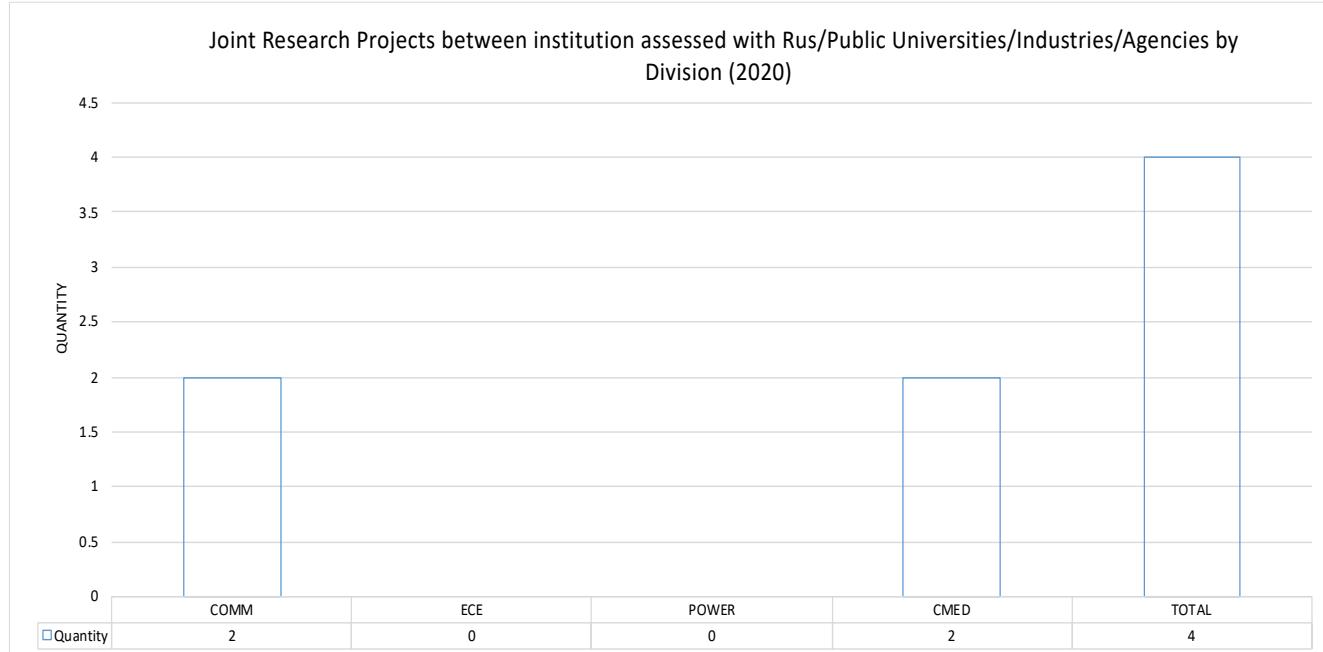


G7: Joint research projects between institution assessed with Rus/Public Universities/Private

- (iii) Joint research projects between institution assessed with Rus/Public Universities/Private Universities/Industries/Agencies by Research Groups



- (iv) Joint research projects between institution assessed with Rus/Public Universities/Private Universities/Industries/Agencies by Divisions



G8: Joint research projects between Research Universities (RUs) in each project

Nil

# Appendices

2018

## Appendix Section B - 2018

Table 1.1: Masterlist of Section B1

| NO | VOT   | PROJECT LEADER                        | DEPARTM ENT | RG       | COE   | GRANT NAME                          |
|----|-------|---------------------------------------|-------------|----------|-------|-------------------------------------|
| 1  | 15J42 | MADIHAH BINTI MD RASID                | POWER       | PERG     | RG    | TIER 2                              |
| 2  | 19H61 | USMAN ULLAH SHEIKH                    | ECE         | DSIP     | RG    | TIER 1                              |
| 3  | 03K21 | ARNIDZA BINTI RAMLI                   | COMM        | LCRG     | RG    | POTENTIAL ACADEMIC STAFF            |
| 4  | 02K80 | AMIRJAN BIN NAWABJAN                  | ECE         | MNSE     | RG    | POTENTIAL ACADEMIC STAFF            |
| 5  | 02K85 | MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | COMM        | LCRG     | RG    | POTENTIAL ACADEMIC STAFF            |
| 6  | 14J56 | SITI MAHERAH BINTI HUSSIN             | POWER       | COE      | CEES  | TIER 2                              |
| 7  | 13J83 | SHAHARIN FADZLI BIN ABD RAHMAN        | ECE         | MNSE     | RG    | TIER 2                              |
| 8  | 02K79 | MOHD RASHIDI BIN SALIM                | COMM        | LCRG     | RG    | POTENTIAL ACADEMIC STAFF            |
| 9  | 18H04 | ZULKARNAIN BIN AHMAD NOORDEN          | POWER       | COE      | IVAT  | TIER 1                              |
| 10 | 15H89 | JASRUL JAMANI BIN JAMIAN              | POWER       | PERG     | RG    | TIER 1                              |
| 11 | 14J08 | ZAHARAH BINTI JOHARI                  | ECE         | CONE     | RG    | TIER 2                              |
| 12 | 4J339 | MUHAMMAD ARIFF BIN BAHARUDIN          | COMM        | ATTRG    | RG    | UTM TRANSLATIONAL RESEARCH GRANT    |
| 13 | 14J10 | NURUL EZAILA BINTI ALIAS              | ECE         | CONE     | RG    | TIER 2                              |
| 14 | 05G78 | NURZAL EFFEYANA BINTI GHAZALI         | COMM        | ATTRG    | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT |
| 15 | 14J19 | MOHAMAD AMIR BIN SHAMSUDIN            | CMED        | PROTOM-i | RG    | TIER 2                              |
| 16 | 15J36 | MUHAMMAD YUSOF BIN MOHD NOOR          | COMM        | LCRG     | RG    | TIER 2                              |
| 17 | 15J49 | NORJULIA BINTI MOHAMAD NORDIN         | POWER       | PEDG     | RG    | TIER 2                              |
| 18 | 12H72 | ZAID BIN OMAR                         | ECE         | DSIP     | RG    | TIER 1                              |
| 19 | 20H22 | MOHD AMRI BIN MD. YUNUS               | CMED        | PROTOM-i | RG    | TIER 1                              |
| 20 | 06G78 | YUSMEERAZ BINTI YUSOF                 | ECE         | CONE     | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT |
| 21 | 17H40 | HERMAN BIN WAHID                      | CMED        | PROTOM-i | RG    | TIER 1                              |
| 22 | 4J208 | MOHD AFZAN BIN OTHMAN                 | ECE         | BMIE     | RG    | UTM R&D FUND                        |
| 23 | 15H39 | MOHD ARIFFANAN BIN MOHD BASRI         | CMED        | ACRG     | RG    | TIER 1                              |
| 24 | 16H13 | AHMAD 'ATHIF BIN MOHD FAUDZI          | CMED        | COE      | CAIRO | TIER 1                              |
| 25 | 11H60 | NIK NOORDINI BT NIK ABD MALIK         | COMM        | ATTRG    | RG    | TIER 1                              |
| 26 | 14J58 | SHAFISHUHAZA SAHLAN                   | CMED        | PROTOM-i | RG    | TIER 2                              |
| 27 | 13H20 | LIM CHENG SIONG                       | CMED        | ACRG     | RG    | TIER 1                              |

| NO | VOT   | PROJECT LEADER                       | DEPARTM ENT | RG       | COE   | GRANT NAME                                |
|----|-------|--------------------------------------|-------------|----------|-------|---|
| 28 | 13H86 | MOHAMAD HAFIS IZRAN BIN ISHAK        | CMED        | PROTOM-i | RG    | TIER 1                                    |
| 29 | 15J34 | ISMAHANI BINTI ISMAIL                | ECE         | BMIE     | RG    | TIER 2                                    |
| 30 | 13J87 | NORLINA BINTI PARAMAN                | ECE         | VeCAD    | RG    | TIER 2                                    |
| 31 | 19H22 | MOHD RIDZUAN BIN AHMAD               | CMED        | MNSE     | RG    | TIER 1                                    |
| 32 | 14J22 | MOHD FAIRUS BIN MOHD YUSOFF          | COMM        | ARFMRG   | RG    | TIER 2                                    |
| 33 | 04G45 | MD PAUZI BIN ABDULLAH                | POWER       | COE      | CEES  | FLAGSHIP                                  |
| 34 | 14J62 | ABDUL RASHID BIN HUSAIN              | CMED        | ACRG     | RG    | TIER 2                                    |
| 35 | 17H45 | SALINDA BINTI BUYAMIN                | CMED        | ACRG     | RG    | TIER 1                                    |
| 36 | 15J40 | SHahrin bin MD AYOB                  | POWER       | PEDG     | RG    | TIER 2                                    |
| 37 | 03G88 | DALILA BINTI MAT SAID                | POWER       | COE      | CEES  | FLAGSHIP                                  |
| 38 | 04G71 | MUSA BIN MOHD MOKJI                  | ECE         | DSIP     | RG    | FLAGSHIP                                  |
| 39 | 14J34 | MOHD JUNAIDI BIN ABDUL AZIZ          | POWER       | PEDG     | RG    | TIER 2                                    |
| 40 | 06G96 | KAMALUDIN BIN MOHAMAD YUSOF          | COMM        | ATTRG    | RG    | UTM<br>TRANSDICIPLINARY<br>RESEARCH GRANT |
| 41 | 07G43 | ZURAIMY BIN ADZIS                    | POWER       | COE      | IVAT  | UTM<br>TRANSDICIPLINARY<br>RESEARCH GRANT |
| 42 | 13H70 | NORHALIZA BINTI HAJI ABD WAHAB       | CMED        | ACRG     | RG    | TIER 1                                    |
| 43 | 06G94 | MOHAMAD RIJAL BIN HAMID              | COMM        | ARFMRG   | RG    | UTM<br>TRANSDICIPLINARY<br>RESEARCH GRANT |
| 44 | 13H78 | HAZLINA BINTI SELAMAT                | CMED        | COE      | CAIRO | TIER 1                                    |
| 45 | 20H11 | HERLINA BINTI ABDUL RAHIM            | CMED        | PROTOM-i | RG    | TIER 1                                    |
| 46 | 06G93 | NORLAILI BINTI MAT SAFRI             | ECE         | BMIE     | RG    | UTM<br>TRANSDICIPLINARY<br>RESEARCH GRANT |
| 47 | 15H29 | ANITA BINTI AHMAD                    | CMED        | PROTOM-i | RG    | TIER 1                                    |
| 48 | 15J05 | AHMAD RIDHWAN BIN WAHAP              | CMED        | PROTOM-i | RG    | TIER 2                                    |
| 49 | 19H45 | SAIFULNIZAM BIN ABD. KHALID          | POWER       | PERG     | RG    | TIER 1                                    |
| 50 | 13H24 | SHARIFAH HAFIZAH BINTI SYED ARIFFIN  | COMM        | ATTRG    | RG    | TIER 1                                    |
| 51 | 13H25 | RUBITA BINTI SUDIRMAN                | ECE         | BMIE     | RG    | TIER 1                                    |
| 52 | 14J98 | MUHAMMAD NASIR BIN IBRAHIM           | ECE         | AMIR     | RG    | TIER 2                                    |
| 53 | 13H57 | FATIMAH SHAM BT. ISMAIL              | CMED        | COE      | CAIRO | TIER 1                                    |
| 54 | 15H85 | SALLEHUDDIN BIN IBRAHIM              | CMED        | PROTOM-i | RG    | TIER 1                                    |
| 55 | 19H86 | SYED ABDUL RAHMAN BIN SYED ABU BAKAR | ECE         | DSIP     | RG    | TIER 1                                    |
| 56 | 04G67 | MOHAMAD KAMAL B. A. RAHIM            | COMM        | ARFMRG   | RG    | COLLABORATIVE<br>RESEARCH GRANT           |
| 57 | 14J47 | MOKHTAR HARUN                        | COMM        | ARG      | RG    | TIER 2                                    |

| NO | VOT               | PROJECT LEADER                       | DEPARTM ENT | RG       | COE  | GRANT NAME                                  |
|----|-------------------|--------------------------------------|-------------|----------|------|---|
| 58 | 03G93             | MOHAMMAD YUSRI BIN HASSAN            | POWER       | COE      | CEES | COE RESEARCH GRANT                          |
| 59 | 14J92             | KAMAL BIN KHALIL                     | COMM        | STAR     | RG   | TIER 2                                      |
| 60 | 14J17             | SHARIFAH KAMILAH BT SYED YUSOF       | COMM        | ATTRG    | RG   | TIER 2                                      |
| 61 | 05G79             | NORAZAN BIN MOHD KASSIM              | COMM        | LCRG     | RG   | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 62 | 14J46             | YAHAYA BIN MD SAM                    | CMED        | ACRG     | RG   | TIER 2                                      |
| 63 | 17H57             | ABU SAHMAH BIN MOHD SUPA'AT          | COMM        | LCRG     | RG   | TIER 1                                      |
| 64 | 15J35             | MUHAMMAD MUN'IM BIN AHMAD ZABIDI     | ECE         | DSIP     | RG   | TIER 2                                      |
| 65 | 19H40             | HASIMAH BTE ABDUL RAHMAN             | POWER       | COE      | CEES | TIER 1                                      |
| 66 | 04G68             | FARID BIN ZUBIR                      | COMM        | ARFMRG   | RG   | COLLABORATIVE RESEARCH GRANT                |
| 67 | 4F926             | MASTURA SHAFINAZ BINTI ZAINAL ABIDIN | ECE         | MNSE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 68 | 4F707             | LAU KWAN YIEW                        | POWER       | COE      | IVAT | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 69 | 04G69             | OSMAN BIN AYOP                       | COMM        | ARFMRG   | RG   | COLLABORATIVE RESEARCH GRANT                |
| 70 | 4F968             | NURUL ADILLA BT. MOHD SUBHA          | CMED        | ACRG     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 71 | PY/2018/03<br>796 | SUHANA BINTI MOHAMED SULTAN          | ECE         | CONE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 72 | 4L423             | YOU KOK YEOW                         | COMM        | ARG      | RG   | DEMAND-DRIVEN INNOVATION                    |
| 73 | 4L690             | MOHAMED SULTAN BIN MOHAMED ALI       | CMED        | PROTOM-i | RG   | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME |
| 74 | 4J217             | OMAR BIN ABDUL AZIZ                  | COMM        | COE      | WCC  | HICOE RESEARCH GRANT                        |
| 75 | 4F820             | AHMAD SHARMI BIN ABDULLAH            | COMM        | LCRG     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 76 | 4F947             | KHAIRUL HAMIMAH BINTI ABAS           | CMED        | PROTOM-i | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 77 | 4J216             | CHUA TIEN HAN                        | COMM        | COE      | WCC  | HICOE RESEARCH GRANT                        |

| NO | VOT               | PROJECT LEADER                   | DEPARTM ENT | RG       | COE  | GRANT NAME                                  |
|----|-------------------|----------------------------------|-------------|----------|------|---|
| 78 | 4S126             | AB AL-HADI BIN AB RAHMAN         | ECE         | DSIP     | RG   | SCIENCEFUND                                 |
| 79 | PY/2018/03<br>681 | MICHAEL TAN LOONG PENG           | ECE         | CONE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 80 | 4F966             | MONA RIZA BINTI MOHD ESA         | POWER       | COE      | IVAT | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 81 | 4L684             | NORHUDAH BINTI SEMAN             | COMM        | COE      | WCC  | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME |
| 82 | 4F761             | MOHD AZHAR BIN ABDUL RAZAK       | ECE         | BMIE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 83 | 05G00             | RASHIDAH@SITI SAEDAH BINTI ARSAT | COMM        | ARG      | RG   | COLLABORATIVE RESEARCH GRANT                |
| 84 | 4F883             | NOOR ASMAWATI BINTI SAMSURI      | COMM        | ARFMRG   | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 85 | 4J218             | MARWAN HADRI BIN AZMI            | COMM        | COE      | WCC  | HICOE RESEARCH GRANT                        |
| 86 | 04G72             | NOOR ASNIZA BINTI MURAD          | COMM        | ARFMRG   | RG   | COLLABORATIVE RESEARCH GRANT                |
| 87 | 4F794             | NORZANAH BINTI ROSMIN            | POWER       | COE      | CEES | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 88 | 4F959             | SUHAILA BINTI ISAAK              | ECE         | CONE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 89 | 4F759             | MOHAMAD SHUKRI BIN ZAINAL ABIDIN | CMED        | ACRG     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 90 | PY/2019/00<br>005 | ZAHARUDDIN B MOHAMED             | CMED        | ACRG     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 91 | PY/2018/03<br>850 | YUSRI B MD. YUNOS                | CMED        | PROTOM-i | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 92 | 4F817             | MOHD FU'A'D BIN RAHMAT           | CMED        | PROTOM-i | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 93 | 4F870             | PUSPA INAYAT BT. KHALID          | ECE         | BMIE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |

| NO  | VOT               | PROJECT LEADER                           | DEPARTM ENT | RG       | COE   | GRANT NAME                        |
|-----|-------------------|--|-------------|----------|-------|-----------------------------------|
| 94  | 4J215             | RAZALI BIN NGAH                          | COMM        | COE      | WCC   | HICOE RESEARCH GRANT              |
| 95  | PY/2018/03<br>774 | MOHD WAZIR BIN MUSTAFA                   | POWER       | PERG     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME |
| 96  | 4F821             | NOR HISHAM BIN KHAMIS                    | COMM        | STAR     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME |
| 97  | 4H030             | AHMAD ZURI B SHA'AMERI                   | ECE         | DSIP     | RG    | TECHNOFUND                        |
| 98  | 4F911             | AZHAR BIN KHAIRUDDIN                     | POWER       | PERG     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME |
| 99  | 4F751             | MOHAMED AFENDI BIN MOHAMED PIAH          | POWER       | COE      | IVAT  | FUNDAMENTAL RESEARCH GRANT SCHEME |
| 100 | 4F919             | ZAINAL BIN SALAM                         | POWER       | COE      | CEES  | FUNDAMENTAL RESEARCH GRANT SCHEME |
| 101 | 4J209             | THAREK BIN ABD RAHMAN                    | COMM        | COE      | WCC   | HICOE RESEARCH GRANT              |
| 102 | 4C158             | MOHD. ADIB BIN SARIJARI                  | COMM        | ATTRG    | RG    | CONTRACT RESEARCH DTD             |
| 103 | 4B244             | EILEEN SU LEE MING                       | ECE         | BMIE     | RG    | OTHERS                            |
| 104 | 4B308             | MOHD HAIZAL BIN JAMALUDDIN               | COMM        | COE      | WCC   | OTHERS                            |
| 105 | 4B133             | YEONG CHE FAI                            | CMED        | COE      | CAIRO | OTHERS                            |
| 106 | 4C050             | KUMERESAN A/L A.<br>DANAPALASINGAM       | CMED        | COE      | CAIRO | CONTRACT                          |
| 107 | 4C157             | LEOW PEI LING                            | CMED        | PROTOM-i | RG    | CONTRACT RESEARCH DTD             |
| 108 | 4B151             | SHARUL KAMAL BIN ABDUL RAHIM             | COMM        | COE      | WCC   | OTHERS                            |
| 109 | 4B176             | MUHAMMAD NADZIR BIN MARSONO              | ECE         | VeCAD    | RG    | OTHERS                            |
| 110 | 4C014             | NIK RUMZI BIN NIK IDRIS                  | POWER       | PEDG     | RG    | CONTRACT                          |
| 111 | 4C214             | ROZEHAA BT. A. RASHID                    | COMM        | ATTRG    | RG    | CONTRACT RESEARCH DTD             |
| 112 | 4B340             | MOHD HAFIZI BIN AHMAD                    | POWER       | COE      | IVAT  | OTHERS                            |
| 113 | 4C094             | LEOW CHEE YEN                            | COMM        | COE      | WCC   | CONTRACT                          |
| 114 | 4B304             | FAUZAN KHAIRI BIN CHE HARUN              | ECE         | BMIE     | RG    | OTHERS                            |
| 115 | 4B280             | NOOR AZLINDA BINTI AHMAD                 | POWER       | COE      | IVAT  | OTHERS                            |
| 116 | 4B351             | SEVIA MAHDALIZA BT. IDRUS<br>SUTAN NAMEH | COMM        | LCRG     | RG    | OTHERS                            |
| 117 | 4B345             | ZULKURNAIN B. ABD. MALEK                 | POWER       | COE      | IVAT  | OTHERS                            |
| 118 | 4C062             | JAFRI BIN DIN                            | COMM        | COE      | WCC   | CONTRACT                          |
| 119 | 4B276             | ZOLKAFLE BIN BUNTAT                      | POWER       | COE      | IVAT  | OTHERS                            |

| NO  | VOT                                | PROJECT LEADER              | DEPARTM ENT | RG   | COE | GRANT NAME                        |
|-----|------------------------------------|-----------------------------|-------------|------|-----|-----------------------------------|
| 120 | FRGS/1/201<br>8/TK07/UTM<br>/02/6  | MOHD HAFIZ BIN HABI BUDDIN  | POWER       | PERG | RG  | FUNDAMENTAL RESEARCH GRANT SCHEME |
| 121 | FRGS/1/201<br>8/ICT03/UT<br>M/02/8 | NADIATULHUDA BINTI ZULKIFLI | CMED        | LCRG | RG  | FUNDAMENTAL RESEARCH GRANT SCHEME |
| 122 | 03K11                              | MOHD SHAHRIZAL BIN RUSLI    | ECE         | STAR | RG  | TIER 2                            |

## Section C - Amount Grant Received 2018

Table 1.2: Masterlist of Section C2

| NO | VOT   | STAFF NAME                           | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                        | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|----|-------|--------------------------------------|-------|----------|-------|------------------|-----------------------------------|---------------------------|-----------------|
| 1  | 03G66 | LAU KWAN YIEW                        | POWER | COE      | IVAT  | UNIVERSITY       | FLAGSHIP                          | 50,000.00                 | 14,150.00       |
| 2  | 12J93 | NOR AINI BINTI ZAKARIA               | ECE   | BMIE     | RG    | UNIVERSITY       | TIER 2                            | 20,000.00                 | 4,233.00        |
| 3  | 13H12 | LAU KWAN YIEW                        | POWER | COE      | IVAT  | UNIVERSITY       | TIER 1                            | 50,000.00                 | 15,600.00       |
| 4  | 13H14 | ZOLKAFLE BIN BUNTAT                  | POWER | COE      | IVAT  | UNIVERSITY       | TIER 1                            | 50,000.00                 | 16,000.00       |
| 5  | 13H78 | HAZLINA BINTI SELAMAT                | CMED  | COE      | CAIRO | UNIVERSITY       | TIER 1                            | 50,000.00                 | 15,600.00       |
| 6  | 13J78 | MASTURA SHAFINAZ BINTI ZAINAL ABIDIN | ECE   | MNSE     | RG    | UNIVERSITY       | TIER 2                            | 20,000.00                 | 10,500.00       |
| 7  | 13J86 | NOOR ASNIZA BINTI MURAD              | COMM  | ARFMRG   | RG    | UNIVERSITY       | TIER 2                            | 20,000.00                 | 10,500.00       |
| 8  | 14J10 | NURUL EZAILA BINTI ALIAS             | ECE   | CONE     | RG    | UNIVERSITY       | TIER 2                            | 20,000.00                 | 9,500.00        |
| 9  | 15H39 | MOHD ARIFFANAN BIN MOHD BASRI        | CMED  | ACRG     | RG    | UNIVERSITY       | TIER 1                            | 40,000.00                 | 10,000.00       |
| 10 | 15H88 | LEOW PEI LING                        | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                            | 40,000.00                 | 20,000.00       |
| 11 | 4B244 | EILEEN SU LEE MING                   | ECE   | BMIE     | RG    | PRIVATE          | OTHERS                            | 457,026.00                | 56,052.00       |
| 12 | 4B248 | FAUZAN KHAIRI BIN CHE HARUN          | ECE   | BMIE     | RG    | PRIVATE          | OTHERS                            | 1,033,266.00              | 376,163.00      |
| 13 | 4C062 | JAFRI BIN DIN                        | COMM  | COE      | WCC   | INTERNATIONA L   | CONTRACT                          | 127,077.39                | 37,471.97       |
| 14 | 4F818 | LEOW CHEE YEN                        | COMM  | COE      | WCC   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 71,000.00                 | 21,900.00       |
| 15 | 4F821 | NOR HISHAM BIN KHAMIS                | COMM  | STAR     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 120,000.00                | 34,000.00       |

| NO | VOT   | STAFF NAME                            | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                        | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|----|-------|---------------------------------------|-------|----------|-------|------------------|-----------------------------------|---------------------------|-----------------|
| 16 | 4F883 | NOOR ASMAWATI BINTI SAMSURI           | COMM  | ARFMRG   | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 70,000.00                 | 26,000.00       |
| 17 | 4J208 | MOHD AFZAN BIN OTHMAN                 | ECE   | BMIE     | RG    | UNIVERSITY       | UTM R&D FUND                      | 100,000.00                | 34,500.00       |
| 18 | 4J216 | CHUA TIEN HAN                         | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARCH GRANT              | 119,910.00                | 45,220.00       |
| 19 | 4S134 | MOHD HAIZAL BIN JAMALUDDIN            | COMM  | COE      | WCC   | NATIONAL         | SCIENCEFUND                       | 280,000.00                | 113,500.00      |
| 20 | 16H08 | MOHAMAD KAMAL B. A. RAHIM             | COMM  | ARFMRG   | RG    | UNIVERSITY       | TIER 1                            | 40,000.00                 | 20,500.00       |
| 21 | 16H38 | MOHD RIDZUAN BIN AHMAD                | CMED  | MNSE     | RG    | UNIVERSITY       | TIER 1                            | 40,000.00                 | 18,000.00       |
| 22 | 17H40 | HERMAN BIN WAHID                      | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                            | 40,000.00                 | 17,450.00       |
| 23 | 16H13 | AHMAD 'ATHIF BIN MOHD FAUDZI          | CMED  | COE      | CAIRO | UNIVERSITY       | TIER 1                            | 40,000.00                 | 10,200.00       |
| 24 | 17H41 | AB AL-HADI BIN AB RAHMAN              | ECE   | DSIP     | RG    | UNIVERSITY       | TIER 1                            | 40,000.00                 | 10,800.00       |
| 25 | 17H61 | MOHAMED SULTAN BIN MOHAMED ALI        | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                            | 39,000.00                 | 10,000.00       |
| 26 | 17H64 | DALILA BINTI MAT SAID                 | POWER | COE      | CEES  | UNIVERSITY       | TIER 1                            | 40,000.00                 | 18,600.00       |
| 27 | 18H04 | ZULKARNAIN BIN AHMAD NOORDEN          | POWER | COE      | IVAT  | UNIVERSITY       | TIER 1                            | 40,000.00                 | 17,000.00       |
| 28 | 17H67 | NURUL ADILLA BT. MOHD SUBHA           | CMED  | ACRG     | RG    | UNIVERSITY       | TIER 1                            | 39,900.00                 | 22,200.00       |
| 29 | 18H19 | NADIATULHU DA BINTI ZULKIFLI          | CMED  | LCRG     | RG    | UNIVERSITY       | TIER 1                            | 40,000.00                 | 20,100.00       |
| 30 | 18H08 | NORZANAH BINTI ROSMIN                 | POWER | COE      | CEES  | UNIVERSITY       | TIER 1                            | 40,000.00                 | 19,000.00       |
| 31 | 18H22 | HERLINA BINTI ABDUL RAHIM             | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                            | 40,000.00                 | 7,300.00        |
| 32 | 17H32 | MD PAUZI BIN ABDULLAH                 | POWER | COE      | CEES  | UNIVERSITY       | TIER 1                            | 40,000.00                 | 20,000.00       |
| 33 | 17H24 | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG     | RG    | UNIVERSITY       | TIER 1                            | 40,000.00                 | 17,000.00       |
| 34 | 4F919 | ZAINAL BIN SALAM                      | POWER | COE      | CEES  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 178,000.00                | 94,500.00       |
| 35 | 18H30 | MOHAMMAD YUSRI BIN HASSAN             | POWER | COE      | CEES  | UNIVERSITY       | TIER 1                            | 40,000.00                 | 20,500.00       |
| 36 | 4F926 | MASTURA SHAFINAZ                      | ECE   | MNSE     | RG    | NATIONAL         | FUNDAMENTAL                       | 72,080.00                 | 31,000.00       |

| NO | VOT   | STAFF NAME                            | DEPT. | RG       | COE | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|----|-------|---------------------------------------|-------|----------|-----|------------------|--|---------------------------|-----------------|
|    |       | BINTI ZAINAL ABIDIN                   |       |          |     |                  | RESEARCH GRANT SCHEME                        |                           |                 |
| 37 | 4F959 | SUHAILA BINTI ISAAK                   | ECE   | CONE     | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 62,540.00                 | 26,000.00       |
| 38 | 4F961 | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG     | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 97,626.00                 | 54,000.00       |
| 39 | 4L684 | NORHUDAH BINTI SEMAN                  | COMM  | COE      | WCC | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME  | 94,340.00                 | 28,000.00       |
| 40 | 4F968 | NURUL ADILLA BT. MOHD SUBHA           | CMED  | ACRG     | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 77,910.00                 | 48,667.00       |
| 41 | 4L690 | MOHAMED SULTAN BIN MOHAMED ALI        | CMED  | PROTOM-i | RG  | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME  | 92,220.00                 | 24,000.00       |
| 42 | 04E06 | ABU SAHMAH BIN MOHD SUPA'AT           | COMM  | LCRG     | RG  | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 125,600.00      |
| 43 | 14J87 | OSMAN BIN AYOP                        | COMM  | ARFMRG   | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 20,000.00       |
| 44 | 14J92 | KAMAL BIN KHALIL                      | COMM  | STAR     | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 20,000.00       |
| 45 | 14J98 | MUHAMMAD NASIR BIN IBRAHIM            | ECE   | OTHERS   | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 20,000.00       |
| 46 | 15J00 | OMAR BIN ABDUL AZIZ                   | COMM  | COE      | WCC | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 16,400.00       |
| 47 | 15J05 | AHMAD RIDHWAN BIN WAHAP               | CMED  | PROTOM-i | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 20,000.00       |
| 48 | 15J34 | ISMAGANI BINTI ISMAIL                 | ECE   | BMIE     | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 20,000.00       |
| 49 | 15J35 | MUHAMMAD MUN'IM BIN AHMAD ZABIDI      | ECE   | DSIP     | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 20,000.00       |
| 50 | 15J36 | MUHAMMAD YUSOF BIN MOHD NOOR          | COMM  | LCRG     | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 20,000.00       |
| 51 | 15J40 | SHAHRIIN BIN MD AYOB                  | POWER | PEDG     | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 20,000.00       |
| 52 | 15J42 | MADIHAH BINTI MD RASID                | POWER | PERG     | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 20,000.00       |

| NO | VOT   | STAFF NAME                           | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                             | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|----|-------|--------------------------------------|-------|----------|-------|------------------|--|---------------------------|-----------------|
| 53 | 15J49 | NORJULIA BINTI MOHAMAD NORDIN        | POWER | PEDG     | RG    | UNIVERSITY       | TIER 2                                 | 20,000.00                 | 18,400.00       |
| 54 | 19H45 | SAIFULNIZAM BIN ABD. KHALID          | POWER | PERG     | RG    | UNIVERSITY       | TIER 1                                 | 40,500.00                 | 34,500.00       |
| 55 | 19H22 | MOHD RIDZUAN BIN AHMAD               | CMED  | MNSE     | RG    | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 26,000.00       |
| 56 | 19H25 | ROZEHA BT. A. RASHID                 | COMM  | ATTRG    | RG    | UNIVERSITY       | TIER 1                                 | 39,600.00                 | 39,600.00       |
| 57 | 19H27 | NOOR ASMAWATI BINTI SAMSURI          | COMM  | ARFMRG   | RG    | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 24,500.00       |
| 58 | 19H29 | MOHAMAD SHUKRI BIN ZAINAL ABIDIN     | CMED  | ACRG     | RG    | UNIVERSITY       | TIER 1                                 | 45,000.00                 | 45,000.00       |
| 59 | 19H33 | SUHANA BINTI MOHAMED SULTAN          | ECE   | CONE     | RG    | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 39,550.00       |
| 60 | 19H38 | THAREK BIN ABD RAHMAN                | COMM  | COE      | WCC   | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 32,200.00       |
| 61 | 19H40 | HASIMAH BTE ABDUL RAHMAN             | POWER | COE      | CEES  | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 27,500.00       |
| 62 | 19H56 | MOHD HAIZAL BIN JAMALUDDIN           | COMM  | COE      | WCC   | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 39,000.00       |
| 63 | 19H58 | LEOW CHEE YEN                        | COMM  | COE      | WCC   | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 39,300.00       |
| 64 | 19H61 | USMAN ULLAH SHEIKH                   | ECE   | DSIP     | RG    | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 25,000.00       |
| 65 | 19H79 | KHAIRUL HAMIMAH BINTI ABAS           | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 34,000.00       |
| 66 | 01M04 | AHMAD 'ATHIF BIN MOHD FAUDZI         | CMED  | COE      | CAIRO | UNIVERSITY       | MATCHING GRANT                         | 72,000.00                 | 72,000.00       |
| 67 | 19H86 | SYED ABDUL RAHMAN BIN SYED ABU BAKAR | ECE   | DSIP     | RG    | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 29,000.00       |
| 68 | 20H11 | HERLINA BINTI ABDUL RAHIM            | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 27,700.00       |
| 69 | 4C174 | ROZEHA BT. A. RASHID                 | COMM  | ATTRG    | RG    | PRIVATE          | CONTRACT RESEARCH DTD                  | 32,973.00                 | 32,973.00       |
| 70 | 20H22 | MOHD AMRI BIN MD. YUNUS              | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 34,450.00       |
| 71 | 01M05 | MOHD. ADIB BIN SARIJARI              | COMM  | ATTRG    | RG    | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 10,000.00                 | 10,000.00       |
| 72 | 01M06 | HERLINA BINTI ABDUL RAHIM            | CMED  | PROTOM-i | RG    | UNIVERSITY       | INDUSTRY-INTERNATIONAL                 | 10,000.00                 | 10,000.00       |

| NO | VOT   | STAFF NAME                          | DEPT. | RG    | COE   | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|----|-------|-------------------------------------|-------|-------|-------|------------------|--|---------------------------|-----------------|
|    |       |                                     |       |       |       |                  | INCENTIVE GRANT                              |                           |                 |
| 73 | 03G93 | MOHAMMAD YUSRI BIN HASSAN           | POWER | COE   | CEES  | UNIVERSITY       | COE RESEARCH GRANT                           | 50,000.00                 | 23,500.00       |
| 74 | 01M13 | FAUZAN KHAIRI BIN CHE HARUN         | ECE   | BMIE  | RG    | UNIVERSITY       | MATCHING GRANT                               | 250,000.00                | 157,400.00      |
| 75 | 4B304 | FAUZAN KHAIRI BIN CHE HARUN         | ECE   | BMIE  | RG    | INTERNATIONAL    | OTHERS                                       | 519,464.00                | 32,000.00       |
| 76 | 03K21 | ARNIDZA BINTI RAMLI                 | COMM  | LCRG  | RG    | UNIVERSITY       | POTENTIAL ACADEMIC STAFF                     | 20,000.00                 | 20,000.00       |
| 77 | 04G19 | MONA RIZA BINTI MOHD ESA            | POWER | COE   | IVAT  | UNIVERSITY       | COE RESEARCH GRANT                           | 50,000.00                 | 41,200.00       |
| 78 | 04G37 | LEOW CHEE YEN                       | COMM  | COE   | WCC   | UNIVERSITY       | HIGH IMPACT RESEARCH GRANT                   | 68,500.00                 | 52,500.00       |
| 79 | 4B341 | ZOLKAFLIE BIN BUNTAT                | POWER | COE   | IVAT  | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 15,000.00       |
| 80 | 4B340 | MOHD HAFIZI BIN AHMAD               | POWER | COE   | IVAT  | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 15,000.00       |
| 81 | 04G26 | THAREK BIN ABD RAHMAN               | COMM  | COE   | WCC   | UNIVERSITY       | HIGH IMPACT RESEARCH GRANT                   | 148,100.00                | 148,100.00      |
| 82 | 4B342 | MOHD HAFIZI BIN AHMAD               | POWER | COE   | IVAT  | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 14,793.01       |
| 83 | 04G41 | MOHD. ADIB BIN SARIJARI             | COMM  | ATTRG | RG    | UNIVERSITY       | HIGH IMPACT RESEARCH GRANT                   | 38,100.00                 | 31,505.00       |
| 84 | 04G42 | YEONG CHE FAI                       | CMED  | COE   | CAIRO | UNIVERSITY       | FLAGSHIP                                     | 50,000.00                 | 25,000.00       |
| 85 | 4B345 | ZULKURNAIN B. ABD. MALEK            | POWER | COE   | IVAT  | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 15,000.00       |
| 86 | 04G45 | MD PAUZI BIN ABDULLAH               | POWER | COE   | CEES  | UNIVERSITY       | FLAGSHIP                                     | 50,000.00                 | 25,000.00       |
| 87 | 04E21 | THAREK BIN ABD RAHMAN               | COMM  | COE   | WCC   | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 71,000.00                 | 71,000.00       |
| 88 | 04E19 | SHARIFAH HAFIZAH BINTI SYED ARIFFIN | COMM  | ATTRG | RG    | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 125,600.00      |
| 89 | 04E30 | RAZALI BIN NGAH                     | COMM  | COE   | WCC   | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 125,600.00      |

| NO  | VOT   | STAFF NAME                       | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|----------------------------------|-------|----------|-------|------------------|--|---------------------------|-----------------|
| 90  | 4C157 | LEOW PEI LING                    | CMED  | PROTOM-i | RG    | PRIVATE          | CONTRACT RESEARCH DTD                        | 10,600.00                 | 4,000.00        |
| 91  | 04E54 | ZULKURNAIN B. ABD. MALEK         | POWER | COE      | IVAT  | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 125,600.00      |
| 92  | 04G67 | MOHAMAD KAMAL B. A. RAHIM        | COMM  | ARFMRG   | RG    | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                 | 40,000.00                 | 18,400.00       |
| 93  | 04G68 | FARID BIN ZUBIR                  | COMM  | ARFMRG   | RG    | NATIONAL         | COLLABORATIVE RESEARCH GRANT                 | 20,000.00                 | 17,500.00       |
| 94  | 04G69 | OSMAN BIN AYOP                   | COMM  | ARFMRG   | RG    | NATIONAL         | COLLABORATIVE RESEARCH GRANT                 | 20,000.00                 | 9,000.00        |
| 95  | 04G72 | NOOR ASNIZA BINTI MURAD          | COMM  | ARFMRG   | RG    | NATIONAL         | COLLABORATIVE RESEARCH GRANT                 | 20,000.00                 | 14,000.00       |
| 96  | 04G71 | MUSA BIN MOHD MOKJI              | ECE   | DSIP     | RG    | UNIVERSITY       | FLAGSHIP                                     | 40,000.00                 | 21,500.00       |
| 97  | 04G75 | MOHAMED SULTAN BIN MOHAMED ALI   | CMED  | PROTOM-i | RG    | UNIVERSITY       | FLAGSHIP                                     | 40,000.00                 | 34,000.00       |
| 98  | 04G76 | KUMERESAN A/L A. DANAPALASI NGAM | CMED  | COE      | CAIRO | UNIVERSITY       | FLAGSHIP                                     | 40,000.00                 | 15,000.00       |
| 99  | 4J334 | MOHAMMAD YUSRI BIN HASSAN        | POWER | COE      | CEES  | UNIVERSITY       | UTM TRANSLATIONAL RESEARCH GRANT             | 94,000.00                 | 94,000.00       |
| 100 | 4J339 | MUHAMMAD ARIFF BIN BAHARUDIN     | COMM  | ATTRG    | RG    | UNIVERSITY       | UTM TRANSLATIONAL RESEARCH GRANT             | 32,800.00                 | 32,800.00       |
| 101 | 4J347 | DALILA BINTI MAT SAID            | POWER | COE      | CEES  | UNIVERSITY       | UTM TRANSLATIONAL RESEARCH GRANT             | 158,200.00                | 158,200.00      |
| 102 | 04G81 | MOHD HAFIZI BIN AHMAD            | POWER | COE      | IVAT  | UNIVERSITY       | FLAGSHIP                                     | 40,000.00                 | 37,000.00       |
| 103 | 4J354 | MOHD AMRI BIN MD. YUNUS          | CMED  | PROTOM-i | RG    | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND                   | 20,000.00                 | 20,000.00       |
| 104 | 4J360 | HAZLINA BINTI SELAMAT            | CMED  | COE      | CAIRO | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND                   | 20,000.00                 | 20,000.00       |

| NO  | VOT   | STAFF NAME                            | DEPT. | RG       | COE | SPONSOR CATEGORY | GRANT NAME                             | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|---------------------------------------|-------|----------|-----|------------------|--|---------------------------|-----------------|
| 105 | 01M22 | ROZEH A BT. A. RASHID                 | COMM  | ATTRG    | RG  | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 15,000.00                 | 11,000.00       |
| 106 | 4B351 | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG     | RG  | INTERNATIONAL    | OTHERS                                 | 20,121.24                 | 20,121.24       |
| 107 | 06G80 | MOHD FUAD BIN RAHMAT                  | CMED  | PROTOM-i | RG  | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT   | 90,000.00                 | 18,000.00       |
| 108 | 05G16 | SHARIFAH KAMILAH BT SYED YUSOF        | COMM  | ATTRG    | RG  | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT   | 80,000.00                 | 27,900.00       |
| 109 | 06G15 | MOHAMAD KAMAL B. A. RAHIM             | COMM  | ARFMRG   | RG  | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT   | 94,000.00                 | 44,200.00       |
| 110 | 06G96 | KAMALUDIN BIN MOHAMAD YUSOF           | COMM  | ATTRG    | RG  | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT   | 42,000.00                 | 15,200.00       |
| 111 | 06G94 | MOHAMAD RIJAL BIN HAMID               | COMM  | ARFMRG   | RG  | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT   | 42,000.00                 | 15,000.00       |
| 112 | 05G60 | NADIATULHUDA BINTI ZULKIFLI           | CMED  | LCRG     | RG  | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT   | 52,000.00                 | 26,600.00       |
| 113 | 05G78 | NURZAL EFFIYANA BINTI GHAZALI         | COMM  | ATTRG    | RG  | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT   | 63,000.00                 | 31,500.00       |
| 114 | 05G79 | NORAZAN BIN MOHD KASSIM               | COMM  | LCRG     | RG  | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT   | 39,000.00                 | 21,000.00       |
| 115 | 05G80 | ARNIDZA BINTI RAMLI                   | COMM  | LCRG     | RG  | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT   | 39,000.00                 | 13,700.00       |
| 116 | 05G20 | MOHD HAIZAL BIN JAMALUDDIN            | COMM  | COE      | WCC | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT   | 80,000.00                 | 56,000.00       |
| 117 | 4J373 | MOHD HAFIZ BIN HABI BUDDIN            | POWER | PERG     | RG  | UNIVERSITY       | UTM TRANSLATIONAL RESEARCH GRANT       | 61,692.00                 | 61,692.00       |
| 118 | 4C214 | ROZEH A BT. A. RASHID                 | COMM  | ATTRG    | RG  | PRIVATE          | CONTRACT                               | 58,275.00                 | 58,275.00       |

