FKEKK

FAKULTI KEJURUTERAAN ELEKTRONIK DAN KEJURUTERAAN KOMPUTER

INSIDER

2018/2019

TK
7885
.A1
.F54
2018
a

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

TK7885.A1 .F54 2018

87516929

PERPUSTAKAAN LAMAN HIKMAH
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

INGATAN TULUS IKHLAS

SUMBANGAN

BOOK DONATION CAMPAIGN 2023

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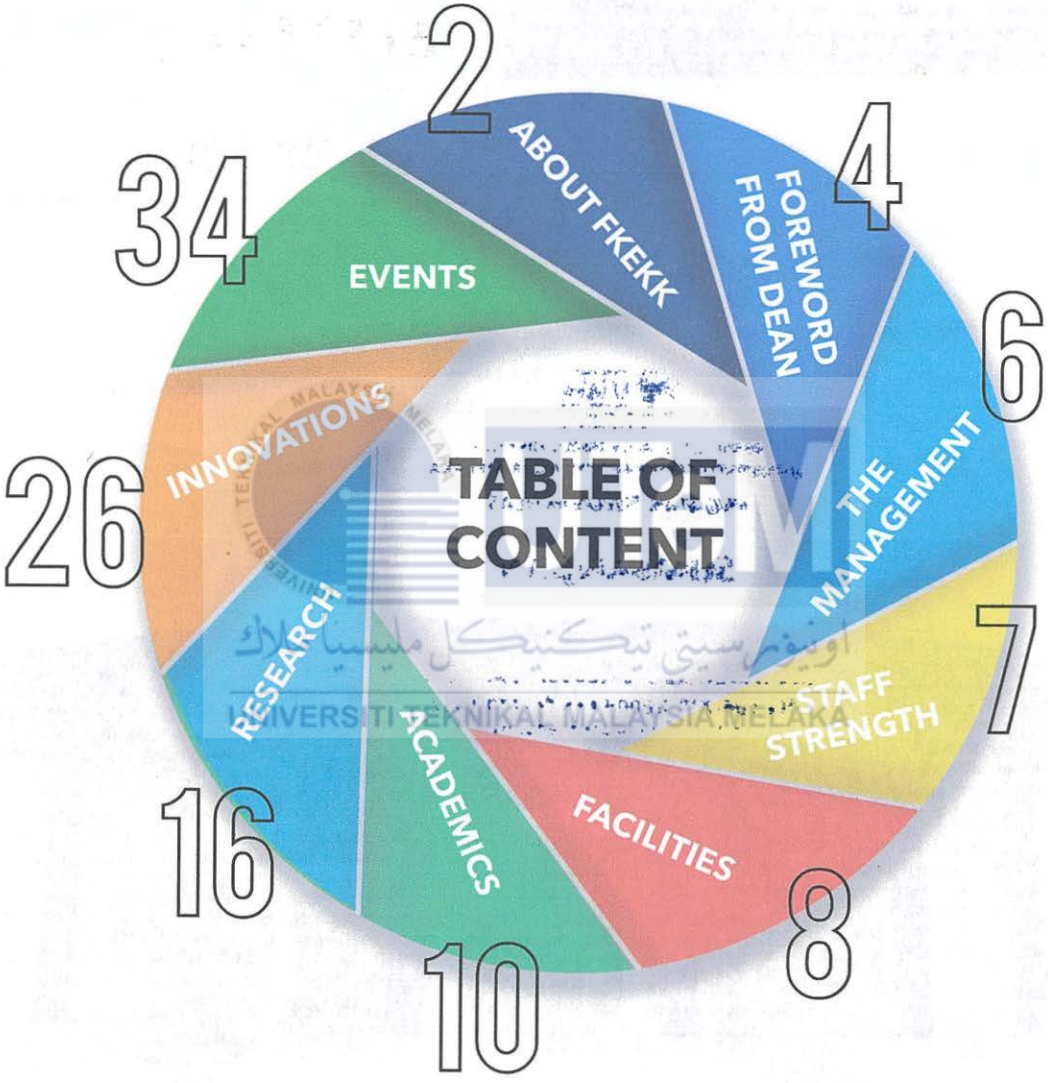