| NO  | VOT   | STAFF NAME                            | DEPT. | RG    | COE   | SPONSOR CATEGORY | GRANT NAME                             | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|---------------------------------------|-------|-------|-------|------------------|--|---------------------------|-----------------|
|     |       |                                       |       |       |       |                  | RESEARC H DTD                          |                           |                 |
| 119 | 06G78 | YUSMEERAZ BINTI YUSOF                 | ECE   | CONE  | RG    | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT  | 40,000.00                 | 22,500.00       |
| 120 | 07G09 | SUHAILA BINTI ISAAK                   | ECE   | CONE  | RG    | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT  | 40,000.00                 | 20,500.00       |
| 121 | 06G93 | NORLAILI BINTI MAT SAFRI              | ECE   | BMIE  | RG    | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT  | 80,000.00                 | 34,100.00       |
| 122 | 4J370 | AHMAD ZURI B SHA'AMERI                | ECE   | DSIP  | RG    | UNIVERSITY       | PROTOTY PE DEVELOP MENT FUND           | 20,000.00                 | 20,000.00       |
| 123 | 3C055 | ZAINAL BIN SALAM                      | POWER | COE   | CEES  | NATIONAL         | CONTRA CT                              | 200,000.00                | 0.00            |
| 124 | 3S108 | SHAIKH NASIR @ NASIR BIN SHAIKH HUSIN | ECE   | VeCAD | RG    | NATIONAL         | SCIENCEF UND                           | 108,995.00                | 0.00            |
| 125 | 4B133 | YEONG CHE FAI                         | CMED  | COE   | CAIRO | PRIVATE          | OTHERS                                 | 437,800.00                | 0.00            |
| 126 | 4B151 | SHARUL KAMAL BIN ABDUL RAHIM          | COMM  | COE   | WCC   | PRIVATE          | OTHERS                                 | 362,360.00                | 0.00            |
| 127 | 4B176 | MUHAMMAD NADZIR BIN MARSONO           | ECE   | VeCAD | RG    | PRIVATE          | OTHERS                                 | 692,657.00                | 0.00            |
| 128 | 4B183 | AHMAD ZURI B SHA'AMERI                | ECE   | DSIP  | RG    | PRIVATE          | OTHERS                                 | 136,400.00                | 0.00            |
| 129 | 4B275 | ZULKURNAIN B. ABD. MALEK              | POWER | COE   | IVAT  | INTERNATIONA L   | OTHERS                                 | 19,042.00                 | 0.00            |
| 130 | 4B276 | ZOLKAFLIE BIN BUNTAT                  | POWER | COE   | IVAT  | INTERNATIONA L   | OTHERS                                 | 19,042.00                 | 0.00            |
| 131 | 4B277 | ZOLKAFLIE BIN BUNTAT                  | POWER | COE   | IVAT  | INTERNATIONA L   | OTHERS                                 | 19,042.00                 | 0.00            |
| 132 | 4B278 | MOHD HAFIZI BIN AHMAD                 | POWER | COE   | IVAT  | INTERNATIONA L   | OTHERS                                 | 19,042.00                 | 0.00            |
| 133 | 4B279 | MOHD HAFIZI BIN AHMAD                 | POWER | COE   | IVAT  | INTERNATIONA L   | OTHERS                                 | 19,042.00                 | 0.00            |
| 134 | 4B280 | NOOR AZLINDA BINTI AHMAD              | POWER | COE   | IVAT  | INTERNATIONA L   | OTHERS                                 | 19,042.00                 | 0.00            |
| 135 | 4B308 | MOHD HAIZAL BIN JAMALUDDIN            | COMM  | COE   | WCC   | PRIVATE          | OTHERS                                 | 20,000.00                 | 0.00            |
| 136 | 4J330 | SHARUL KAMAL BIN ABDUL RAHIM          | COMM  | COE   | WCC   | UNIVERSITY       | PROTOTY PE DEVELOP MENT FUND           | 20,000.00                 | 20,000.00       |
| 137 | 4B283 | SHARUL KAMAL BIN ABDUL RAHIM          | COMM  | COE   | WCC   | NATIONAL         | INSTITUT INOVASI STRATEGI K JOHOR-UNIT | 90,000.00                 | 0.00            |

| NO  | VOT   | STAFF NAME                       | DEPT. | RG       | COE  | SPONSOR CATEGORY | GRANT NAME                          | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|----------------------------------|-------|----------|------|------------------|-------------------------------------|---------------------------|-----------------|
|     |       |                                  |       |          |      |                  | PERANCA NG EKONOMI JOHOR            |                           |                 |
| 138 | 4C014 | NIK RUMZI BIN NIK IDRIS          | POWER | PEDG     | RG   | PRIVATE          | CONTRA CT                           | 50,000.00                 | 0.00            |
| 139 | 4C094 | LEOW CHEE YEN                    | COMM  | COE      | WCC  | INTERNATIONA L   | CONTRA CT                           | 656,152.00                | 0.00            |
| 140 | 4C158 | MOHD. ADIB BIN SARIJARI          | COMM  | ATTRG    | RG   | PRIVATE          | CONTRA CT RESEARC H DTD             | 23,015.00                 | 0.00            |
| 141 | 4F482 | SUHANA BINTI MOHAMED SULTAN      | ECE   | CONE     | RG   | NATIONAL         | FUNDAME NTAL RESEARC H GRANT SCHEME | 114,000.00                | 0.00            |
| 142 | 4F659 | AB AL-HADI BIN AB RAHMAN         | ECE   | DSIP     | RG   | NATIONAL         | FUNDAME NTAL RESEARC H GRANT SCHEME | 88,500.00                 | 0.00            |
| 143 | 4F707 | LAU KWAN YIEW                    | POWER | COE      | IVAT | NATIONAL         | FUNDAME NTAL RESEARC H GRANT SCHEME | 127,200.00                | 0.00            |
| 144 | 4F728 | ROZEH A BT. A. RASHID            | COMM  | ATTRG    | RG   | NATIONAL         | FUNDAME NTAL RESEARC H GRANT SCHEME | 59,600.00                 | 0.00            |
| 145 | 4F746 | MD PAUZI BIN ABDULLAH            | POWER | COE      | CEES | NATIONAL         | FUNDAME NTAL RESEARC H GRANT SCHEME | 58,500.00                 | 0.00            |
| 146 | 4F751 | MOHAMED AFENDI BIN MOHAMED PIAH  | POWER | COE      | IVAT | NATIONAL         | FUNDAME NTAL RESEARC H GRANT SCHEME | 114,200.00                | 0.00            |
| 147 | 4F759 | MOHAMAD SHUKRI BIN ZAINAL ABIDIN | CMED  | ACRG     | RG   | NATIONAL         | FUNDAME NTAL RESEARC H GRANT SCHEME | 104,800.00                | 0.00            |
| 148 | 4F761 | MOHD AZHAR BIN ABDUL RAZAK       | ECE   | BMIE     | RG   | NATIONAL         | FUNDAME NTAL RESEARC H GRANT SCHEME | 67,200.00                 | 0.00            |
| 149 | 4F794 | NORZANAH BINTI ROSMIN            | POWER | COE      | CEES | NATIONAL         | FUNDAME NTAL RESEARC H GRANT SCHEME | 108,200.00                | 0.00            |
| 150 | 4F817 | MOHD FU'AD BIN RAHMAT            | CMED  | PROTOM-i | RG   | NATIONAL         | FUNDAME NTAL RESEARC H GRANT SCHEME | 121,500.00                | 0.00            |
| 151 | 4F820 | AHMAD SHARMI BIN ABDULLAH        | COMM  | LCRG     | RG   | NATIONAL         | FUNDAME NTAL RESEARC H GRANT SCHEME | 81,500.00                 | 0.00            |

| NO  | VOT   | STAFF NAME                   | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                        | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|------------------------------|-------|----------|-------|------------------|-----------------------------------|---------------------------|-----------------|
| 152 | 4F828 | ZULKURNAIN B. ABD. MALEK     | POWER | COE      | IVAT  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 122,000.00                | 0.00            |
| 153 | 4F870 | PUSPA INAYAT BT. KHALID      | ECE   | BMIE     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 60,500.00                 | 0.00            |
| 154 | 4F900 | EILEEN SU LEE MING           | ECE   | BMIE     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 81,000.00                 | 0.00            |
| 155 | 4F901 | SHARUL KAMAL BIN ABDUL RAHIM | COMM  | COE      | WCC   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 61,200.00                 | 0.00            |
| 156 | 4F911 | AZHAR BIN KHAIRUDDIN         | POWER | PERG     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 82,700.00                 | 0.00            |
| 157 | 4F947 | KHAIRUL HAMIMAH BINTI ABAS   | CMED  | PROTOM-i | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 56,180.00                 | 0.00            |
| 158 | 4F958 | JAFRI BIN DIN                | COMM  | COE      | WCC   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 98,580.00                 | 0.00            |
| 159 | 4F965 | RAZALI BIN NGAH              | COMM  | COE      | WCC   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 76,532.00                 | 0.00            |
| 160 | 4F966 | MONA RIZA BINTI MOHD ESA     | POWER | COE      | IVAT  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 66,992.00                 | 0.00            |
| 161 | 4H030 | AHMAD ZURI B SHA'AMERI       | ECE   | DSIP     | RG    | NATIONAL         | TECHNOFUND                        | 1,168,230.00              | 0.00            |
| 162 | 4J144 | HAZLINA BINTI SELAMAT        | CMED  | COE      | CAIRO | UNIVERSITY       | UTM R&D FUND                      | 20,000.00                 | 0.00            |
| 163 | 4J209 | THAREK BIN ABD RAHMAN        | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARCH GRANT              | 109,410.00                | 0.00            |
| 164 | 4J210 | LEOW CHEE YEN                | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARCH GRANT              | 119,910.00                | 0.00            |
| 165 | 4J212 | NORHUDAH BINTI SEMAN         | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARCH GRANT              | 119,910.00                | 0.00            |
| 166 | 4J213 | SHARUL KAMAL BIN ABDUL RAHIM | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARCH GRANT              | 119,910.00                | 0.00            |
| 167 | 4J215 | RAZALI BIN NGAH              | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARCH GRANT              | 90,622.00                 | 0.00            |

| NO  | VOT   | STAFF NAME                            | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                                     | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|---------------------------------------|-------|----------|-------|------------------|--|---------------------------|-----------------|
| 168 | 4J217 | OMAR BIN ABDUL AZIZ                   | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARC H GRANT                          | 119,910.00                | 0.00            |
| 169 | 4J218 | MARWAN HADRI BIN AZMI                 | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARC H GRANT                          | 119,910.00                | 0.00            |
| 170 | 4J220 | MOHD HAIZAL BIN JAMALUDDIN            | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARC H GRANT                          | 119,910.00                | 0.00            |
| 171 | 4J221 | JAFRI BIN DIN                         | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARC H GRANT                          | 119,910.00                | 0.00            |
| 172 | 4J255 | SALLEHUDDI N BIN IBRAHIM              | CMED  | PROTOM-i | RG    | UNIVERSITY       | DANA PEMBAN GUNAN PENGAJA RAN                  | 20,000.00                 | 0.00            |
| 173 | 4L423 | YOU KOK YEOW                          | COMM  | ARG      | RG    | NATIONAL         | DEMAND-DRIVEN INNOVATION                       | 25,000.00                 | 0.00            |
| 174 | 4L666 | ZOLKAFLE BIN BUNTAT                   | POWER | COE      | IVAT  | NATIONAL         | PROTOTY PE DEVELOPMENT RESEARC H GRANT SCHEME  | 175,000.00                | 0.00            |
| 175 | 4S126 | AB AL-HADI BIN AB RAHMAN              | ECE   | DSIP     | RG    | NATIONAL         | SCIENCEFUND                                    | 242,550.00                | 0.00            |
| 176 | 00M81 | YEONG CHE FAI                         | CMED  | COE      | CAIRO | UNIVERSITY       | MATCHING GRANT                                 | 199,120.00                | 0.00            |
| 177 | 05G39 | MOHD HAFIZ BIN HABI BUDDIN            | POWER | PERG     | RG    | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARC H GRANT          | 80,000.00                 | 0.00            |
| 178 | 00M94 | AHMAD ZURI B SHA'AMERI                | ECE   | DSIP     | RG    | UNIVERSITY       | MATCHING GRANT                                 | 54,500.00                 | 0.00            |
| 179 | 01G69 | AHMAD 'ATHIF BIN MOHD FAUDZI          | CMED  | COE      | CAIRO | UNIVERSITY       | FLAGSHIP                                       | 27,100.00                 | 0.00            |
| 180 | 02K79 | MOHD RASHIDI BIN SALIM                | COMM  | LCRG     | RG    | UNIVERSITY       | POTENTIA L ACADEMIC STAFF                      | 20,000.00                 | 0.00            |
| 181 | 02K80 | AMIRJAN BIN NAWABJAN                  | ECE   | MNSE     | RG    | UNIVERSITY       | POTENTIA L ACADEMIC STAFF                      | 20,000.00                 | 0.00            |
| 182 | 02K85 | MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | COMM  | LCRG     | RG    | UNIVERSITY       | POTENTIA L ACADEMIC STAFF                      | 20,000.00                 | 0.00            |
| 183 | 03E43 | NORHUDAH BINTI SEMAN                  | COMM  | COE      | WCC   | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARC H UNIVERSIT Y | 65,000.00                 | 0.00            |

| NO  | VOT   | STAFF NAME                    | DEPT. | RG   | COE  | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|-------------------------------|-------|------|------|------------------|--|---------------------------|-----------------|
| 184 | 03E44 | THAREK BIN ABD RAHMAN         | COMM  | COE  | WCC  | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 65,000.00                 | 0.00            |
| 185 | 03E69 | THAREK BIN ABD RAHMAN         | COMM  | COE  | WCC  | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 65,000.00                 | 0.00            |
| 186 | 03E72 | ZAHARUDDIN B MOHAMED          | CMED  | ACRG | RG   | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 75,350.00                 | 0.00            |
| 187 | 03G41 | NORHUDAH BINTI SEMAN          | COMM  | COE  | WCC  | UNIVERSITY       | FLAGSHIP                                     | 50,000.00                 | 0.00            |
| 188 | 03G59 | MOHD HAIZAL BIN JAMALUDDIN    | COMM  | COE  | WCC  | UNIVERSITY       | FLAGSHIP                                     | 50,000.00                 | 0.00            |
| 189 | 03G67 | NOOR AZLINDA BINTI AHMAD      | POWER | COE  | IVAT | UNIVERSITY       | FLAGSHIP                                     | 50,000.00                 | 0.00            |
| 190 | 03G79 | MARWAN HADRI BIN AZMI         | COMM  | COE  | WCC  | UNIVERSITY       | FLAGSHIP                                     | 50,000.00                 | 0.00            |
| 191 | 03G88 | DALILA BINTI MAT SAID         | POWER | COE  | CEES | UNIVERSITY       | FLAGSHIP                                     | 50,000.00                 | 0.00            |
| 192 | 03K11 | MOHD SHAHRIZAL BIN RUSLI      | ECE   | STAR | RG   | UNIVERSITY       | POTENTIAL ACADEMIC STAFF                     | 20,000.00                 | 0.00            |
| 193 | 05G46 | AZHAR BIN KHAIRUDDIN          | POWER | PERG | RG   | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT         | 240,000.00                | 0.00            |
| 194 | 05G47 | AZHAR BIN KHAIRUDDIN          | POWER | PERG | RG   | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT         | 80,000.00                 | 0.00            |
| 195 | 05G59 | NADIATULHUDA BINTI ZULKIFLI   | CMED  | LCRG | RG   | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT         | 240,000.00                | 0.00            |
| 196 | 05G61 | NORJULIA BINTI MOHAMAD NORDIN | POWER | PEDG | RG   | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT         | 40,000.00                 | 0.00            |
| 197 | 05G87 | MONA RIZA BINTI MOHD ESA      | POWER | COE  | IVAT | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT         | 80,000.00                 | 0.00            |

| NO  | VOT   | STAFF NAME                     | DEPT. | RG       | COE  | SPONSOR CATEGORY | GRANT NAME                            | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|--------------------------------|-------|----------|------|------------------|---------------------------------------|---------------------------|-----------------|
| 198 | 05G88 | ZULKURNAIN B. ABD. MALEK       | POWER | COE      | IVAT | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 40,000.00                 | 0.00            |
| 199 | 05G89 | ZULKURNAIN B. ABD. MALEK       | POWER | COE      | IVAT | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 240,000.00                | 0.00            |
| 200 | 06G18 | MOHD FUAD BIN RAHMAT           | CMED  | PROTOM-i | RG   | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 200,000.00                | 0.00            |
| 201 | 06G20 | MOHAMAD KAMAL B. A. RAHIM      | COMM  | ARFMRG   | RG   | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 220,000.00                | 0.00            |
| 202 | 06G48 | MADIHAH BINTI MD RASID         | POWER | PERG     | RG   | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 40,000.00                 | 0.00            |
| 203 | 06G50 | NOOR AZLINDA BINTI AHMAD       | POWER | COE      | IVAT | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 80,000.00                 | 0.00            |
| 204 | 06G63 | NIK NOORDINI BT NIK ABD MALIK  | COMM  | ATTRG    | RG   | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 40,000.00                 | 0.00            |
| 205 | 06G65 | NORZANAH BINTI ROSMIN          | POWER | COE      | CEES | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 80,000.00                 | 0.00            |
| 206 | 06G89 | SHAHARIN FADZLI BIN ABD RAHMAN | ECE   | MNSE     | RG   | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 40,000.00                 | 0.00            |
| 207 | 06G91 | NORLAILI BINTI MAT SAFRI       | ECE   | BMIE     | RG   | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 200,000.00                | 0.00            |
| 208 | 07G07 | MD PAUZI BIN ABDULLAH          | POWER | COE      | CEES | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 200,000.00                | 0.00            |
| 209 | 07G25 | ABU SAHMAH BIN MOHD SUPA'AT    | COMM  | LCRG     | RG   | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 160,000.00                | 0.00            |
| 210 | 07G45 | NURUL EZAILA BINTI ALIAS       | ECE   | CONE     | RG   | UNIVERSITY       | UTM TRANSDIC IPLINARY RESEARC H GRANT | 40,000.00                 | 0.00            |
| 211 | 07G43 | ZURAIMY BIN ADZIS              | POWER | COE      | IVAT | UNIVERSITY       | UTM TRANSDIC                          | 40,000.00                 | 0.00            |

| NO  | VOT   | STAFF NAME                          | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                    | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|-------------------------------------|-------|----------|-------|------------------|-------------------------------|---------------------------|-----------------|
|     |       |                                     |       |          |       |                  | IPLINARY RESEARC H GRANT      |                           |                 |
| 212 | 05G00 | RASHIDAH@S ITI SAEDAH BINTI ARSAT   | COMM  | ARG      | RG    | NATIONAL         | COLLABORATIVE RESEARC H GRANT | 20,000.00                 | 0.00            |
| 213 | 04G18 | HAZLINA BINTI SELAMAT               | CMED  | COE      | CAIRO | UNIVERSITY       | COE RESEARC H GRANT           | 50,000.00                 | 0.00            |
| 214 | 04G65 | MOHAMAD KAMAL B. A. RAHIM           | COMM  | ARFMRG   | RG    | UNIVERSITY       | COLLABORATIVE RESEARC H GRANT | 160,000.00                | 0.00            |
| 215 | 11H10 | YUSRI B MD. YUNOS                   | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 216 | 11H21 | MOHD HAFIZI BIN AHMAD               | POWER | COE      | IVAT  | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 217 | 11H25 | NOR HAFIZAH BINTI NGAJIKIN          | COMM  | LCRG     | RG    | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 218 | 11H31 | SALINDA BINTI BUYAMIN               | CMED  | ACRG     | RG    | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 219 | 11H49 | HERMAN BIN WAHID                    | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 220 | 11H60 | NIK NOORDINI BT NIK ABD MALIK       | COMM  | ATTRG    | RG    | UNIVERSITY       | TIER 1                        | 49,000.00                 | 0.00            |
| 221 | 12H00 | NORZANAH BINTI ROSMIN               | POWER | COE      | CEES  | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 222 | 12H07 | MOHAMED AFENDI BIN MOHAMED PIAH     | POWER | COE      | IVAT  | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 223 | 12H34 | EILEEN SU LEE MING                  | ECE   | BMIE     | RG    | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 224 | 12H72 | ZAID BIN OMAR                       | ECE   | DSIP     | RG    | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 225 | 12J50 | AHMAD SHARMI BIN ABDULLAH           | COMM  | LCRG     | RG    | UNIVERSITY       | TIER 2                        | 20,000.00                 | 0.00            |
| 226 | 12J51 | ABD HAMID BIN AHMAD                 | ECE   | BMIE     | RG    | UNIVERSITY       | TIER 2                        | 20,000.00                 | 0.00            |
| 227 | 12J56 | MITRA BINTI MOHD ADDI               | ECE   | BMIE     | RG    | UNIVERSITY       | TIER 2                        | 20,000.00                 | 0.00            |
| 228 | 12J58 | NASRUL HUMAIMI BIN MAHMOOD          | ECE   | BMIE     | RG    | UNIVERSITY       | TIER 2                        | 20,000.00                 | 0.00            |
| 229 | 13H08 | SHARUL KAMAL BIN ABDUL RAHIM        | COMM  | COE      | WCC   | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 230 | 13H20 | LIM CHENG SIONG                     | CMED  | ACRG     | RG    | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 231 | 13H24 | SHARIFAH HAFIZAH BINTI SYED ARIFFIN | COMM  | ATTRG    | RG    | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 232 | 13H25 | RUBITA BINTI SUDIRMAN               | ECE   | BMIE     | RG    | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |
| 233 | 13H26 | MOHD HAIZAL BIN JAMALUDDIN          | COMM  | COE      | WCC   | UNIVERSITY       | TIER 1                        | 50,000.00                 | 0.00            |

| NO  | VOT   | STAFF NAME                     | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|--------------------------------|-------|----------|-------|------------------|------------|---------------------------|-----------------|
| 234 | 13H57 | FATIMAH SHAM BT. ISMAIL        | CMED  | COE      | CAIRO | UNIVERSITY       | TIER 1     | 50,000.00                 | 0.00            |
| 235 | 13H70 | NORHALIZA BINTI HAJI ABD WAHAB | CMED  | ACRG     | RG    | UNIVERSITY       | TIER 1     | 49,800.00                 | 0.00            |
| 236 | 13H86 | MOHAMAD HAFIS IZRAN BIN ISHAK  | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1     | 50,000.00                 | 0.00            |
| 237 | 13H87 | ABU SAHMAH BIN MOHD SUPA'AT    | COMM  | LCRG     | RG    | UNIVERSITY       | TIER 1     | 50,000.00                 | 0.00            |
| 238 | 13H98 | MOHD HAFIZI BIN AHMAD          | POWER | COE      | IVAT  | UNIVERSITY       | TIER 1     | 50,000.00                 | 0.00            |
| 239 | 13J83 | SHAHARIN FADZLI BIN ABD RAHMAN | ECE   | MNSE     | RG    | UNIVERSITY       | TIER 2     | 20,000.00                 | 0.00            |
| 240 | 13J87 | NORLINA BINTI PARAMAN          | ECE   | VeCAD    | RG    | UNIVERSITY       | TIER 2     | 20,000.00                 | 0.00            |
| 241 | 14H02 | HASIMAH BTE ABDUL RAHMAN       | POWER | COE      | CEES  | UNIVERSITY       | TIER 1     | 50,000.00                 | 0.00            |
| 242 | 14H27 | MICHAEL TAN LOONG PENG         | ECE   | CONE     | RG    | UNIVERSITY       | TIER 1     | 50,000.00                 | 0.00            |
| 243 | 14H31 | MOHAMED SULTAN BIN MOHAMED ALI | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1     | 50,000.00                 | 0.00            |
| 244 | 14H63 | SUHANA BINTI MOHAMED SULTAN    | ECE   | CONE     | RG    | UNIVERSITY       | TIER 1     | 50,000.00                 | 0.00            |
| 245 | 14H79 | HERLINA BINTI ABDUL RAHIM      | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1     | 50,000.00                 | 0.00            |
| 246 | 14H80 | YUSRI B MD. YUNOS              | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1     | 50,000.00                 | 0.00            |
| 247 | 14J06 | ZAHARUDDIN B MOHAMED           | CMED  | ACRG     | RG    | UNIVERSITY       | TIER 2     | 20,000.00                 | 0.00            |
| 248 | 14J07 | FARID BIN ZUBIR                | COMM  | ARFMRG   | RG    | UNIVERSITY       | TIER 2     | 20,000.00                 | 0.00            |
| 249 | 14J08 | ZAHARAH BINTI JOHARI           | ECE   | CONE     | RG    | UNIVERSITY       | TIER 2     | 20,000.00                 | 0.00            |
| 250 | 14J17 | SHARIFAH KAMILAH BT SYED YUSOF | COMM  | ATTRG    | RG    | UNIVERSITY       | TIER 2     | 20,000.00                 | 0.00            |
| 251 | 14J18 | MOHAMAD RIJAL BIN HAMID        | COMM  | ARFMRG   | RG    | UNIVERSITY       | TIER 2     | 20,000.00                 | 0.00            |
| 252 | 14J19 | MOHAMAD AMIR BIN SHAMSUDIN     | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 2     | 20,000.00                 | 0.00            |
| 253 | 14J22 | MOHD FAIRUS BIN MOHD YUSOFF    | COMM  | ARFMRG   | RG    | UNIVERSITY       | TIER 2     | 20,000.00                 | 0.00            |
| 254 | 14J23 | MOHD AZHAR BIN ABDUL RAZAK     | ECE   | BMIE     | RG    | UNIVERSITY       | TIER 2     | 20,000.00                 | 0.00            |
| 255 | 14J34 | MOHD JUNAIDI BIN ABDUL AZIZ    | POWER | PEDG     | RG    | UNIVERSITY       | TIER 2     | 20,000.00                 | 0.00            |

| NO  | VOT   | STAFF NAME                       | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME    | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|----------------------------------|-------|----------|-------|------------------|---------------|---------------------------|-----------------|
| 256 | 14J46 | YAHAYA BIN MD SAM                | CMED  | ACRG     | RG    | UNIVERSITY       | TIER 2        | 20,000.00                 | 0.00            |
| 257 | 14J47 | MOKHTAR HARUN                    | COMM  | ARG      | RG    | UNIVERSITY       | TIER 2        | 20,000.00                 | 0.00            |
| 258 | 14J48 | USMAN ULLAH SHEIKH               | ECE   | DSIP     | RG    | UNIVERSITY       | TIER 2        | 20,000.00                 | 0.00            |
| 259 | 14J50 | FAUZAN KHAIRI BIN CHE HARUN      | ECE   | BMIE     | RG    | UNIVERSITY       | TIER 2        | 20,000.00                 | 0.00            |
| 260 | 14J56 | SITI MAHERAH BINTI HUSSIN        | POWER | COE      | CEES  | UNIVERSITY       | TIER 2        | 20,000.00                 | 0.00            |
| 261 | 14J58 | SHAFISHUAZ A SAHLAN              | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 2        | 20,000.00                 | 0.00            |
| 262 | 14J62 | ABDUL RASHID BIN HUSAIN          | CMED  | ACRG     | RG    | UNIVERSITY       | TIER 2        | 20,000.00                 | 0.00            |
| 263 | 14J64 | MONA RIZA BINTI MOHD ESA         | POWER | COE      | IVAT  | UNIVERSITY       | TIER 2        | 20,000.00                 | 0.00            |
| 264 | 15H29 | ANITA BINTI AHMAD                | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 265 | 15H30 | YOU KOK YEOW                     | COMM  | ARG      | RG    | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 266 | 15H85 | SALLEHUDDIN BIN IBRAHIM          | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 267 | 15H89 | JASRUL JAMANI BIN JAMIAN         | POWER | PERG     | RG    | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 268 | 16H47 | YEONG CHE FAI                    | CMED  | COE      | CAIRO | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 269 | 17H10 | MOHD WAZIR BIN MUSTAFA           | POWER | PERG     | RG    | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 270 | 17H18 | KUMERESAN A/L A. DANAPALASI NGAM | CMED  | COE      | CAIRO | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 271 | 17H22 | RAZALI BIN NGAH                  | COMM  | COE      | WCC   | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 272 | 17H23 | SHARUL KAMAL BIN ABDUL RAHIM     | COMM  | COE      | WCC   | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 273 | 17H42 | MOHAMAD HAFIS IZRAN BIN ISHAK    | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1        | 26,000.00                 | 0.00            |
| 274 | 17H45 | SALINDA BINTI BUYAMIN            | CMED  | ACRG     | RG    | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 275 | 17H57 | ABU SAHMAH BIN MOHD SUPA'AT      | COMM  | LCRG     | RG    | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 276 | 18H01 | MARWAN HADRI BIN AZMI            | COMM  | COE      | WCC   | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 277 | 18H07 | NIK RUMZI BIN NIK IDRIS          | POWER | PEDG     | RG    | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 278 | 18H10 | ZULKURNAIN B. ABD. MALEK         | POWER | COE      | IVAT  | UNIVERSITY       | TIER 1        | 40,000.00                 | 0.00            |
| 279 | 04G94 | MOHAMED SULTAN BIN               | CMED  | PROTOM-i | RG    | UNIVERSITY       | COLLABORATIVE | 160,000.00                | 0.00            |

| NO  | VOT                        | STAFF NAME                            | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                           | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|----------------------------|---------------------------------------|-------|----------|-------|------------------|--------------------------------------|---------------------------|-----------------|
|     |                            | MOHAMED ALI                           |       |          |       |                  | RESEARCH GRANT                       |                           |                 |
| 280 | 05G01                      | LEOW PEI LING                         | CMED  | PROTOM-i | RG    | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT         | 160,000.00                | 0.00            |
| 281 | PY/2018/03796              | SUHANA BINTI MOHAMED SULTAN           | ECE   | CONE     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME    | 109,875.00                | 0.00            |
| 282 | PY/2018/03681              | MICHAEL TAN LOONG PENG                | ECE   | CONE     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME    | 58,200.00                 | 0.00            |
| 283 | PY/2019/00005              | ZAHARUDDIN B MOHAMED                  | CMED  | ACRG     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME    | 71,000.00                 | 0.00            |
| 284 | PY/2018/03850              | YUSRI B MD. YUNOS                     | CMED  | PROTOM-i | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME    | 60,000.00                 | 0.00            |
| 285 | PY/2018/03774              | MOHD WAZIR BIN MUSTAFA                | POWER | PERG     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME    | 76,000.00                 | 0.00            |
| 286 | 4C050                      | KUMERESAN A/L A. DANAPALASINGAM       | CMED  | COE      | CAIRO | PRIVATE          | CONTRACT                             | 86,187.00                 | 0.00            |
| 287 | 05G27                      | ABU SAHMAH BIN MOHD SUPA'AT           | COMM  | LCRG     | RG    | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT | 80,000.00                 | 0.00            |
| 288 | 05G28                      | MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | COMM  | LCRG     | RG    | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT | 40,000.00                 | 0.00            |
| 289 | FRGS/1/2018/TK07/UTM/02/6  | MOHD HAFIZ BIN HABI BUDDIN            | POWER | PERG     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME    | 68,000.00                 | 0.00            |
| 290 | FRGS/1/2018/ICT03/UTM/02/8 | NADIATULHUDA BINTI ZULKIFLI           | CMED  | LCRG     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME    | 78,600.00                 | 0.00            |

## Appendix Section D 2018

Table 1.3: Number of postgraduate students for each SKE staff

| NAME                             | RG     | MSc | MPhil | PhD | TOTAL RESEARCH STUDENT (PhD + MPhil) |
|----------------------------------|--------|-----|-------|-----|--------------------------------------|
| NORHALIZA BINTI HAJI ABD WAHAB   | ACRG   | 3   | 2     | 4   | 6                                    |
| ABDUL RASHID BIN HUSAIN          | ACRG   |     |       | 8   | 8                                    |
| MOHAMAD SHUKRI BIN ZAINAL ABIDIN | ACRG   | 1   | 2     | 2   | 4                                    |
| LIM CHENG SIONG                  | ACRG   |     | 3     | 2   | 5                                    |
| ZAHARUDDIN BIN MOHAMED           | ACRG   |     |       | 4   | 4                                    |
| YAHAYA BIN MD SAM                | ACRG   |     | 1     | 3   | 4                                    |
| SOPHAN WAHYUDI BIN NAWAWI        | ACRG   | 1   | 1     | 2   | 3                                    |
| MOHD ARIFFANAN MOHD BASRI        | ACRG   | 2   |       | 1   | 1                                    |
| NURUL ADILLA MOHD SUBHA          | ACRG   |     | 2     | 1   | 3                                    |
| ROSBII BIN MAMAT                 | ACRG   |     |       | 2   | 2                                    |
| SHAH DAN BIN SUDIN               | ACRG   |     |       | 1   | 1                                    |
| SALINDA BINTI BUYAMIN            | ACRG   |     |       | 1   | 1                                    |
| FATIMAH SHAM BT. ISMAIL          | ACRG   |     | 1     |     | 1                                    |
| MOHAMAD KAMAL B. A. RAHIM        | ARFMRG | 1   | 3     | 10  | 13                                   |
| NOOR ASNIZA BINTI MURAD          | ARFMRG | 2   | 1     | 1   | 2                                    |
| MOHAMAD RIJAL BIN HAMID          | ARFMRG |     |       | 3   | 3                                    |
| NOOR ASMAWATI BINTI SAMSURI      | ARFMRG |     |       | 3   | 3                                    |
| FARID BIN ZUBIR                  | ARFMRG | 2   |       | 1   | 1                                    |
| MOHD FAIRUS BIN MOHD YUSOFF      | ARFMRG |     | 1     | 1   | 2                                    |
| OSMAN BIN AYOP                   | ARFMRG | 2   |       |     | 0                                    |
| YOU KOK YEOW                     | ARG    |     | 1     | 2   | 3                                    |
| MOKHTAR HARUN                    | ARG    |     |       | 2   | 2                                    |
| RASHIDAH@SITI SAEDAH BINTI ARSAT | ARG    |     |       | 1   | 1                                    |
| RUBITA BINTI SUDIRMAN            | bMIE   |     | 1     | 4   | 5                                    |
| MOHD AFZAN BIN OTHMAN            | bMIE   | 4   | 1     |     | 1                                    |
| FAUZAN KHAIRI BIN CHE HARUN      | bMIE   |     | 1     | 2   | 3                                    |
| EILEEN SU LEE MING               | bMIE   |     | 2     | 1   | 3                                    |
| PUSPA INAYAT BT. KHALID          | bMIE   |     | 1     | 1   | 2                                    |
| MOHD AZHAR BIN ABDUL RAZAK       | bMIE   |     |       | 1   | 1                                    |
| NOR AINI BINTI ZAKARIA           | bMIE   |     |       | 1   | 1                                    |
| NORLAILI BINTI MAT SAFRI         | bMIE   |     |       | 1   | 1                                    |
| NASRUL HUMAIMI BIN MAHMOOD       | bMIE   |     | 1     |     | 1                                    |
| HAZLINA BT. SELAMAT              | CAIRO  | 3   |       | 1   | 1                                    |
| YEONG CHI FAI                    | CAIRO  | 2   | 1     |     | 1                                    |
| AHMAD 'ATHIF BIN MOHD FAUDZI     | CAIRO  | 1   | 1     |     | 1                                    |
| KUMERESAN A/L A. DANAPALASINGAM  | CAIRO  |     |       | 2   | 2                                    |
| NORZANAH BT. ROSMIN              | CEES   | 5   | 2     | 1   | 3                                    |
| ZAINAL BIN SALAM                 | CEES   |     |       | 6   | 6                                    |
| MD. PAUZI BIN ABDULLAH           | CEES   | 1   | 3     | 1   | 4                                    |

|                                       |       |   |   |    |    |
|---------------------------------------|-------|---|---|----|----|
| DALILA BT MAT SAID                    | CEES  | 1 |   | 3  | 3  |
| SITI MAHERAH BINTI HUSSIN             | CEES  | 3 |   |    | 0  |
| KAMALUDIN BIN MOHAMAD YUSOF           | CNETs |   | 3 | 7  | 10 |
| SHARIFAH KAMILAH BT. SYED YUSOF       | CNETs |   |   | 7  | 7  |
| SHARIFAH HAFIZAH BT. SYED ARIFFIN     | CNETs |   |   | 6  | 6  |
| MUHAMMAD ARIFF BIN BAHARUDIN          | CNETs | 3 |   |    | 0  |
| NIK NOORDINI BT NIK ABD MALIK         | CNETs | 1 |   | 1  | 1  |
| NURUL MU'AZZAH BINTI ABDUL LATIFF     | CNETs |   |   | 1  | 1  |
| YUSMEERAZ BINTI YUSOF                 | CoNE  | 3 |   | 3  | 3  |
| SUHAILA BINTI ISAAK                   | CoNE  | 4 | 1 | 1  | 2  |
| NURUL EZAILA BINTI ALIAS              | CoNE  | 4 | 2 |    | 2  |
| MICHAEL TAN LOONG PENG                | CoNE  |   | 1 | 4  | 5  |
| RAZALI BIN ISMAIL                     | CoNE  |   |   | 4  | 4  |
| SUHANA BINTI MOHAMED SULTAN           | CoNE  | 1 | 1 | 1  | 2  |
| USMAN ULLAH SHEIKH                    | DSIP  | 7 | 1 | 3  | 4  |
| SYED ABDUL RAHMAN BIN SYED ABU BAKAR  | DSIP  | 5 |   | 5  | 5  |
| AB AL-HADI BIN AB RAHMAN              | DSIP  | 4 | 4 | 2  | 6  |
| MUHAMMAD MUN'IM BIN AHMAD ZABIDI      | DSIP  | 9 |   |    | 0  |
| AHMAD ZURI B SHA'AMERI                | DSIP  | 2 | 3 | 3  | 6  |
| ZAID BIN OMAR                         | DSIP  |   |   | 2  | 2  |
| MUSA BIN MOHD MOKJI                   | DSIP  |   |   | 1  | 1  |
| MOHD HAFIZI BIN AHMAD                 | IVAT  | 4 | 3 | 3  | 6  |
| LAU KWAN YIEW                         | IVAT  | 4 | 2 | 2  | 4  |
| ZULKURNAIN BIN ABDUL MALEK            | IVAT  |   | 1 | 6  | 7  |
| NOR AZLINDA BT. AHMAD                 | IVAT  | 4 |   | 2  | 2  |
| ZURAIMY BIN ADZIS                     | IVAT  | 1 | 1 | 2  | 3  |
| MOHAMED AFENDI BIN MOHAMED PIAH       | IVAT  |   |   | 3  | 3  |
| MONA RIZA BT. MOHD ESA                | IVAT  | 1 | 1 |    | 1  |
| ZULKARNAIN BIN AHMAD NOORDEN          | IVAT  |   |   | 1  | 1  |
| SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | LCRG  |   | 1 | 11 | 12 |
| NADIATULHUDA BINTI ZULKIFLI           | LCRG  | 1 |   | 3  | 3  |
| ASRUL IZAM BIN AZMI                   | LCRG  |   | 3 |    | 3  |
| MOHD HANIFF BIN IBRAHIM               | LCRG  |   |   | 2  | 2  |
| MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | LCRG  | 2 |   |    | 0  |
| ARNIDZA BINTI RAMLI                   | LCRG  | 2 |   |    | 0  |
| ABU SAHMAH BIN MOHD SUPA'AT           | LCRG  |   |   | 1  | 1  |
| MOHD RASHIDI BIN SALIM                | LCRG  | 1 |   |    | 0  |
| AHMAD SHARMI BIN ABDULLAH             | LCRG  | 1 |   |    | 0  |
| MOHD RIDZUAN BIN AHMAD                | MNSE  | 1 |   | 1  | 1  |
| AMIRJAN BIN NAWABJAN                  | MNSE  | 1 |   |    | 0  |
| MASTURA SHAFINAZ BINTI ZAINAL ABIDIN  | MNSE  |   | 1 |    | 1  |
| MOHD AMRI BIN MD. YUNUS               | MNSE  |   | 1 |    | 1  |
| TAN CHEE WEI                          | PEDG  | 4 |   | 4  | 4  |
| SHAHRRIN BIN MD AYOB                  | PEDG  | 3 | 1 | 2  | 3  |
| NAZIHA BINTI AHMAD AZLI               | PEDG  | 4 |   | 2  | 2  |

|                                       |          |   |   |    |    |
|---------------------------------------|----------|---|---|----|----|
| MOHD JUNAIDI BIN ABDUL AZIZ           | PEDG     | 2 |   | 2  | 2  |
| NIK RUMZI BIN NIK IDRIS               | PEDG     |   |   | 3  | 3  |
| MOHD RODHI BIN SAHID                  | PEDG     |   |   | 3  | 3  |
| AWANG BIN JUSOH                       | PEDG     |   |   | 1  | 1  |
| NORJULIA MOHAMAD NORDIN               | PEDG     | 1 |   |    | 0  |
| MOHD WAZIR BIN MUSTAFA                | PERG     |   |   | 15 | 15 |
| MOHD HAFIZ BIN HABI BUDDIN            | PERG     | 5 |   | 4  | 4  |
| JASRUL JAMANI BIN JAMIAN              | PERG     | 5 |   | 2  | 2  |
| AZHAR BIN KHAIRUDDIN                  | PERG     |   | 1 | 3  | 4  |
| MADIHAH BINTI MD RASID                | PERG     | 2 | 1 |    | 1  |
| AHMAD SAFAWI BIN MOKHTAR              | PERG     |   | 1 | 1  | 2  |
| SAIFULNIZAM BIN ABD. KHALID           | PERG     | 1 |   | 1  | 1  |
| MOHD FADLI BIN RAHMAT                 | PERG     |   |   | 1  | 1  |
| MOHD FUAD BIN RAHMAT                  | PROTOM-i |   |   | 6  | 6  |
| LEOW PEI LING                         | PROTOM-i |   | 2 | 3  | 5  |
| MOHAMAD HAFIS IZRAN BIN ISHAK         | PROTOM-i |   | 2 | 2  | 4  |
| MOHAMED SULTAN BIN MOHAMED ALI        | PROTOM-i | 1 | 1 | 1  | 2  |
| YUSRI B MD. YUNOS                     | PROTOM-i |   |   | 3  | 3  |
| HERMAN BIN WAHID                      | PROTOM-i |   | 2 | 1  | 3  |
| HERLINA BINTI ABDUL RAHIM             | PROTOM-i |   |   | 3  | 3  |
| ANITA BINTI AHMAD                     | PROTOM-i |   | 1 | 1  | 2  |
| SALLEHUDDIN BIN IBRAHIM               | PROTOM-i |   |   | 2  | 2  |
| SHAFISHUHAZA SAHLAN                   | PROTOM-i |   | 1 |    | 1  |
| AZLI BIN YAHYA                        | STAR     |   | 4 | 2  | 6  |
| NOR HISHAM BIN KHAMIS                 | STAR     | 3 | 1 | 1  | 2  |
| ROZEHA BT. A. RASHID                  | TeSS     | 2 |   | 3  | 3  |
| MUHAMMAD NADZIR BIN MARSONO           | VeCAD    | 4 | 1 | 13 | 14 |
| MOHAMED KHALIL BIN HJ MOHD HANI       | VeCAD    |   |   | 4  | 4  |
| NORLINA BINTI PARAMAN                 | VeCAD    | 3 |   |    | 0  |
| SHAIKH NASIR @ NASIR BIN SHAikh HUSIN | VeCAD    |   | 1 | 1  | 2  |
| SHARUL KAMAL BIN A. RAHIM             | WCC      |   | 4 | 9  | 13 |
| MOHD HAIZAL BIN JAMALUDDIN            | WCC      | 2 | 2 | 8  | 10 |
| THAREK BIN ABDUL RAHMAN               | WCC      |   | 2 | 8  | 10 |
| NORHUDAH BT. SEMAN                    | WCC      |   | 2 | 5  | 7  |
| LEOW CHEE YEN                         | WCC      |   | 2 | 5  | 7  |
| RAZALI BIN NGAH                       | WCC      | 1 |   | 4  | 4  |
| JAFRI BIN DIN                         | WCC      |   |   | 5  | 5  |

Table 1.4: Number of postdoc students (Section D8) in 2018

| NAME                             | CITIZENSHIP<br>(LOCAL/FOR<br>EIGN) | COUNTRY                        | FIRST<br>APPOINTMEN<br>T<br>DATE | CURRENT<br>APPOINTMEN<br>T<br>DATE | END DATE   |
|----------------------------------|------------------------------------|--------------------------------|----------------------------------|------------------------------------|------------|
| OSAYD M. T. KHARRAZ              | FOREIGN                            | PALESTINE                      | 01/08/2016                       | 01/01/2018                         | 31/12/2019 |
| NURUL ASHIKIN BINTI ABDUL KADIR  | LOCAL                              | MALAYSIA                       | 01/03/2017                       | 05/09/2018                         | 04/03/2019 |
| AMELIA BINTI AHMAD KHALILI       | LOCAL                              | MALAYSIA                       | 01/07/2017                       | 01/07/2017                         | 30/06/2018 |
| AHMED MOHAMMED MOHAMMED AL-SAMAN | FOREIGN                            | YEMEN                          | 02/07/2017                       | 02/07/2018                         | 01/07/2019 |
| CHIN VUN JACK                    | LOCAL                              | MALAYSIA                       | 01/06/2018                       | 01/06/2018                         | 31/05/2019 |
| ALI HOSSEINGHOLIPOURASL          | FOREIGN                            | ISLAMIC<br>REPUBLIC OF<br>IRAN | 01/07/2018                       | 01/07/2018                         | 30/06/2020 |
| ALI REZA MORADI                  | FOREIGN                            | ISLAMIC<br>REPUBLIC OF<br>IRAN | 01/07/2018                       | 01/07/2018                         | 30/06/2020 |
| AMIRREZA NADERIPOUR              | FOREIGN                            | ISLAMIC<br>REPUBLIC OF<br>IRAN | 01/07/2018                       | 01/07/2018                         | 30/06/2020 |

Table 1.5: E1(a) Patent granted in 2018

| NO. | PATENT<br>NO.   | PATENT NAME   | RESEARCHER                  | DEPT. | RG       |
|-----|-----------------|---|-----------------------------|-------|----------|
| 1   | MY-<br>164706-A | SYSTEM AND METHOD TO DETERMINE DISTANCE OF<br>LIGHTNING                         | ZULKURNAIN B.<br>ABD. MALEK | POWER | IVAT     |
| 2   | MY-<br>165308-A | AN IMPROVED HUMANOID ROBOT  | ROSBIN BIN<br>MAMAT         | CMED  | ACRG     |
| 3   | MY-<br>165317-A | ETHERNET BASED OPTICAL TOMOGRAPHY SYSTEM  | RUZAIRI BIN<br>ABDUL RAHIM  | CMED  | PROTOM-i |
| 4   | MY-<br>166313-A | APPARATUS AND METHOD FOR PREPARATION OF OPTICAL<br>FIBRE                        | RUZAIRI BIN<br>ABDUL RAHIM  | CMED  | PROTOM-i |
| 5   | MY-<br>166684-A | A NON-INVASIVE CUFF-LESS BLOOD PRESSURE READER<br>SYSTEM AND A METHOD THEREOF   | RUZAIRI BIN<br>ABDUL RAHIM  | CMED  | PROTOM-i |
| 6   | MY-<br>166709-A | METHODS AND SYSTEMS FOR REAL-TIME IMAGE<br>RECONSTRUCTION                       | RUZAIRI BIN<br>ABDUL RAHIM  | CMED  | PROTOM-i |
| 7   | MY-<br>167164-A | OPTICAL TOMOGRAPHY SYSTEM WITH REMOTE COMPUTER<br>CONTROL                       | RUZAIRI BIN<br>ABDUL RAHIM  | CMED  | PROTOM-i |
| 8   | MY-<br>165632-A | METHOD FOR USE IN END FACET POLISHING FOR POLYMER<br>ON GLASS OPTICAL WAVEGUIDE | MOHD HANIFF<br>BIN IBRAHIM  | COMM  | LCRG     |

|    |             |  |                                       |      |          |
|----|-------------|--|---------------------------------------|------|----------|
| 9  | MY-165683-A | MULTIMODE INTERFERENCE THERMO-OPTIC SWITCH WITH TRIPLE HEATERS CONFIGURATION                                   | MOHD HANIFF BIN IBRAHIM               | COMM | LCRG     |
| 10 | MY-166312-A | SERIES KOCH DIPOLE ANTENNA ARRAYS  | MOHAMAD KAMAL B. A. RAHIM             | COMM | ARFMG    |
| 11 | MY-166747-A | MICROSTRIP PATCH ANTENNA ARRAY FOR WIRELESS COMMUNICATIONS   | MOHAMAD KAMAL B. A. RAHIM             | COMM | ARFMG    |
| 12 | MY-165492-A | MEASUREMENT OF GAS VOLUMETRIC FLOW RATE IN GAS/LIQUID MIXTURE USING OPTICAL TOMOGRAPHY: MATHEMATICAL MODELLING | YUSRI B MD. YUNOS                     | COMM | PROTOM-i |
| 13 | MY-167748-A | ARTIFICIAL MAGNETIC CONDUCTOR USING A DEFECTIVE GROUND STRUCTURE   | SHARUL KAMAL BIN ABDUL RAHIM          | COMM | WCC      |
| 14 | MY-168721-A | AN OPTOELECTRONIC MIXER SYSTEM   | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM | LCRG     |
| 15 | MY-168858-A | ANTENNA INTEGRATED WITH BAND PASS FILTER FOR FREQUENCY AGILE OPERATION   | MUHAMMAD RAMLEE BIN KAMARUDIN         | COMM | WCC      |
| 16 | MY-165764-A | ACTIVE INDUCTOR CIRCUIT HAVING TUNEABLE INDUCTANCE   | ABU KHARI BIN A'AIN                   | ECE  | VeCAD    |

Table 1.6: E1 (b) Patent filed in 2018

| NO. | PATENT ID NO.  | PATENT NAME   | RESEARCHER             | DEPT. | RG   |
|-----|----------------|---|------------------------|-------|------|
| 1   | PI 2018 702393 | LIQUID CAPACITANCE DETECTOR USING AN INTEGRATED MICROFLUIDIC-MICRONEEDLE SYSTEM | MOHD RIDZUAN BIN AHMAD | CMED  | MNSE |

Table 1.7: E4. IPR other than patent in 2018

| NO | TYPE      | ISBN NO.     | TITLE/PRODUCT                                  | RESEARCHER            | DEPT. | RG   |
|----|-----------|--------------|--|-----------------------|-------|------|
| 1  | Copyright | LY2018006353 | SOLAR POWERED CAR COOLING SYSTEM USING PELTIER | NORZANAH BINTI ROSMIN | POWER | CEES |
| 2  | Copyright | LY2018006173 | TIDAL ENERGY USING H-PASSAGE DAM               | NORZANAH BINTI ROSMIN | POWER | CEES |
| 3  | Copyright | LY2018006167 | TIDAL ENERGY USING DOUBLE-EMPTYING SCHEME      | NORZANAH BINTI ROSMIN | POWER | CEES |

|    |                    |                |   |                               |       |          |
|----|--------------------|----------------|---|-------------------------------|-------|----------|
| 4  | Copyright          | LY2018006181   | TIDAL ENERGY USING SINGLE-EMPTYING SCHEME   | NORZANAH BINTI ROSMIN         | POWER | CEES     |
| 5  | Copyright          | LY2018006577   | AIR-CONDITIONER SMART BOX   | NORZANAH BINTI ROSMIN         | POWER | CEES     |
| 6  | Copyright          | LY2018006371   | DEVELOPMENT OF DISTANCE RELAY CHARACTERISTIC TO IMPROVE POWER SYSTEM PROTECTION   | MOHD HAFIZ BIN HABI BUDDIN    | POWER | PERG     |
| 7  | Copyright          | LY2018006172   | OPTIMIZATION TOOL FOR STAND ALONE PHOTOVOLTAIC-BATTERY SYSTEM AND STAND ALONE PHOTOVOLTAIC-BATTERY-HYDROGEN PRODUCTION SYSTEM   | HASIMAH BTE ABDUL RAHMAN      | POWER | CEES     |
| 8  | Copyright          | LY2018006133   | SECUREZY: DOOR SECURITY SYSTEM WITH MOBILE APPLICATION  | SITI MAHERAH BINTI HUSSIN     | POWER | CEES     |
| 9  | Copyright          | LY2018006138   | FYNLUX: ENERGY MANAGEMENT SYSTEM FOR AIR-CONDITIONER SYSTEM   | SITI MAHERAH BINTI HUSSIN     | POWER | CEES     |
| 10 | Copyright          | LY2018006198   | DC BREAKDOWN PERFORMANCE OF SILICA AND ZIRCONIA BASED POLYETHYLENE NANOCOMPOSITES   | LAU KWAN YIEW                 | POWER | IVAT     |
| 11 | Copyright          | LY2018006199   | DC BREAKDOWN CHARACTERISTICS OF POLYETHYLENE/SILICA NANOCOMPOSITES UPON NON-ISOTHERMAL CRYSTALLIZATION                          | LAU KWAN YIEW                 | POWER | IVAT     |
| 12 | Utility Innovation | UI 2018 700280 | A FAILSAFE PERMANENT FAULT INDICATOR ARRANGEMENT  | ZURAIMY BIN ADZIS             | POWER | IVAT     |
| 13 | Trademark          | 2018065830     | PVEDUKIT  | ZULKARNAIN BIN AHMAD NOORDEEN | POWER | IVAT     |
| 14 | Copyright          | LY2018002357   | WORKING PRINCIPLE - SYSTEM ALGORITHM FOR COMMUNICATION AND CONTROL  | AHMAD 'ATHIF BIN MOHD FAUDZI  | CMED  | CAIRO    |
| 15 | Copyright          | LY2018001353   | GLOBAL RANKING GENETIC ALGORITHM GRGA   | HAZLINA BINTI SELAMAT         | CMED  | CAIRO    |
| 16 | Copyright          | LY2018003911   | A METHOD TO CALCULATE PARAMETERS VALUE AND EVALUATION OF HUMAN DRIVING SKILL INDEX FOR HUMAN ADAPTIVE MECHATRONICS APPLICATIONS | MOHAMAD HAFIS IZRAN BIN ISHAK | CMED  | PROTOM-i |
| 17 | Copyright          | LY2018006265   | A METHOD TO CALCULATE THE DEGREE OF ANGLE FOR SIMPLE CURVE INTENDED FOR CURVING LINE  | MOHAMAD HAFIS IZRAN BIN ISHAK | CMED  | PROTOM-i |
| 18 | Copyright          | LY2018003905   | AUTOMATED DRYING AIR AND LIQUID CIRCULATION OF A HONEY DEHYDRATOR SYSTEM  | MOHD AMRI BIN MD. YUNUS       | CMED  | MNSE     |

|    |           |              |   |                                       |      |          |
|----|-----------|--------------|---|---------------------------------------|------|----------|
| 19 | Copyright | LY2018006090 | PULSE SENSOR FOR DETECTING DROWSY DRIVER  | HERLINA BINTI ABDUL RAHIM             | CMED | PROTOM-i |
| 20 | Copyright | LY2018006087 | SECURITY MANAGEMENT SYSTEM: BOOK DATA   | HERLINA BINTI ABDUL RAHIM             | CMED | PROTOM-i |
| 21 | Copyright | LY2018006105 | INTELLIGENT ENERGY SAVING LIGHT   | HERLINA BINTI ABDUL RAHIM             | CMED | PROTOM-i |
| 22 | Copyright | LY2018006098 | RFID SECURITY MANAGEMENT SYSTEM: SOURCE CODE FOR PRINT  | HERLINA BINTI ABDUL RAHIM             | CMED | PROTOM-i |
| 23 | Copyright | LY2018006088 | IOT BASED HYBRID SOLAR MONITORING SYSTEM  | HERLINA BINTI ABDUL RAHIM             | CMED | PROTOM-i |
| 24 | Copyright | LY2018006107 | RFID SECURITY MANAGEMENT SYSTEM: SOURCE CODE FOR LOGIN  | HERLINA BINTI ABDUL RAHIM             | CMED | PROTOM-i |
| 25 | Copyright | LY2018006114 | RFID SECURITY MANAGEMENT SYSTEM: SOURCE CODE FOR BOOK (GUI)   | HERLINA BINTI ABDUL RAHIM             | CMED | PROTOM-i |
| 26 | Copyright | LY2018006229 | INTELLIGENT CONVOLUTIONAL NEURAL NETWORK OF ADAPTIVE RED AND BLUE CHROMATIC MAP AND NORMALIZED DIFFERENCE INDEX SEGMENTATION TECHNIQUES FOR PINEAPPLE FRUIT | FATIMAH SHAM BT. ISMAIL               | CMED | CAIRO    |
| 27 | Copyright | LY2018001363 | FIBER OPTIC HANDS-ON TRAINING LAB SHEET: MEASUREMENT OF FIBER SPECTRAL ATTENUATION USING THE CUTBACK METHOD   | ASRUL IZAM BIN AZMI                   | COMM | LCRG     |
| 28 | Copyright | LY2018003893 | IOTWAVE: A COMPLETE END-TO-END INTERNET OF THINGS IOT PLATFORM  | MOHD. ADIB BIN SARIJARI               | COMM | TESS     |
| 29 | Copyright | LY2018006347 | PYTHON CODE FOR ASSESSING IMPACT OF REGIONAL DISASTER ON OPTICAL NETWORK  | MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | COMM | LCRG     |
| 30 | Copyright | LY2018006231 | CHARACTERIZATION AND MODELING OF SPARSE OUTDOOR UTRAWIDEBAND CHANNEL  | RAZALI BIN NGAH                       | COMM | WCC      |
| 31 | Copyright | LY2018006268 | EVALUATION FORM FOR SOFTWARE ASSIGNMENT ASSESSING SEVERAL PROGRAM OUTCOMES  | NADIATULHUDA BINTI ZULKIFLI           | COMM | LCRG     |
| 32 | Copyright | LY2018006191 | EVALUATION FORM FOR GROUP ASSIGNMENT BASED ON SEVERAL DELIVERABLES AND PROGRAM OUTCOMES   | NADIATULHUDA BINTI ZULKIFLI           | COMM | LCRG     |
| 33 | Copyright | LY2018006992 | OPTIMAL POWER ALLOCATION ALGORITHM FOR SIMULTANEOUS WIRELESS INFORMATION AND POWER TRANSFER VIRTUAL FULL DUPLEX NETWORK                                     | LEOW CHEE YEN                         | COMM | WCC      |

|    |           |              |  |                                |      |       |
|----|-----------|--------------|--|--------------------------------|------|-------|
| 34 | Copyright | LY2018006993 | ANTENNA SELECTION ALGORITHM FOR INTER-RELAY INTERFERENCE MITIGATION                          | LEOW CHEE YEN                  | COMM | WCC   |
| 35 | Copyright | LY2018006413 | FLEXIBLE FORCE SENSOR UTILIZING REDUCED GRAPHENE OXIDE ON POLYDIMETHYLSILOXANE FILM          | SHAHARIN FADZLI BIN ABD RAHMAN | ECE  | MNSE  |
| 36 | Copyright | LY2018006377 | IDENTIFICATION OF BANANA RIPENESS LEVEL USING GRAPHENE-BASED ARRAY SENSOR                    | SHAHARIN FADZLI BIN ABD RAHMAN | ECE  | MNSE  |
| 37 | Copyright | LY2018006411 | NAIVE BAYES LOOKUP TABLE MODEL (NBTABLE PROGRAM)   | ISMAHANI BINTI ISMAIL          | ECE  | VeCAD |
| 38 | Copyright | LY2018006414 | N-GRAM FEATURE EXTRACTION  | ISMAHANI BINTI ISMAIL          | ECE  | VeCAD |
| 39 | Copyright | LY2018006381 | INFORMATION GAIN FEATURE SELECTION   | ISMAHANI BINTI ISMAIL          | ECE  | VeCAD |
| 40 | Copyright | LY2018006378 | NAIVE BAYES CLASSIFICATION   | ISMAHANI BINTI ISMAIL          | ECE  | VeCAD |
| 41 | Copyright | LY2018006351 | DOMAIN KNOWLEDGE IN FORM OF SNORT SIGNATURES   | ISMAHANI BINTI ISMAIL          | ECE  | VeCAD |
| 42 | Copyright | LY2018006369 | PERL PROGRAM TO EXTRACT THRU FUNCTION EXTRACTION FROM REGISTER TRANSFER LEVEL DESCRIPTION    | NORLINA BINTI PARAMAN          | ECE  | VeCAD |
| 43 | Copyright | LY2018006142 | CLICKME IS A WEB SYSTEM DEVELOPED FOR INTERACTIVE LEARNING BETWEEN INSTRUCTORS AND STUDENTS. | FAUZAN KHAIRI BIN CHE HARUN    | ECE  | BMIE  |
| 44 | Copyright | LY2018006123 | PORTABLE HOTSPOT WITH INTERGRATED CLICKME INTERACTIVE LEARNING SYSTEM USING RASPBERRY PI 3   | FAUZAN KHAIRI BIN CHE HARUN    | ECE  | BMIE  |
| 45 | Copyright | LY2018006165 | SMART URBAN GARDENING COMPANION SYSTEM - THE METHOD AND IMPLEMENTATION                       | SUHANA BINTI MOHAMED SULTAN    | ECE  | CONE  |
| 46 | Copyright | LY2018006984 | C PROGRAM TO READ HALL-EFFECT SENSOR AT ADC PORT USING MICROCONTROLLER PIC16F                | MOHD SHAHRIZAL BIN RUSLI       | ECE  | VeCAD |
| 47 | Copyright | LY2018006987 | VB.NET PROGRAM TO INITIALIZE CONNECTION WITH PIC MICROCONTROLLER PIC16F VIA ZIGBEE MODULE    | MOHD SHAHRIZAL BIN RUSLI       | ECE  | VeCAD |

|    |           |              |   |                          |     |       |
|----|-----------|--------------|---|--------------------------|-----|-------|
| 48 | Copyright | LY2018006989 | VB.NET PROGRAM FOR VERIFICATION OF CONNECTION WITH SENSOR NODE  | MOHD SHAHRIZAL BIN RUSLI | ECE | VeCAD |
| 49 | Copyright | LY2018006990 | VB.NET PROGRAM TO PROCESS RECEIVED DATA FROM SENSOR NODE AND STORE DATA IN MySQL DATABASE                   | MOHD SHAHRIZAL BIN RUSLI | ECE | VeCAD |
| 50 | Copyright | LY2018006991 | VB.NET GRAPHICAL USER INTERFACE (GUI) TO REQUEST DATA MEASUREMENT FROM SENSOR NODE AND RECEIVE DATA PACKETS | MOHD SHAHRIZAL BIN RUSLI | ECE | VeCAD |

# Appendices

2019

## Appendix 2019

Table 2.1: Masterlist of Section B1

| NO | VOT   | PROJECT LEADER               | DEPT. | RG       | COE   | GRANT NAME                           |
|----|-------|------------------------------|-------|----------|-------|--------------------------------------|
| 1  | 17H41 | AB AL-HADI BIN AB RAHMAN     | ECE   | DSIP     | RG    | TIER 1                               |
| 2  | 05G27 | ABU SAHMAH BIN MOHD SUPA'AT  | COMM  | LCRG     | RG    | UTM TRANSDISCIPLINARY RESEARCH GRANT |
| 3  | 5F137 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED  | COE      | CAIRO | FUNDAMENTAL RESEARCH GRANT SCHEME    |
| 4  | 15J05 | AHMAD RIDHWAN BIN WAHAP      | CMED  | PROTOM-i | RG    | TIER 2                               |
| 5  | 4C296 | AHMAD SHAHIDAN BIN ABDULLAH  | COMM  | TeSS     | RG    | CONTRACT RESEARCH DTD                |
| 6  | 4F820 | AHMAD SHARMI BIN ABDULLAH    | COMM  | LCRG     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME    |
| 7  | 5F209 | AHMAD ZURI B SHA'AMERI       | ECE   | DSIP     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME    |
| 8  | 15J79 | AMIRJAN BIN NAWABJAN         | ECE   | MNSE     | RG    | TIER 2                               |
| 9  | 04G96 | ANITA BINTI AHMAD            | CMED  | PROTOM-i | RG    | COLLABORATIVE RESEARCH GRANT         |
| 10 | 05G80 | ARNIDZA BINTI RAMLI          | COMM  | LCRG     | RG    | UTM TRANSDISCIPLINARY RESEARCH GRANT |
| 11 | 17J71 | ASRUL IZAM BIN AZMI          | COMM  | LCRG     | RG    | UTM ENCOURAGEMENT RESEARCH           |
| 12 | 05G47 | AZHAR BIN KHAIRUDDIN         | POWER | PERG     | RG    | UTM TRANSDISCIPLINARY RESEARCH GRANT |
| 13 | 17J69 | CAMALLIL BIN OMAR            | ECE   | BMIE     | RG    | UTM ENCOURAGEMENT RESEARCH           |
| 14 | 4J216 | CHUA TIEN HAN                | COMM  | COE      | WCC   | HICOE RESEARCH GRANT                 |
| 15 | 07G53 | DALILA BINTI MAT SAID        | POWER | COE      | CEES  | UTM TRANSDISCIPLINARY RESEARCH GRANT |
| 16 | 4B244 | EILEEN SU LEE MING           | ECE   | BMIE     | RG    | OTHERS                               |
| 17 | 4B304 | FAUZAN KHAIRI BIN CHE HARUN  | ECE   | BMIE     | RG    | OTHERS                               |
| 18 | 5F258 | FAZILAH BINTI HASSAN         | CMED  | ACRG     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME    |
| 19 | 04G18 | HAZLINA BINTI SELAMAT        | CMED  | COE      | CAIRO | COE RESEARCH GRANT                   |
| 20 | 20H62 | HERLINA BINTI ABDUL RAHIM    | CMED  | PROTOM-i | RG    | TIER 1                               |
| 21 | 05G03 | HERMAN BIN WAHID             | CMED  | PROTOM-i | RG    | COLLABORATIVE RESEARCH GRANT         |
| 22 | 17J38 | ISMAHANI BINTI ISMAIL        | ECE   | VeCAD    | RG    | TIER 2                               |
| 23 | 4C062 | JAFRI BIN DIN                | COMM  | COE      | WCC   | CONTRACT                             |
| 24 | 4C233 | JASRUL JAMANI BIN JAMIAN     | POWER | PERG     | RG    | CONTRACT RESEARCH DTD                |
| 25 | 18J69 | JOHARI BIN KASIM             | ECE   | BMIE     | RG    | UTM ENCOURAGEMENT RESEARCH           |
| 26 | 14J92 | KAMAL BIN KHALIL             | COMM  | STAR     | RG    | TIER 2                               |
| 27 | 06G96 | KAMALUDIN BIN MOHAMAD YUSOF  | COMM  | CNets    | RG    | UTM TRANSDISCIPLINARY RESEARCH GRANT |

| NO | VOT   | PROJECT LEADER                       | DEPT. | RG       | COE   | GRANT NAME                          |
|----|-------|--------------------------------------|-------|----------|-------|-------------------------------------|
| 28 | 4F947 | KHAIRUL HAMIMAH BINTI ABAS           | CMED  | PROTOM-i | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME   |
| 29 | 4C050 | KUMERESAN A/L A. DANAPALASINGAM      | CMED  | COE      | CAIRO | CONTRACT                            |
| 30 | 4B373 | LAU KWAN YIEW                        | POWER | COE      | IVAT  | OTHERS                              |
| 31 | 4C094 | LEOW CHEE YEN                        | COMM  | COE      | WCC   | CONTRACT                            |
| 32 | 04G93 | LEOW PEI LING                        | CMED  | PROTOM-i | RG    | COLLABORATIVE RESEARCH GRANT        |
| 33 | 15J42 | MADIHAH BINTI MD RASID               | POWER | PERG     | RG    | TIER 2                              |
| 34 | 5F177 | MARWAN HADRI BIN AZMI                | COMM  | COE      | WCC   | FUNDAMENTAL RESEARCH GRANT SCHEME   |
| 35 | 4F926 | MASTURA SHAFINAZ BINTI ZAINAL ABIDIN | ECE   | MNSE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME   |
| 36 | 07G63 | MD PAUZI BIN ABDULLAH                | POWER | COE      | CEES  | UTM TRANSDICIPLINARY RESEARCH GRANT |
| 37 | 5F043 | MICHAEL TAN LOONG PENG               | ECE   | CONE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME   |
| 38 | 5F252 | MITRA BINTI MOHD ADDI                | ECE   | BMIE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME   |
| 39 | 17J63 | MOHAMAD HAFIS IZRAN BIN ISHAK        | CMED  | PROTOM-i | RG    | UTM ENCOURAGEMENT RESEARCH          |
| 40 | 06G15 | MOHAMAD KAMAL B. A. RAHIM            | COMM  | ARFMRG   | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT |
| 41 | 06G94 | MOHAMAD RIJAL BIN HAMID              | COMM  | ARFMRG   | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT |
| 42 | 19H29 | MOHAMAD SHUKRI BIN ZAINAL ABIDIN     | CMED  | ACRG     | RG    | TIER 1                              |
| 43 | 06G14 | MOHAMED AFENDI BIN MOHAMED PIAH      | POWER | COE      | IVAT  | UTM TRANSDICIPLINARY RESEARCH GRANT |
| 44 | 4C264 | MOHAMED SULTAN BIN MOHAMED ALI       | CMED  | PROTOM-i | RG    | CONTRACT                            |
| 45 | 03G93 | MOHAMMAD YUSRI BIN HASSAN            | POWER | COE      | CEES  | COE RESEARCH GRANT                  |
| 46 | 17J91 | MOHD AFZAN BIN OTHMAN                | ECE   | BMIE     | RG    | TIER 2                              |
| 47 | 20H22 | MOHD AMRI BIN MD. YUNUS              | CMED  | MNSE     | RG    | TIER 1                              |
| 48 | 17J42 | MOHD ARIFFANAN BIN MOHD BASRI        | CMED  | ACRG     | RG    | TIER 2                              |
| 49 | 5F078 | MOHD AZHAR BIN ABDUL RAZAK           | ECE   | BMIE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME   |
| 50 | 04G68 | MOHD FAIRUS BIN MOHD YUSOFF          | COMM  | ARFMRG   | RG    | COLLABORATIVE RESEARCH GRANT        |
| 51 | 4F817 | MOHD FU'A'AD BIN RAHMAT              | CMED  | PROTOM-i | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME   |
| 52 | 5F120 | MOHD HAFIZ BIN HABI BUDDIN           | POWER | PERG     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME   |
| 53 | 4B377 | MOHD HAFIZI BIN AHMAD                | POWER | COE      | IVAT  | OTHERS                              |

| NO | VOT   | PROJECT LEADER                        | DEPT. | RG     | COE  | GRANT NAME                                  |
|----|-------|---------------------------------------|-------|--------|------|---|
| 54 | 4B308 | MOHD HAIZAL BIN JAMALUDDIN            | COMM  | COE    | WCC  | OTHERS                                      |
| 55 | 5F164 | MOHD HANIFF BIN IBRAHIM               | COMM  | LCRG   | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 56 | 19H22 | MOHD RIDZUAN BIN AHMAD                | CMED  | MNSE   | RG   | TIER 1                                      |
| 57 | 03K11 | MOHD SHAHRIZAL BIN RUSLI              | ECE   | STAR   | RG   | POTENTIAL ACADEMIC STAFF                    |
| 58 | 5F062 | MOHD WAZIR BIN MUSTAFA                | POWER | PERG   | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 59 | 4C215 | MOHD. ADIB BIN SARIJARI               | COMM  | TeSS   | RG   | CONTRACT RESEARCH DTD                       |
| 60 | 4F966 | MONA RIZA BINTI MOHD ESA              | POWER | COE    | IVAT | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 61 | 5F128 | MUHAMMAD AFIQ NURUDIN BIN HAMZAH      | ECE   | CONE   | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 62 | 4C265 | MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | COMM  | LCRG   | RG   | CONTRACT RESEARCH DTD                       |
| 63 | 4C227 | MUHAMMAD ARIFF BIN BAHARUDIN          | COMM  | CNets  | RG   | CONTRACT RESEARCH DTD                       |
| 64 | 15J35 | MUHAMMAD MUN'IM BIN AHMAD ZABIDI      | ECE   | DSIP   | RG   | TIER 2                                      |
| 65 | 4B176 | MUHAMMAD NADZIR BIN MARSONO           | ECE   | VeCAD  | RG   | OTHERS                                      |
| 66 | 4L698 | MUHAMMAD NASIR BIN IBRAHIM            | ECE   | OTHERS | RG   | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME |
| 67 | 15J36 | MUHAMMAD YUSOF BIN MOHD NOOR          | COMM  | LCRG   | RG   | TIER 2                                      |
| 68 | 5F179 | MUSA BIN MOHD MOKJI                   | ECE   | DSIP   | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 69 | 4B385 | NADIATULHUDA BINTI ZULKIFLI           | CMED  | LCRG   | RG   | OTHERS                                      |
| 70 | 06G63 | NIK NOORDINI BT NIK ABD MALIK         | COMM  | CNets  | RG   | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 71 | 4C014 | NIK RUMZI BIN NIK IDRIS               | POWER | PEDG   | RG   | CONTRACT                                    |
| 72 | 4F883 | NOOR ASMAWATI BINTI SAMSURI           | COMM  | ARFMRG | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 73 | 04G72 | NOOR ASNIZA BINTI MURAD               | COMM  | ARFMRG | RG   | COLLABORATIVE RESEARCH GRANT                |
| 74 | 4B382 | NOOR AZLINDA BINTI AHMAD              | POWER | COE    | IVAT | OTHERS                                      |
| 75 | 17J50 | NOR AINI BINTI ZAKARIA                | ECE   | BMIE   | RG   | UTM ENCOURAGEMENT RESEARCH                  |
| 76 | 4F821 | NOR HISHAM BIN KHAMIS                 | COMM  | STAR   | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 77 | 05G79 | NORAZAN BIN MOHD KASSIM               | COMM  | LCRG   | RG   | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 78 | 18J44 | NORHAFIZAH BT RAMLI                   | ECE   | BMIE   | RG   | UTM ENCOURAGEMENT RESEARCH                  |
| 79 | 4L702 | NORHALIZA BINTI HAJI ABD WAHAB        | CMED  | ACRG   | RG   | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME |

| NO  | VOT   | PROJECT LEADER                        | DEPT. | RG       | COE  | GRANT NAME                           |
|-----|-------|---------------------------------------|-------|----------|------|--------------------------------------|
| 80  | 5F048 | NORHUDAH BINTI SEMAN                  | COMM  | COE      | WCC  | FUNDAMENTAL RESEARCH GRANT SCHEME    |
| 81  | 5F160 | NORJULIA BINTI MOHAMAD NORDIN         | POWER | PEDG     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME    |
| 82  | 06G93 | NORLAILI BINTI MAT SAFRI              | ECE   | BMIE     | RG   | UTM TRANSDISCIPLINARY RESEARCH GRANT |
| 83  | 17J97 | NORLINA BINTI PARAMAN                 | ECE   | VeCAD    | RG   | UTM ENCOURAGEMENT RESEARCH           |
| 84  | 06G65 | NORZANAH BINTI ROSMIN                 | POWER | COE      | CEES | UTM TRANSDISCIPLINARY RESEARCH GRANT |
| 85  | 4F968 | NURUL ADILLA BT. MOHD SUBHA           | CMED  | ACRG     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME    |
| 86  | 17J08 | NURUL ASHIKIN BINTI ABDUL KADIR       | ECE   | BMIE     | RG   | TIER 2                               |
| 87  | 5F130 | NURUL EZAILA BINTI ALIAS              | ECE   | CONE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME    |
| 88  | 18J74 | NURUL MU'AZZAH BINTI ABDUL LATIFF     | COMM  | CNets    | RG   | TIER 2                               |
| 89  | 05G78 | NURZAL EFFIYANA BINTI GHAZALI         | COMM  | CNets    | RG   | UTM TRANSDISCIPLINARY RESEARCH GRANT |
| 90  | 5F178 | OMAR BIN ABDUL AZIZ                   | COMM  | TeSS     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME    |
| 91  | 07G26 | OSMAN BIN AYOP                        | COMM  | ARFMRG   | RG   | UTM TRANSDISCIPLINARY RESEARCH GRANT |
| 92  | 05G00 | RASHIDAH@SITI SAEDAH BINTI ARSAT      | COMM  | ARG      | RG   | COLLABORATIVE RESEARCH GRANT         |
| 93  | 4F965 | RAZALI BIN NGAH                       | COMM  | COE      | WCC  | FUNDAMENTAL RESEARCH GRANT SCHEME    |
| 94  | 4C214 | ROZEH A. RASHID                       | COMM  | TeSS     | RG   | CONTRACT RESEARCH DTD                |
| 95  | 5F123 | RUBITA BINTI SUDIRMAN                 | ECE   | BMIE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME    |
| 96  | 19H45 | SAIFULNIZAM BIN ABD. KHALID           | POWER | PERG     | RG   | TIER 1                               |
| 97  | 17H45 | SALINDA BINTI BUYAMIN                 | CMED  | ACRG     | RG   | TIER 1                               |
| 98  | 18J15 | SAMURA BIN ALI                        | COMM  | TeSS     | RG   | UTM ENCOURAGEMENT RESEARCH           |
| 99  | 4B351 | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG     | RG   | OTHERS                               |
| 100 | 4J399 | SHAFISHUHAZA SAHLAN                   | CMED  | PROTOM-i | RG   | PROTOTYPE DEVELOPMENT FUND           |
| 101 | 06G89 | SHAHARIN FADZLI BIN ABD RAHMAN        | ECE   | MNSE     | RG   | UTM TRANSDISCIPLINARY RESEARCH GRANT |
| 102 | 16J83 | SHAHIDATUL SADIAH BINTI ABDUL MANAN   | ECE   | DSIP     | RG   | TIER 2                               |
| 103 | 15J40 | SHahrin bin MD AYOB                   | POWER | PEDG     | RG   | TIER 2                               |

| NO  | VOT   | PROJECT LEADER                       | DEPT. | RG       | COE   | GRANT NAME                                   |
|-----|-------|--------------------------------------|-------|----------|-------|--|
| 104 | 04E19 | SHARIFAH HAFIZAH BINTI SYED ARIFFIN  | COMM  | CNets    | RG    | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY |
| 105 | 05G16 | SHARIFAH KAMILAH BT SYED YUSOF       | COMM  | CNets    | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT          |
| 106 | 4C269 | SHARUL KAMAL BIN ABDUL RAHIM         | COMM  | COE      | WCC   | CONTRACT RESEARCH DTD                        |
| 107 | 19H40 | SITI MAHERAH BINTI HUSSIN            | POWER | COE      | CEES  | TIER 1                                       |
| 108 | 4F959 | SUHAILA BINTI ISAAK                  | ECE   | CONE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME            |
| 109 | 5F053 | SUHANA BINTI MOHAMED SULTAN          | ECE   | CONE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME            |
| 110 | 19H86 | SYED ABDUL RAHMAN BIN SYED ABU BAKAR | ECE   | DSIP     | RG    | TIER 1                                       |
| 111 | 17J76 | SYED NORAZIZUL BIN SYED NASIR        | POWER | PERG     | RG    | UTM ENCOURAGEMENT RESEARCH                   |
| 112 | 19H38 | THAREK BIN ABD RAHMAN                | COMM  | COE      | WCC   | TIER 1                                       |
| 113 | 19H61 | USMAN ULLAH SHEIKH                   | ECE   | DSIP     | RG    | TIER 1                                       |
| 114 | 4B402 | YEONG CHE FAI                        | CMED  | COE      | CAIRO | OTHERS                                       |
| 115 | 06G78 | YUSMEERAZ BINTI YUSOF                | ECE   | CONE     | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT          |
| 116 | 5F084 | YUSRI B MD. YUNOS                    | CMED  | PROTOM-i | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME            |
| 117 | 16J29 | ZAHARAH BINTI JOHARI                 | ECE   | CONE     | RG    | TIER 2                                       |
| 118 | 5F044 | ZAHARUDDIN B MOHAMED                 | CMED  | ACRG     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME            |
| 119 | 3C055 | ZAINAL BIN SALAM                     | POWER | COE      | CEES  | CONTRACT                                     |
| 120 | 4B483 | ZULKARNAIN BIN AHMAD NOORDEN         | POWER | COE      | IVAT  | COLLABORATIVE RESEARCH GRANT NATIONAL        |
| 121 | 4B379 | ZULKURNAIN B. ABD. MALEK             | POWER | COE      | IVAT  | OTHERS                                       |
| 122 | 07G43 | ZURAIMY BIN ADZIS                    | POWER | COE      | IVAT  | UTM TRANSDICIPLINARY RESEARCH GRANT          |