UNIVERSITI TEKNIKAL MALAYSIA MELAKA

About FKEKK

PERPUSTAKAAN
Universiti Teknikal Malaysia Melaka
No. Akesan
87516929
No. Panggilan
TK
7885
.A1
.F54
2018
a
Tarikh
26 JAN 2024
nro/070224

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

In the year 2000, Kolej Universiti Teknikal Kebangsaan Malaysia (KUTKM) was launched and became the 14th public university in Malaysia. Fakulti Kejuruteraan Elektronik dan Kejuruteraan Komputer (FKEKK) was among the various faculties officially established on 22th June 2001. The faculty started its operation at the temporary premises in Taman Tasik Utama in Ayer Keroh, Melaka. On 22th December 2004, FKEKK created its own history by being the first faculty to move its operation to the main campus in Durian Tunggal, Melaka. FKEKK was able to provide the most conducive environment for effective learning as the result of this move, in terms of modern buildings and its latest state-of-art equipment and facilities. In early February 2007, the rebranding of KUTKM to Universiti Teknikal Malaysia Melaka (UTeM) took place and from then on, UTeM had played significant role in producing competent and capable graduates recognized globally and highly sought after by both international and national companies.

Foreword from DEAN

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Assalamualaikum wrt.wbt.

All Praise to Allah, the Almighty, the Most Gracious and the Most Merciful.

My warmest greetings and gratitude to all of you out there for your continuous support to FKEKK. The initiative of faculty's bulletin is for it to become a medium for students, staff and visitors to get to know about FKEKK's background, forte and recent activities. The year of 2018 and 2019 have become exciting years with FKEKK's staff and students' achievements in education, innovations and research. FKEKK is committed to provide an environment in which students and staff can together pursue their educational and research goals.

My best wishes to all of you and I am delighted to present you our FKEKK Insider 2018/2019. I wish all of you success in your future endeavour.

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Thank you. Wabillahitaufik walhidayah wassalammualaikum wrt.wbt.

#fkekkhappyplacetowork #fkekkgreatplacetostudy

"EXCELLENCE THROUGH COMPETENCY"

PROFESOR MADYA DR. MOHD SHAKIR BIN MD. SAAT
Dean,
Faculty of Electronics and Computer Engineering
Universiti Teknikal Malaysia Melaka

The MANAGEMENT

PM Dr Mohd Shakir Md Saat
Dean

PM Dr Masrullizam Mat Ibrahim
Deputy Dean (Academics)

Dr Ahmad Sadhiqin Mohd Isira
Deputy Dean (Research & Postgraduate Studies)

Dr Noor Azwan Shairi
Deputy Dean (Student Development)

Ts Dr Zaiton Abdul Mutalip
Head of Department (Electronic Engineering)

Dr Hanim Abdul Razak
Head of Department (Computer Engineering)

Mohd Shahril Izuan Mohd Zin
Head of Department (Diploma Studies)

Dr Hazli Rafis Abdul Rahim
Program Coordinator (Electronic Engineering)

Dr Yusmarnita Yusop
Program Coordinator (Postgraduate)