Table 2.2: Masterlist of Section C2 - 2019

| NO. | VOT   | STAFF NAME                   | DEPT. | RG   | COE   | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|------------------------------|-------|------|-------|------------------|--|---------------------------|-----------------|
| 1   | 17H41 | AB AL-HADI BIN AB RAHMAN     | ECE   | DSIP | RG    | UNIVERSITY       | TIER 1                                       | 40,000.00                 | 0.00            |
| 2   | 04E06 | ABU SAHMAH BIN MOHD SUPA'AT  | COMM  | LCRG | RG    | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 0.00            |
| 3   | 05G27 | ABU SAHMAH BIN MOHD SUPA'AT  | COMM  | LCRG | RG    | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 80,000.00                 | 32,000.00       |
| 4   | 07G25 | ABU SAHMAH BIN MOHD SUPA'AT  | COMM  | LCRG | RG    | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 160,000.00                | 0.00            |
| 5   | 01M04 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED  | COE  | CAIRO | UNIVERSITY       | MATCHING GRANT                               | 72,000.00                 | 0.00            |
| 6   | 04E92 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED  | COE  | CAIRO | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 125,600.00      |
| 7   | 04G98 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED  | COE  | CAIRO | UNIVERSITY       | UTM SHINE                                    | 40,000.00                 | 25,300.00       |
| 8   | 08G30 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED  | COE  | CAIRO | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                 | 100,000.00                | 0.00            |
| 9   | 08G31 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED  | COE  | CAIRO | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                 | 40,000.00                 | 0.00            |
| 10  | 16H13 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED  | COE  | CAIRO | UNIVERSITY       | TIER 1                                       | 40,000.00                 | 0.00            |
| 11  | 20H36 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED  | COE  | CAIRO | UNIVERSITY       | TIER 1                                       | 50,000.00                 | 16,100.00       |
| 12  | 4J398 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED  | COE  | CAIRO | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND                   | 20,000.00                 | 20,000.00       |

| NO. | VOT   | STAFF NAME                   | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                            | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|------------------------------|-------|----------|-------|------------------|---------------------------------------|---------------------------|-----------------|
| 13  | 5F137 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED  | COE      | CAIRO | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 129,500.00                | 50,900.00       |
| 14  | 15J05 | AHMAD RIDHWAN BIN WAHAP      | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 2                                | 20,000.00                 | 0.00            |
| 15  | 16J34 | AHMAD SHAHIDAN BIN ABDULLAH  | COMM  | TESS     | RG    | UNIVERSITY       | TIER 2                                | 30,000.00                 | 22,800.00       |
| 16  | 4B458 | AHMAD SHAHIDAN BIN ABDULLAH  | COMM  | TESS     | RG    | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL | 20,000.00                 | 0.00            |
| 17  | 4C296 | AHMAD SHAHIDAN BIN ABDULLAH  | COMM  | TESS     | RG    | PRIVATE          | CONTRACT RESEARCH DTD                 | 88,200.00                 | 88,200.00       |
| 18  | 4F820 | AHMAD SHARMI BIN ABDULLAH    | COMM  | LCRG     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 81,500.00                 | 0.00            |
| 19  | 4J370 | AHMAD ZURI B SHA'AMERI       | ECE   | DSIP     | RG    | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND            | 20,000.00                 | 0.00            |
| 20  | 5F209 | AHMAD ZURI B SHA'AMERI       | ECE   | DSIP     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 76,200.00                 | 37,600.00       |
| 21  | 15J79 | AMIRJAN BIN NAWABJAN         | ECE   | MNSE     | RG    | UNIVERSITY       | TIER 2                                | 30,000.00                 | 16,000.00       |
| 22  | 04G96 | ANITA BINTI AHMAD            | CMED  | PROTOM-i | RG    | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT          | 20,000.00                 | 10,100.00       |
| 23  | 03K21 | ARNIDZA BINTI RAMLI          | COMM  | LCRG     | RG    | UNIVERSITY       | POTENTIAL ACADEMIC STAFF              | 20,000.00                 | 0.00            |
| 24  | 05G80 | ARNIDZA BINTI RAMLI          | COMM  | LCRG     | RG    | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT  | 39,000.00                 | 0.00            |
| 25  | 17J71 | ASRUL IZAM BIN AZMI          | COMM  | LCRG     | RG    | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH            | 30,000.00                 | 18,750.00       |

| NO. | VOT       | STAFF NAME                  | DEPT. | RG   | COE  | SPONSOR CATEGORY | GRANT NAME                            | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|-----------------------------|-------|------|------|------------------|---------------------------------------|---------------------------|-----------------|
| 26  | 05G47     | AZHAR BIN KHAIRUDDIN        | POWER | PERG | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 80,000.00                 | 0.00            |
| 27  | 05G46     | AZHAR BIN KHAIRUDDIN        | POWER | PERG | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 240,000.00                | 0.00            |
| 28  | 17J69     | CAMALLIL BIN OMAR           | ECE   | BMIE | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH            | 30,000.00                 | 12,500.00       |
| 29  | 4B516     | CHUA TIEN HAN               | COMM  | COE  | WCC  | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL | 20,000.00                 | 0.00            |
| 30  | 4J216     | CHUA TIEN HAN               | COMM  | COE  | WCC  | NATIONAL         | HICOE RESEARCH GRANT                  | 119,910.00                | 0.00            |
| 31  | 03G88     | DALILA BINTI MAT SAID       | POWER | COE  | CEES | UNIVERSITY       | UTMSHINE                              | 50,000.00                 | 0.00            |
| 32  | 07G53     | DALILA BINTI MAT SAID       | POWER | COE  | CEES | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 40,000.00                 | 20,500.00       |
| 33  | 17H64     | DALILA BINTI MAT SAID       | POWER | COE  | CEES | UNIVERSITY       | TIER 1                                | 40,000.00                 | 0.00            |
| 34  | 4J347     | DALILA BINTI MAT SAID       | POWER | COE  | CEES | UNIVERSITY       | TRANSLATIONAL RESEARCH@CAMPUS         | 158,200.00                | 0.00            |
| 35  | 4B244     | EILEEN SU LEE MING          | ECE   | BMIE | RG   | PRIVATE          | OTHERS                                | 457,026.00                | 87,552.00       |
| 36  | 4F900     | EILEEN SU LEE MING          | ECE   | BMIE | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 81,000.00                 | 0.00            |
| 37  | 01M1<br>3 | FAUZAN KHAIRI BIN CHE HARUN | ECE   | BMIE | RG   | UNIVERSITY       | MATCHING GRANT                        | 250,000.00                | 92,600.00       |
| 38  | 4B248     | FAUZAN KHAIRI BIN CHE HARUN | ECE   | BMIE | RG   | PRIVATE          | OTHERS                                | 1,033,266.00              | 0.00            |
| 39  | 4B304     | FAUZAN KHAIRI BIN CHE HARUN | ECE   | BMIE | RG   | INTERNATIONAL    | OTHERS                                | 519,464.00                | 24,473.53       |
| 40  | 16J40     | FAZILAH BINTI HASSAN        | CMED  | ACRG | RG   | UNIVERSITY       | TIER 2                                | 20,000.00                 | 20,000.00       |

| NO. | VOT       | STAFF NAME                | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                             | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|---------------------------|-------|----------|-------|------------------|--|---------------------------|-----------------|
| 41  | 5F258     | FAZILAH BINTI HASSAN      | CMED  | ACRG     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME      | 90,000.00                 | 27,000.00       |
| 42  | 04G18     | HAZLINA BINTI SELAMAT     | CMED  | COE      | CAIRO | UNIVERSITY       | COE RESEARCH GRANT                     | 50,000.00                 | 15,600.00       |
| 43  | 4J360     | HAZLINA BINTI SELAMAT     | CMED  | COE      | CAIRO | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND             | 20,000.00                 | 0.00            |
| 44  | 01M0<br>6 | HERLINA BINTI ABDUL RAHIM | CMED  | PROTOM-i | RG    | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 10,000.00                 | 0.00            |
| 45  | 05G02     | HERLINA BINTI ABDUL RAHIM | CMED  | PROTOM-i | RG    | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT           | 20,000.00                 | 20,000.00       |
| 46  | 18H22     | HERLINA BINTI ABDUL RAHIM | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                                 | 40,000.00                 | 0.00            |
| 47  | 20H11     | HERLINA BINTI ABDUL RAHIM | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 22,300.00       |
| 48  | 20H62     | HERLINA BINTI ABDUL RAHIM | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                                 | 100,000.00                | 68,900.00       |
| 49  | 05G03     | HERMAN BIN WAHID          | CMED  | PROTOM-i | RG    | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT           | 20,000.00                 | 17,500.00       |
| 50  | 17H40     | HERMAN BIN WAHID          | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                                 | 40,000.00                 | 0.00            |
| 51  | 15J34     | ISMAHANI BINTI ISMAIL     | ECE   | VeCAD    | RG    | UNIVERSITY       | TIER 2                                 | 20,000.00                 | 0.00            |
| 52  | 17J38     | ISMAHANI BINTI ISMAIL     | ECE   | VeCAD    | RG    | UNIVERSITY       | TIER 2                                 | 30,000.00                 | 26,000.00       |
| 53  | 01M2<br>8 | JAFRI BIN DIN             | COMM  | COE      | WCC   | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 20,000.00                 | 20,000.00       |
| 54  | 4C062     | JAFRI BIN DIN             | COMM  | COE      | WCC   | INTERNATIONAL    | CONTRACT                               | 127,077.39                | 20,498.63       |
| 55  | 4F958     | JAFRI BIN DIN             | COMM  | COE      | WCC   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME      | 98,580.00                 | 67,400.00       |

| NO. | VOT       | STAFF NAME                         | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                             | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|------------------------------------|-------|----------|-------|------------------|--|---------------------------|-----------------|
| 56  | 4J410     | JAFRI BIN DIN                      | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARCH GRANT                   | 85,000.00                 | 16,250.00       |
| 57  | 01M6<br>6 | JASRUL JAMANI<br>BIN JAMIAN        | POWER | PERG     | RG    | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 20,000.00                 | 20,000.00       |
| 58  | 16J59     | JASRUL JAMANI<br>BIN JAMIAN        | POWER | PERG     | RG    | UNIVERSITY       | TIER 2                                 | 30,000.00                 | 17,200.00       |
| 59  | 4C233     | JASRUL JAMANI<br>BIN JAMIAN        | POWER | PERG     | RG    | PRIVATE          | CONTRACT RESEARCH DTD                  | 80,000.00                 | 80,000.00       |
| 60  | 18J69     | JOHARI BIN KASIM                   | ECE   | BMIE     | RG    | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH             | 30,000.00                 | 27,500.00       |
| 61  | 14J92     | KAMAL BIN KHALIL                   | COMM  | STAR     | RG    | UNIVERSITY       | TIER 2                                 | 20,000.00                 | 0.00            |
| 62  | 06G96     | KAMALUDIN BIN MOHAMAD YUSOF        | COMM  | Cnets    | RG    | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT    | 42,000.00                 | 15,200.00       |
| 63  | 4B464     | KAMALUDIN BIN MOHAMAD YUSOF        | COMM  | Cnets    | RG    | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL  | 20,000.00                 | 0.00            |
| 64  | 07G51     | KHAIRUL HAMIMAH BINTI ABAS         | CMED  | PROTOM-i | RG    | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT    | 40,000.00                 | 21,000.00       |
| 65  | 19H79     | KHAIRUL HAMIMAH BINTI ABAS         | CMED  | PROTOM-i | RG    | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 16,000.00       |
| 66  | 4F947     | KHAIRUL HAMIMAH BINTI ABAS         | CMED  | PROTOM-i | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME      | 56,180.00                 | 28,000.00       |
| 67  | 04G76     | KUMERESAN A/L A.<br>DANAPALASINGAM | CMED  | COE      | CAIRO | UNIVERSITY       | UTMSHINE                               | 40,000.00                 | 0.00            |
| 68  | 17H18     | KUMERESAN A/L A.<br>DANAPALASINGAM | CMED  | COE      | CAIRO | UNIVERSITY       | TIER 1                                 | 40,000.00                 | 0.00            |

| NO. | VOT   | STAFF NAME                          | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                           | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|-------------------------------------|-------|----------|-------|------------------|--------------------------------------|---------------------------|-----------------|
| 69  | 4C050 | KUMERESAN A/L A.<br>DANAPALASING AM | CMED  | COE      | CAIRO | PRIVATE          | CONTRACT                             | 86,187.00                 | 0.00            |
| 70  | 03G66 | LAU KWAN YIEW                       | POWER | COE      | IVAT  | UNIVERSITY       | UTMSHINE                             | 50,000.00                 | 0.00            |
| 71  | 16J55 | LAU KWAN YIEW                       | POWER | COE      | IVAT  | UNIVERSITY       | TIER 2                               | 30,000.00                 | 15,350.00       |
| 72  | 4B373 | LAU KWAN YIEW                       | POWER | COE      | IVAT  | INTERNATIONAL    | OTHERS                               | 16,055.20                 | 16,055.20       |
| 73  | 5F158 | LAU KWAN YIEW                       | POWER | COE      | IVAT  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME    | 93,000.00                 | 46,200.00       |
| 74  | 13H12 | LAU KWAN YIEW                       | POWER | COE      | IVAT  | UNIVERSITY       | TIER 1                               | 50,000.00                 | 0.00            |
| 75  | 04G37 | LEOW CHEE YEN                       | COMM  | COE      | WCC   | UNIVERSITY       | HIGH IMPACT RESEARCH GRANT           | 68,500.00                 | 0.00            |
| 76  | 08G83 | LEOW CHEE YEN                       | COMM  | COE      | WCC   | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT         | 40,000.00                 | 0.00            |
| 77  | 19H58 | LEOW CHEE YEN                       | COMM  | COE      | WCC   | UNIVERSITY       | TIER 1                               | 50,000.00                 | 10,700.00       |
| 78  | 4C094 | LEOW CHEE YEN                       | COMM  | COE      | WCC   | INTERNATIONAL    | CONTRACT                             | 656,152.00                | 0.00            |
| 79  | 4J416 | LEOW CHEE YEN                       | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARCH GRANT                 | 85,000.00                 | 63,150.00       |
| 80  | 04G93 | LEOW PEI LING                       | CMED  | PROTOM-i | RG    | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT         | 40,000.00                 | 20,500.00       |
| 81  | 05G01 | LEOW PEI LING                       | CMED  | PROTOM-i | RG    | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT         | 160,000.00                | 0.00            |
| 82  | 06G48 | MADIHAH BINTI MD RASID              | POWER | PERG     | RG    | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT | 40,000.00                 | 0.00            |
| 83  | 15J42 | MADIHAH BINTI MD RASID              | POWER | PERG     | RG    | UNIVERSITY       | TIER 2                               | 20,000.00                 | 0.00            |
| 84  | 03G79 | MARWAN HADRI BIN AZMI               | COMM  | COE      | WCC   | UNIVERSITY       | UTMSHINE                             | 50,000.00                 | 22,000.00       |
| 85  | 18H01 | MARWAN HADRI BIN AZMI               | COMM  | COE      | WCC   | UNIVERSITY       | TIER 1                               | 40,000.00                 | 12,000.00       |

| NO. | VOT   | STAFF NAME                           | DEPT. | RG       | COE  | SPONSOR CATEGORY | GRANT NAME                            | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|--------------------------------------|-------|----------|------|------------------|---------------------------------------|---------------------------|-----------------|
| 86  | 4B468 | MARWAN HADRI BIN AZMI                | COMM  | COE      | WCC  | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL | 20,000.00                 | 0.00            |
| 87  | 4J218 | MARWAN HADRI BIN AZMI                | COMM  | COE      | WCC  | NATIONAL         | HICOE RESEARCH GRANT                  | 119,910.00                | 0.00            |
| 88  | 4J413 | MARWAN HADRI BIN AZMI                | COMM  | COE      | WCC  | NATIONAL         | HICOE RESEARCH GRANT                  | 85,000.00                 | 32,000.00       |
| 89  | 5F177 | MARWAN HADRI BIN AZMI                | COMM  | COE      | WCC  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 69,200.00                 | 38,600.00       |
| 90  | 4F926 | MASTURA SHAFINAZ BINTI ZAINAL ABIDIN | ECE   | MNSE     | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 72,080.00                 | 0.00            |
| 91  | 04G45 | MD PAUZI BIN ABDULLAH                | POWER | COE      | CEES | UNIVERSITY       | UTMSHINE                              | 50,000.00                 | 0.00            |
| 92  | 07G07 | MD PAUZI BIN ABDULLAH                | POWER | COE      | CEES | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 200,000.00                | 0.00            |
| 93  | 07G63 | MD PAUZI BIN ABDULLAH                | POWER | COE      | CEES | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 40,000.00                 | 22,000.00       |
| 94  | 17H32 | MD PAUZI BIN ABDULLAH                | POWER | COE      | CEES | UNIVERSITY       | TIER 1                                | 40,000.00                 | 0.00            |
| 95  | 5F043 | MICHAEL TAN LOONG PENG               | ECE   | CONE     | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 58,200.00                 | 58,200.00       |
| 96  | 5F252 | MITRA BINTI MOHD ADDI                | ECE   | BMIE     | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 100,690.00                | 72,390.00       |
| 97  | 17J63 | MOHAMAD HAFIS IZRAN BIN ISHAK        | CMED  | PROTOM-i | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH            | 30,000.00                 | 17,950.00       |
| 98  | 04G65 | MOHAMAD KAMAL B. A. RAHIM            | COMM  | ARFMRG   | RG   | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT          | 160,000.00                | 0.00            |

| NO. | VOT   | STAFF NAME                       | DEPT. | RG       | COE  | SPONSOR CATEGORY | GRANT NAME                             | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|----------------------------------|-------|----------|------|------------------|--|---------------------------|-----------------|
| 99  | 04G67 | MOHAMAD KAMAL B. A. RAHIM        | COMM  | ARFMRG   | RG   | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT           | 40,000.00                 | 21,600.00       |
| 100 | 06G15 | MOHAMAD KAMAL B. A. RAHIM        | COMM  | ARFMRG   | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT    | 94,000.00                 | 28,600.00       |
| 101 | 06G20 | MOHAMAD KAMAL B. A. RAHIM        | COMM  | ARFMRG   | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT    | 220,000.00                | 0.00            |
| 102 | 16H08 | MOHAMAD KAMAL B. A. RAHIM        | COMM  | ARFMRG   | RG   | UNIVERSITY       | TIER 1                                 | 40,000.00                 | 0.00            |
| 103 | 06G94 | MOHAMAD RIJAL BIN HAMID          | COMM  | ARFMRG   | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT    | 42,000.00                 | 22,000.00       |
| 104 | 19H29 | MOHAMAD SHUKRI BIN ZAINAL ABIDIN | CMED  | ACRG     | RG   | UNIVERSITY       | TIER 1                                 | 45,000.00                 | 0.00            |
| 105 | 06G14 | MOHAMED AFENDI BIN MOHAMED PIAH  | POWER | COE      | IVAT | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT    | 40,000.00                 | 25,000.00       |
| 106 | 07G60 | MOHAMED AFENDI BIN MOHAMED PIAH  | POWER | COE      | IVAT | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT    | 200,000.00                | 200,000.00      |
| 107 | 01M69 | MOHAMED SULTAN BIN MOHAMED ALI   | CMED  | PROTOM-i | RG   | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 10,000.00                 | 10,000.00       |
| 108 | 04G75 | MOHAMED SULTAN BIN MOHAMED ALI   | CMED  | PROTOM-i | RG   | UNIVERSITY       | UTMSHINE                               | 40,000.00                 | 6,000.00        |
| 109 | 04G94 | MOHAMED SULTAN BIN MOHAMED ALI   | CMED  | PROTOM-i | RG   | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT           | 160,000.00                | 0.00            |
| 110 | 05G35 | MOHAMED SULTAN BIN MOHAMED ALI   | CMED  | PROTOM-i | RG   | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT           | 40,000.00                 | 30,000.00       |

| NO. | VOT   | STAFF NAME                     | DEPT. | RG       | COE  | SPONSOR CATEGORY | GRANT NAME                                  | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|--------------------------------|-------|----------|------|------------------|---|---------------------------|-----------------|
| 111 | 17H61 | MOHAMED SULTAN BIN MOHAMED ALI | CMED  | PROTOM-i | RG   | UNIVERSITY       | TIER 1                                      | 39,000.00                 | 0.00            |
| 112 | 4C170 | MOHAMED SULTAN BIN MOHAMED ALI | CMED  | PROTOM-i | RG   | PRIVATE          | CONTRACT RESEARCH DTD                       | 21,200.00                 | 0.00            |
| 113 | 4C264 | MOHAMED SULTAN BIN MOHAMED ALI | CMED  | PROTOM-i | RG   | PRIVATE          | CONTRACT                                    | 20,000.00                 | 20,000.00       |
| 114 | 4C300 | MOHAMED SULTAN BIN MOHAMED ALI | CMED  | PROTOM-i | RG   | PRIVATE          | CONTRACT RESEARCH DTD                       | 784,875.00                | 210,000.00      |
| 115 | 4C301 | MOHAMED SULTAN BIN MOHAMED ALI | CMED  | PROTOM-i | RG   | PRIVATE          | CONTRACT RESEARCH DTD                       | 286,125.00                | 253,500.00      |
| 116 | 4C302 | MOHAMED SULTAN BIN MOHAMED ALI | CMED  | PROTOM-i | RG   | PRIVATE          | CONTRACT RESEARCH DTD                       | 136,500.00                | 136,500.00      |
| 117 | 4L690 | MOHAMED SULTAN BIN MOHAMED ALI | CMED  | PROTOM-i | RG   | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME | 92,220.00                 | 0.00            |
| 118 | 5F081 | MOHAMED SULTAN BIN MOHAMED ALI | CMED  | PROTOM-i | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 90,800.00                 | 54,500.00       |
| 119 | 03G93 | MOHAMMAD YUSRI BIN HASSAN      | POWER | COE      | CEES | UNIVERSITY       | COE RESEARCH GRANT                          | 50,000.00                 | 0.00            |
| 120 | 18H30 | MOHAMMAD YUSRI BIN HASSAN      | POWER | COE      | CEES | UNIVERSITY       | TIER 1                                      | 40,000.00                 | 0.00            |
| 121 | 4J334 | MOHAMMAD YUSRI BIN HASSAN      | POWER | COE      | CEES | UNIVERSITY       | TRANSLATIONA L RESEARCH@CA MPUS             | 94,000.00                 | 0.00            |
| 122 | 17J91 | MOHD AFZAN BIN OTHMAN          | ECE   | BMIE     | RG   | UNIVERSITY       | TIER 2                                      | 29,500.00                 | 13,300.00       |
| 123 | 4J208 | MOHD AFZAN BIN OTHMAN          | ECE   | BMIE     | RG   | UNIVERSITY       | UTM R&D FUND                                | 100,000.00                | 0.00            |
| 124 | 20H22 | MOHD AMRI BIN MD. YUNUS        | CMED  | MNSE     | RG   | UNIVERSITY       | TIER 1                                      | 50,000.00                 | 15,550.00       |

| NO. | VOT       | STAFF NAME                    | DEPT. | RG       | COE  | SPONSOR CATEGORY | GRANT NAME                              | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|-------------------------------|-------|----------|------|------------------|---|---------------------------|-----------------|
| 125 | 4J354     | MOHD AMRI BIN MD. YUNUS       | CMED  | MNSE     | RG   | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND              | 20,000.00                 | 0.00            |
| 126 | 17J42     | MOHD ARIFFANAN BIN MOHD BASRI | CMED  | ACRG     | RG   | UNIVERSITY       | TIER 2                                  | 30,000.00                 | 30,000.00       |
| 127 | 5F078     | MOHD AZHAR BIN ABDUL RAZAK    | ECE   | BMIE     | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME       | 51,000.00                 | 30,500.00       |
| 128 | 04G68     | MOHD FAIRUS BIN MOHD YUSOFF   | COMM  | ARFMRG   | RG   | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT            | 20,000.00                 | 0.00            |
| 129 | 06G18     | MOHD FUA'AD BIN RAHMAT        | CMED  | PROTOM-i | RG   | UNIVERSITY       | UTM TRANSDICIPLIN ARY RESEARCH GRANT    | 200,000.00                | 0.00            |
| 130 | 06G80     | MOHD FUA'AD BIN RAHMAT        | CMED  | PROTOM-i | RG   | UNIVERSITY       | UTM TRANSDICIPLIN ARY RESEARCH GRANT    | 90,000.00                 | 0.00            |
| 131 | 4F817     | MOHD FUA'AD BIN RAHMAT        | CMED  | PROTOM-i | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME       | 121,500.00                | 0.00            |
| 132 | 05G39     | MOHD HAFIZ BIN HABI BUDDIN    | POWER | PERG     | RG   | UNIVERSITY       | UTM TRANSDICIPLIN ARY RESEARCH GRANT    | 80,000.00                 | 0.00            |
| 133 | 4J373     | MOHD HAFIZ BIN HABI BUDDIN    | POWER | PERG     | RG   | UNIVERSITY       | TRANSLATIONA L RESEARCH@CA MPUS         | 61,692.00                 | 0.00            |
| 134 | 5F120     | MOHD HAFIZ BIN HABI BUDDIN    | POWER | PERG     | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME       | 68,000.00                 | 23,500.00       |
| 135 | 01M7<br>3 | MOHD HAFIZI BIN AHMAD         | POWER | COE      | IVAT | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT | 50,000.00                 | 50,000.00       |

| NO. | VOT   | STAFF NAME                 | DEPT. | RG   | COE  | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|----------------------------|-------|------|------|------------------|--|---------------------------|-----------------|
| 136 | 04G81 | MOHD HAFIZI BIN AHMAD      | POWER | COE  | IVAT | UNIVERSITY       | UTMSHINE                                     | 40,000.00                 | 0.00            |
| 137 | 07G05 | MOHD HAFIZI BIN AHMAD      | POWER | COE  | IVAT | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 40,000.00                 | 40,000.00       |
| 138 | 16J61 | MOHD HAFIZI BIN AHMAD      | POWER | COE  | IVAT | UNIVERSITY       | TIER 2                                       | 30,000.00                 | 22,000.00       |
| 139 | 4B340 | MOHD HAFIZI BIN AHMAD      | POWER | COE  | IVAT | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 0.00            |
| 140 | 4B341 | MOHD HAFIZI BIN AHMAD      | POWER | COE  | IVAT | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 0.00            |
| 141 | 4B342 | MOHD HAFIZI BIN AHMAD      | POWER | COE  | IVAT | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 0.00            |
| 142 | 4B377 | MOHD HAFIZI BIN AHMAD      | POWER | COE  | IVAT | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 14,661.67       |
| 143 | 4B383 | MOHD HAFIZI BIN AHMAD      | POWER | COE  | IVAT | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 14,661.67       |
| 144 | 05G20 | MOHD HAIZAL BIN JAMALUDDIN | COMM  | COE  | WCC  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 80,000.00                 | 0.00            |
| 145 | 19H56 | MOHD HAIZAL BIN JAMALUDDIN | COMM  | COE  | WCC  | UNIVERSITY       | TIER 1                                       | 50,000.00                 | 11,000.00       |
| 146 | 4B308 | MOHD HAIZAL BIN JAMALUDDIN | COMM  | COE  | WCC  | PRIVATE          | OTHERS                                       | 20,000.00                 | 0.00            |
| 147 | 4J415 | MOHD HAIZAL BIN JAMALUDDIN | COMM  | COE  | WCC  | NATIONAL         | HICOE RESEARCH GRANT                         | 85,000.00                 | 22,650.00       |
| 148 | 4S134 | MOHD HAIZAL BIN JAMALUDDIN | COMM  | COE  | WCC  | NATIONAL         | SCIENCEFUND                                  | 280,000.00                | 28,000.00       |
| 149 | 5F164 | MOHD HANIFF BIN IBRAHIM    | COMM  | LCRG | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 52,700.00                 | 24,600.00       |
| 150 | 04E82 | MOHD RIDZUAN BIN AHMAD     | CMED  | MNSE | RG   | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 138,460.00                | 138,460.00      |
| 151 | 16H38 | MOHD RIDZUAN BIN AHMAD     | CMED  | MNSE | RG   | UNIVERSITY       | TIER 1                                       | 40,000.00                 | 0.00            |
| 152 | 19H22 | MOHD RIDZUAN BIN AHMAD     | CMED  | MNSE | RG   | UNIVERSITY       | TIER 1                                       | 50,000.00                 | 24,000.00       |

| NO. | VOT       | STAFF NAME               | DEPT. | RG   | COE  | SPONSOR CATEGORY | GRANT NAME                             | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|--------------------------|-------|------|------|------------------|--|---------------------------|-----------------|
| 153 | 03K11     | MOHD SHAHRIZAL BIN RUSLI | ECE   | STAR | RG   | UNIVERSITY       | POTENTIAL ACADEMIC STAFF               | 20,000.00                 | 0.00            |
| 154 | 17J05     | MOHD SHAHRIZAL BIN RUSLI | ECE   | STAR | RG   | UNIVERSITY       | TIER 2                                 | 29,500.00                 | 21,000.00       |
| 155 | 5F062     | MOHD WAZIR BIN MUSTAFA   | POWER | PERG | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME      | 76,000.00                 | 58,000.00       |
| 156 | 01M0<br>5 | MOHD. ADIB BIN SARIJARI  | COMM  | TESS | RG   | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 10,000.00                 | 0.00            |
| 157 | 01M5<br>0 | MOHD. ADIB BIN SARIJARI  | COMM  | TESS | RG   | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 15,000.00                 | 15,000.00       |
| 158 | 01M7<br>4 | MOHD. ADIB BIN SARIJARI  | COMM  | TESS | RG   | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 15,000.00                 | 15,000.00       |
| 159 | 04G41     | MOHD. ADIB BIN SARIJARI  | COMM  | TESS | RG   | UNIVERSITY       | HIGH IMPACT RESEARCH GRANT             | 38,100.00                 | 0.00            |
| 160 | 4C215     | MOHD. ADIB BIN SARIJARI  | COMM  | TESS | RG   | PRIVATE          | CONTRACT RESEARCH DTD                  | 40,604.00                 | 40,604.00       |
| 161 | 4C254     | MOHD. ADIB BIN SARIJARI  | COMM  | TESS | RG   | PRIVATE          | CONTRACT RESEARCH DTD                  | 243,338.00                | 206,837.30      |
| 162 | 4C274     | MOHD. ADIB BIN SARIJARI  | COMM  | TESS | RG   | PRIVATE          | CONTRACT RESEARCH DTD                  | 40,110.00                 | 20,055.00       |
| 163 | 4J402     | MOHD. ADIB BIN SARIJARI  | COMM  | TESS | RG   | UNIVERSITY       | TRANSLATIONA L RESEARCH@CA MPUS        | 163,000.00                | 163,000.00      |
| 164 | 04G19     | MONA RIZA BINTI MOHD ESA | POWER | COE  | IVAT | UNIVERSITY       | COE RESEARCH GRANT                     | 50,000.00                 | 8,800.00        |
| 165 | 05G87     | MONA RIZA BINTI MOHD ESA | POWER | COE  | IVAT | UNIVERSITY       | UTM TRANSDICIPLIN ARY RESEARCH GRANT   | 80,000.00                 | 5,000.00        |

| NO. | VOT       | STAFF NAME                            | DEPT. | RG    | COE  | SPONSOR CATEGORY | GRANT NAME                             | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|---------------------------------------|-------|-------|------|------------------|--|---------------------------|-----------------|
| 166 | 08G88     | MONA RIZA BINTI MOHD ESA              | POWER | COE   | IVAT | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT           | 100,000.00                | 0.00            |
| 167 | 4F966     | MONA RIZA BINTI MOHD ESA              | POWER | COE   | IVAT | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME      | 66,992.00                 | 24,350.00       |
| 168 | 16J87     | MUHAMMAD AFIQ NURUDIN BIN HAMZAH      | ECE   | CONE  | RG   | UNIVERSITY       | TIER 2                                 | 20,000.00                 | 20,000.00       |
| 169 | 5F128     | MUHAMMAD AFIQ NURUDIN BIN HAMZAH      | ECE   | CONE  | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME      | 63,700.00                 | 35,600.00       |
| 170 | 01M6<br>2 | MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | COMM  | LCRG  | RG   | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 15,000.00                 | 15,000.00       |
| 171 | 05G28     | MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | COMM  | LCRG  | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT    | 40,000.00                 | 24,500.00       |
| 172 | 4C265     | MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | COMM  | LCRG  | RG   | PRIVATE          | CONTRACT RESEARCH DTD                  | 30,000.00                 | 30,000.00       |
| 173 | 4C227     | MUHAMMAD ARIFF BIN BAHARUDIN          | COMM  | CNets | RG   | PRIVATE          | CONTRACT RESEARCH DTD                  | 19,163.48                 | 19,163.48       |
| 174 | 4J339     | MUHAMMAD ARIFF BIN BAHARUDIN          | COMM  | CNets | RG   | UNIVERSITY       | TRANSLATIONAL RESEARCH@CAMPUUS         | 32,800.00                 | 0.00            |
| 175 | 4J397     | MUHAMMAD ARIFF BIN BAHARUDIN          | COMM  | CNets | RG   | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND             | 20,000.00                 | 20,000.00       |
| 176 | 15J35     | MUHAMMAD MUN'IM BIN AHMAD ZABIDI      | ECE   | DSIP  | RG   | UNIVERSITY       | TIER 2                                 | 20,000.00                 | 0.00            |
| 177 | 4B176     | MUHAMMAD NADZIR BIN MARSONO           | ECE   | VeCAD | RG   | PRIVATE          | OTHERS                                 | 692,657.00                | 0.00            |

| NO. | VOT       | STAFF NAME                   | DEPT. | RG     | COE | SPONSOR CATEGORY | GRANT NAME                                  | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|------------------------------|-------|--------|-----|------------------|---|---------------------------|-----------------|
| 178 | 5F159     | MUHAMMAD NADZIR BIN MARSONO  | ECE   | VeCAD  | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 62,700.00                 | 27,600.00       |
| 179 | 14J98     | MUHAMMAD NASIR BIN IBRAHIM   | ECE   | OTHERS | RG  | UNIVERSITY       | TIER 2                                      | 20,000.00                 | 0.00            |
| 180 | 4L698     | MUHAMMAD NASIR BIN IBRAHIM   | ECE   | OTHERS | RG  | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME | 118,000.00                | 82,000.00       |
| 181 | 15J36     | MUHAMMAD YUSOF BIN MOHD NOOR | COMM  | LCRG   | RG  | UNIVERSITY       | TIER 2                                      | 20,000.00                 | 0.00            |
| 182 | 18J13     | MUHAMMAD YUSOF BIN MOHD NOOR | COMM  | LCRG   | RG  | UNIVERSITY       | TIER 2                                      | 30,000.00                 | 30,000.00       |
| 183 | 04G71     | MUSA BIN MOHD MOKJI          | ECE   | DSIP   | RG  | UNIVERSITY       | UTMSHINE                                    | 40,000.00                 | 18,500.00       |
| 184 | 5F179     | MUSA BIN MOHD MOKJI          | ECE   | DSIP   | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 64,200.00                 | 31,100.00       |
| 185 | 01M7<br>1 | NADIATULHUDA BINTI ZULKIFLI  | CMED  | LCRG   | RG  | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT      | 15,000.00                 | 15,000.00       |
| 186 | 05G59     | NADIATULHUDA BINTI ZULKIFLI  | CMED  | LCRG   | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT         | 240,000.00                | 0.00            |
| 187 | 05G60     | NADIATULHUDA BINTI ZULKIFLI  | CMED  | LCRG   | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT         | 52,000.00                 | 0.00            |
| 188 | 18H19     | NADIATULHUDA BINTI ZULKIFLI  | CMED  | LCRG   | RG  | UNIVERSITY       | TIER 1                                      | 40,000.00                 | 0.00            |
| 189 | 4B385     | NADIATULHUDA BINTI ZULKIFLI  | CMED  | LCRG   | RG  | INTERNATIONAL    | OTHERS                                      | 31,312.38                 | 31,312.38       |
| 190 | 5F086     | NADIATULHUDA BINTI ZULKIFLI  | CMED  | LCRG   | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 78,600.00                 | 15,300.00       |

| NO. | VOT   | STAFF NAME                    | DEPT. | RG     | COE  | SPONSOR CATEGORY | GRANT NAME                            | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|-------------------------------|-------|--------|------|------------------|---------------------------------------|---------------------------|-----------------|
| 191 | 06G63 | NIK NOORDINI BT NIK ABD MALIK | COMM  | Cnets  | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 40,000.00                 | 0.00            |
| 192 | 18H07 | NIK RUMZI BIN NIK IDRIS       | POWER | PEDG   | RG   | UNIVERSITY       | TIER 1                                | 40,000.00                 | 0.00            |
| 193 | 4C014 | NIK RUMZI BIN NIK IDRIS       | POWER | PEDG   | RG   | PRIVATE          | CONTRACT                              | 50,000.00                 | 0.00            |
| 194 | 19H27 | NOOR ASMAWATI BINTI SAMSURI   | COMM  | ARFMRG | RG   | UNIVERSITY       | TIER 1                                | 50,000.00                 | 25,500.00       |
| 195 | 4F883 | NOOR ASMAWATI BINTI SAMSURI   | COMM  | ARFMRG | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 70,000.00                 | 0.00            |
| 196 | 04G72 | NOOR ASNIZA BINTI MURAD       | COMM  | ARFMRG | RG   | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT          | 20,000.00                 | 6,000.00        |
| 197 | 13J86 | NOOR ASNIZA BINTI MURAD       | COMM  | ARFMRG | RG   | UNIVERSITY       | TIER 2                                | 20,000.00                 | 0.00            |
| 198 | 06G50 | NOOR AZLINDA BINTI AHMAD      | POWER | COE    | IVAT | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 80,000.00                 | 22,000.00       |
| 199 | 4B382 | NOOR AZLINDA BINTI AHMAD      | POWER | COE    | IVAT | INTERNATIONAL    | OTHERS                                | 15,000.00                 | 14,661.67       |
| 200 | 4B486 | NOOR AZLINDA BINTI AHMAD      | POWER | COE    | IVAT | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL | 20,000.00                 | 0.00            |
| 201 | 17J50 | NOR AINI BINTI ZAKARIA        | ECE   | BMIE   | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH            | 30,000.00                 | 20,000.00       |
| 202 | 4F821 | NOR HISHAM BIN KHAMIS         | COMM  | STAR   | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 120,000.00                | 0.00            |
| 203 | 05G79 | NORAZAN BIN MOHD KASSIM       | COMM  | LCRG   | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 39,000.00                 | 0.00            |
| 204 | 18J44 | NORHAFIZAH BT RAMLI           | ECE   | BMIE   | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH            | 30,000.00                 | 18,500.00       |

| NO. | VOT   | STAFF NAME                     | DEPT. | RG    | COE | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|--------------------------------|-------|-------|-----|------------------|--|---------------------------|-----------------|
| 205 | 4L702 | NORHALIZA BINTI HAJI ABD WAHAB | CMED  | ACRG  | RG  | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME  | 89,000.00                 | 54,500.00       |
| 206 | 04E90 | NORHUDAH BINTI SEMAN           | COMM  | COE   | WCC | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 138,460.00                | 138,460.00      |
| 207 | 4J408 | NORHUDAH BINTI SEMAN           | COMM  | COE   | WCC | NATIONAL         | HICOE RESEARCH GRANT                         | 85,000.00                 | 13,000.00       |
| 208 | 4L684 | NORHUDAH BINTI SEMAN           | COMM  | COE   | WCC | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME  | 94,340.00                 | 0.00            |
| 209 | 5F048 | NORHUDAH BINTI SEMAN           | COMM  | COE   | WCC | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 84,500.00                 | 56,500.00       |
| 210 | 05G61 | NORJULIA BINTI MOHAMAD NORDIN  | POWER | PEDG  | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 40,000.00                 | 0.00            |
| 211 | 15J49 | NORJULIA BINTI MOHAMAD NORDIN  | POWER | PEDG  | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 0.00            |
| 212 | 5F160 | NORJULIA BINTI MOHAMAD NORDIN  | POWER | PEDG  | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 99,800.00                 | 59,400.00       |
| 213 | 06G93 | NORLAILI BINTI MAT SAFRI       | ECE   | BMIE  | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 80,000.00                 | 0.00            |
| 214 | 06G91 | NORLAILI BINTI MAT SAFRI       | ECE   | BMIE  | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 200,000.00                | 0.00            |
| 215 | 17J97 | NORLINA BINTI PARAMAN          | ECE   | VeCAD | RG  | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                   | 27,000.00                 | 23,550.00       |

| NO. | VOT   | STAFF NAME                        | DEPT. | RG    | COE  | SPONSOR CATEGORY | GRANT NAME                            | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|-----------------------------------|-------|-------|------|------------------|---------------------------------------|---------------------------|-----------------|
| 216 | 06G65 | NORZANAH BINTI ROSMIN             | POWER | COE   | CEES | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 80,000.00                 | 37,300.00       |
| 217 | 18H08 | NORZANAH BINTI ROSMIN             | POWER | COE   | CEES | UNIVERSITY       | TIER 1                                | 40,000.00                 | 0.00            |
| 218 | 16J21 | NURUL ADILLA BT. MOHD SUBHA       | CMED  | ACRG  | RG   | UNIVERSITY       | TIER 2                                | 29,400.00                 | 14,700.00       |
| 219 | 17H67 | NURUL ADILLA BT. MOHD SUBHA       | CMED  | ACRG  | RG   | UNIVERSITY       | TIER 1                                | 39,900.00                 | 0.00            |
| 220 | 4F968 | NURUL ADILLA BT. MOHD SUBHA       | CMED  | ACRG  | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 77,910.00                 | 0.00            |
| 221 | 17J08 | NURUL ASHIKIN BINTI ABDUL KADIR   | ECE   | BMIE  | RG   | UNIVERSITY       | TIER 2                                | 20,000.00                 | 20,000.00       |
| 222 | 07G45 | NURUL EZAILA BINTI ALIAS          | ECE   | CONE  | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 40,000.00                 | 0.00            |
| 223 | 16J19 | NURUL EZAILA BINTI ALIAS          | ECE   | CONE  | RG   | UNIVERSITY       | TIER 2                                | 30,000.00                 | 11,400.00       |
| 224 | 5F130 | NURUL EZAILA BINTI ALIAS          | ECE   | CONE  | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 60,500.00                 | 29,500.00       |
| 225 | 18J74 | NURUL MU'AZZAH BINTI ABDUL LATIFF | COMM  | CNets | RG   | UNIVERSITY       | TIER 2                                | 30,000.00                 | 18,400.00       |
| 226 | 05G78 | NURZAL EFFIYANA BINTI GHAZALI     | COMM  | CNets | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 63,000.00                 | 0.00            |
| 227 | 15J00 | OMAR BIN ABDUL AZIZ               | COMM  | TESS  | RG   | UNIVERSITY       | TIER 2                                | 20,000.00                 | 0.00            |
| 228 | 4B437 | OMAR BIN ABDUL AZIZ               | COMM  | TESS  | RG   | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL | 20,000.00                 | 0.00            |
| 229 | 4C322 | OMAR BIN ABDUL AZIZ               | COMM  | TESS  | RG   | PRIVATE          | CONTRACT RESEARCH DTD                 | 36,750.00                 | 0.00            |

| NO. | VOT       | STAFF NAME                       | DEPT. | RG     | COE | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|----------------------------------|-------|--------|-----|------------------|--|---------------------------|-----------------|
| 230 | 4J409     | OMAR BIN ABDUL AZIZ              | COMM  | TeSS   | RG  | NATIONAL         | HICOE RESEARCH GRANT                         | 42,000.00                 | 16,000.00       |
| 231 | 5F178     | OMAR BIN ABDUL AZIZ              | COMM  | TeSS   | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 49,500.00                 | 29,000.00       |
| 232 | 04G69     | OSMAN BIN AYOP                   | COMM  | ARFMRG | RG  | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                 | 20,000.00                 | 11,000.00       |
| 233 | 07G26     | OSMAN BIN AYOP                   | COMM  | ARFMRG | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 42,000.00                 | 15,500.00       |
| 234 | 14J87     | OSMAN BIN AYOP                   | COMM  | ARFMRG | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 0.00            |
| 235 | 05G00     | RASHIDAH@SITI SAEDAH BINTI ARSAT | COMM  | ARG    | RG  | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                 | 20,000.00                 | 12,400.00       |
| 236 | 04E30     | RAZALI BIN NGAH                  | COMM  | COE    | WCC | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 0.00            |
| 237 | 17H22     | RAZALI BIN NGAH                  | COMM  | COE    | WCC | UNIVERSITY       | TIER 1                                       | 40,000.00                 | 0.00            |
| 238 | 4F965     | RAZALI BIN NGAH                  | COMM  | COE    | WCC | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 76,532.00                 | 33,600.00       |
| 239 | 4J412     | RAZALI BIN NGAH                  | COMM  | COE    | WCC | NATIONAL         | HICOE RESEARCH GRANT                         | 85,000.00                 | 20,900.00       |
| 240 | 4J401     | ROZEHA BT. A. RASHID             | COMM  | TeSS   | RG  | UNIVERSITY       | TRANSLATIONAL RESEARCH@CAMPUS                | 128,000.00                | 128,000.00      |
| 241 | 01M2<br>2 | ROZEHA BT. A. RASHID             | COMM  | TeSS   | RG  | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT       | 15,000.00                 | 4,000.00        |
| 242 | 01M4<br>5 | ROZEHA BT. A. RASHID             | COMM  | TeSS   | RG  | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT       | 20,000.00                 | 20,000.00       |

| NO. | VOT       | STAFF NAME                            | DEPT. | RG   | COE | SPONSOR CATEGORY | GRANT NAME                             | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|---------------------------------------|-------|------|-----|------------------|--|---------------------------|-----------------|
| 243 | 08G07     | ROZEH A BT. A. RASHID                 | COMM  | Tess | RG  | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT           | 100,000.00                | 100,000.00      |
| 244 | 08G15     | ROZEH A BT. A. RASHID                 | COMM  | Tess | RG  | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT           | 40,000.00                 | 0.00            |
| 245 | 19H25     | ROZEH A BT. A. RASHID                 | COMM  | Tess | RG  | UNIVERSITY       | TIER 1                                 | 39,600.00                 | 0.00            |
| 246 | 4C214     | ROZEH A BT. A. RASHID                 | COMM  | Tess | RG  | PRIVATE          | CONTRACT RESEARCH DTD                  | 58,275.00                 | 0.00            |
| 247 | 4C297     | ROZEH A BT. A. RASHID                 | COMM  | Tess | RG  | PRIVATE          | CONTRACT RESEARCH DTD                  | 110,880.00                | 110,880.00      |
| 248 | 4J393     | ROZEH A BT. A. RASHID                 | COMM  | Tess | RG  | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND             | 20,000.00                 | 20,000.00       |
| 249 | 4J396     | ROZEH A BT. A. RASHID                 | COMM  | Tess | RG  | UNIVERSITY       | TRANSLATIONAL RESEARCH@CAMPUSES        | 291,000.00                | 0.00            |
| 250 | 5F174     | ROZEH A BT. A. RASHID                 | COMM  | Tess | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME      | 80,760.00                 | 55,160.00       |
| 251 | 4C174     | ROZEH A BT. A. RASHID                 | COMM  | Tess | RG  | PRIVATE          | CONTRACT RESEARCH DTD                  | 32,973.00                 | 0.00            |
| 252 | 5F123     | RUBITA BINTI SUDIRMAN                 | ECE   | BMIE | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME      | 74,600.00                 | 33,500.00       |
| 253 | 19H45     | SAIFULNIZAM BIN ABD. KHALID           | POWER | PERG | RG  | UNIVERSITY       | TIER 1                                 | 40,500.00                 | 0.00            |
| 254 | 17H45     | SALINDA BINTI BUYAMIN                 | CMED  | ACRG | RG  | UNIVERSITY       | TIER 1                                 | 40,000.00                 | 0.00            |
| 255 | 4B428     | SALINDA BINTI BUYAMIN                 | CMED  | ACRG | RG  | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL  | 20,000.00                 | 0.00            |
| 256 | 18J15     | SAMURA BIN ALI                        | COMM  | Tess | RG  | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH             | 29,325.00                 | 19,125.00       |
| 257 | 01M5<br>8 | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG | RG  | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 10,000.00                 | 10,000.00       |

| NO. | VOT   | STAFF NAME                            | DEPT. | RG       | COE | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|---------------------------------------|-------|----------|-----|------------------|--|---------------------------|-----------------|
| 258 | 04E58 | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG     | RG  | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | -                         | 0.00            |
| 259 | 17H24 | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG     | RG  | UNIVERSITY       | TIER 1                                       | 40,000.00                 | 0.00            |
| 260 | 4B351 | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG     | RG  | INTERNATIONAL    | OTHERS                                       | 20,121.24                 | 0.00            |
| 261 | 4F961 | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG     | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 97,626.00                 | 0.00            |
| 262 | 07G68 | SHAFISHUHAZA SAHLAN                   | CMED  | PROTOM-i | RG  | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                 | 20,000.00                 | 20,000.00       |
| 263 | 4J399 | SHAFISHUHAZA SAHLAN                   | CMED  | PROTOM-i | RG  | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND                   | 20,000.00                 | 20,000.00       |
| 264 | 06G89 | SHAHARIN FADZLI BIN ABD RAHMAN        | ECE   | MNSE     | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 40,000.00                 | 26,200.00       |
| 265 | 16J02 | SHAHARIN FADZLI BIN ABD RAHMAN        | ECE   | MNSE     | RG  | UNIVERSITY       | TIER 2                                       | 30,000.00                 | 14,500.00       |
| 266 | 16J83 | SHAHIDATUL SADIAH BINTI ABDUL MANAN   | ECE   | DSIP     | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 20,000.00       |
| 267 | 15J40 | SHahrin bin MD AYOB                   | POWER | PEDG     | RG  | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 0.00            |
| 268 | 04E19 | SHARIFAH HAFIZAH BINTI SYED ARIFFIN   | COMM  | CNets    | RG  | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 0.00            |
| 269 | 05G16 | SHARIFAH KAMILAH BT SYED YUSOF        | COMM  | CNets    | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 80,000.00                 | 45,700.00       |

| NO. | VOT   | STAFF NAME                     | DEPT. | RG    | COE  | SPONSOR CATEGORY | GRANT NAME  | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|--------------------------------|-------|-------|------|------------------|---|---------------------------|-----------------|
| 270 | 4B401 | SHARIFAH KAMILAH BT SYED YUSOF | COMM  | CNets | RG   | INTERNATIONAL    | OTHERS  | 952,617.00                | 0.00            |
| 271 | 17H23 | SHARUL KAMAL BIN ABDUL RAHIM   | COMM  | COE   | WCC  | UNIVERSITY       | TIER 1  | 40,000.00                 | 0.00            |
| 272 | 4C269 | SHARUL KAMAL BIN ABDUL RAHIM   | COMM  | COE   | WCC  | PRIVATE          | CONTRACT RESEARCH DTD                                     | 250,000.00                | 130,000.00      |
| 273 | 4J330 | SHARUL KAMAL BIN ABDUL RAHIM   | COMM  | COE   | WCC  | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND                                | 20,000.00                 | 0.00            |
| 274 | 4J383 | SHARUL KAMAL BIN ABDUL RAHIM   | COMM  | COE   | WCC  | UNIVERSITY       | UTM R&D FUND  | 33,204.75                 | 33,204.75       |
| 275 | 4J414 | SHARUL KAMAL BIN ABDUL RAHIM   | COMM  | COE   | WCC  | NATIONAL         | HICOE RESEARCH GRANT                                      | 85,000.00                 | 21,900.00       |
| 276 | 5F237 | SHARUL KAMAL BIN ABDUL RAHIM   | COMM  | COE   | WCC  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME                         | 88,000.00                 | 38,400.00       |
| 277 | 4B283 | SHARUL KAMAL BIN ABDUL RAHIM   | COMM  | COE   | WCC  | NATIONAL         | JOHOR INNOVATION VALLEY- BAHAGIAN PERANCANG EKONOMI JOHOR | 90,000.00                 | 0.00            |
| 278 | 17J06 | SITI MAHERAH BINTI HUSSIN      | POWER | COE   | CEES | UNIVERSITY       | TIER 2  | 30,000.00                 | 15,000.00       |
| 279 | 19H40 | SITI MAHERAH BINTI HUSSIN      | POWER | COE   | CEES | UNIVERSITY       | TIER 1  | 50,000.00                 | 22,500.00       |
| 280 | 07G09 | SUHAILA BINTI ISAAK            | ECE   | CONE  | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT                       | 40,000.00                 | 0.00            |
| 281 | 4F959 | SUHAILA BINTI ISAAK            | ECE   | CONE  | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME                         | 62,540.00                 | 0.00            |
| 282 | 16J17 | SUHANA BINTI MOHAMED SULTAN    | ECE   | CONE  | RG   | UNIVERSITY       | TIER 2  | 30,000.00                 | 26,500.00       |

| NO. | VOT       | STAFF NAME                           | DEPT. | RG       | COE   | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|--------------------------------------|-------|----------|-------|------------------|--|---------------------------|-----------------|
| 283 | 19H33     | SUHANA BINTI MOHAMED SULTAN          | ECE   | CONE     | RG    | UNIVERSITY       | TIER 1                                       | 50,000.00                 | 10,450.00       |
| 284 | 5F053     | SUHANA BINTI MOHAMED SULTAN          | ECE   | CONE     | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 109,875.00                | 99,775.00       |
| 285 | 19H86     | SYED ABDUL RAHMAN BIN SYED ABU BAKAR | ECE   | DSIP     | RG    | UNIVERSITY       | TIER 1                                       | 50,000.00                 | 21,000.00       |
| 286 | 17J76     | SYED NORAZIZUL BIN SYED NASIR        | POWER | PERG     | RG    | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                   | 30,000.00                 | 16,454.00       |
| 287 | 04E21     | THAREK BIN ABD RAHMAN                | COMM  | COE      | WCC   | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 71,000.00                 | 0.00            |
| 288 | 04G26     | THAREK BIN ABD RAHMAN                | COMM  | COE      | WCC   | UNIVERSITY       | HIGH IMPACT RESEARCH GRANT                   | 148,100.00                | 0.00            |
| 289 | 19H38     | THAREK BIN ABD RAHMAN                | COMM  | COE      | WCC   | UNIVERSITY       | TIER 1                                       | 50,000.00                 | 17,800.00       |
| 290 | 4J411     | THAREK BIN ABD RAHMAN                | COMM  | COE      | WCC   | NATIONAL         | HICOE RESEARCH GRANT                         | 85,000.00                 | 25,200.00       |
| 291 | 19H61     | USMAN ULLAH SHEIKH                   | ECE   | DSIP     | RG    | UNIVERSITY       | TIER 1                                       | 50,000.00                 | 25,000.00       |
| 292 | 01M8<br>5 | YEONG CHE FAI                        | CMED  | COE      | CAIRO | UNIVERSITY       | MATCHING GRANT                               | 40,000.00                 | 0.00            |
| 293 | 04G42     | YEONG CHE FAI                        | CMED  | COE      | CAIRO | UNIVERSITY       | UTMSHINE                                     | 50,000.00                 | 25,000.00       |
| 294 | 16H47     | YEONG CHE FAI                        | CMED  | COE      | CAIRO | UNIVERSITY       | TIER 1                                       | 40,000.00                 | 0.00            |
| 295 | 4B402     | YEONG CHE FAI                        | CMED  | COE      | CAIRO | PRIVATE          | OTHERS                                       | 475,800.00                | 95,300.00       |
| 296 | 5F187     | YEONG CHE FAI                        | CMED  | COE      | CAIRO | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 66,000.00                 | 36,500.00       |
| 297 | 06G78     | YUSMEERAZ BINTI YUSOF                | ECE   | CONE     | RG    | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 40,000.00                 | 0.00            |
| 298 | 5F084     | YUSRI B MD. YUNOS                    | CMED  | PROTOM-i | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 60,000.00                 | 29,500.00       |

| NO. | VOT       | STAFF NAME                   | DEPT. | RG   | COE  | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|------------------------------|-------|------|------|------------------|--|---------------------------|-----------------|
| 299 | 16J29     | ZAHARAH BINTI JOHARI         | ECE   | CONE | RG   | UNIVERSITY       | TIER 2                                       | 30,000.00                 | 15,000.00       |
| 300 | 5F044     | ZAHARUDDIN B MOHAMED         | CMED  | ACRG | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 71,000.00                 | 37,500.00       |
| 301 | 3C055     | ZAINAL BIN SALAM             | POWER | COE  | CEES | PRIVATE          | CONTRACT                                     | 200,000.00                | 0.00            |
| 302 | 4F919     | ZAINAL BIN SALAM             | POWER | COE  | CEES | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 178,000.00                | 0.00            |
| 303 | 18H04     | ZULKARNAIN BIN AHMAD NOORDEN | POWER | COE  | IVAT | UNIVERSITY       | TIER 1                                       | 40,000.00                 | 0.00            |
| 304 | 18J12     | ZULKARNAIN BIN AHMAD NOORDEN | POWER | COE  | IVAT | UNIVERSITY       | TIER 2                                       | 30,000.00                 | 15,000.00       |
| 305 | 4B483     | ZULKARNAIN BIN AHMAD NOORDEN | POWER | COE  | IVAT | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL        | 20,000.00                 | 20,000.00       |
| 306 | 4B345     | ZULKURNAIN B.<br>ABD. MALEK  | POWER | COE  | IVAT | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 6,000.00        |
| 307 | 01M4<br>4 | ZULKURNAIN B.<br>ABD. MALEK  | POWER | COE  | IVAT | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT       | 10,000.00                 | 10,000.00       |
| 308 | 04E54     | ZULKURNAIN B.<br>ABD. MALEK  | POWER | COE  | IVAT | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 0.00            |
| 309 | 05G88     | ZULKURNAIN B.<br>ABD. MALEK  | POWER | COE  | IVAT | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT         | 40,000.00                 | 14,000.00       |
| 310 | 05G89     | ZULKURNAIN B.<br>ABD. MALEK  | POWER | COE  | IVAT | UNIVERSITY       | UTM TRANSDISCIPLINARY RESEARCH GRANT         | 240,000.00                | 0.00            |
| 311 | 18H10     | ZULKURNAIN B.<br>ABD. MALEK  | POWER | COE  | IVAT | UNIVERSITY       | TIER 1                                       | 40,000.00                 | 2,000.00        |
| 312 | 4B379     | ZULKURNAIN B.<br>ABD. MALEK  | POWER | COE  | IVAT | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 14,661.67       |

| NO. | VOT   | STAFF NAME                  | DEPT. | RG  | COE  | SPONSOR CATEGORY | GRANT NAME                            | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|-----------------------------|-------|-----|------|------------------|---------------------------------------|---------------------------|-----------------|
| 313 | 4B482 | ZULKURNAIN B.<br>ABD. MALEK | POWER | COE | IVAT | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL | 20,000.00                 | 0.00            |
| 314 | 4F828 | ZULKURNAIN B.<br>ABD. MALEK | POWER | COE | IVAT | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 122,000.00                | 0.00            |
| 315 | 07G43 | ZURAIMY BIN ADZIS           | POWER | COE | IVAT | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 40,000.00                 | 3,000.00        |

Table 2.3: Number of postgraduate students for each SKE staff

| NAME                             | RG     | MSc | MPhil | PhD | RESEARCH |
|----------------------------------|--------|-----|-------|-----|----------|
| ABDUL RASHID BIN HUSAIN          | ACRG   |     |       | 8   | 8        |
| FATIMAH SHAM BT. ISMAIL          | ACRG   |     | 1     |     | 1        |
| LIM CHENG SIONG                  | ACRG   |     |       | 2   | 2        |
| MOHAMAD AMIR BIN SHAMSUDIN       | ACRG   | 1   |       |     | 0        |
| MOHAMAD SHUKRI BIN ZAINAL ABIDIN | ACRG   | 1   | 2     | 2   | 4        |
| MOHD ARIFFANAN MOHD BASRI        | ACRG   | 2   |       | 1   | 1        |
| MOHD SAIFUL AZIMI BIN MAHMUD     | ACRG   |     |       |     | 0        |
| NORHALIZA BINTI HAJI ABD WAHAB   | ACRG   | 3   | 2     | 3   | 5        |
| NURUL ADILLA MOHD SUBHA          | ACRG   |     | 2     | 1   | 3        |
| ROSBIAH BIN MAMAT                | ACRG   |     |       | 2   | 2        |
| SALINDA BINTI BUYAMIN            | ACRG   |     |       | 2   | 2        |
| SHAH DAN BIN SUDIN               | ACRG   |     |       |     | 0        |
| SOPHAN WAHYUDI BIN NAWAWI        | ACRG   | 1   | 2     | 3   | 5        |
| YAHAYA BIN MD SAM                | ACRG   |     | 1     | 2   | 3        |
| ZAHARUDDIN BIN MOHAMED           | ACRG   |     |       | 3   | 3        |
| FARID BIN ZUBIR                  | ARFMRG | 2   |       | 1   | 1        |
| MOHAMAD KAMAL B. A. RAHIM        | ARFMRG |     | 2     | 15  | 17       |
| MOHAMAD RIJAL BIN HAMID          | ARFMRG | 1   |       | 3   | 3        |
| MOHD FAIRUS BIN MOHD YUSOFF      | ARFMRG | 1   |       | 1   | 1        |
| NOOR ASMAWATI BINTI SAMSURI      | ARFMRG |     |       | 3   | 3        |
| NOOR ASNIZA BINTI MURAD          | ARFMRG |     | 1     | 1   | 2        |
| OSMAN BIN AYOP                   | ARFMRG | 2   |       |     | 0        |
| MOKHTAR HARUN                    | ARG    |     |       | 2   | 2        |
| RASHIDAH@SITI SAEDAH BINTI ARSAT | ARG    |     |       | 1   | 1        |
| SITI ZALEHA BT. ABDUL HAMID      | ARG    |     |       |     | 0        |
| YOU KOK YEOW                     | ARG    | 1   | 1     | 3   | 4        |

| NAME                              | RG    | MSc | MPhil | PhD | RESEARCH |
|-----------------------------------|-------|-----|-------|-----|----------|
| ABD HAMID BIN AHMAD               | bMIE  |     |       |     | 0        |
| CAMALLIL BIN OMAR                 | bMIE  |     |       |     | 0        |
| EILEEN SU LEE MING                | bMIE  |     | 2     | 1   | 3        |
| FAUZAN KHAIRI BIN CHE HARUN       | bMIE  |     |       | 2   | 2        |
| ISMAIL BIN ARIFFIN                | bMIE  |     |       |     | 0        |
| JASMY BIN YUNUS                   | bMIE  |     |       |     | 0        |
| MITRA BINTI MOHD ADDI             | bMIE  |     |       |     | 0        |
| MOHD AFZAN BIN OTHMAN             | bMIE  | 6   | 1     |     | 1        |
| MOHD AZHAR BIN ABDUL RAZAK        | bMIE  |     |       | 1   | 1        |
| NASRUL HUMAIMI BIN MAHMOOD        | bMIE  | 1   | 1     |     | 1        |
| NOR AINI BINTI ZAKARIA            | bMIE  |     | 1     |     | 1        |
| NOR HAFIZAH BT. RAMLI             | bMIE  |     |       |     | 0        |
| NORLAILI BINTI MAT SAFRI          | bMIE  |     |       | 1   | 1        |
| NURUL ASHIKIN BINTI ABDUL KADIR   | bMIE  |     |       |     | 0        |
| PUSPA INAYAT BT. KHALID           | bMIE  |     | 1     | 1   | 2        |
| RUBITA BINTI SUDIRMAN             | bMIE  |     | 1     | 5   | 6        |
| AHMAD 'ATHIF BIN MOHD FAUDZI      | CAIRO | 3   | 1     | 1   | 2        |
| HAZLINA BT. SELAMAT               | CAIRO | 2   | 1     |     | 1        |
| KUMERESAN A/L A. DANAPALASINGAM   | CAIRO |     |       | 2   | 2        |
| YEONG CHI FAI                     | CAIRO | 2   | 3     | 1   | 4        |
| DALILA BT MAT SAID                | CEES  | 2   | 1     | 3   | 4        |
| FARIDAH BT. HUSSIN                | CEES  |     |       |     | 0        |
| HASIMAH BTE ABDUL RAHMAN          | CEES  |     |       | 2   | 2        |
| MD. PAUZI BIN ABDULLAH            | CEES  |     | 2     | 4   | 6        |
| MOHAMMAD YUSRI BIN HASSAN         | CEES  |     | 1     | 6   | 7        |
| NORZANAH BT. ROSMIN               | CEES  | 2   | 3     | 3   | 6        |
| SITI MAHERAH BINTI HUSSIN         | CEES  | 5   |       |     | 0        |
| ZAINAL BIN SALAM                  | CEES  |     |       | 5   | 5        |
| KAMALUDIN BIN MOHAMAD YUSOF       | CNETs |     | 5     | 8   | 13       |
| MUHAMMAD ARIFF BIN BAHARUDIN      | CNETs | 2   |       |     | 0        |
| NIK NOORDINI BT NIK ABD MALIK     | CNETs | 2   |       | 1   | 1        |
| NURUL MU'AZZAH BINTI ABDUL LATIFF | CNETs | 1   |       | 1   | 1        |
| NURZAL EFFIYANA BINTI GHAZALI     | CNETs |     | 1     |     | 1        |
| SHARIFAH HAFIZAH BT. SYED ARIFFIN | CNETs |     |       | 5   | 5        |
| SHARIFAH KAMILAH BT. SYED YUSOF   | CNETs |     |       | 7   | 7        |
| MICHAEL TAN LOONG PENG            | CoNE  |     | 1     | 4   | 5        |
| MUHAMMAD AFIQ NURUDIN BIN HAMZAH  | CoNE  |     |       |     | 0        |
| NURUL EZAILA BINTI ALIAS          | CoNE  | 2   | 3     | 1   | 4        |
| RAZALI BIN ISMAIL                 | CoNE  |     |       | 3   | 3        |
| SUHAILA BINTI ISAAK               | CoNE  | 4   | 1     | 1   | 2        |
| SUHANA BINTI MOHAMED SULTAN       | CoNE  | 1   | 2     | 2   | 4        |
| YUSMEERAZ BINTI YUSOF             | CoNE  | 1   | 1     | 3   | 4        |
| ZAHARAH BINTI JOHARI              | CoNE  | 2   | 1     |     | 1        |
| AB AL-HADI BIN AB RAHMAN          | DSIP  |     | 4     | 2   | 6        |

| NAME                                  | RG   | MSc | MPhil | PhD | RESEARCH |
|---------------------------------------|------|-----|-------|-----|----------|
| AHMAD ZURI B SHA'AMERI                | DSIP |     | 2     | 2   | 4        |
| MUHAMMAD MUN'IM BIN AHMAD ZABIDI      | DSIP | 7   |       |     | 0        |
| MUSA BIN MOHD MOKJI                   | DSIP | 3   |       | 1   | 1        |
| SHAHIDATUL SADIAH BINTI ABDUL MANAN   | DSIP | 1   |       |     | 0        |
| SYED ABDUL RAHMAN BIN SYED ABU BAKAR  | DSIP | 1   |       | 5   | 5        |
| USMAN ULLAH SHEIKH                    | DSIP | 7   | 1     | 5   | 6        |
| ZAID BIN OMAR                         | DSIP |     |       | 1   | 1        |
| LAU KWAN YIEW                         | IVAT | 9   | 1     | 3   | 4        |
| MOHAMED AFENDI BIN MOHAMED PIAH       | IVAT |     |       | 3   | 3        |
| MOHD HAFIZI BIN AHMAD                 | IVAT | 3   | 3     | 5   | 8        |
| MONA RIZA BT. MOHD ESA                | IVAT | 1   | 1     |     | 1        |
| NOR AZLINDA BT. AHMAD                 | IVAT | 4   |       | 2   | 2        |
| ZOLKAFLE BIN BUNTAT                   | IVAT |     |       | 2   | 2        |
| ZULKARNAIN BIN AHMAD NOORDEN          | IVAT | 2   |       | 2   | 2        |
| ZULKURNAIN BIN ABDUL MALEK            | IVAT |     | 1     | 6   | 7        |
| ZURAIMY BIN ADDIS                     | IVAT | 4   | 1     | 1   | 2        |
| ABU SAHMAH BIN MOHD SUPA'AT           | LCRG |     |       | 1   | 1        |
| AHMAD SHARMI BIN ABDULLAH             | LCRG | 2   |       |     | 0        |
| ARNIDZA BINTI RAMLI                   | LCRG | 2   | 1     |     | 1        |
| ASRUL IZAM BIN AZMI                   | LCRG |     | 2     |     | 2        |
| MOHD HANIFF BIN IBRAHIM               | LCRG |     |       | 1   | 1        |
| MOHD RASHIDI BIN SALIM                | LCRG | 1   |       |     | 0        |
| MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | LCRG | 3   |       | 1   | 1        |
| MUHAMMAD YUSOF BIN MOHD NOOR          | LCRG | 1   |       | 1   | 1        |
| NADIATULHUDA BINTI ZULKIFLI           | LCRG | 1   | 1     | 3   | 4        |
| NORAZAN BIN MOHD KASSIM               | LCRG |     |       |     | 0        |
| SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | LCRG |     | 1     | 10  | 11       |
| AMIRJAN BIN NAWABJAN                  | MNSE | 1   | 1     | 1   | 2        |
| MASTURA SHAFINAZ BINTI ZAINAL ABIDIN  | MNSE |     | 1     |     | 1        |
| MOHD AMRI BIN MD. YUNUS               | MNSE |     | 1     | 1   | 2        |
| MOHD RIDZUAN BIN AHMAD                | MNSE | 1   | 2     | 1   | 3        |
| SHAHARIN FADZLI BIN ABD RAHMAN        | MNSE |     | 1     |     | 1        |
| AWANG BIN JUSOH                       | PEDG |     |       | 1   | 1        |
| MOHD JUNAIDI BIN ABDUL AZIZ           | PEDG | 4   |       | 2   | 2        |
| MOHD RODHI BIN SAHID                  | PEDG |     |       | 3   | 3        |
| MOHD ZAKI BIN DAUD                    | PEDG |     |       |     | 0        |
| NAZIHA BINTI AHMAD AZLI               | PEDG | 3   |       | 2   | 2        |
| NIK DIN B. MUHAMAD                    | PEDG |     |       |     | 0        |
| NIK RUMZI BIN NIK IDRIS               | PEDG |     |       | 3   | 3        |
| NORJULIA MOHAMAD NORDIN               | PEDG | 1   |       | 2   | 2        |
| RAZMAN BIN AYOP                       | PEDG |     |       |     | 0        |
| SHahrin bin MD AYOB                   | PEDG | 4   | 1     | 4   | 5        |

| NAME                                  | RG       | MSc | MPhil | PhD | RESEARCH |
|---------------------------------------|----------|-----|-------|-----|----------|
| TAN CHEE WEI                          | PEDG     | 4   |       | 3   | 3        |
| AHMAD SAFAWI BIN MOKHTAR              | PERG     |     | 1     | 1   | 2        |
| AZHAR BIN KHAIRUDDIN                  | PERG     |     | 1     | 4   | 5        |
| JASRUL JAMANI BIN JAMIAN              | PERG     | 6   |       | 2   | 2        |
| MADIHAH BINTI MD RASID                | PERG     | 3   | 1     |     | 1        |
| MOHD FADLI BIN RAHMAT                 | PERG     |     |       |     | 0        |
| MOHD HAFIZ BIN HABI BUDDIN            | PERG     | 5   |       | 2   | 2        |
| MOHD WAZIR BIN MUSTAFA                | PERG     |     | 1     | 10  | 11       |
| RASYIDAH BINTI MOHAMAD IDRIS          | PERG     | 4   |       | 2   | 2        |
| SAIFULNIZAM BIN ABD. KHALID           | PERG     | 1   |       |     | 0        |
| SYED NORAZIZUL BIN SYED NASIR         | PERG     |     |       |     | 0        |
| AHMAD RIDHWAN BIN WAHAP               | PROTOM-i |     |       |     | 0        |
| ANITA BINTI AHMAD                     | PROTOM-i |     |       | 2   | 2        |
| HERLINA BINTI ABDUL RAHIM             | PROTOM-i |     |       | 3   | 3        |
| HERMAN BIN WAHID                      | PROTOM-i |     | 2     | 1   | 3        |
| KHAIRUL HAMIMAH BINTI ABAS            | PROTOM-i |     |       |     | 0        |
| LEOW PEI LING                         | PROTOM-i |     | 2     | 3   | 5        |
| MOHAMAD HAFIS IZRAN BIN ISHAK         | PROTOM-i |     | 2     | 2   | 4        |
| MOHAMAD SHUKRI BIN ABDUL MANAF        | PROTOM-i |     |       |     | 0        |
| MOHAMED SULTAN BIN MOHAMED ALI        | PROTOM-i |     | 2     | 6   | 8        |
| MOHD FUAD BIN RAHMAT                  | PROTOM-i | 1   |       | 7   | 7        |
| NASARUDIN BIN AHMAD                   | PROTOM-i |     |       |     | 0        |
| RUZAIRI BIN ABDUL RAHIM               | PROTOM-i |     |       | 1   |          |
| SALLEHUDDIN BIN IBRAHIM               | PROTOM-i | 1   |       | 2   | 2        |
| SHAFISHUHAZA SAHLAN                   | PROTOM-i | 1   | 1     |     | 1        |
| YUSRI B MD. YUNOS                     | PROTOM-i |     | 1     | 3   | 4        |
| AMERUDDIN BIN BAHAROM                 | STAR     |     |       |     | 0        |
| AZLI BIN YAHYA                        | STAR     |     | 3     | 3   | 6        |
| KAMAL BIN KHALIL                      | STAR     |     |       |     | 0        |
| MOHD SHAHRIZAL BIN RUSLI              | STAR     | 4   |       |     | 0        |
| MUHAMMAD ARIF BIN ABDUL RAHIM         | STAR     |     |       |     | 0        |
| NOR HISHAM BIN KHAMIS                 | STAR     |     | 1     | 1   | 2        |
| AHMAD SHAHIDAN ABDULLAH               | TeSS     |     |       |     | 0        |
| MOHD. ADIB BIN SARIJARI               | TeSS     |     | 1     |     | 1        |
| OMAR BIN ABDUL AZIZ                   | TeSS     |     |       |     | 0        |
| ROZEHA BT. A. RASHID                  | TeSS     | 2   |       | 3   | 3        |
| SAMURA BIN ALI                        | TeSS     |     |       |     | 0        |
| ABU KHARI BIN A'AIN                   | VeCAD    |     |       | 2   |          |
| ISMAHANI BINTI ISMAIL                 | VeCAD    | 2   |       |     | 0        |
| IZAM BIN KAMISIAN                     | VeCAD    |     |       |     | 0        |
| MOHAMED KHALIL BIN HJ MOHD HANI       | VeCAD    |     |       | 3   | 3        |
| MUHAMMAD NADZIR BIN MARSONO           | VeCAD    | 4   | 1     | 12  | 13       |
| NORLINA BINTI PARAMAN                 | VeCAD    | 3   |       |     | 0        |
| SHAIKH NASIR @ NASIR BIN SHAIKH HUSIN | VeCAD    |     | 1     | 1   | 2        |

| NAME                       | RG    | MSc | MPhil | PhD | RESEARCH |
|----------------------------|-------|-----|-------|-----|----------|
| ZULFAKAR BIN ASPAR         | VeCAD |     |       |     | 0        |
| CHUA TIEN HAN              | WCC   |     |       |     | 0        |
| JAFRI BIN DIN              | WCC   |     |       | 5   | 5        |
| LEOW CHEE YEN              | WCC   |     | 1     | 6   | 7        |
| MARWAN HADRI BIN AZMI      | WCC   |     |       |     | 0        |
| MOHD HAIZAL BIN JAMALUDDIN | WCC   | 1   | 2     | 8   | 10       |
| NORHUDAH BT. SEMAN         | WCC   |     | 2     | 4   | 6        |
| RAZALI BIN NGAH            | WCC   | 1   |       | 4   | 4        |
| SHARUL KAMAL BIN A. RAHIM  | WCC   |     | 2     | 8   | 10       |
| THAREK BIN ABDUL RAHMAN    | WCC   |     | 2     | 6   | 8        |
| MUHAMMAD NASIR BIN IBRAHIM |       | 3   |       | 1   |          |

Table 2.4: Number of postdoc students (Section D8) – 2019

| NAME                                | CITIZENSHIP<br>(LOCAL/FOREIGN) | COUNTRY                        | FIRST<br>APPOINTMENT<br>DATE | CURRENT<br>APPOINTMENT<br>DATE | END DATE  |
|-------------------------------------|--------------------------------|--------------------------------|------------------------------|--------------------------------|-----------|
| OM PRAKASH SINGH                    | FOREIGN                        | INDIA                          | 1-Jul-19                     | 1-Jul-19                       | 30-Jun-21 |
| ALI HOSSEINGHOLIPOURASL             | FOREIGN                        | ISLAMIC<br>REPUBLIC OF<br>IRAN | 1-Jul-18                     | 1-Jul-18                       | 30-Jun-20 |
| ALI REZA MORADI                     | FOREIGN                        | ISLAMIC<br>REPUBLIC OF<br>IRAN | 1-Jul-18                     | 1-Jul-18                       | 30-Jun-20 |
| AMIRREZA NADERIPOUR                 | FOREIGN                        | ISLAMIC<br>REPUBLIC OF<br>IRAN | 1-Jul-18                     | 1-Jul-18                       | 30-Jun-20 |
| NURUL ASHIKIN BINTI ABDUL KADIR     | LOCAL                          | MALAYSIA                       | 1-Mar-17                     | 5-Sep-18                       | 4-Mar-19  |
| CHIN VUN JACK                       | LOCAL                          | MALAYSIA                       | 1-Jun-18                     | 1-Jun-18                       | 31-May-19 |
| WAN HAFIZA BINTI WAN HASSAN         | LOCAL                          | MALAYSIA                       | 1-Jan-19                     | 1-Jan-19                       | 31-Dec-19 |
| NOR AISHAH BINTI MUHAMMAD           | LOCAL                          | MALAYSIA                       | 1-Jul-19                     | 1-Jul-19                       | 30-Jun-21 |
| SAMLA GAURI A/P BALAKRISHNAN        | LOCAL                          | MALAYSIA                       | 1-Jul-19                     | 1-Jul-19                       | 30-Jun-21 |
| OSAYD M.T KHARRAZ                   | FOREIGN                        | PALESTINE                      | 1-Aug-16                     | 1-Jan-18                       | 31-Dec-19 |
| AHMED MOHAMMED MOHAMMED<br>AL-SAMAN | FOREIGN                        | YEMEN                          | 2-Jul-17                     | 2-Jul-18                       | 1-Jul-19  |

## Appendix Section E

Table 2.5: E1(a) Patent granted in 2019

| NO. | PATENT NO.       | PATENT NAME  | RESEARCHER                   | DEPT. | RG       |
|-----|------------------|--|------------------------------|-------|----------|
| 1   | MY-169547-A      | INTEGRATION OF ELECTRONIC LIGHTNING COUNTER WITH COMPUTER AIDED SYSTEM FOR LIGHTNING SURGE MONITORING OF GAS PIPELINES | HUSSEIN BIN AHMAD            | POWER | IVAT     |
| 2   | MY-171246-A      | A TRANSMISSION LINE MONITORING SYSTEM  | HUSSEIN BIN AHMAD            | POWER | IVAT     |
| 3   | MY-172645-A      | WIRELESS PHOTOVOLTAIC MONITORING SYSTEM  | MAKBUL ANWARI                | POWER | N/A      |
| 4   | MY-169192-A      | A REHABILITATION ROBOTIC SYSTEM  | YEONG CHE FAI                | CMED  | CAIRO    |
| 5   | MY-169197-A      | A TOMOGRAPHY SENSOR  | LEOW PEI LING                | CMED  | PROTOM-I |
| 6   | MY-169555-A      | DUAL MODALITY TOMOGRAPHY SYSTEM  | RUZAIRI BIN ABDUL RAHIM      | CMED  | PROTOM-I |
| 7   | MY-171077-A      | MODELING A NON-INVASIVE TOMOGRAPHY USING ULTRASONIC  | RUZAIRI BIN ABDUL RAHIM      | CMED  | PROTOM-I |
| 8   | MY-172615-A      | SYSTEM AND METHOD FOR DETECTING FRUIT RIPENESS   | RUZAIRI BIN ABDUL RAHIM      | CMED  | PROTOM-I |
| 9   | MY-169775-A      | CELL VIABILITY DETERMINATION METHOD  | MOHD RIDZUAN BIN AHMAD       | CMED  | MNSE     |
| 10  | MY-171589-A      | ADAPTIVE PROPORTIONAL AND INTEGRAL (PI) CONTROLLER OF A SPARK IGNITION ENGINE  | HAZLINA BINTI SELAMAT        | CMED  | CAIRO    |
| 11  | MY-169595-A      | BLIND SPOT DETECTOR  | SHARUL KAMAL BIN ABDUL RAHIM | COMM  | WCC      |
| 12  | MY-171674-A      | HEALTH CARE MONITORING SYSTEM WITH WIRELESS SENSOR NETWORK   | ROZEHA BT. A. RASHID         | COMM  | TESS     |
| 13  | MY-172380-A      | A VOICE RECOGNITION AND VERIFICATION DEVICE AND THE METHOD THEREOF   | ROZEHA BT. A. RASHID         | COMM  | TESS     |
| 14  | MY-172377-A      | RECONFIGURABLE ULTRA WIDEBAND ANTENNAS FOR WIRELESS COMMUNICATIONS   | THAREK BIN ABD RAHMAN        | COMM  | WCC      |
| 15  | US 10,210,114 B2 | INTERRUPT-DRIVEN I/O ARBITER FOR A MICROCOMPUTER SYSTEM  | MUHAMMAD NASIR BIN IBRAHIM   | ECE   | N/A      |

Table 2.6: E1(b) Patent filed in 2019

| NO | PATENT ID     | PATENT NAME   | RESEARCHER                     | DEPT. | RG       |
|----|---------------|---|--------------------------------|-------|----------|
| 1  | PI 2019002582 | A WIRELESSLY POWERED MICROFLUIDIC DEVICE  | MOHAMED SULTAN BIN MOHAMED ALI | CMED  | PROTOM-I |
| 2  | PI 2019007610 | SMART ALARM SYSTEM AND METHOD THEREOF   | SALINDA BINTI BUYAMIN          | CMED  | ACRG     |
| 3  | PI 2019007685 | A SYSTEM, METHOD AND APPARATUS FOR PRODUCING TEMPEH   | NORHALIZA BINTI HAJI ABD WAHAB | CMED  | ACRG     |
| 4  | PI 2019004793 | SLOTTED SECOND ITERATION FRACTAL KOCH ANTENNA   | MOHAMAD KAMAL B. A. RAHIM      | COMM  | ARFMRG   |
| 5  | PI 2019005284 | A BUTLER MATRIX BASED ON WAVEGUIDE CAVITY RESONATORS  | NOOR ASNIZA BINTI MURAD        | COMM  | ARFMRG   |
| 6  | PI 2019005402 | 3D PRINTED DUAL-BEAM WAVEGUIDE SLOTTED ANTENNA  | NOOR ASNIZA BINTI MURAD        | COMM  | ARFMRG   |
| 7  | PI 2019007586 | SKIN CONTACT FLEXIBLE ANTENNA ASSEMBLY UTILIZING TRANSDERMAL PATCH FOR CONTINUOUS HEALTH MONITORING | NOOR ASMAWATI BINTI SAMSURI    | COMM  | ARFMRG   |
| 8  | PI 2019004290 | METHOD FOR AUTOMATED ABNORMAL BEHAVIOUR DETECTION   | RUBITA BINTI SUDIRMAN          | ECE   | BMIE     |

Table 2.7: E2 Commercialized Product in 2019

| NO. | PRODUCT ID | PRODUCT  | RESEARCHER                    | DEPT. | RG       |
|-----|------------|--|-------------------------------|-------|----------|
| 1   | P002       | FLOWCHART FOR DIGITAL DEFECT COUNTER USING MOBILE APPS | MOHAMAD HAFIS IZRAN BIN ISHAK | CMED  | PROTOM-I |

Table 2.8: E3 Technology know-how licensing in 2019

| NO. | TECHNOLOGY  | TYPE (LICENCED/ OUTRIGHT) | RESEARCHER                                  | DEPT.    | RG         |
|-----|---|---------------------------|---|----------|------------|
| 1   | A SMS BASED PARKING PAYMENT METHOD                              | LICENSED                  | PROF. DR. SEVIA MAHDALIZA IDRUS SUTAN NAMEH | COMM     | LCRG       |
| 2   | IOTWAVE: A COMPLETE END-TO-END INTERNET OF THINGS IOT PLATFORM  | LICENSED                  | DR. MOHD ADIB SARIJARI                      | COMM     | TESS       |
| 3   | COMPACT REHABILITATION ROBOT'S HAPTIC SOFTWARE-HAPTIC SENSE 1.0 | LICENSED                  | DR. YEONG CHE FAI/DR. EILEEN SU LEE MING    | CMED/ECE | CAIRO/BMIE |

Table 2.9: E4. IPR other than patent in 2019

| NO | CATEGORY  | STATUS/<br>ISBN NO. | TITLE/PRODUCT   | RESEARCHER                    | DEPT. | RG       |
|----|-----------|---------------------|---|-------------------------------|-------|----------|
| 1  | COPYRIGHT | LY2019008921        | INTELLIGENT BEEHIVES MONITORING SYSTEM IBMS   | SITI MAHERAH BINTI HUSSIN     | POWER | CEES     |
| 2  | COPYRIGHT | LY2019001350        | FLOWCHART FOR DIGITAL DEFECT COUNTER USING MOBILE APPS                                      | MOHAMAD HAFIS IZRAN BIN ISHAK | CMED  | PROTOM-I |
| 3  | COPYRIGHT | LY2019002449        | CARTA ALIR PROSES PELAPORAN DI APLIKASI E-NO WASTE  | MOHAMAD HAFIS IZRAN BIN ISHAK | CMED  | PROTOM-I |
| 4  | COPYRIGHT | LY2019007371        | SOURCE CODE FOR DIGITAL DEFECT COUNTER USING MOBILE APPS                                    | MOHAMAD HAFIS IZRAN BIN ISHAK | CMED  | PROTOM-I |
| 5  | COPYRIGHT | LY2019005493        | SMART DONATION BOX  | ANITA BINTI AHMAD             | CMED  | PROTOM-I |
| 6  | COPYRIGHT | LY2019005494        | AUTO DISH RACK  | ANITA BINTI AHMAD             | CMED  | PROTOM-I |
| 7  | COPYRIGHT | LY2019007754        | POWER SAVER FOR INTENSITY CONTROLLED STREET LIGHT USING LDR TRANSDUCER                      | HERLINA BINTI ABDUL RAHIM     | CMED  | PROTOM-I |
| 8  | COPYRIGHT | LY2019007582        | FIRE ALARM SYSTEM   | HERLINA BINTI ABDUL RAHIM     | CMED  | PROTOM-I |
| 9  | COPYRIGHT | LY2019007581        | ABLUTION TROLLEY  | HERLINA BINTI ABDUL RAHIM     | CMED  | PROTOM-I |
| 10 | COPYRIGHT | LY2019007580        | DEVELOPMENT OF DUCT SMOKE DETECTOR  | HERLINA BINTI ABDUL RAHIM     | CMED  | PROTOM-I |
| 11 | COPYRIGHT | LY2019007579        | ANTI-THEFT SYSTEM FOR SELF-SERVICE WASHING MACHINE USING SHORT MESSAGE SERVICE SMS          | HERLINA BINTI ABDUL RAHIM     | CMED  | PROTOM-I |
| 12 | COPYRIGHT | LY2019007372        | CROWD MODELLING WITH OPTIMIZATION ALGORITHM FOR BUILDING DESIGN                             | HAZLINA BINTI SELAMAT         | CMED  | CAIRO    |
| 13 | COPYRIGHT | LY2019008479        | ELECTRONIC MELIPONINI ADVANCED SYSTEM (EMAS)  | MOHD AMRI BIN MD. YUNUS       | CMED  | MNSE     |
| 14 | COPYRIGHT | LY2019008904        | ALGORITHM FOR AUTOMATIC FALL-RISK PREDICTION AMONG ELDERLY PEOPLE USING ACCELERATION SIGNAL | AHMAD 'ATHIF BIN MOHD FAUDZI  | CMED  | CAIRO    |
| 15 | COPYRIGHT | LY2019008907        | LEADER-FOLLOWER ROBOT FOR COOPERATIVE TASK BASED ON TWO-WAY COMMUNICATION                   | NURUL ADILLA BT. MOHD SUBHA   | CMED  | ACRG     |

|    |           |              |   |                              |      |      |
|----|-----------|--------------|---|------------------------------|------|------|
| 16 | COPYRIGHT | LY2019008981 | CORE POWER CONTROL AT REAKTOR TRIGA PUSPATI (RTP)   | NURUL ADILLA BT. MOHD SUBHA  | CMED | ACRG |
| 17 | COPYRIGHT | LY2019008899 | WATER LEAKAGE DETECTION SYSTEM  | SALINDA BINTI BUYAMIN        | CMED | ACRG |
| 18 | COPYRIGHT | LY2019008896 | SOFTWARE DEVELOPMENT OF MOBILE APPLICATIONS ON SOIL MOISTURE MONITORING SYSTEM                          | SALINDA BINTI BUYAMIN        | CMED | ACRG |
| 19 | COPYRIGHT | LY2019002140 | PHOTONICS EXPERIMENT SERIES: MODE FIELD DIAMETER OF STEP INDEX SINGLE MODE FIBER                        | ASRUL IZAM BIN AZMI          | COMM | LCRG |
| 20 | COPYRIGHT | LY2019002142 | FIBER OPTIC HANDS-ON TRAINING: FIBER TERMINATION  | ASRUL IZAM BIN AZMI          | COMM | LCRG |
| 21 | COPYRIGHT | LY2019002194 | FIBER OPTIC HANDS-ON TRAINING: MEASUREMENT OF FIBER BRAGG GRATING TEMPERATURE RESPONSE                  | ASRUL IZAM BIN AZMI          | COMM | LCRG |
| 22 | COPYRIGHT | LY2019007469 | ALGORITHM OF COOPERATIVE NOMA SYSTEM WITH VIRTUAL FULL DUPLEX USER RELAYING                             | LEOW CHEE YEN                | COMM | WCC  |
| 23 | COPYRIGHT | LY2019008937 | ALGORITHM OF AMPLIFY-AND-FORWARD VIRTUAL FULL-DUPLEX RELAYING BASED COOPERATIVE NOMA                    | LEOW CHEE YEN                | COMM | WCC  |
| 24 | COPYRIGHT | LY2019002074 | FIBER OPTIC HANDS-ON TRAINING LAB SHEET: OPTICAL TIME-DOMAIN REFLECTOMETER                              | MUHAMMAD YUSOF BIN MOHD NOOR | COMM | LCRG |
| 25 | COPYRIGHT | LY2019007569 | SOURCE CODE FOR EDUCATIONAL ROBOTIC KIT   | NADIATULHUDA BINTI ZULKIFLI  | COMM | LCRG |
| 26 | COPYRIGHT | LY2019006619 | EXPERIMENTAL MEASUREMENT AND MODELING OF PATH LOSS FOR SPARSE OUTDOOR UTRAWIDEBAND CHANNELS             | RAZALI BIN NGAH              | COMM | WCC  |
| 27 | COPYRIGHT | LY2019007471 | WIRELESS ECG CIRCUITRY USING A SINGLE LAYER CIRCUIT LAYOUT  | FAUZAN KHAIRI BIN CHE HARUN  | ECE  | BMIE |
| 28 | COPYRIGHT | LY2019007470 | SILVER PRINTED ELECTRODE ON POLY-IMIDE FILM AND POLYETHYLENE NAPHTHALATE FILM FOR ECG MONITORING DEVICE | FAUZAN KHAIRI BIN CHE HARUN  | ECE  | BMIE |

|    |           |              |  |                             |     |       |
|----|-----------|--------------|--|-----------------------------|-----|-------|
| 29 | COPYRIGHT | LY2019008938 | A WIRELESS ECG DEVICE ON FLEXIBLE SUBSTRATE OF POLYETHYLENE TEREPHTHALATE (PET)                | FAUZAN KHAIRI BIN CHE HARUN | ECE | BMIE  |
| 30 | COPYRIGHT | LY2019008939 | A PORTABLE WIFI ECG DEVICE USING ESP8266 AND NEUROSKY CARDIO MODULE                            | FAUZAN KHAIRI BIN CHE HARUN | ECE | BMIE  |
| 31 | COPYRIGHT | LY2019008940 | ECG CIRCUITRY ON COTTON FABRIC BY USING GRAPHENE OXIDE   | FAUZAN KHAIRI BIN CHE HARUN | ECE | BMIE  |
| 32 | COPYRIGHT | LY2019008912 | CLASSIFICATION NEW PROGRAM   | ISMAHANI BINTI ISMAIL       | ECE | VECAD |
| 33 | COPYRIGHT | LY2019008654 | NBTABLENEW PROGRAM   | ISMAHANI BINTI ISMAIL       | ECE | VECAD |
| 34 | COPYRIGHT | LY2019008655 | NEW ATTACKS PROGRAM  | ISMAHANI BINTI ISMAIL       | ECE | VECAD |
| 35 | COPYRIGHT | LY2019008656 | FILTERING PROGRAM  | ISMAHANI BINTI ISMAIL       | ECE | VECAD |
| 36 | COPYRIGHT | LY2019002410 | SMART ALERT SYSTEM FOR MOTORCYCLE RIDERS   | MOHD AZHAR BIN ABDUL RAZAK  | ECE | BMIE  |
| 37 | COPYRIGHT | LY2019002070 | VHDL CODE OF 4 RADIO HUB DESIGN WITH TESTBENCH VERIFICATION.                                   | MOHD SHAHRIZAL BIN RUSLI    | ECE | VECAD |
| 38 | COPYRIGHT | LY2019002051 | SYSTEMC PROGRAM FOR FLIT ENQUEUE AND DEQUEUE PROCESSES IN FLIT MIGRATION USING NOXIM SIMULATOR | MOHD SHAHRIZAL BIN RUSLI    | ECE | VECAD |
| 39 | COPYRIGHT | LY2019007765 | SYSTEMC PROGRAM IMPLEMENTATION FOR ADAPTIVE PACKET RELOCATOR IN WIRELESS NETWORK-ON-CHIP       | MOHD SHAHRIZAL BIN RUSLI    | ECE | VECAD |
| 40 | COPYRIGHT | LY2019008984 | PYTHON CODE FOR OBJECT CLASSIFICATION USING DEEP LEARNING                                      | MOHD SHAHRIZAL BIN RUSLI    | ECE | VECAD |
| 41 | COPYRIGHT | LY2019008983 | PYTHON CODE FOR MODULE TRAINING OF HAND GESTURE RECOGNITION SYSTEM USING DEEP LEARNING         | MOHD SHAHRIZAL BIN RUSLI    | ECE | VECAD |
| 42 | COPYRIGHT | LY2019008893 | MICROPROCESSOR EDUCATIONAL DEVELOPMENT KIT MICROPED  | NORHAFIZAH BT RAMLI         | ECE | BMIE  |
| 43 | COPYRIGHT | LY2019008913 | PERL PROGRAM TO DERIVE R-GRAPH FROM REGISTER TRANSFER LEVEL DESCRIPTION                        | NORLINA BINTI PARAMAN       | ECE | VECAD |

|    |           |              |   |                                 |     |       |
|----|-----------|--------------|---|---------------------------------|-----|-------|
| 44 | COPYRIGHT | LY2019008903 | REGISTER DETECTION FOR SYSTEM OF PARTIAL SCAN INSERTION USING OBJECT ORIENTED PROGRAMMING                     | NORLINA BINTI PARAMAN           | ECE | VECAD |
| 45 | COPYRIGHT | LY2019008986 | PERL PROGRAM TO DERIVE MINIMUM FEEDBACK VERTEX SET  | NORLINA BINTI PARAMAN           | ECE | VECAD |
| 46 | COPYRIGHT | LY2019008982 | BRAINWAVE-CONTROLLED FOR SMART HOME SYSTEM APPLICATION  | NURUL ASHIKIN BINTI ABDUL KADIR | ECE | BMIE  |
| 47 | COPYRIGHT | LY2019008644 | NATURAL FREQUENCY MODULE OF DYNAMIC ECG FEATURES  | NURUL ASHIKIN BINTI ABDUL KADIR | ECE | BMIE  |
| 48 | COPYRIGHT | LY2019007526 | APPLICATION NOTES ON N-CHANNEL MOSFET: TWO-DIMENSIONAL PROCESS AND DEVICE SIMULATIONS WITH SENTAURUS TCADTOOL | NURUL EZAILA BINTI ALIAS        | ECE | CONE  |
| 49 | COPYRIGHT | LY2019002067 | ADAPTIVE SCREEN BRIGHTNESS TO MINIMIZE COMPUTER VISION SYNDROME   | PUSPA INAYAT BT. KHALID         | ECE | BMIE  |
| 50 | COPYRIGHT | LY2019007541 | INTEGRATED 16X1 ARRAY PHOTON COUNTING READOUT CIRCUIT FOR SOIL MACRO-NUTRIENT MONITORING USING FPGA AND ASIC  | SUHAILA BINTI ISAAK             | ECE | CONE  |
| 51 | COPYRIGHT | LY2019002445 | CONCEPT DESIGN OF ILLEGAL PARKING MONITORING SYSTEM FOR SMART CITY  | ZAHARAH BINTI JOHARI            | ECE | CONE  |
| 52 | COPYRIGHT | LY2019008218 | DESIGN AND FLOWCHART OF KIDS ALERT SYSTEM KAS DEVICE FOR DISTANCE MONITORING IN PUBLIC AREA                   | ZAHARAH BINTI JOHARI            | ECE | CONE  |

# Appendices

2020

Table 3.1: Masterlist of Section B1 – 2020

| NO. | VOT   | STAFF NAME                   | DEPT  | RG       | COE   | GRANT NAME                            |
|-----|-------|------------------------------|-------|----------|-------|---------------------------------------|
| 1   | 5F400 | ABDUL RASHID BIN HUSAIN      | CMED  | ACRG     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME     |
| 2   | 05G27 | ABU SAHMAH BIN MOHD SUPA'AT  | COMM  | LCRG     | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT   |
| 3   | 4B606 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED  | COE      | CAIRO | OTHERS                                |
| 4   | 4C296 | AHMAD SHAHIDAN BIN ABDULLAH  | COMM  | TeSS     | RG    | CONTRACT RESEARCH DTD                 |
| 5   | 5F209 | AHMAD ZURI B SHA'AMERI       | ECE   | DSIP     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME     |
| 6   | 15J79 | AMIRJAN BIN NAWABJAN         | ECE   | MNSE     | RG    | TIER 2                                |
| 7   | 04G96 | ANITA BINTI AHMAD            | CMED  | PROTOM-i | RG    | COLLABORATIVE RESEARCH GRANT          |
| 8   | 05G80 | ARNIDZA BINTI RAMLI          | COMM  | LCRG     | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT   |
| 9   | 17J71 | ASRUL IZAM BIN AZMI          | COMM  | LCRG     | RG    | UTM ENCOURAGEMENT RESEARCH            |
| 10  | 05G47 | AZHAR BIN KHAIRUDDIN         | POWER | PERG     | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT   |
| 11  | 17J69 | CAMALLIL BIN OMAR            | ECE   | BMIE     | RG    | UTM ENCOURAGEMENT RESEARCH            |
| 12  | 4B516 | CHUA TIEN HAN                | COMM  | COE      | WCC   | COLLABORATIVE RESEARCH GRANT NATIONAL |
| 13  | 07G53 | DALILA BINTI MAT SAID        | POWER | COE      | CEES  | UTM TRANSDICIPLINARY RESEARCH GRANT   |
| 14  | 4B244 | EILEEN SU LEE MING           | ECE   | BMIE     | RG    | OTHERS                                |
| 15  | 5F338 | FATIMAH SHAM BT. ISMAIL      | CMED  | COE      | CAIRO | FUNDAMENTAL RESEARCH GRANT SCHEME     |
| 16  | 4B304 | FAUZAN KHAIRI BIN CHE HARUN  | ECE   | BMIE     | RG    | OTHERS                                |
| 17  | 5F258 | FAZILAH BINTI HASSAN         | CMED  | ACRG     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME     |
| 18  | 04G18 | HAZLINA BINTI SELAMAT        | CMED  | COE      | CAIRO | COE RESEARCH GRANT                    |
| 19  | 20H62 | HERLINA BINTI ABDUL RAHIM    | CMED  | PROTOM-i | RG    | TIER 1                                |
| 20  | 5F293 | HERMAN BIN WAHID             | CMED  | PROTOM-i | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME     |
| 21  | 17J38 | ISMAHANI BINTI ISMAIL        | ECE   | VeCAD    | RG    | TIER 2                                |
| 22  | 4C062 | JAFRI BIN DIN                | COMM  | COE      | WCC   | CONTRACT                              |
| 23  | 4C233 | JASRUL JAMANI BIN JAMIAN     | POWER | PERG     | RG    | CONTRACT RESEARCH DTD                 |
| 24  | 18J69 | JOHARI BIN KASIM             | ECE   | BMIE     | RG    | UTM ENCOURAGEMENT RESEARCH            |
| 25  | 4B464 | KAMALUDIN BIN MOHAMAD YUSOF  | COMM  | CNets    | RG    | COLLABORATIVE RESEARCH GRANT NATIONAL |

| NO. | VOT   | STAFF NAME                           | DEPT  | RG       | COE   | GRANT NAME                                  |
|-----|-------|--------------------------------------|-------|----------|-------|---|
| 26  | 07G51 | KHAIRUL HAMIMAH BINTI ABAS           | CMED  | PROTOM-i | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 27  | 04G76 | KUMERESAN A/L A. DANAPALASINGAM      | CMED  | COE      | CAIRO | UTMSHINE                                    |
| 28  | 4B373 | LAU KWAN YIEW                        | POWER | COE      | IVAT  | OTHERS                                      |
| 29  | 4C094 | LEOW CHEE YEN                        | COMM  | COE      | WCC   | CONTRACT                                    |
| 30  | 5F319 | LEOW PEI LING                        | CMED  | PROTOM-i | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 31  | 19J72 | LIM CHENG SIONG                      | CMED  | ACRG     | RG    | UTM ENCOURAGEMENT RESEARCH                  |
| 32  | 06G48 | MADIHAH BINTI MD RASID               | POWER | PERG     | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 33  | 5F177 | MARWAN HADRI BIN AZMI                | COMM  | COE      | WCC   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 34  | 4F926 | MASTURA SHAFINAZ BINTI ZAINAL ABIDIN | ECE   | MNSE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 35  | 07G63 | MD PAUZI BIN ABDULLAH                | POWER | COE      | CEES  | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 36  | 5F043 | MICHAEL TAN LOONG PENG               | ECE   | CONE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 37  | 5F252 | MITRA BINTI MOHD ADDI                | ECE   | BMIE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 38  | 19J81 | MOHAMAD AMIR BIN SHAMSUDIN           | CMED  | ACRG     | RG    | UTM ENCOURAGEMENT RESEARCH                  |
| 39  | 17J63 | MOHAMAD HAFIS IZRAN BIN ISHAK        | CMED  | PROTOM-i | RG    | UTM ENCOURAGEMENT RESEARCH                  |
| 40  | 09G19 | MOHAMAD KAMAL B. A. RAHIM            | COMM  | ARFMRG   | RG    | UTM HIGH IMPACT RESEARCH                    |
| 41  | 06G94 | MOHAMAD RIJAL BIN HAMID              | COMM  | ARFMRG   | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 42  | 19J53 | MOHAMAD SHUKRI BIN ABDUL MANAF       | CMED  | PROTOM-i | RG    | UTM ENCOURAGEMENT RESEARCH                  |
| 43  | 4L710 | MOHAMAD SHUKRI BIN ZAINAL ABIDIN     | CMED  | ACRG     | RG    | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME |
| 44  | 06G14 | MOHAMED AFENDI BIN MOHAMED PIAH      | POWER | COE      | IVAT  | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 45  | 4C264 | MOHAMED SULTAN BIN MOHAMED ALI       | CMED  | PROTOM-i | RG    | CONTRACT                                    |
| 46  | 03G93 | MOHAMMAD YUSRI BIN HASSAN            | POWER | COE      | CEES  | COE RESEARCH GRANT                          |
| 47  | 5F375 | MOHD AFZAN BIN OTHMAN                | ECE   | BMIE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 48  | 20H22 | MOHD AMRI BIN MD. YUNUS              | CMED  | MNSE     | RG    | TIER 1                                      |
| 49  | 17J42 | MOHD ARIFFANAN BIN MOHD BASRI        | CMED  | ACRG     | RG    | TIER 2                                      |

| NO. | VOT   | STAFF NAME                            | DEPT  | RG       | COE  | GRANT NAME                                  |
|-----|-------|---------------------------------------|-------|----------|------|---|
| 50  | 5F078 | MOHD AZHAR BIN ABDUL RAZAK            | ECE   | BMIE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 51  | 04G68 | MOHD FAIRUS BIN MOHD YUSOFF           | COMM  | ARFMRG   | RG   | COLLABORATIVE RESEARCH GRANT                |
| 52  | 4F817 | MOHD FUA'AD BIN RAHMAT                | CMED  | PROTOM-i | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 53  | 5F120 | MOHD HAFIZ BIN HABI BUDDIN            | POWER | PERG     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 54  | 4B377 | MOHD HAFIZI BIN AHMAD                 | POWER | COE      | IVAT | OTHERS                                      |
| 55  | 4S134 | MOHD HAIZAL BIN JAMALUDDIN            | COMM  | COE      | WCC  | SCIENCEFUND                                 |
| 56  | 5F164 | MOHD HANIFF BIN IBRAHIM               | COMM  | LCRG     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 57  | 19J76 | MOHD RASHIDI BIN SALIM                | COMM  | LCRG     | RG   | UTM ENCOURAGEMENT RESEARCH                  |
| 58  | 19H22 | MOHD RIDZUAN BIN AHMAD                | CMED  | MNSE     | RG   | TIER 1                                      |
| 59  | 17J53 | MOHD SAIFUL AZIMI BIN MAHMUD          | COMM  | ACRG     | RG   | UTM ENCOURAGEMENT RESEARCH                  |
| 60  | 17J05 | MOHD SHAHRIZAL BIN RUSLI              | ECE   | VeCAD    | RG   | TIER 2                                      |
| 61  | 5F062 | MOHD WAZIR BIN MUSTAFA                | POWER | PERG     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 62  | 19J23 | MOHD ZAKI BIN DAUD                    | POWER | PEDG     | RG   | UTM ENCOURAGEMENT RESEARCH                  |
| 63  | 4C254 | MOHD. ADIB BIN SARIJARI               | COMM  | TeSS     | RG   | CONTRACT RESEARCH DTD                       |
| 64  | 21H46 | MOKHTAR HARUN                         | COMM  | STAR     | RG   | UTM FUNDAMENTAL RESEARCH                    |
| 65  | 4F966 | MONA RIZA BINTI MOHD ESA              | POWER | COE      | IVAT | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 66  | 5F128 | MUHAMMAD AFIQ NURUDIN BIN HAMZAH      | ECE   | CONE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 67  | 05G28 | MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | COMM  | LCRG     | RG   | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 68  | 4J339 | MUHAMMAD ARIFF BIN BAHARUDIN          | COMM  | CNets    | RG   | TRANSLATIONAL RESEARCH@CAMPUS               |
| 69  | 5F159 | MUHAMMAD NADZIR BIN MARSONO           | ECE   | VeCAD    | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 70  | 4L698 | MUHAMMAD NASIR BIN IBRAHIM            | ECE   | OTHERS   | RG   | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME |
| 71  | 18J13 | MUHAMMAD YUSOF BIN MOHD NOOR          | COMM  | LCRG     | RG   | TIER 2                                      |
| 72  | 5F179 | MUSA BIN MOHD MOKJI                   | ECE   | DSIP     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 73  | 4B385 | NADIATULHUDA BINTI ZULKIFLI           | CMED  | LCRG     | RG   | OTHERS                                      |
| 74  | 19J63 | NASARUDIN BIN AHMAD                   | CMED  | PROTOM-i | RG   | UTM ENCOURAGEMENT RESEARCH                  |
| 75  | 21H49 | NASRUL HUMAIMI BIN MAHMOOD            | ECE   | BMIE     | RG   | UTM FUNDAMENTAL RESEARCH                    |

| NO. | VOT   | STAFF NAME                        | DEPT  | RG       | COE  | GRANT NAME                                  |
|-----|-------|-----------------------------------|-------|----------|------|---|
| 76  | 5F296 | NIK NOORDINI BT NIK ABD MALIK     | COMM  | CNets    | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 77  | 19H27 | NOOR ASMAWATI BINTI SAMSURI       | COMM  | ARFMRG   | RG   | TIER 1                                      |
| 78  | 04G72 | NOOR ASNIZA BINTI MURAD           | COMM  | ARFMRG   | RG   | COLLABORATIVE RESEARCH GRANT                |
| 79  | 4B382 | NOOR AZLINDA BINTI AHMAD          | POWER | COE      | IVAT | OTHERS                                      |
| 80  | 17J50 | NOR AINI BINTI ZAKARIA            | ECE   | BMIE     | RG   | UTM ENCOURAGEMENT RESEARCH                  |
| 81  | 05G79 | NORAZAN BIN MOHD KASSIM           | COMM  | LCRG     | RG   | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 82  | 18J44 | NORHAFIZAH BT RAMLI               | ECE   | BMIE     | RG   | UTM ENCOURAGEMENT RESEARCH                  |
| 83  | 4L702 | NORHALIZA BINTI HAJI ABD WAHAB    | CMED  | ACRG     | RG   | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME |
| 84  | 5F048 | NORHUDAH BINTI SEMAN              | COMM  | COE      | WCC  | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 85  | 5F160 | NORJULIA BINTI MOHAMAD NORDIN     | POWER | PEDG     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 86  | 5F354 | NORLAILI BINTI MAT SAFRI          | ECE   | BMIE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 87  | 17J97 | NORLINA BINTI PARAMAN             | ECE   | VeCAD    | RG   | UTM ENCOURAGEMENT RESEARCH                  |
| 88  | 06G65 | NORZANAH BINTI ROSMIN             | POWER | COE      | CEES | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 89  | 4F968 | NURUL ADILLA BT. MOHD SUBHA       | CMED  | ACRG     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 90  | 17J08 | NURUL ASHIKIN BINTI ABDUL KADIR   | ECE   | BMIE     | RG   | TIER 2                                      |
| 91  | 5F130 | NURUL EZAILA BINTI ALIAS          | ECE   | CONE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 92  | 18J74 | NURUL MU'AZZAH BINTI ABDUL LATIFF | COMM  | CNets    | RG   | TIER 2                                      |
| 93  | 05G78 | NURZAL EFFIYANA BINTI GHAZALI     | COMM  | CNets    | RG   | UTM TRANSDICIPLINARY RESEARCH GRANT         |
| 94  | 4B437 | OMAR BIN ABDUL AZIZ               | COMM  | TeSS     | RG   | COLLABORATIVE RESEARCH GRANT NATIONAL       |
| 95  | 5F373 | OSMAN BIN AYOP                    | COMM  | ARFMRG   | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 96  | 5F275 | RASHIDAH@SITI SAEDAH BINTI ARSAT  | COMM  | CNETs    | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 97  | 4F965 | RAZALI BIN NGAH                   | COMM  | COE      | WCC  | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 98  | 4L713 | ROZEH A. RASHID                   | COMM  | TeSS     | RG   | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME |
| 99  | 5F123 | RUBITA BINTI SUDIRMAN             | ECE   | BMIE     | RG   | FUNDAMENTAL RESEARCH GRANT SCHEME           |
| 100 | 09G58 | RUZAIRI BIN ABDUL RAHIM           | CMED  | PROTOM-i | RG   | UTM RA ICONIC GRANT                         |

| NO. | VOT   | STAFF NAME                            | DEPT  | RG       | COE   | GRANT NAME                                   |
|-----|-------|---------------------------------------|-------|----------|-------|--|
| 101 | 19H45 | SAIFULNIZAM BIN ABD. KHALID           | POWER | PERG     | RG    | TIER 1                                       |
| 102 | 21H06 | SALLEHUDDIN BIN IBRAHIM               | CMED  | PROTOM-i | RG    | UTM FUNDAMENTAL RESEARCH                     |
| 103 | 18J15 | SAMURA BIN ALI                        | COMM  | TeSS     | RG    | UTM ENCOURAGEMENT RESEARCH                   |
| 104 | 4B579 | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG     | RG    | OTHERS                                       |
| 105 | 4J399 | SHAFISHUHAZA SAHLAN                   | CMED  | PROTOM-i | RG    | PROTOTYPE DEVELOPMENT FUND                   |
| 106 | 06G89 | SHAHARIN FADZLI BIN ABD RAHMAN        | ECE   | MNSE     | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT          |
| 107 | 5F331 | SHAHIDATUL SADIAH BINTI ABDUL MANAN   | ECE   | DSIP     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME            |
| 108 | 19J28 | SHahrin bin MD AYOB                   | POWER | PEDG     | RG    | UTM ENCOURAGEMENT RESEARCH                   |
| 109 | 04E19 | SHARIFAH HAFIZAH BINTI SYED ARIFFIN   | COMM  | CNets    | RG    | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY |
| 110 | 4B401 | SHARIFAH KAMILAH BT SYED YUSOF        | COMM  | CNets    | RG    | OTHERS                                       |
| 111 | 4B536 | SHARUL KAMAL BIN ABDUL RAHIM          | COMM  | COE      | WCC   | OTHERS                                       |
| 112 | 19H40 | SITI MAHERAH BINTI HUSSIN             | POWER | COE      | CEES  | TIER 1                                       |
| 113 | 17J70 | SITI ZALEHA BT. ABDUL HAMID           | COMM  | TeSS     | RG    | UTM ENCOURAGEMENT RESEARCH                   |
| 114 | 4F959 | SUHAILA BINTI ISAAK                   | ECE   | CONE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME            |
| 115 | 5F053 | SUHANA BINTI MOHAMED SULTAN           | ECE   | CONE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME            |
| 116 | 4C396 | SYED ABDUL RAHMAN BIN SYED ABU BAKAR  | ECE   | DSIP     | RG    | CONTRACT                                     |
| 117 | 4L431 | SYED NORAZIZUL BIN SYED NASIR         | POWER | PERG     | RG    | CENTRE FOR COMMUNITY AND INDUSTRY NETWORK    |
| 118 | 09G32 | TAN CHEE WEI                          | POWER | PEDG     | RG    | UTMSHINE                                     |
| 119 | 19H38 | THAREK BIN ABD RAHMAN                 | COMM  | COE      | WCC   | TIER 1                                       |
| 120 | 19H61 | USMAN ULLAH SHEIKH                    | ECE   | DSIP     | RG    | TIER 1                                       |
| 121 | 4B402 | YEONG CHE FAI                         | CMED  | COE      | CAIRO | OTHERS                                       |
| 122 | 06G78 | YUSMEERAZ BINTI YUSOF                 | ECE   | CONE     | RG    | UTM TRANSDICIPLINARY RESEARCH GRANT          |
| 123 | 5F084 | YUSRI B MD. YUNOS                     | CMED  | PROTOM-i | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME            |
| 124 | 5F295 | ZAHARAH BINTI JOHARI                  | ECE   | CONE     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME            |
| 125 | 5F044 | ZAHARUDDIN B MOHAMED                  | CMED  | ACRG     | RG    | FUNDAMENTAL RESEARCH GRANT SCHEME            |
| 126 | 4C388 | ZAINAL BIN SALAM                      | POWER | COE      | CEES  | CONTRACT                                     |
| 127 | 4B483 | ZULKARNAIN BIN AHMAD NOORDEN          | POWER | COE      | IVAT  | COLLABORATIVE RESEARCH GRANT NATIONAL        |

| NO. | VOT   | STAFF NAME               | DEPT  | RG  | COE  | GRANT NAME                          |
|-----|-------|--------------------------|-------|-----|------|-------------------------------------|
| 128 | 4B379 | ZULKURNAIN B. ABD. MALEK | POWER | COE | IVAT | OTHERS                              |
| 129 | 07G43 | ZURAIMY BIN ADZIS        | POWER | COE | IVAT | UTM TRANSDICIPLINARY RESEARCH GRANT |

Table 3.2: Masterlist of Section C2 - 2020

| NO. | VOT       | STAFF NAME                   | DEPT | RG   | COE   | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|------------------------------|------|------|-------|------------------|--|---------------------------|-----------------|
| 1   | 08G87     | ABDUL RASHID BIN HUSAIN      | CMED | ACRG | RG    | UNIVERSITY       | UTM HIGH IMPACT RESEARCH                     | 120,000.00                | 61,300.00       |
| 2   | 5F400     | ABDUL RASHID BIN HUSAIN      | CMED | ACRG | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 77,570.00                 | 41,970.00       |
| 3   | 05G27     | ABU SAHMAH BIN MOHD SUPA'AT  | COMM | LCRG | RG    | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 80,000.00                 | 0.00            |
| 4   | 07G25     | ABU SAHMAH BIN MOHD SUPA'AT  | COMM | LCRG | RG    | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 160,000.00                | 0.00            |
| 5   | 08G57     | ABU SAHMAH BIN MOHD SUPA'AT  | COMM | LCRG | RG    | UNIVERSITY       | UTM HIGH IMPACT RESEARCH                     | 150,000.00                | 74,800.00       |
| 6   | 04E98     | ABU SAHMAH BIN MOHD SUPA'AT  | COMM | LCRG | RG    | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 65,000.00                 | 65,000.00       |
| 7   | 04E92     | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE  | CAIRO | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 0.00            |
| 8   | 01M0<br>4 | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE  | CAIRO | UNIVERSITY       | MATCHING GRANT                               | 72,000.00                 | 0.00            |
| 9   | 5F137     | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE  | CAIRO | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 129,500.00                | 0.00            |
| 10  | 4J398     | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE  | CAIRO | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND                   | 20,000.00                 | 0.00            |
| 11  | 20H36     | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE  | CAIRO | UNIVERSITY       | TIER 1                                       | 50,000.00                 | 0.00            |

| NO. | VOT       | STAFF NAME                   | DEPT | RG        | COE   | SPONSOR CATEGORY | GRANT NAME                                  | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|------------------------------|------|-----------|-------|------------------|---|---------------------------|-----------------|
| 12  | 04G98     | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE       | CAIRO | UNIVERSITY       | UTMSHINE                                    | 40,000.00                 | 14,700.00       |
| 13  | 08G31     | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE       | CAIRO | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                | 40,000.00                 | 30,500.00       |
| 14  | 4L714     | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE       | CAIRO | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME | 162,000.00                | 162,000.00      |
| 15  | 4J457     | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE       | CAIRO | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND                  | 20,000.00                 | 20,000.00       |
| 16  | 4J452     | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE       | CAIRO | UNIVERSITY       | UTM R&D FUND                                | 50,000.00                 | 50,000.00       |
| 17  | 4J465     | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE       | CAIRO | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND                  | 20,000.00                 | 20,000.00       |
| 18  | 4B606     | AHMAD 'ATHIF BIN MOHD FAUDZI | CMED | COE       | CAIRO | INTERNATIONAL    | OTHERS                                      | 15,400.07                 | 15,400.07       |
| 19  | 16J34     | AHMAD SHAHIDAN BIN ABDULLAH  | COMM | Tess      | RG    | UNIVERSITY       | TIER 2                                      | 30,000.00                 | 0.00            |
| 20  | 4C296     | AHMAD SHAHIDAN BIN ABDULLAH  | COMM | Tess      | RG    | PRIVATE          | CONTRACT RESEARCH DTD                       | 88,200.00                 | 0.00            |
| 21  | 00L59     | AHMAD SHAHIDAN BIN ABDULLAH  | COMM | Tess      | RG    | UNIVERSITY       | UTM PROTOTYPE RESEARCH                      | 75,000.00                 | 49,000.00       |
| 22  | 4B458     | AHMAD SHAHIDAN BIN ABDULLAH  | COMM | Tess      | RG    | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL       | 20,000.00                 | 20,000.00       |
| 23  | 02M5<br>5 | AHMAD SHAHIDAN BIN ABDULLAH  | COMM | Tess      | RG    | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT     | 20,000.00                 | 20,000.00       |
| 24  | 5F209     | AHMAD ZURI B SHA'AMERI       | ECE  | DSIP      | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 76,200.00                 | 0.00            |
| 25  | 15J79     | AMIRJAN BIN NAWABJAN         | ECE  | MNSE      | RG    | UNIVERSITY       | TIER 2                                      | 30,000.00                 | 0.00            |
| 26  | 04G96     | ANITA BINTI AHMAD            | CMED | PROT OM-i | RG    | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                | 20,000.00                 | 9,900.00        |
| 27  | 21H43     | ANITA BINTI AHMAD            | CMED | PROT OM-i | RG    | UNIVERSITY       | UTM FUNDAMENTAL RESEARCH                    | 60,000.00                 | 34,000.00       |

| NO. | VOT       | STAFF NAME                  | DEPT  | RG   | COE  | SPONSOR CATEGORY | GRANT NAME                              | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|-----------------------------|-------|------|------|------------------|---|---------------------------|-----------------|
| 28  | 05G80     | ARNIDZA BINTI RAMLI         | COMM  | LCRG | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT     | 39,000.00                 | 0.00            |
| 29  | 17J71     | ASRUL IZAM BIN AZMI         | COMM  | LCRG | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH              | 30,000.00                 | 11,250.00       |
| 30  | 05G47     | AZHAR BIN KHAIRUDDIN        | POWER | PERG | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT     | 80,000.00                 | 0.00            |
| 31  | 5F165     | AZLI BIN YAHYA              | #N/A  | #N/A | #N/A | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME       | 107,200.00                | 21,600.00       |
| 32  | 19H70     | AZLI BIN YAHYA              | #N/A  | #N/A | #N/A | UNIVERSITY       | TIER 1                                  | 40,000.00                 | 0.00            |
| 33  | 4C321     | ABDUL RASHID BIN HUSAIN     | CMED  | ACRG | RG   | PRIVATE          | CONTRACT RESEARCH DTD                   | 100,000.00                | 100,000.00      |
| 34  | 02M3<br>7 | ABDUL RASHID BIN HUSAIN     | CMED  | ACRG | RG   | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT | 20,000.00                 | 20,000.00       |
| 35  | 4C374     | ABU SAHMAH BIN MOHD SUPA'AT | COMM  | LCRG | RG   | PRIVATE          | CONTRACT RESEARCH DTD                   | 100,000.00                | 100,000.00      |
| 36  | 17J69     | CAMALLIL BIN OMAR           | ECE   | BMIE | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH              | 29,958.00                 | 17,500.00       |
| 37  | 4B516     | CHUA TIEN HAN               | COMM  | COE  | WCC  | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL   | 20,000.00                 | 20,000.00       |
| 38  | 4J493     | CHUA TIEN HAN               | COMM  | COE  | WCC  | NATIONAL         | HICOE RESEARCH GRANT                    | 0.00                      | 0.00            |
| 39  | 07G53     | DALILA BINTI MAT SAID       | POWER | COE  | CEES | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT     | 40,000.00                 | 19,500.00       |
| 40  | 4J347     | DALILA BINTI MAT SAID       | POWER | COE  | CEES | UNIVERSITY       | TRANSLATIONAL RESEARCH@CAM PUS          | 158,200.00                | 0.00            |
| 41  | 4B244     | EILEEN SU LEE MING          | ECE   | BMIE | RG   | PRIVATE          | OTHERS                                  | 457,026.00                | 0.00            |

| NO. | VOT   | STAFF NAME                  | DEPT | RG        | COE   | SPONSOR CATEGORY | GRANT NAME                        | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|-----------------------------|------|-----------|-------|------------------|-----------------------------------|---------------------------|-----------------|
| 42  | 19J19 | FATIMAH SHAM BT. ISMAIL     | CMED | COE       | CAIRO | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH        | 56,000.00                 | 32,200.00       |
| 43  | 5F338 | FATIMAH SHAM BT. ISMAIL     | CMED | COE       | CAIRO | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 69,000.00                 | 38,500.00       |
| 44  | 01M13 | FAUZAN KHAIRI BIN CHE HARUN | ECE  | BMIE      | RG    | UNIVERSITY       | MATCHING GRANT                    | 250,000.00                | 0.00            |
| 45  | 4B304 | FAUZAN KHAIRI BIN CHE HARUN | ECE  | BMIE      | RG    | INTERNATIONAL    | OTHERS                            | 519,464.00                | 0.00            |
| 46  | 5F258 | FAZILAH BINTI HASSAN        | CMED | ACRG      | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 90,000.00                 | 0.00            |
| 47  | 16J40 | FAZILAH BINTI HASSAN        | CMED | ACRG      | RG    | UNIVERSITY       | TIER 2                            | 20,000.00                 | 0.00            |
| 48  | 04G18 | HAZLINA BINTI SELAMAT       | CMED | COE       | CAIRO | UNIVERSITY       | COE RESEARCH GRANT                | 50,000.00                 | 0.00            |
| 49  | 00L31 | HAZLINA BINTI SELAMAT       | CMED | COE       | CAIRO | UNIVERSITY       | UTM PROTOTYPE RESEARCH            | 45,000.00                 | 41,772.95       |
| 50  | 20H11 | HERLINA BINTI ABDUL RAHIM   | CMED | PROT OM-i | RG    | UNIVERSITY       | TIER 1                            | 50,000.00                 | 0.00            |
| 51  | 20H62 | HERLINA BINTI ABDUL RAHIM   | CMED | PROT OM-i | RG    | UNIVERSITY       | TIER 1                            | 100,000.00                | 31,100.00       |
| 52  | 05G02 | HERLINA BINTI ABDUL RAHIM   | CMED | PROT OM-i | RG    | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT      | 20,000.00                 | 0.00            |
| 53  | 08G47 | HERLINA BINTI ABDUL RAHIM   | CMED | PROT OM-i | RG    | UNIVERSITY       | UTM HIGH IMPACT RESEARCH          | 150,000.00                | 70,400.00       |
| 54  | 05G03 | HERMAN BIN WAHID            | CMED | PROT OM-i | RG    | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT      | 20,000.00                 | 2,500.00        |
| 55  | 5F293 | HERMAN BIN WAHID            | CMED | PROT OM-i | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 117,350.00                | 62,050.00       |
| 56  | 17J38 | ISMAHANI BINTI ISMAIL       | ECE  | VeCADD    | RG    | UNIVERSITY       | TIER 2                            | 30,000.00                 | 0.00            |
| 57  | 4J410 | JAFRI BIN DIN               | COMM | COE       | WCC   | NATIONAL         | HICOE RESEARCH GRANT              | 0.00                      | 0.00            |
| 58  | 4F958 | JAFRI BIN DIN               | COMM | COE       | WCC   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME | 98,580.00                 | 0.00            |

| NO. | VOT       | STAFF NAME                    | DEPT  | RG        | COE | SPONSOR CATEGORY | GRANT NAME                             | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|-------------------------------|-------|-----------|-----|------------------|--|---------------------------|-----------------|
| 59  | 4C062     | JAFRI BIN DIN                 | COMM  | COE       | WCC | INTERNATIONAL    | CONTRACT                               | 141,092.39                | 24,899.41       |
| 60  | 01M2<br>8 | JAFRI BIN DIN                 | COMM  | COE       | WCC | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 20,000.00                 | 0.00            |
| 61  | 4B571     | JAFRI BIN DIN                 | COMM  | COE       | WCC | INTERNATIONAL    | OTHERS                                 | 40,000.00                 | 20,000.00       |
| 62  | 02M4<br>2 | JAFRI BIN DIN                 | COMM  | COE       | WCC | UNIVERSITY       | MATCHING GRANT                         | 40,000.00                 | 20,000.00       |
| 63  | 16J59     | JASRUL JAMANI<br>BIN JAMIAN   | POWER | PERG      | RG  | UNIVERSITY       | TIER 2                                 | 30,000.00                 | 0.00            |
| 64  | 4C233     | JASRUL JAMANI<br>BIN JAMIAN   | POWER | PERG      | RG  | PRIVATE          | CONTRACT RESEARCH DTD                  | 80,000.00                 | 0.00            |
| 65  | 01M6<br>6 | JASRUL JAMANI<br>BIN JAMIAN   | POWER | PERG      | RG  | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 20,000.00                 | 0.00            |
| 66  | 09G43     | JASRUL JAMANI<br>BIN JAMIAN   | POWER | PERG      | RG  | UNIVERSITY       | UTMSHINE                               | 40,000.00                 | 20,300.00       |
| 67  | 4C373     | JASRUL JAMANI<br>BIN JAMIAN   | POWER | PERG      | RG  | PRIVATE          | CONTRACT RESEARCH DTD                  | 15,000.00                 | 15,000.00       |
| 68  | 02M7<br>4 | JASRUL JAMANI<br>BIN JAMIAN   | POWER | PERG      | RG  | UNIVERSITY       | INDUSTRY-INTERNATIONAL INCENTIVE GRANT | 10,000.00                 | 10,000.00       |
| 69  | 18J69     | JOHARI BIN KASIM              | ECE   | BMIE      | RG  | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH             | 30,000.00                 | 27,500.00       |
| 70  | 06G96     | KAMALUDIN BIN MOHAMAD YUSOF   | COMM  | Cnets     | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT    | 42,000.00                 | 0.00            |
| 71  | 4B464     | KAMALUDIN BIN MOHAMAD YUSOF   | COMM  | Cnets     | RG  | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL  | 20,000.00                 | 20,000.00       |
| 72  | 19H79     | KHAIRUL HAMIMAH<br>BINTI ABAS | CMED  | PROT OM-i | RG  | UNIVERSITY       | TIER 1                                 | 50,000.00                 | 0.00            |
| 73  | 07G51     | KHAIRUL HAMIMAH<br>BINTI ABAS | CMED  | PROT OM-i | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT    | 40,000.00                 | 12,000.00       |

| NO. | VOT       | STAFF NAME                         | DEPT  | RG        | COE   | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|------------------------------------|-------|-----------|-------|------------------|--|---------------------------|-----------------|
| 74  | 04G76     | KUMERESAN A/L A.<br>DANAPALASINGAM | CMED  | COE       | CAIRO | UNIVERSITY       | UTMSHINE                                     | 40,000.00                 | 0.00            |
| 75  | 4B373     | LAU KWAN YIEW                      | POWER | COE       | IVAT  | INTERNATIONAL    | OTHERS                                       | 16,055.20                 | 0.00            |
| 76  | 16J55     | LAU KWAN YIEW                      | POWER | COE       | IVAT  | UNIVERSITY       | TIER 2                                       | 30,000.00                 | 0.00            |
| 77  | 5F158     | LAU KWAN YIEW                      | POWER | COE       | IVAT  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 93,000.00                 | 46,800.00       |
| 78  | 02M5<br>4 | LAU KWAN YIEW                      | POWER | COE       | IVAT  | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT      | 10,000.00                 | 10,000.00       |
| 79  | 4J416     | LEOW CHEE YEN                      | COMM  | COE       | WCC   | NATIONAL         | HICOE RESEARCH GRANT                         | 0.00                      | 0.00            |
| 80  | 4C094     | LEOW CHEE YEN                      | COMM  | COE       | WCC   | INTERNATIONAL    | CONTRACT                                     | 656,152.00                | 0.00            |
| 81  | 04G37     | LEOW CHEE YEN                      | COMM  | COE       | WCC   | UNIVERSITY       | HIGH IMPACT RESEARCH GRANT                   | 68,500.00                 | 0.00            |
| 82  | 19H58     | LEOW CHEE YEN                      | COMM  | COE       | WCC   | UNIVERSITY       | TIER 1                                       | 50,000.00                 | 0.00            |
| 83  | 00L27     | LEOW CHEE YEN                      | COMM  | COE       | WCC   | UNIVERSITY       | UTM PROTOTYPE RESEARCH                       | 80,000.00                 | 61,000.00       |
| 84  | 08G83     | LEOW CHEE YEN                      | COMM  | COE       | WCC   | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                 | 40,000.00                 | 38,000.00       |
| 85  | 09G15     | LEOW CHEE YEN                      | COMM  | COE       | WCC   | UNIVERSITY       | UTMSHINE                                     | 40,000.00                 | 34,000.00       |
| 86  | 05E07     | LEOW CHEE YEN                      | COMM  | COE       | WCC   | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 138,460.00                | 69,230.00       |
| 87  | 5F288     | LEOW CHEE YEN                      | COMM  | COE       | WCC   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 107,800.00                | 41,600.00       |
| 88  | 04G93     | LEOW PEI LING                      | CMED  | PROT OM-i | RG    | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                 | 40,000.00                 | 19,500.00       |
| 89  | 20H93     | LEOW PEI LING                      | CMED  | PROT OM-i | RG    | UNIVERSITY       | UTM FUNDAMENTAL RESEARCH                     | 60,000.00                 | 33,100.00       |
| 90  | 09G14     | LEOW PEI LING                      | CMED  | PROT OM-i | RG    | UNIVERSITY       | UTMSHINE                                     | 40,000.00                 | 24,100.00       |

| NO. | VOT   | STAFF NAME                           | DEPT  | RG        | COE  | SPONSOR CATEGORY | GRANT NAME                            | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|--------------------------------------|-------|-----------|------|------------------|---------------------------------------|---------------------------|-----------------|
| 91  | 5F319 | LEOW PEI LING                        | CMED  | PROT OM-i | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 125,800.00                | 47,600.00       |
| 92  | 19J72 | LIM CHENG SIONG                      | CMED  | ACRG      | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH            | 56,000.00                 | 32,000.00       |
| 93  | 06G48 | MADIHAH BINTI MD RASID               | POWER | PERG      | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 40,000.00                 | 0.00            |
| 94  | 4J413 | MARWAN HADRI BIN AZMI                | COMM  | COE       | WCC  | NATIONAL         | HICOE RESEARCH GRANT                  | 0.00                      | 0.00            |
| 95  | 5F177 | MARWAN HADRI BIN AZMI                | COMM  | COE       | WCC  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 69,200.00                 | 0.00            |
| 96  | 4B468 | MARWAN HADRI BIN AZMI                | COMM  | COE       | WCC  | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL | 20,000.00                 | 20,000.00       |
| 97  | 4F926 | MASTURA SHAFINAZ BINTI ZAINAL ABIDIN | ECE   | MNSE      | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 72,080.00                 | 0.00            |
| 98  | 5F292 | MASTURA SHAFINAZ BINTI ZAINAL ABIDIN | ECE   | MNSE      | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 69,700.00                 | 36,400.00       |
| 99  | 04G45 | MD PAUZI BIN ABDULLAH                | POWER | COE       | CEES | UNIVERSITY       | UTMSHINE                              | 50,000.00                 | 25,000.00       |
| 100 | 07G63 | MD PAUZI BIN ABDULLAH                | POWER | COE       | CEES | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 40,000.00                 | 0.00            |
| 101 | 5F043 | MICHAEL TAN LOONG PENG               | ECE   | CONE      | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 58,200.00                 | 0.00            |
| 102 | 21H51 | MICHAEL TAN LOONG PENG               | ECE   | CONE      | RG   | UNIVERSITY       | UTM FUNDAMENTAL RESEARCH              | 79,000.00                 | 64,700.00       |
| 103 | 5F252 | MITRA BINTI MOHD ADDI                | ECE   | BMIE      | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 100,690.00                | 0.00            |
| 104 | 19J81 | MOHAMAD AMIR BIN SHAMSUDIN           | CMED  | ACRG      | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH            | 56,000.00                 | 31,400.00       |

| NO. | VOT   | STAFF NAME                       | DEPT  | RG        | COE  | SPONSOR CATEGORY | GRANT NAME                                  | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|----------------------------------|-------|-----------|------|------------------|---|---------------------------|-----------------|
| 105 | 17J63 | MOHAMAD HAFIS IZRAN BIN ISHAK    | CMED  | PROT OM-i | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                  | 30,000.00                 | 0.00            |
| 106 | 04G67 | MOHAMAD KAMAL B. A. RAHIM        | COMM  | ARFM RG   | RG   | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                | 40,000.00                 | 0.00            |
| 107 | 06G15 | MOHAMAD KAMAL B. A. RAHIM        | COMM  | ARFM RG   | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT         | 94,000.00                 | 21,200.00       |
| 108 | 09G19 | MOHAMAD KAMAL B. A. RAHIM        | COMM  | ARFM RG   | RG   | UNIVERSITY       | UTM HIGH IMPACT RESEARCH                    | 110,000.00                | 40,000.00       |
| 109 | 4J449 | MOHAMAD KAMAL B. A. RAHIM        | COMM  | ARFM RG   | RG   | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND                  | 20,000.00                 | 20,000.00       |
| 110 | 06G94 | MOHAMAD RIJAL BIN HAMID          | COMM  | ARFM RG   | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT         | 42,000.00                 | 0.00            |
| 111 | 19J53 | MOHAMAD SHUKRI BIN ABDUL MANAF   | CMED  | PROT OM-i | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                  | 56,000.00                 | 31,000.00       |
| 112 | 4L710 | MOHAMAD SHUKRI BIN ZAINAL ABIDIN | CMED  | ACRG      | RG   | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME | 80,900.00                 | 80,900.00       |
| 113 | 06G14 | MOHAMED AFENDI BIN MOHAMED PIAH  | POWER | COE       | IVAT | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT         | 40,000.00                 | 0.00            |
| 114 | 4C300 | MOHAMED SULTAN BIN MOHAMED ALI   | CMED  | PROT OM-i | RG   | PRIVATE          | CONTRACT RESEARCH DTD                       | 784,875.00                | 574,875.00      |
| 115 | 4C301 | MOHAMED SULTAN BIN MOHAMED ALI   | CMED  | PROT OM-i | RG   | PRIVATE          | CONTRACT RESEARCH DTD                       | 286,125.00                | 32,625.00       |
| 116 | 05G35 | MOHAMED SULTAN BIN MOHAMED ALI   | CMED  | PROT OM-i | RG   | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                | 40,000.00                 | 10,000.00       |
| 117 | 4C264 | MOHAMED SULTAN BIN MOHAMED ALI   | CMED  | PROT OM-i | RG   | PRIVATE          | CONTRACT                                    | 20,000.00                 | 0.00            |
| 118 | 5F081 | MOHAMED SULTAN BIN MOHAMED ALI   | CMED  | PROT OM-i | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 90,800.00                 | 36,300.00       |

| NO. | VOT       | STAFF NAME                        | DEPT  | RG           | COE  | SPONSOR CATEGORY | GRANT NAME                                       | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|-----------------------------------|-------|--------------|------|------------------|--|---------------------------|-----------------|
| 119 | 01M6<br>9 | MOHAMED SULTAN<br>BIN MOHAMED ALI | CMED  | PROT<br>OM-i | RG   | UNIVERSITY       | INDUSTRY-<br>INTERNATIONAL<br>INCENTIVE<br>GRANT | 10,000.00                 | 0.00            |
| 120 | 04G75     | MOHAMED SULTAN<br>BIN MOHAMED ALI | CMED  | PROT<br>OM-i | RG   | UNIVERSITY       | UTMSHINE   | 40,000.00                 | 0.00            |
| 121 | 4C302     | MOHAMED SULTAN<br>BIN MOHAMED ALI | CMED  | PROT<br>OM-i | RG   | PRIVATE          | CONTRACT<br>RESEARCH DTD                         | 136,500.00                | 0.00            |
| 122 | 00L28     | MOHAMED SULTAN<br>BIN MOHAMED ALI | CMED  | PROT<br>OM-i | RG   | UNIVERSITY       | UTM PROTOTYPE<br>RESEARCH                        | 80,000.00                 | 62,900.00       |
| 123 | 02M3<br>3 | MOHAMED SULTAN<br>BIN MOHAMED ALI | CMED  | PROT<br>OM-i | RG   | UNIVERSITY       | INDUSTRY-<br>INTERNATIONAL<br>INCENTIVE<br>GRANT | 20,000.00                 | 20,000.00       |
| 124 | 02M3<br>6 | MOHAMED SULTAN<br>BIN MOHAMED ALI | CMED  | PROT<br>OM-i | RG   | UNIVERSITY       | INDUSTRY-<br>INTERNATIONAL<br>INCENTIVE<br>GRANT | 20,000.00                 | 20,000.00       |
| 125 | 4C371     | MOHAMED SULTAN<br>BIN MOHAMED ALI | CMED  | PROT<br>OM-i | RG   | PRIVATE          | CONTRACT   | 40,000.00                 | 20,000.00       |
| 126 | 03G93     | MOHAMMAD<br>YUSRI BIN HASSAN      | POWER | COE          | CEES | UNIVERSITY       | COE RESEARCH<br>GRANT                            | 50,000.00                 | 26,500.00       |
| 127 | 4J334     | MOHAMMAD<br>YUSRI BIN HASSAN      | POWER | COE          | CEES | UNIVERSITY       | TRANSLATIONAL<br>RESEARCH@CAM<br>PUS             | 94,000.00                 | 0.00            |
| 128 | 17J91     | MOHD AFZAN BIN<br>OTHMAN          | ECE   | BMIE         | RG   | UNIVERSITY       | TIER 2   | 29,500.00                 | 0.00            |
| 129 | 5F375     | MOHD AFZAN BIN<br>OTHMAN          | ECE   | BMIE         | RG   | NATIONAL         | FUNDAMENTAL<br>RESEARCH<br>GRANT SCHEME          | 88,300.00                 | 28,500.00       |
| 130 | 20H22     | MOHD AMRI BIN<br>MD. YUNUS        | CMED  | MNSE         | RG   | UNIVERSITY       | TIER 1   | 50,000.00                 | 0.00            |
| 131 | 09G25     | MOHD AMRI BIN<br>MD. YUNUS        | CMED  | MNSE         | RG   | UNIVERSITY       | UTMSHINE   | 40,000.00                 | 32,650.00       |
| 132 | 17J42     | MOHD ARIFFANAN<br>BIN MOHD BASRI  | CMED  | ACRG         | RG   | UNIVERSITY       | TIER 2   | 30,000.00                 | 0.00            |
| 133 | 5F078     | MOHD AZHAR BIN<br>ABDUL RAZAK     | ECE   | BMIE         | RG   | NATIONAL         | FUNDAMENTAL<br>RESEARCH<br>GRANT SCHEME          | 51,000.00                 | 20,500.00       |
| 134 | 04G68     | MOHD FAIRUS BIN<br>MOHD YUSOFF    | COMM  | ARFM<br>RG   | RG   | NATIONAL         | COLLABORATIVE<br>RESEARCH<br>GRANT               | 20,000.00                 | 0.00            |

| NO. | VOT       | STAFF NAME                  | DEPT  | RG        | COE  | SPONSOR CATEGORY | GRANT NAME                              | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|-----------------------------|-------|-----------|------|------------------|---|---------------------------|-----------------|
| 135 | 20H79     | MOHD FAIRUS BIN MOHD YUSOFF | COMM  | ARFM RG   | RG   | UNIVERSITY       | UTM FUNDAMENTAL RESEARCH                | 75,000.00                 | 28,000.00       |
| 136 | 5F390     | MOHD FAIRUS BIN MOHD YUSOFF | COMM  | ARFM RG   | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME       | 79,792.00                 | 40,394.00       |
| 137 | 4F817     | MOHD FUAD BIN RAHMAT        | CMED  | PROT OM-i | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME       | 121,500.00                | 0.00            |
| 138 | 06G80     | MOHD FUAD BIN RAHMAT        | CMED  | PROT OM-i | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT     | 90,000.00                 | 41,000.00       |
| 139 | 08G80     | MOHD FUAD BIN RAHMAT        | CMED  | PROT OM-i | RG   | UNIVERSITY       | UTM HIGH IMPACT RESEARCH                | 110,000.00                | 59,600.00       |
| 140 | 5F120     | MOHD HAFIZ BIN HABI BUDDIN  | POWER | PERG      | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME       | 68,000.00                 | 0.00            |
| 141 | 05G39     | MOHD HAFIZ BIN HABI BUDDIN  | POWER | PERG      | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT     | 80,000.00                 | 31,600.00       |
| 142 | 04G81     | MOHD HAFIZI BIN AHMAD       | POWER | COE       | IVAT | UNIVERSITY       | UTMSHINE                                | 40,000.00                 | 3,000.00        |
| 143 | 4B383     | MOHD HAFIZI BIN AHMAD       | POWER | COE       | IVAT | INTERNATIONAL    | OTHERS                                  | 15,000.00                 | 0.00            |
| 144 | 16J61     | MOHD HAFIZI BIN AHMAD       | POWER | COE       | IVAT | UNIVERSITY       | TIER 2                                  | 30,000.00                 | 0.00            |
| 145 | 01M7<br>3 | MOHD HAFIZI BIN AHMAD       | POWER | COE       | IVAT | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT | 50,000.00                 | 0.00            |
| 146 | 4B377     | MOHD HAFIZI BIN AHMAD       | POWER | COE       | IVAT | INTERNATIONAL    | OTHERS                                  | 15,000.00                 | 0.00            |
| 147 | 07G05     | MOHD HAFIZI BIN AHMAD       | POWER | COE       | IVAT | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT     | 40,000.00                 | 0.00            |
| 148 | 4J415     | MOHD HAIZAL BIN JAMALUDDIN  | COMM  | COE       | WCC  | NATIONAL         | HICOE RESEARCH GRANT                    | 0.00                      | 0.00            |
| 149 | 19H56     | MOHD HAIZAL BIN JAMALUDDIN  | COMM  | COE       | WCC  | UNIVERSITY       | TIER 1                                  | 50,000.00                 | 0.00            |

| NO. | VOT   | STAFF NAME                   | DEPT  | RG     | COE | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|------------------------------|-------|--------|-----|------------------|--|---------------------------|-----------------|
| 150 | 4S134 | MOHD HAIZAL BIN JAMALUDDIN   | COMM  | COE    | WCC | NATIONAL         | SCIENCEFUND                                  | 280,000.00                | 0.00            |
| 151 | 05G20 | MOHD HAIZAL BIN JAMALUDDIN   | COMM  | COE    | WCC | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 80,000.00                 | 24,000.00       |
| 152 | 5F164 | MOHD HANIFF BIN IBRAHIM      | COMM  | LCRG   | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 52,700.00                 | 0.00            |
| 153 | 19J76 | MOHD RASHIDI BIN SALIM       | COMM  | LCRG   | RG  | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                   | 56,000.00                 | 32,500.00       |
| 154 | 04E82 | MOHD RIDZUAN BIN AHMAD       | CMED  | MNSE   | RG  | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 138,460.00                | 0.00            |
| 155 | 19H22 | MOHD RIDZUAN BIN AHMAD       | CMED  | MNSE   | RG  | UNIVERSITY       | TIER 1                                       | 50,000.00                 | 0.00            |
| 156 | 00L23 | MOHD RIDZUAN BIN AHMAD       | CMED  | MNSE   | RG  | UNIVERSITY       | UTM PROTOTYPE RESEARCH                       | 65,000.00                 | 32,500.00       |
| 157 | 17J53 | MOHD SAIFUL AZIMI BIN MAHMUD | COMM  | ACRG   | RG  | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                   | 26,500.00                 | 0.00            |
| 158 | 17J05 | MOHD SHAHRIZAL BIN RUSLI     | ECE   | VeCADA | RG  | UNIVERSITY       | TIER 2                                       | 29,500.00                 | 0.00            |
| 159 | 5F062 | MOHD WAZIR BIN MUSTAFA       | POWER | PERG   | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 76,000.00                 | 0.00            |
| 160 | 19J23 | MOHD ZAKI BIN DAUD           | POWER | PEDG   | RG  | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                   | 56,000.00                 | 29,650.00       |
| 161 | 4C254 | MOHD. ADIB BIN SARIJARI      | COMM  | TeSS   | RG  | PRIVATE          | CONTRACT RESEARCH DTD                        | 243,338.00                | 36,500.70       |
| 162 | 01M50 | MOHD. ADIB BIN SARIJARI      | COMM  | Tess   | RG  | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT      | 15,000.00                 | 0.00            |
| 163 | 01M74 | MOHD. ADIB BIN SARIJARI      | COMM  | TeSS   | RG  | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT      | 15,000.00                 | 0.00            |
| 164 | 04G41 | MOHD. ADIB BIN SARIJARI      | COMM  | TESS   | RG  | UNIVERSITY       | HIGH IMPACT RESEARCH GRANT                   | 38,100.00                 | 0.00            |

| NO. | VOT   | STAFF NAME                            | DEPT  | RG   | COE  | SPONSOR CATEGORY | GRANT NAME                                  | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|---------------------------------------|-------|------|------|------------------|---|---------------------------|-----------------|
| 165 | 4J402 | MOHD. ADIB BIN SARIJARI               | COMM  | Tess | RG   | UNIVERSITY       | TRANSLATIONAL RESEARCH@CAM PUS              | 163,000.00                | 0.00            |
| 166 | 02M10 | MOHD. ADIB BIN SARIJARI               | COMM  | Tess | RG   | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT     | 20,000.00                 | 20,000.00       |
| 167 | 4C361 | MOHD. ADIB BIN SARIJARI               | COMM  | Tess | RG   | PRIVATE          | CONTRACT RESEARCH DTD                       | 26,250.00                 | 20,000.00       |
| 168 | 4C429 | MOHD. ADIB BIN SARIJARI               | COMM  | Tess | RG   | PRIVATE          | CONTRACT RESEARCH DTD                       | 47,000.00                 | 18,800.00       |
| 169 | 4L918 | MOHD. ADIB BIN SARIJARI               | COMM  | Tess | RG   | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME | 268,200.00                | 123,600.00      |
| 170 | 21H46 | MOKHTAR HARUN                         | COMM  | STAR | RG   | UNIVERSITY       | UTM FUNDAMENTAL RESEARCH                    | 55,200.00                 | 28,100.00       |
| 171 | 4F966 | MONA RIZA BINTI MOHD ESA              | POWER | COE  | IVAT | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 66,992.00                 | 0.00            |
| 172 | 05G87 | MONA RIZA BINTI MOHD ESA              | POWER | COE  | IVAT | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT         | 80,000.00                 | 0.00            |
| 173 | 09G04 | MONA RIZA BINTI MOHD ESA              | POWER | COE  | IVAT | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                | 40,000.00                 | 23,000.00       |
| 174 | 5F128 | MUHAMMAD AFIQ NURUDIN BIN HAMZAH      | ECE   | CONE | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 63,700.00                 | 0.00            |
| 175 | 16J87 | MUHAMMAD AFIQ NURUDIN BIN HAMZAH      | ECE   | CONE | RG   | UNIVERSITY       | TIER 2                                      | 20,000.00                 | 0.00            |
| 176 | 01M62 | MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | COMM  | LCRG | RG   | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT     | 15,000.00                 | 0.00            |
| 177 | 05G28 | MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | COMM  | LCRG | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT         | 40,000.00                 | 0.00            |

| NO. | VOT    | STAFF NAME                    | DEPT | RG        | COE | SPONSOR CATEGORY | GRANT NAME                                  | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|--------|-------------------------------|------|-----------|-----|------------------|---|---------------------------|-----------------|
| 178 | 4J397  | MUHAMMAD ARIFF BIN BAHARUDIN  | COMM | CNets     | RG  | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND                  | 20,000.00                 | 0.00            |
| 179 | 4J339  | MUHAMMAD ARIFF BIN BAHARUDIN  | COMM | CNets     | RG  | UNIVERSITY       | TRANSLATIONAL RESEARCH@CAM PUS              | 32,800.00                 | 0.00            |
| 180 | 5F159  | MUHAMMAD NADZIR BIN MARSONO   | ECE  | VeCA D    | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 62,700.00                 | 35,100.00       |
| 181 | 4L698  | MUHAMMAD NASIR BIN IBRAHIM    | ECE  | OTHE RS   | RG  | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME | 118,000.00                | 0.00            |
| 182 | 18J13  | MUHAMMAD YUSOF BIN MOHD NOOR  | COMM | LCRG      | RG  | UNIVERSITY       | TIER 2                                      | 30,000.00                 | 0.00            |
| 183 | 5F179  | MUSA BIN MOHD MOKJI           | ECE  | DSIP      | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 64,200.00                 | 0.00            |
| 184 | 04G71  | MUSA BIN MOHD MOKJI           | ECE  | DSIP      | RG  | UNIVERSITY       | UTMSHINE                                    | 40,000.00                 | 0.00            |
| 185 | 4B385  | NADIATULHUDA BINTI ZULKIFLI   | CMED | LCRG      | RG  | INTERNATIONAL    | OTHERS                                      | 37,650.38                 | 3,236.92        |
| 186 | 5F086  | NADIATULHUDA BINTI ZULKIFLI   | CMED | LCRG      | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 78,600.00                 | 49,300.00       |
| 187 | 01M7 1 | NADIATULHUDA BINTI ZULKIFLI   | CMED | LCRG      | RG  | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT     | 15,000.00                 | 0.00            |
| 188 | 05G60  | NADIATULHUDA BINTI ZULKIFLI   | CMED | LCRG      | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT         | 52,000.00                 | 20,700.00       |
| 189 | 19J63  | NASARUDIN BIN AHMAD           | CMED | PROT OM-i | RG  | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                  | 56,000.00                 | 38,000.00       |
| 190 | 21H49  | NASRUL HUMAIMI BIN MAHMOOD    | ECE  | BMIE      | RG  | UNIVERSITY       | UTM FUNDAMENTAL RESEARCH                    | 60,000.00                 | 60,000.00       |
| 191 | 06G63  | NIK NOORDINI BT NIK ABD MALIK | COMM | CNets     | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT         | 40,000.00                 | 21,100.00       |

| NO. | VOT   | STAFF NAME                        | DEPT  | RG         | COE  | SPONSOR CATEGORY | GRANT NAME                                  | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|-----------------------------------|-------|------------|------|------------------|---|---------------------------|-----------------|
| 192 | 21H64 | NIK NOORDINI BT<br>NIK ABD MALIK  | COMM  | CNets      | RG   | UNIVERSITY       | UTM FUNDAMENTAL RESEARCH                    | 78,000.00                 | 22,500.00       |
| 193 | 5F296 | NIK NOORDINI BT<br>NIK ABD MALIK  | COMM  | CNets      | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME           | 54,000.00                 | 23,000.00       |
| 194 | 19H27 | NOOR ASMAWATI<br>BINTI SAMSURI    | COMM  | ARFM<br>RG | RG   | UNIVERSITY       | TIER 1                                      | 50,000.00                 | 0.00            |
| 195 | 04G72 | NOOR ASNIZA BINTI<br>MURAD        | COMM  | ARFM<br>RG | RG   | NATIONAL         | COLLABORATIVE RESEARCH GRANT                | 20,000.00                 | 0.00            |
| 196 | 21H69 | NOOR ASNIZA BINTI<br>MURAD        | COMM  | ARFM<br>RG | RG   | UNIVERSITY       | UTM FUNDAMENTAL RESEARCH                    | 60,000.00                 | 31,600.00       |
| 197 | 4B382 | NOOR AZLINDA<br>BINTI AHMAD       | POWER | COE        | IVAT | INTERNATIONAL    | OTHERS                                      | 15,000.00                 | 0.00            |
| 198 | 06G50 | NOOR AZLINDA<br>BINTI AHMAD       | POWER | COE        | IVAT | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT         | 80,000.00                 | 0.00            |
| 199 | 17J50 | NORAINI BINTI<br>ZAKARIA          | ECE   | BMIE       | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                  | 30,000.00                 | 0.00            |
| 200 | 05G79 | NORAZAN BIN<br>MOHD KASSIM        | COMM  | LCRG       | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT         | 39,000.00                 | 0.00            |
| 201 | 18J44 | NORHAFIZAH BT<br>RAMLI            | ECE   | BMIE       | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                  | 30,000.00                 | 0.00            |
| 202 | 4L702 | NORHALIZA BINTI<br>HAJI ABD WAHAB | CMED  | ACRG       | RG   | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME | 89,000.00                 | 34,500.00       |
| 203 | 08G74 | NORHALIZA BINTI<br>HAJI ABD WAHAB | CMED  | ACRG       | RG   | UNIVERSITY       | UTM HIGH IMPACT RESEARCH                    | 110,000.00                | 43,000.00       |
| 204 | 4J408 | NORHUDAH BINTI<br>SEMAN           | COMM  | COE        | WCC  | NATIONAL         | HICOE RESEARCH GRANT                        | -                         | 0.00            |
| 205 | 4L684 | NORHUDAH BINTI<br>SEMAN           | COMM  | COE        | WCC  | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME | 94,340.00                 | 0.00            |

| NO. | VOT   | STAFF NAME                      | DEPT  | RG    | COE  | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|---------------------------------|-------|-------|------|------------------|--|---------------------------|-----------------|
| 206 | 5F048 | NORHUDAH BINTI SEMAN            | COMM  | COE   | WCC  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 84,500.00                 | 28,000.00       |
| 207 | 04E90 | NORHUDAH BINTI SEMAN            | COMM  | COE   | WCC  | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 138,460.00                | 0.00            |
| 208 | 5F160 | NORJULIA BINTI MOHAMAD NORDIN   | POWER | PEDG  | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 99,800.00                 | 0.00            |
| 209 | 05G61 | NORJULIA BINTI MOHAMAD NORDIN   | POWER | PEDG  | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 40,000.00                 | 20,500.00       |
| 210 | 06G93 | NORLAILI BINTI MAT SAFRI        | ECE   | BMIE  | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 80,000.00                 | 27,600.00       |
| 211 | 5F354 | NORLAILI BINTI MAT SAFRI        | ECE   | BMIE  | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 110,800.00                | 33,600.00       |
| 212 | 17J97 | NORLINA BINTI PARAMAN           | ECE   | VeCAD | RG   | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                   | 27,000.00                 | 0.00            |
| 213 | 06G65 | NORZANAH BINTI ROSMIN           | POWER | COE   | CEES | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 80,000.00                 | 14,700.00       |
| 214 | 4F968 | NURUL ADILLA BT. MOHD SUBHA     | CMED  | ACRG  | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 77,910.00                 | 0.00            |
| 215 | 16J21 | NURUL ADILLA BT. MOHD SUBHA     | CMED  | ACRG  | RG   | UNIVERSITY       | TIER 2                                       | 29,400.00                 | 14,700.00       |
| 216 | 5F329 | NURUL ADILLA BT. MOHD SUBHA     | CMED  | ACRG  | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 117,300.00                | 47,600.00       |
| 217 | 17J08 | NURUL ASHIKIN BINTI ABDUL KADIR | ECE   | BMIE  | RG   | UNIVERSITY       | TIER 2                                       | 20,000.00                 | 0.00            |
| 218 | 5F130 | NURUL EZAILA BINTI ALIAS        | ECE   | CONE  | RG   | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 60,500.00                 | 0.00            |
| 219 | 16J19 | NURUL EZAILA BINTI ALIAS        | ECE   | CONE  | RG   | UNIVERSITY       | TIER 2                                       | 30,000.00                 | 18,600.00       |

| NO. | VOT   | STAFF NAME                        | DEPT | RG      | COE | SPONSOR CATEGORY | GRANT NAME                            | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|-----------------------------------|------|---------|-----|------------------|---------------------------------------|---------------------------|-----------------|
| 220 | 07G45 | NURUL EZAILA BINTI ALIAS          | ECE  | CONE    | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 40,000.00                 | 19,000.00       |
| 221 | 18J74 | NURUL MU'AZZAH BINTI ABDUL LATIFF | COMM | CNets   | RG  | UNIVERSITY       | TIER 2                                | 30,000.00                 | 30,000.00       |
| 222 | 05G78 | NURZAL EFFIYANA BINTI GHAZALI     | COMM | CNets   | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 63,000.00                 | 31,500.00       |
| 223 | 5F178 | OMAR BIN ABDUL AZIZ               | COMM | TESS    | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 49,500.00                 | 0.00            |
| 224 | 4J409 | OMAR BIN ABDUL AZIZ               | COMM | TESS    | RG  | NATIONAL         | HICOE RESEARCH GRANT                  | -                         | 0.00            |
| 225 | 4B437 | OMAR BIN ABDUL AZIZ               | COMM | TESS    | RG  | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL | 20,000.00                 | 20,000.00       |
| 226 | 04G69 | OSMAN BIN AYOP                    | COMM | ARFM RG | RG  | NATIONAL         | COLLABORATIVE RESEARCH GRANT          | 20,000.00                 | 0.00            |
| 227 | 07G26 | OSMAN BIN AYOP                    | COMM | ARFM RG | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT   | 42,000.00                 | 0.00            |
| 228 | 09G24 | OSMAN BIN AYOP                    | COMM | ARFM RG | RG  | UNIVERSITY       | UTMSHINE                              | 40,000.00                 | 21,000.00       |
| 229 | 5F373 | OSMAN BIN AYOP                    | COMM | ARFM RG | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 119,800.00                | 37,600.00       |
| 230 | 05G00 | RASHIDAH@SITI SAEDAH BINTI ARSAT  | COMM | CNets   | RG  | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT          | 20,000.00                 | 0.00            |
| 231 | 5F275 | RASHIDAH@SITI SAEDAH BINTI ARSAT  | COMM | CNets   | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 105,400.00                | 68,800.00       |
| 232 | 4J412 | RAZALI BIN NGAH                   | COMM | COE     | WCC | NATIONAL         | HICOE RESEARCH GRANT                  | -                         | 0.00            |
| 233 | 4F965 | RAZALI BIN NGAH                   | COMM | COE     | WCC | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME     | 76,532.00                 | 0.00            |

| NO. | VOT       | STAFF NAME              | DEPT  | RG       | COE | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|-------------------------|-------|----------|-----|------------------|--|---------------------------|-----------------|
| 234 | 04E30     | RAZALI BIN NGAH         | COMM  | COE      | WCC | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 0.00            |
| 235 | 18J39     | RAZMAN BIN AYOP         | POWER | PEDG     | RG  | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                   | 18,936.80                 | 0.00            |
| 236 | 4J401     | ROZEHA BT. A. RASHID    | COMM  | Tess     | RG  | UNIVERSITY       | TRANSLATIONAL RESEARCH@CAMPUS                | 128,000.00                | 0.00            |
| 237 | 4J393     | ROZEHA BT. A. RASHID    | COMM  | Tess     | RG  | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND                   | 20,000.00                 | 0.00            |
| 238 | 01M2<br>2 | ROZEHA BT. A. RASHID    | COMM  | Tess     | RG  | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT      | 15,000.00                 | 0.00            |
| 239 | 01M4<br>5 | ROZEHA BT. A. RASHID    | COMM  | Tess     | RG  | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT      | 20,000.00                 | 0.00            |
| 240 | 5F174     | ROZEHA BT. A. RASHID    | COMM  | Tess     | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 80,760.00                 | 0.00            |
| 241 | 01M9<br>0 | ROZEHA BT. A. RASHID    | COMM  | Tess     | RG  | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT      | 20,000.00                 | 20,000.00       |
| 242 | 08G15     | ROZEHA BT. A. RASHID    | COMM  | Tess     | RG  | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT                 | 40,000.00                 | 25,540.00       |
| 243 | 4L713     | ROZEHA BT. A. RASHID    | COMM  | Tess     | RG  | NATIONAL         | PROTOTYPE DEVELOPMENT RESEARCH GRANT SCHEME  | 120,000.00                | 67,100.00       |
| 244 | 09G69     | ROZEHA BT. A. RASHID    | COMM  | Tess     | RG  | UNIVERSITY       | UTM RA ICONIC GRANT                          | 150,000.00                | 77,500.00       |
| 245 | 5F123     | RUBITA BINTI SUDIRMAN   | ECE   | BMIE     | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 74,600.00                 | 41,100.00       |
| 246 | 19J61     | RUZAIRI BIN ABDUL RAHIM | CMED  | PROTOM-i | RG  | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                   | 56,000.00                 | 32,000.00       |

| NO. | VOT       | STAFF NAME                            | DEPT  | RG        | COE | SPONSOR CATEGORY | GRANT NAME                              | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|---------------------------------------|-------|-----------|-----|------------------|---|---------------------------|-----------------|
| 247 | 09G58     | RUZAIRI BIN ABDUL RAHIM               | CMED  | PROT OM-i | RG  | UNIVERSITY       | UTM RA ICONIC GRANT                     | 150,000.00                | 59,000.00       |
| 248 | 19H45     | SAIFULNIZAM BIN ABD. KHALID           | POWER | PERG      | RG  | UNIVERSITY       | TIER 1                                  | 40,500.00                 | 0.00            |
| 249 | 21H06     | SALLEHUDDIN BIN IBRAHIM               | CMED  | PROT OM-i | RG  | UNIVERSITY       | UTM FUNDAMENTAL RESEARCH                | 78,000.00                 | 28,500.00       |
| 250 | 18J15     | SAMURA BIN ALI                        | COMM  | TESS      | RG  | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH              | 29,325.00                 | 0.00            |
| 251 | 4F961     | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG      | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME       | 97,626.00                 | 0.00            |
| 252 | 01M5<br>8 | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG      | RG  | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT | 10,000.00                 | 0.00            |
| 253 | 08G49     | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG      | RG  | UNIVERSITY       | UTM HIGH IMPACT RESEARCH                | 110,000.00                | 33,000.00       |
| 254 | 4B579     | SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | COMM  | LCRG      | RG  | INTERNATIONAL    | OTHERS                                  | 43,600.00                 | 41,699.00       |
| 255 | 07G68     | SHAFISHUHAZA SAHLAN                   | CMED  | PROT OM-i | RG  | UNIVERSITY       | COLLABORATIVE RESEARCH GRANT            | 20,000.00                 | 0.00            |
| 256 | 4J399     | SHAFISHUHAZA SAHLAN                   | CMED  | PROT OM-i | RG  | UNIVERSITY       | PROTOTYPE DEVELOPMENT FUND              | 20,000.00                 | 0.00            |
| 257 | 16J02     | SHAHARIN FADZLI BIN ABD RAHMAN        | ECE   | MNSE      | RG  | UNIVERSITY       | TIER 2                                  | 30,000.00                 | 0.00            |
| 258 | 06G89     | SHAHARIN FADZLI BIN ABD RAHMAN        | ECE   | MNSE      | RG  | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT     | 40,000.00                 | 13,800.00       |
| 259 | 16J83     | SHAHIDATUL SADIAH BINTI ABDUL MANAN   | ECE   | DSIP      | RG  | UNIVERSITY       | TIER 2                                  | 20,000.00                 | 0.00            |
| 260 | 5F331     | SHAHIDATUL SADIAH BINTI ABDUL MANAN   | ECE   | DSIP      | RG  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME       | 58,200.00                 | 27,100.00       |
| 261 | 19J28     | SHAHRI BIN MD AYOB                    | POWER | PEDG      | RG  | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH              | 56,000.00                 | 33,500.00       |

| NO. | VOT       | STAFF NAME                          | DEPT  | RG    | COE  | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|-------------------------------------|-------|-------|------|------------------|--|---------------------------|-----------------|
| 262 | 04E19     | SHARIFAH HAFIZAH BINTI SYED ARIFFIN | COMM  | Cnets | RG   | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 0.00            |
| 263 | 4B401     | SHARIFAH KAMILAH BT SYED YUSOF      | COMM  | Cnets | RG   | INTERNATIONAL    | OTHERS                                       | 952,617.00                | 92,381.34       |
| 264 | 05G16     | SHARIFAH KAMILAH BT SYED YUSOF      | COMM  | Cnets | RG   | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 80,000.00                 | 45,700.00       |
| 265 | 02M7<br>3 | SHARIFAH KAMILAH BT SYED YUSOF      | COMM  | Cnets | RG   | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT      | 20,000.00                 | 20,000.00       |
| 266 | 4J414     | SHARUL KAMAL BIN ABDUL RAHIM        | COMM  | COE   | WCC  | NATIONAL         | HICOE RESEARCH GRANT                         | -                         | 0.00            |
| 267 | 5F237     | SHARUL KAMAL BIN ABDUL RAHIM        | COMM  | COE   | WCC  | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 88,000.00                 | 0.00            |
| 268 | 4C269     | SHARUL KAMAL BIN ABDUL RAHIM        | COMM  | COE   | WCC  | PRIVATE          | CONTRACT RESEARCH DTD                        | 250,000.00                | 0.00            |
| 269 | 4J383     | SHARUL KAMAL BIN ABDUL RAHIM        | COMM  | COE   | WCC  | UNIVERSITY       | UTM R&D FUND                                 | 33,204.75                 | 0.00            |
| 270 | 00L47     | SHARUL KAMAL BIN ABDUL RAHIM        | COMM  | COE   | WCC  | UNIVERSITY       | UTM PROTOTYPE RESEARCH                       | 65,000.00                 | 40,000.00       |
| 271 | 01M9<br>1 | SHARUL KAMAL BIN ABDUL RAHIM        | COMM  | COE   | WCC  | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT      | 20,000.00                 | 20,000.00       |
| 272 | 4B536     | SHARUL KAMAL BIN ABDUL RAHIM        | COMM  | COE   | WCC  | INTERNATIONAL    | OTHERS                                       | 40,000.00                 | 20,000.00       |
| 273 | 01M9<br>8 | SHARUL KAMAL BIN ABDUL RAHIM        | COMM  | COE   | WCC  | UNIVERSITY       | MATCHING GRANT                               | 40,000.00                 | 20,000.00       |
| 274 | 05E12     | SHARUL KAMAL BIN ABDUL RAHIM        | COMM  | COE   | WCC  | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 127,858.06                | 62,858.06       |
| 275 | 19H40     | SITI MAHERAH BINTI HUSSIN           | POWER | COE   | CEES | UNIVERSITY       | TIER 1                                       | 50,000.00                 | 0.00            |
| 276 | 17J06     | SITI MAHERAH BINTI HUSSIN           | POWER | COE   | CEES | UNIVERSITY       | TIER 2                                       | 30,000.00                 | 0.00            |

| NO. | VOT   | STAFF NAME                           | DEPT  | RG   | COE   | SPONSOR CATEGORY | GRANT NAME                                | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-------|--------------------------------------|-------|------|-------|------------------|---|---------------------------|-----------------|
| 277 | 17J70 | SITI ZALEHA BT. ABDUL HAMID          | COMM  | Tess | RG    | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                | 30,000.00                 | 14,500.00       |
| 278 | 4F959 | SUHAILA BINTI ISAAK                  | ECE   | CONE | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME         | 62,540.00                 | 0.00            |
| 279 | 07G09 | SUHAILA BINTI ISAAK                  | ECE   | CONE | RG    | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT       | 40,000.00                 | 15,000.00       |
| 280 | 5F053 | SUHANA BINTI MOHAMED SULTAN          | ECE   | CONE | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME         | 109,875.00                | 8,000.00        |
| 281 | 19H33 | SUHANA BINTI MOHAMED SULTAN          | ECE   | CONE | RG    | UNIVERSITY       | TIER 1                                    | 50,000.00                 | 0.00            |
| 282 | 16J17 | SUHANA BINTI MOHAMED SULTAN          | ECE   | CONE | RG    | UNIVERSITY       | TIER 2                                    | 30,000.00                 | 0.00            |
| 283 | 4C396 | SYED ABDUL RAHMAN BIN SYED ABU BAKAR | ECE   | DSIP | RG    | INTERNATIONAL    | CONTRACT                                  | 100,636.00                | 64,491.80       |
| 284 | 17J76 | SYED NORAZIZUL BIN SYED NASIR        | POWER | PERG | RG    | UNIVERSITY       | UTM ENCOURAGEMENT RESEARCH                | 30,000.00                 | 0.00            |
| 285 | 4L431 | SYED NORAZIZUL BIN SYED NASIR        | POWER | PERG | RG    | UNIVERSITY       | CENTRE FOR COMMUNITY AND INDUSTRY NETWORK | 20,000.00                 | 20,000.00       |
| 286 | 09G32 | TAN CHEE WEI                         | POWER | PEDG | RG    | UNIVERSITY       | UTMSHINE                                  | 40,000.00                 | 25,500.00       |
| 287 | 4J411 | THAREK BIN ABD RAHMAN                | COMM  | COE  | WCC   | NATIONAL         | HICOE RESEARCH GRANT                      | -                         | 0.00            |
| 288 | 19H38 | THAREK BIN ABD RAHMAN                | COMM  | COE  | WCC   | UNIVERSITY       | TIER 1                                    | 50,000.00                 | 0.00            |
| 289 | 04G26 | THAREK BIN ABD RAHMAN                | COMM  | COE  | WCC   | UNIVERSITY       | HIGH IMPACT RESEARCH GRANT                | 148,100.00                | 0.00            |
| 290 | 19H61 | USMAN ULLAH SHEIKH                   | ECE   | DSIP | RG    | UNIVERSITY       | TIER 1                                    | 50,000.00                 | 0.00            |
| 291 | 4B402 | YEONG CHE FAI                        | CMED  | COE  | CAIRO | PRIVATE          | OTHERS                                    | 475,800.00                | 200,600.00      |
| 292 | 5F187 | YEONG CHE FAI                        | CMED  | COE  | CAIRO | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME         | 66,000.00                 | 29,500.00       |

| NO. | VOT       | STAFF NAME                   | DEPT  | RG        | COE   | SPONSOR CATEGORY | GRANT NAME                                   | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|------------------------------|-------|-----------|-------|------------------|--|---------------------------|-----------------|
| 293 | 01M8<br>5 | YEONG CHE FAI                | CMED  | COE       | CAIRO | UNIVERSITY       | MATCHING GRANT                               | 40,000.00                 | 33,000.00       |
| 294 | 4C428     | YEONG CHE FAI                | CMED  | COE       | CAIRO | PRIVATE          | CONTRACT RESEARCH DTD                        | 20,000.00                 | 20,000.00       |
| 295 | 02M8<br>0 | YEONG CHE FAI                | CMED  | COE       | CAIRO | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT      | 10,000.00                 | 10,000.00       |
| 296 | 06G78     | YUSMEERAZ BINTI YUSOF        | ECE   | CONE      | RG    | UNIVERSITY       | UTM TRANSDICIPLINARY RESEARCH GRANT          | 40,000.00                 | 17,500.00       |
| 297 | 5F084     | YUSRI B MD. YUNOS            | CMED  | PROT OM-i | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 60,000.00                 | 30,500.00       |
| 298 | 16J29     | ZAHARAH BINTI JOHARI         | ECE   | CONE      | RG    | UNIVERSITY       | TIER 2                                       | 30,000.00                 | 15,000.00       |
| 299 | 4B532     | ZAHARAH BINTI JOHARI         | ECE   | CONE      | RG    | NATIONAL         | OTHERS                                       | 7,000.00                  | 7,000.00        |
| 300 | 5F295     | ZAHARAH BINTI JOHARI         | ECE   | CONE      | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 89,700.00                 | 60,100.00       |
| 301 | 5F044     | ZAHARUDDIN B MOHAMED         | CMED  | ACRG      | RG    | NATIONAL         | FUNDAMENTAL RESEARCH GRANT SCHEME            | 71,000.00                 | 0.00            |
| 302 | 4C388     | ZAINAL BIN SALAM             | POWER | COE       | CEES  | INTERNATIONAL    | CONTRACT                                     | 205,384.00                | 38,072.00       |
| 303 | 18J12     | ZULKARNAIN BIN AHMAD NOORDEN | POWER | COE       | IVAT  | UNIVERSITY       | TIER 2                                       | 30,000.00                 | 0.00            |
| 304 | 4B483     | ZULKARNAIN BIN AHMAD NOORDEN | POWER | COE       | IVAT  | NATIONAL         | COLLABORATIVE RESEARCH GRANT NATIONAL        | 20,000.00                 | 20,000.00       |
| 305 | 04E54     | ZULKURNAIN B. ABD. MALEK     | POWER | COE       | IVAT  | UNIVERSITY       | PROFESSIONAL DEVELOPMENT RESEARCH UNIVERSITY | 125,600.00                | 0.00            |
| 306 | 01M4<br>4 | ZULKURNAIN B. ABD. MALEK     | POWER | COE       | IVAT  | UNIVERSITY       | INDUSTRY- INTERNATIONAL INCENTIVE GRANT      | 10,000.00                 | 0.00            |
| 307 | 4B379     | ZULKURNAIN B. ABD. MALEK     | POWER | COE       | IVAT  | INTERNATIONAL    | OTHERS                                       | 15,000.00                 | 0.00            |

| NO. | VOT       | STAFF NAME                  | DEPT  | RG  | COE  | SPONSOR CATEGORY | GRANT NAME  | AMOUNT PLEDGED (APPROVED) | AMOUNT RECEIVED |
|-----|-----------|-----------------------------|-------|-----|------|------------------|---|---------------------------|-----------------|
| 308 | 05G88     | ZULKURNAIN B.<br>ABD. MALEK | POWER | COE | IVAT | UNIVERSITY       | UTM<br>TRANSDICIPLINAR<br>Y RESEARCH<br>GRANT         | 40,000.00                 | 0.00            |
| 309 | 4B482     | ZULKURNAIN B.<br>ABD. MALEK | POWER | COE | IVAT | NATIONAL         | COLLABORATIVE<br>RESEARCH<br>GRANT<br>NATIONAL        | 20,000.00                 | 20,000.00       |
| 310 | 02M1<br>8 | ZULKURNAIN B.<br>ABD. MALEK | POWER | COE | IVAT | UNIVERSITY       | INDUSTRY-<br>INTERNATIONAL<br>INCENTIVE<br>GRANT      | 10,000.00                 | 10,000.00       |
| 311 | 05E09     | ZULKURNAIN B.<br>ABD. MALEK | POWER | COE | IVAT | UNIVERSITY       | PROFESSIONAL<br>DEVELOPMENT<br>RESEARCH<br>UNIVERSITY | 65,000.00                 | 65,000.00       |
| 312 | 07G43     | ZURAIMY BIN ADZIS           | POWER | COE | IVAT | UNIVERSITY       | UTM<br>TRANSDICIPLINAR<br>Y RESEARCH<br>GRANT         | 40,000.00                 | 23,000.00       |
| 313 | 21H35     | ZURAIMY BIN ADZIS           | POWER | COE | IVAT | UNIVERSITY       | UTM<br>FUNDAMENTAL<br>RESEARCH                        | 69,600.00                 | 34,100.00       |

Table 3.3: Number of postgraduate students for each SKE staff - 2020

| NAME                             | RG     | MPhil | PhD |
|----------------------------------|--------|-------|-----|
| ABDUL RASHID BIN HUSAIN          | ACRG   | 2     | 4   |
| FATIMAH SHAM BT. ISMAIL          | ACRG   | 1     |     |
| LIM CHENG SIONG                  | ACRG   |       | 2   |
| MOHAMAD SHUKRI BIN ZAINAL ABIDIN | ACRG   |       | 1   |
| MOHD ARIFFANAN MOHD BASRI        | ACRG   |       | 1   |
| NORHALIZA BINTI HAJI ABD WAHAB   | ACRG   | 3     | 4   |
| NURUL ADILLA MOHD SUBHA          | ACRG   | 2     | 1   |
| ROSBII BIN MAMAT                 | ACRG   |       | 1   |
| SALINDA BINTI BUYAMIN            | ACRG   |       | 3   |
| SOPHAN WAHYUDI BIN NAWAWI        | ACRG   | 2     | 2   |
| YAHAYA BIN MD SAM                | ACRG   | 1     | 3   |
| ZAHARUDDIN BIN MOHAMED           | ACRG   |       | 5   |
| FARID BIN ZUBIR                  | ARFMRG |       | 1   |
| MOHAMAD KAMAL B. A. RAHIM        | ARFMRG |       | 14  |
| MOHAMAD RIJAL BIN HAMID          | ARFMRG |       | 3   |

| NAME                                 | RG     | MPhil | PhD |
|--------------------------------------|--------|-------|-----|
| MOHD FAIRUS BIN MOHD YUSOFF          | ARFMRG |       | 2   |
| NOOR ASMAWATI BINTI SAMSURI          | ARFMRG |       | 1   |
| NOOR ASNIZA BINTI MURAD              | ARFMRG | 1     | 1   |
| EILEEN SU LEE MING                   | bMIE   | 2     | 1   |
| FAUZAN KHAIRI BIN CHE HARUN          | bMIE   |       | 2   |
| MOHD AFZAN BIN OTHMAN                | bMIE   | 1     | 1   |
| MOHD AZHAR BIN ABDUL RAZAK           | bMIE   |       | 1   |
| NASRUL HUMAIMI BIN MAHMOOD           | bMIE   | 1     |     |
| NOR AINI BINTI ZAKARIA               | bMIE   | 1     |     |
| NORLAILI BINTI MAT SAFRI             | bMIE   |       | 1   |
| PUSPA INAYAT BT. KHALID              | bMIE   |       | 1   |
| RUBITA BINTI SUDIRMAN                | bMIE   |       | 2   |
| AHMAD 'ATHIF BIN MOHD FAUDZI         | CAIRO  | 1     | 3   |
| HAZLINA BT. SELAMAT                  | CAIRO  | 1     | 1   |
| KUMERESAN A/L A. DANAPALASINGAM      | CAIRO  | 1     | 2   |
| YEONG CHI FAI                        | CAIRO  | 3     |     |
| DALILA BT MAT SAID                   | CEES   | 1     | 6   |
| MD. PAUZI BIN ABDULLAH               | CEES   | 2     | 9   |
| MOHAMMAD YUSRI BIN HASSAN            | CEES   | 1     | 1   |
| NORZANAH BT. ROSMIN                  | CEES   | 3     | 1   |
| SITI MAHERAH BINTI HUSSIN            | CEES   |       | 1   |
| ZAINAL BIN SALAM                     | CEES   |       | 5   |
| RASHIDAH @ SITI SAEDAH BINTI ARSAT   | CNETs  | 1     | 1   |
| KAMALUDIN BIN MOHAMAD YUSOF          | CNETs  | 4     | 7   |
| MUHAMMAD ARIFF BIN BAHARUDIN         | CNETs  | 1     |     |
| NIK NOORDINI BT NIK ABD MALIK        | CNETs  | 1     | 1   |
| NURUL MU'AZZAH BINTI ABDUL LATIFF    | CNETs  |       | 2   |
| NURZAL EFFIYANA BINTI GHAZALI        | CNETs  | 1     |     |
| SHARIFAH HAFIZAH BT. SYED ARIFFIN    | CNETs  |       | 6   |
| SHARIFAH KAMILAH BT. SYED YUSOF      | CNETs  |       | 7   |
| MICHAEL TAN LOONG PENG               | CoNE   | 1     | 4   |
| NURUL EZAILA BINTI ALIAS             | CoNE   | 3     | 2   |
| RAZALI BIN ISMAIL                    | CoNE   |       | 2   |
| SUHAILA BINTI ISAAK                  | CoNE   | 1     | 2   |
| SUHANA BINTI MOHAMED SULTAN          | CoNE   | 1     | 2   |
| YUSMEERAZ BINTI YUSOF                | CoNE   | 1     | 1   |
| ZAHARAH BINTI JOHARI                 | CoNE   | 1     |     |
| AB AL-HADI BIN AB RAHMAN             | DSIP   | 2     | 2   |
| AHMAD ZURI B SHA'AMERI               | DSIP   | 2     | 3   |
| MUSA BIN MOHD MOKJI                  | DSIP   |       | 3   |
| SYED ABDUL RAHMAN BIN SYED ABU BAKAR | DSIP   |       | 6   |
| USMAN ULLAH SHEIKH                   | DSIP   | 1     | 4   |
| ZAID BIN OMAR                        | DSIP   |       | 2   |
| LAU KWAN YIEW                        | IVAT   |       | 4   |

| NAME                                  | RG       | MPhil | PhD |
|---------------------------------------|----------|-------|-----|
| MOHAMED AFENDI BIN MOHAMED PIAH       | IVAT     |       | 3   |
| MOHD HAFIZI BIN AHMAD                 | IVAT     | 2     | 5   |
| MONA RIZA BT. MOHD ESA                | IVAT     | 2     |     |
| NOOR AZLINDA BT. AHMAD                | IVAT     |       | 3   |
| ZULKARNAIN BIN AHMAD NOORDEN          | IVAT     |       | 2   |
| ZULKURNAIN BIN ABDUL MALEK            | IVAT     | 1     | 6   |
| ZURAIMY BIN ADZIS                     | IVAT     | 1     |     |
| ABU SAHMAH BIN MOHD SUPA'AT           | LCRG     |       | 1   |
| ASRUL IZAM BIN AZMI                   | LCRG     | 1     |     |
| MOHD HANIFF BIN IBRAHIM               | LCRG     |       | 2   |
| MUHAMMAD AL FARABI BIN MUHAMMAD IQBAL | LCRG     |       | 1   |
| MUHAMMAD YUSOF BIN MOHD NOOR          | LCRG     |       | 1   |
| NADIATULHUDA BINTI ZULKIFLI           | LCRG     |       | 4   |
| SEVIA MAHDALIZA BT. IDRUS SUTAN NAMEH | LCRG     | 1     | 13  |
| AMIRJAN BIN NAWABJAN                  | MNSE     | 1     | 1   |
| MASTURA SHAFINAZ BINTI ZAINAL ABIDIN  | MNSE     | 1     |     |
| MOHD AMRI BIN MD. YUNUS               | MNSE     | 1     | 1   |
| MOHD RIDZUAN BIN AHMAD                | MNSE     | 2     | 1   |
| SHAHARIN FADZLI BIN ABD RAHMAN        | MNSE     | 1     |     |
| AWANG BIN JUSOH                       | PEDG     |       | 1   |
| MOHD JUNAIDI BIN ABDUL AZIZ           | PEDG     |       | 3   |
| MOHD RODHI BIN SAHID                  | PEDG     |       | 2   |
| NAZIHA BINTI AHMAD AZLI               | PEDG     |       | 2   |
| NIK RUMZI BIN NIK IDRIS               | PEDG     |       | 3   |
| NORJULIA MOHAMAD NORDIN               | PEDG     |       | 2   |
| SHahrin bin MD AYOB                   | PEDG     |       | 4   |
| TAN CHEE WEI                          | PEDG     | 1     | 4   |
| AHMAD SAFAWI BIN MOKHTAR              | PEDG     | 1     | 2   |
| JASRUL JAMANI BIN JAMIAN              | PEDG     |       | 4   |
| MADIHAH BINTI MD RASID                | PEDG     | 1     |     |
| MOHD HAFIZ BIN HABI BUDDIN            | PEDG     |       | 3   |
| MOHD WAZIR BIN MUSTAFA                | PEDG     | 1     | 9   |
| SAIFULNIZAM BIN ABD. KHALID           | PEDG     |       | 1   |
| ANITA BINTI AHMAD                     | PROTOM-i | 1     | 2   |
| HERLINA BINTI ABDUL RAHIM             | PROTOM-i |       | 4   |
| HERMAN BIN WAHID                      | PROTOM-i |       | 1   |
| LEOW PEI LING                         | PROTOM-i | 2     | 3   |
| MOHAMAD HAFIS IZRAN BIN ISHAK         | PROTOM-i | 2     | 1   |
| MOHAMED SULTAN BIN MOHAMED ALI        | PROTOM-i | 4     | 8   |
| MOHD FUAD BIN RAHMAT                  | PROTOM-i |       | 6   |
| RUZAIRI BIN ABDUL RAHIM               | PROTOM-i | 3     | 2   |
| SALLEHUDDIN BIN IBRAHIM               | PROTOM-i |       | 1   |
| SHAFISHUHAZA SAHLAN                   | PROTOM-i | 2     |     |
| YUSRI B MD. YUNOS                     | PROTOM-i | 1     | 1   |

| NAME                                  | RG    | MPhil | PhD |
|---------------------------------------|-------|-------|-----|
| MOKHTAR HARUN                         | STAR  |       | 1   |
| AZLI BIN YAHYA                        | STAR  | 3     | 3   |
| YOU KOK YEOW                          | TeSS  |       | 3   |
| AHMAD SHAHIDAN BIN ABDULLAH           | TeSS  | 1     |     |
| MOHD. ADIB BIN SARIJARI               | TESS  | 2     | 1   |
| MUHAMMAD NASIR BIN IBRAHIM            | TESS  |       | 1   |
| ROZEHA BT. A. RASHID                  | TESS  | 1     | 4   |
| ABU KHARI BIN A'AIN                   | VeCAD |       | 2   |
| MOHAMED KHALIL BIN HJ MOHD HANI       | VeCAD |       | 3   |
| MUHAMMAD NADZIR BIN MARSONO           | VeCAD | 1     | 13  |
| SHAIKH NASIR @ NASIR BIN SHAIKH HUSIN | VeCAD |       | 1   |
| JAFRI BIN DIN                         | WCC   |       | 2   |
| LEOW CHEE YEN                         | WCC   |       | 5   |
| MARWAN HADRI BIN AZMI                 | WCC   |       | 1   |
| MOHD HAIZAL BIN JAMALUDDIN            | WCC   | 2     | 7   |
| NORHUDAH BT. SEMAN                    | WCC   | 1     | 4   |
| OMAR BIN ABDUL AZIZ                   | WCC   |       | 1   |
| RAZALI BIN NGAH                       | WCC   |       | 6   |
| SHARUL KAMAL BIN A. RAHIM             | WCC   | 2     | 4   |
| THAREK BIN ABDUL RAHMAN               | WCC   | 2     | 5   |

Table 3.4: Number of postdoc students (Section D8) - 2020

| NAME                         | CITIZENSHIP<br>(LOCAL/FOREIGN) | COUNTRY                  | FIRST<br>APPOINTMENT<br>DATE | CURRENT<br>APPOINTMENT<br>DATE | END DATE  |
|------------------------------|--------------------------------|--------------------------|------------------------------|--------------------------------|-----------|
| ALI HOSSEINGHOLIPOURASL      | FOREIGN                        | ISLAMIC REPUBLIC OF IRAN | 1-Jul-18                     | 1-Jul-18                       | 30-Jun-20 |
| AMIRREZA NADERIPOUR          | FOREIGN                        | ISLAMIC REPUBLIC OF IRAN | 1-Jul-18                     | 1-Jul-20                       | 30-Jun-21 |
| NOR AISHAH BINTI MUHAMMAD    | LOCAL                          | MALAYSIA                 | 1-Jul-19                     | 1-Jul-19                       | 30-Jun-21 |
| SAMLA GAURI A/P BALAKRISHNAN | LOCAL                          | MALAYSIA                 | 1-Jul-19                     | 1-Jul-19                       | 30-Jun-21 |
| OM PRAKASH SINGH             | FOREIGN                        | INDIA                    | 1-Jul-19                     | 1-Jul-19                       | 30-Jun-21 |
| HUMMAD HABIB QAZI            | FOREIGN                        | PAKISTAN                 | 1-Mac-20                     | 1-Mac-20                       | 28-Feb-21 |
| OLAKUNLE ELIJAH              | FOREIGN                        | NIGERIA                  | 1-Jul-20                     | 1-Jul-20                       | 30-Jun-22 |
| RENUKA A/P NALINGGAM         | LOCAL                          | MALAYSIA                 | 1-Jul-20                     | 1-Jul-20                       | 30-Jun-22 |

## Appendix Section E

Table 3.5: E1(a) Patent granted in 2020

| NO | PATENT NO.  | PATENT NAME   | RESEARCHER                         | DEPT. | RG       |
|----|-------------|---|------------------------------------|-------|----------|
| 1  | MY-177003-A | METHOD FOR USE IN IMAGE RECONSTRUCTION FOR OPTICAL TOMOGRAPHY                               | RUZAIRI BIN ABDUL RAHIM            | CMED  | PROTOM-I |
| 2  | MY-177169-A | A SYSTEM FOR SIMULTANEOUS IDENTIFICATION OF MULTIPHASE REGIME FOR LIQUID, GAS, AND SOLID    | RUZAIRI BIN ABDUL RAHIM            | CMED  | PROTOM-I |
| 3  | MY-179635-A | A WEB-BASED DATA CONTROL SYSTEM AND A METHOD THEREOF  | MOHD FUA'AD BIN RAHMAT             | CMED  | PROTOM-i |
| 4  | MY-180649-A | SYSTEMS AND METHODS FOR OPTIMIZING DNA SEQUENCES BASED ON PARTICLE SWARM OPTIMIZATION (PSO) | ZUWAIRIE BIN IBRAHIM               | CMED  | N/A      |
| 5  | MY-181666-A | A POWER FLOW SYSTEM AND A METHOD FOR POWER MANAGEMENT OF A HYBRID ELECTRIC VEHICLE          | KUMERESAN A/L A.<br>DANAPALASINGAM | CMED  | PROTOM-i |
| 6  | MY-173584-A | RECTANGULAR RING ANTENNA FOR ON-BODY COMMUNICATION  | MUHAMMAD RAMLEE BIN KAMARUDIN      | COMM  | WCC      |
| 7  | MY-174296-A | A COMPACT ULTRA WIDE BAND ANTENNA AND A METHOD OF FABRICATING THE SAME                      | MOHD HAIZAL BIN JAMALUDDIN         | COMM  | WCC      |
| 8  | MY-174513-A | A MULTIPLE-INPUT-MULTIPLE-OUTPUT ANTENNA  | THAREK BIN ABD RAHMAN              | COMM  | WCC      |
| 9  | MY-175636-A | MULTI LAYER ULTRA WIDE BAND (UWB) ANTENNA   | MOHAMAD KAMAL B. A. RAHIM          | COMM  | ARFMRG   |
| 10 | MY-176350-A | RECONFIGURABLE PLANAR ARRAY ANTENNA WITH SIGNAL STEERING CONTROL                            | THAREK BIN ABD RAHMAN              | COMM  | WCC      |
| 11 | MY-176913-A | WAVEGUIDE GRATING DEVICE FOR USE IN CWDM AND DWDM APPLICATIONS                              | MOHD HANIFF BIN IBRAHIM            | COMM  | LCRG     |
| 12 | MY-177545-A | WIRELESS MULTIMEDIA SENSOR NETWORK  | NORSHEILA BTE FISAL                | COMM  | N/A      |
| 13 | MY-177538-A | A WIDEBAND POLARIZATION INSENSITIVE METAMATERIAL ABSORBER WITH DUAL RESONANCES              | MOHAMAD KAMAL B. A. RAHIM          | COMM  | ARFMRG   |

| NO | PATENT NO.  | PATENT NAME   | RESEARCHER                    | DEPT. | RG     |
|----|-------------|---|-------------------------------|-------|--------|
| 14 | MY-178553-A | TEXTILE CPW KOCH ANTENNA FOR ON-BODY COMMUNICATIONS   | NORHUDAH BINTI SEMAN          | COMM  | WCC    |
| 15 | MY-178673-A | A TRANSPARENT DUAL PORT-MIMO WITH HIGH ISOLATION FOR WLAN APPLICATIONS                        | MUHAMMAD RAMLEE BIN KAMARUDIN | COMM  | WCC    |
| 16 | MY-180574-A | REDUCED SIZE BULTER MATRIX FOR SMART ANTENNA SYSTEM   | SHARUL KAMAL BIN ABDUL RAHIM  | COMM  | WCC    |
| 17 | MY-180646-A | MULTILAYER ULTRA WIDE BAND (UWD) ANTENNA INCORPORATING AN ELECTRONIC BAND GAP (EBG) STRUCTURE | MOHAMAD KAMAL B. A. RAHIM     | COMM  | ARFMRG |
| 18 | MY-180988-A | FLOATING FABRY PEROT CAVITY OF OPTICAL TUNING FILTER WITH DUAL ACTUATORS                      | NOR HAFIZAH BINTI NGAJIKIN    | COMM  | LCRG   |
| 19 | MY-181386-A | FREQUENCY AND PATTERN RECONFIGURABLE DIPOLE-YAGI ANTENNA                                      | MOHAMAD RIJAL BIN HAMID       | COMM  | ARFMRG |
| 20 | MY-173620-A | METHOD TO ACQUIRE EEG BASED SOUND FREQUENCY RESPOND   | RUBITA BINTI SUDIRMAN         | ECE   | BMIE   |
| 21 | MY-174900-A | OPTICAL TOMOGRAPHY SYSTEM   | MUHAMMAD NASIR BIN IBRAHIM    | ECE   | TESS   |
| 22 | MY-176269-A | SIGNAL CLASSIFICATION SYSTEM USING TIME-FREQUENCY DISTRIBUTIONS AND A METHOD THEREOF          | AHMAD ZURI B SHA'AMERI        | ECE   | DSIP   |
| 23 | MY-181671-A | A METHOD AND A SYSTEM FOR DETECTING ARRHYTHMIA  | NORLAILI BINTI MAT SAFRI      | ECE   | BMIE   |

Table 3.6: Section E1b: Patent filed in 2020

| NO. | ID PATENT NO. | NAMA PATENT   | RESEARCHER                     | DEPT. | RG       |
|-----|---------------|---|--------------------------------|-------|----------|
| 1   | PI 2020005776 | DEVICE FOR WIRELESS, REAL-TIME MONITORING AND TREATING RESTENOSIS OF BLOOD VESSEL AND METHODS THEREOF | MOHAMED SULTAN BIN MOHAMED ALI | CMED  | PROTOM-I |
| 2   | PI 2020006065 | A HIGHLY COMPLIANT SOFT CONTINUUM MANIPULATOR   | AHMAD 'ATHIF BIN MOHD FAUDZI   | CMED  | CAIRO    |
| 3   | PI 2020001824 | A REFLECTARRAY ANTENNA FOR 5G BASE STATION COMMUNICATIONS   | MOHD HAIZAL BIN JAMALUDDIN     | COMM  | WCC      |
| 4   | PI 2020005528 | A WIDEBAND FREQUENCY SELECTIVE SURFACE BASED TRANSMITARRAY UNIT CELL                                  | MOHD FAIRUS BIN MOHD YUSOFF    | COMM  | ARFMRG   |
| 5   | PI 2020005845 | CHIPLESS RFID TAG BASED MODIFIED COMPLEMENTARY SPLIT RING RESONATOR                                   | MOHAMAD KAMAL B. A. RAHIM      | COMM  | ARFMRG   |
| 6   | PI 2020006454 | A COMPACT METAMATERIAL-BASED BUTLER MATRIX  | MOHAMAD KAMAL B. A. RAHIM      | COMM  | ARFMRG   |
| 7   | PI 2020006166 | HEXAGONAL LOOP STRUCTURE FOR FREQUENCY SELECTIVE SURFACE  | MOHAMAD KAMAL B. A. RAHIM      | COMM  | ARFMRG   |
| 8   | PI 2020007173 | A RECTANGULAR TILED WIDEBAND METAMATERIAL WAVE ABSORBER   | MOHAMAD KAMAL B. A. RAHIM      | COMM  | ARFMRG   |
| 9   | PI 2020007145 | A WIDEBAND ELECTROMAGNETIC METAMATERIAL ABSORBER  | MOHAMAD KAMAL B. A. RAHIM      | COMM  | ARFMRG   |
| 10  | PI 2020007124 | A SYSTEM FOR GENERATING TEST SEQUENCE   | USMAN ULLAH SHEIKH             | ECE   | DSIP     |

Table 3.7: E2. Commercialized products in 2020

| NO. | PRODUCT ID | PRODUCT                        | RESEARCHER                   | DEPT. | RG   |
|-----|------------|--------------------------------|------------------------------|-------|------|
| 1   | P007       | UNDERWATER TANK CLEANING ROBOT | MOHAMAD SHUKRI ZAINAL ABIDIN | CMED  | ACRG |

Table 3.8: Section E3: Technology know-how licensing in 2020

| NO. | TECHNOLOGY  | TYPE<br>(LICENCED/OUTRIGHT) | RESEARCHER                    | DEPT. | RG       |
|-----|---|-----------------------------|-------------------------------|-------|----------|
| 1   | SOURCE CODE OR DIGITAL DEFECT COUNTER USING MOBILE APPS | LICENSED                    | MOHAMAD HAFIS IZRAN BIN ISHAK | CMED  | PROTOM-I |

Table 3.9: Section E4: IPR/Copyright in 2020

| NO. | CATEGORY          | STATUS/ISBN NO.  | TITLE/PRODUCT   | RESEARCHER                       | DEPT. | RG        |
|-----|-------------------|------------------|---|----------------------------------|-------|-----------|
| 1   | COPYRIGHT         | IP/CR/01148      | PV MODEL WITH PARTIAL SHADING CAPABILITY  | RAZMAN BIN AYOP                  | POWER | PEDG      |
| 2   | COPYRIGHT         | IP/CR/2019/089 1 | APPS FOR PERSONAL-MEDICAL MONITORING SYSTEM   | NORZANAH BINTI ROSMIN            | POWER | CEES      |
| 3   | COPYRIGHT         | IP/CR/2019/086 8 | HEARTBEAT AND TEMPERATURE DATA RECORDER FOR ELDERLY PEOPLE (TEMP-HEART ELDERLY)               | NORZANAH BINTI ROSMIN            | POWER | CEES      |
| 4   | COPYRIGHT         | IP/CR/00642      | DIELECTRIC RESPONSE OF CALCINED SILICA-BASED POLYETHYLENE NANOCOMPOSITES UPON WATER IMMERSION | LAU KWAN YIEW                    | POWER | IVAT      |
| 5   | COPYRIGHT         | IP/CR/00675      | BOOST CONVERTER DESIGN FOR MPPT APPLICATION   | RAZMAN BIN AYOP                  | POWER | PEDG      |
| 6   | COPYRIGHT         | IP/CR/2019/088 6 | CERAMAH KESEDARAN PENJIMATAN TENAGA ELEKTRIK DI SEK RENDAH KEB. TMN PERLING 3                 | NORZANAH BINTI ROSMIN            | POWER | CEES      |
| 7   | COPYRIGHT         | IP/CR/00646      | TEST CELL FOR BREAKDOWN TEST - ENHANCED DESIGN  | LAU KWAN YIEW                    | POWER | IVAT      |
| 8   | INDUSTRIAL DESIGN | IP/ID/2017/063 4 | INLINE FUEL PUMP ASSEMBLY   | HAZLINA BINTI SELAMAT            | CMED  | CAIRO     |
| 9   | COPYRIGHT         | IP/CR/2018/052 3 | UNDERWATER ROBOTIC TANK CLEANING WORK FLOW  | MOHAMAD SHUKRI BIN ZAINAL ABIDIN | CMED  | ACRG      |
| 10  | COPYRIGHT         | IP/CR/01362      | USER MANUAL FOR DIGITAL LENS DEFECT COUNTER   | MOHAMAD HAFIS IZRAN BIN ISHAK    | CMED  | PROTO M-I |
| 11  | INDUSTRIAL DESIGN | IP/ID/00554      | MONKEY TRAP (PERANGKAP MONYET)  | MOHAMAD SHUKRI BIN ZAINAL ABIDIN | CMED  | ACRG      |
| 12  | INDUSTRIAL DESIGN | IP/ID/2018/023 1 | UNDERWATER TANK CLEANING ROBOT  | MOHAMAD SHUKRI BIN ZAINAL ABIDIN | CMED  | ACRG      |
| 13  | COPYRIGHT         | IP/CR/01178      | SOFTWARE INVENTION FOR BANANA MATURITY INSPECTION USING CONVOLUTIONAL NEURAL NETWORK          | FATIMAH SHAM BT. ISMAIL          | CMED  | ACRG      |

|    |           |                     |   |                                   |      |         |
|----|-----------|---------------------|---|-----------------------------------|------|---------|
| 14 | COPYRIGHT | IP/CR/01232         | CHILD TRACKING SYSTEM   | FAZILAH BINTI HASSAN              | CMED | ACRG    |
| 15 | COPYRIGHT | IP/CR/01176         | AUTOMATED IRRIGATION SYSTEM WITH WATER SENSOR AND CLOUD SYSTEM TO REMOTE CONTROL THE WATERING           | FAZILAH BINTI HASSAN              | CMED | ACRG    |
| 16 | COPYRIGHT | IP/CR/00872         | HAND-GESTURED CONTROL FOR SIGN LANGUAGE TRANSLATION SYSTEM  | NURUL ADILLA BT. MOHD SUBHA       | CMED | ACRG    |
| 17 | COPYRIGHT | IP/CR/00874         | LOGICAL CONSENSUS ALGORITHM FOR SMART WATER GRID SYSTEM (SWGS)  | NURUL ADILLA BT. MOHD SUBHA       | CMED | ACRG    |
| 18 | COPYRIGHT | IP/CR/01227         | VISION-BASED AGRICULTURAL NAVIGATION AND INSPECTION SYSTEM  | MOHD SAIFUL AZIMI BIN MAHMUD      | CMED | ACRG    |
| 19 | COPYRIGHT | IP/CR/01322         | AUTONOMOUS DISINFECTION ROBOT – LUMINUV   | AHMAD 'ATHIF BIN MOHD FAUDZI      | CMED | CAIRO   |
| 20 | COPYRIGHT | IP/CR/00875         | HYBRID MPC-P CONTROLLER FOR CORE POWER CONTROL SYSTEM   | NURUL ADILLA BT. MOHD SUBHA       | CMED | ACRG    |
| 21 | COPYRIGHT | IP/CR/00181         | HOMOGENEOUS LIQUID PHANTOM FOR 402.5 MHZ WEARABLE AND IMPLANTABLE ANTENNA PERFORMANCE VALIDATION        | NOOR ASMAWATI BINTI SAMSURI       | COMM | ARFMR G |
| 22 | COPYRIGHT | IP/CR/00532         | OPTICAL FIBER ACCESS NETWORK TRAINING MODULE  | NADIATULHUDA BINTI ZULKIFLI       | COMM | LCRG    |
| 23 | COPYRIGHT | IP/CR/00571         | WAVELENGTH DIVISION MULTIPLEXING SPECTRA AND CROSSTALK MEASUREMENT                                      | ASRUL IZAM BIN AZMI               | COMM | LCRG    |
| 24 | COPYRIGHT | IP/CR/00621         | TRIP CALCULATION CODE   | SHARUL KAMAL BIN ABDUL RAHIM      | COMM | WCC     |
| 25 | COPYRIGHT | IP/CR/00649         | CODING FOR WATER TURBIDITY MONITORING   | ARNIDZA BINTI RAMLI               | COMM | LCRG    |
| 26 | COPYRIGHT | IP/CR/2019/046<br>2 | CIRCUIT DESIGN AND ALGORITHM CODING OF SELF-SUSTAINABLE WEATHERPROOF IOT MONITORING SYSTEM - SWIMS      | MUHAMMAD ARIFF BIN BAHRUDIN       | COMM | CNETS   |
| 27 | COPYRIGHT | IP/CR/2019/097<br>9 | CODING FOR PRIMARY SCHOOLS LIBRARY SYSTEM   | RASHIDAH@SITI SAEDAH BINTI ARSAT  | COMM | CNETS   |
| 28 | COPYRIGHT | IP/CR/2018/044<br>2 | IOT BASED SMART VEHICLE MONITORING AND ANALYSIS SYSTEM- MONITORING WEBPAGE                              | ROZEHAA BT. A. RASHID             | COMM | TESS    |
| 29 | COPYRIGHT | IP/CR/00932         | ANALYTICAL MODELLING OF HIERARCHICAL CLUSTER-BASED NETWORK FOR COGNITIVE RADIO WIRELESS SENSOR NETWORKS | NURUL MU'AZZAH BINTI ABDUL LATIFF | COMM | CNETS   |

|    |           |                 |   |                                   |      |       |
|----|-----------|-----------------|---|-----------------------------------|------|-------|
| 30 | COPYRIGHT | IP/CR/01183     | ALGORITHM OF ROBUST AERIAL-GROUND NON-ORTHOGONAL MULTIPLE ACCESS  | LEOW CHEE YEN                     | COMM | WCC   |
| 31 | COPYRIGHT | IP/CR/00671     | FIBER OPTIC ENCLOSURE TERMINATION   | ASRUL IZAM BIN AZMI               | COMM | LCRG  |
| 32 | COPYRIGHT | IP/CR/00946     | ENERGY EFFICIENT REINFORCEMENT LEARNING-BASED CHANNEL DECISION ALGORITHM FOR COGNITIVE RADIO WIRELESS SENSOR NETWORKS | NURUL MU'AZZAH BINTI ABDUL LATIFF | COMM | CNETS |
| 33 | COPYRIGHT | IP/CR/00986     | ENERGY EFFICIENT TRANSMISSION PROTOCOL (LEACH PROTOCOL) FOR WIRELESS SENSOR NETWORKS USING TINYOS: SOURCE CODE        | NIK NOORDINI BT NIK ABD MALIK     | COMM | CNETS |
| 34 | COPYRIGHT | IP/CR/01128     | ALGORITHM OF AERIAL-TERRESTRIAL NETWORK NON-ORTHOGONAL MULTIPLE ACCESS  | LEOW CHEE YEN                     | COMM | WCC   |
| 35 | COPYRIGHT | IP/CR/01105     | SENSING NODE FOR CHLORINE GAS SENSOR  | RASHIDAH@SITI SAEDAH BINTI ARSAT  | COMM | CNETS |
| 36 | COPYRIGHT | IP/CR/2019/1100 | HYBRID BACKTRACKING SEARCH OPTIMIZATION ALGORITHM AND K-MEANS FOR CLUSTERING IN WIRELESS SENSOR NETWORKS              | NURUL MU'AZZAH BINTI ABDUL LATIFF | COMM | CNETS |
| 37 | COPYRIGHT | IP/CR/01121     | MICROBIT MODULE: USING MICROSOFT MAKECODE   | RASHIDAH@SITI SAEDAH BINTI ARSAT  | COMM | CNETS |
| 38 | COPYRIGHT | IP/CR/01104     | CODING FOR MAIN CONTROL NODE  | RASHIDAH@SITI SAEDAH BINTI ARSAT  | COMM | CNETS |
| 39 | COPYRIGHT | IP/CR/00676     | STATELESS REASSEMBLE  | ISMAHANI BINTI ISMAIL             | ECE  | VECAD |
| 40 | COPYRIGHT | IP/CR/2019/0930 | FLOWCHART ON HOW SNAKE AND LADDER ELECTRICAL EDUCATIONAL KIT SLEEK VERSION 1.0 WORKING OPERATION                      | ZAHARAH BINTI JOHARI              | ECE  | CONE  |
| 41 | COPYRIGHT | IP/CR/00616     | OH MYGUARD SMART HOME SYSTEM  | NURUL ASHIKIN BINTI ABDUL KADIR   | ECE  | BMIE  |
| 42 | COPYRIGHT | IP/CR/00936     | WATER QUALITY MONITORING SYSTEM: THE METHOD AND IMPLEMENTATION  | SUHANA BINTI MOHAMED SULTAN       | ECE  | CONE  |
| 43 | COPYRIGHT | IP/CR/00674     | MULTI N-GRAM EXTRACTION OF SNORT SIGNATURES   | ISMAHANI BINTI ISMAIL             | ECE  | VECAD |
| 44 | COPYRIGHT | IP/CR/00689     | ONLINE TRAFFIC CLASSIFICATION   | ISMAHANI BINTI ISMAIL             | ECE  | VECAD |
| 45 | COPYRIGHT | IP/CR/01051     | STEM-RBTK TUAH MINI ROBOT MODULE  | NORHAFIZAH BT RAMLI               | ECE  | BMIE  |
| 46 | COPYRIGHT | IP/CR/01100     | APPLICATION NOTES FOR DIGITAL ELECTRONIC LABORATORY   | MUHAMMAD MUN'IM BIN AHMAD ZABIDI  | ECE  | DSIP  |

|    |           |                     |   |                                 |     |      |
|----|-----------|---------------------|---|---------------------------------|-----|------|
| 47 | COPYRIGHT | IP/CR/00614         | DUAL MODES SMART HOME SECURITY SYSTEM                                     | NURUL ASHIKIN BINTI ABDUL KADIR | ECE | BMIE |
| 48 | COPYRIGHT | IP/CR/2016/011<br>8 | A GRAPHICAL USER INTERFACE FOR CELLS COUNTING BASED ON MICROSCOPIC IMAGES | MOHD AZHAR BIN ABDUL RAZAK      | ECE | BMIE |

A large, colorful word cloud centered around the words "thank you" in various languages. The word "thank" is in red, "you" is in yellow, and "you" is in green. The background is white with a light gray grid. The word cloud includes many other words related to gratitude and thanks in different languages.



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