Ir Dr Ranjit Singh Sarban Singh
Laboratory Coordinator

Pn. Nor Hanizah Sapuan
Senior Assistant Registrar

Pn. Nurhafizah Ab Rahman
Assistant Registrar

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Staff STRENGTH

ACADEMIC

6 Professors
5.6%

14 Associate Professors
13.1%

57 Senior Lecturers
53.3%

30 Lecturers
28%

ACADEMICS QUALIFICATION OF ACADEMIC STAFFS

69 Ph.Ds
64.5%

38 Masters
35.5%

Study Leave

17 staffs

NON-ACADEMICS

Administrative
11 staffs

Assistant Engineers
13 staffs

3 staffs Senior Assistant Engineers

INDUSTRIAL ATTACHMENT

3 staffs

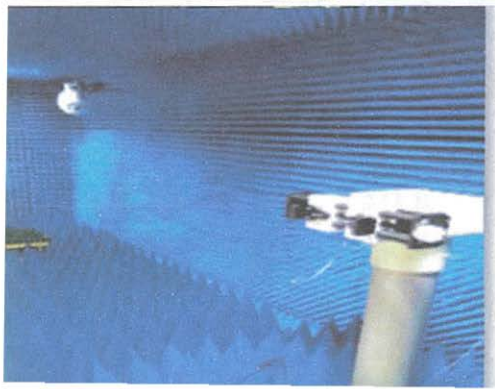
STAFF WITH PROFESSIONAL CERTIFICATES

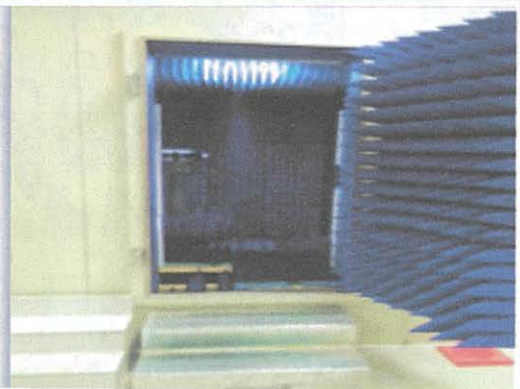
Professional Engineer (Ir.) **4**

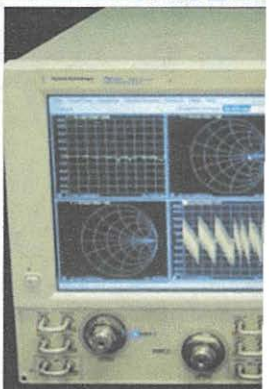
CEng **11** Ts. **1**

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

FACILITIES







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TEACHING AND LEARNING LABORATORIES

- Digital Lab
- Microprocessor Lab
- Electronic Communication Lab
- Microwave Lab
- Industrial Electronics Lab
- Fundamental Electronics Lab 1
- Fundamental Electronics Lab 2
- Electrical Technology Lab
- Computer Engineering Lab
- PSM & Fabrication Lab
- Automation Lab

RESEARCH LABORATORIES

- Research Lab I
- Research Lab II
- Research Lab III
- Research Lab IV
- Research Lab V
- Postgraduate Lab 1
- Postgraduate Lab 2

MULTIPURPOSE HALL

– Seminar Hall

HIGH-END EQUIPMENT / HIGHLIGHT

- **Agilent PNA-X Network Analyzer / N54242A**
  - Price / Country of Origin: RM895,433 / USA)
  - Location: Research Lab 1 – MRG
- **Anechoic Chamber / LOPU**
  - Price / Country of Origin: RM405000 / China
  - Location: Research Lab 1 - MRG
- **Designex 3D Printer / Poseidon X**
  - Price / Country of Origin: RM19,825 / Malaysia
  - Location: Research Lab 1 - MRG
- **Impedance Analyser**
  - Price : RM125,000
- **LCR Meter**
  - Price : RM 150,000

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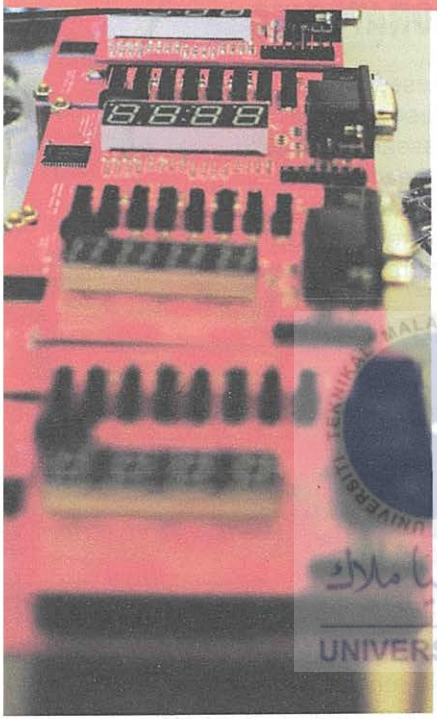
ACADEMICS



UTeM
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

ACADEMIC PROGRAMMES

POSTGRADUATE COURSES

• Research

- Doctor of Philosophy (Ph.D) in Electronic Engineering
- Doctor of Engineering (Deng) in Electronic Engineering
- Master of Science in Electronic Engineering

UNDERGRADUATE COURSES

- Bachelor of Electronic Engineering with Honours
- Bachelor of Computer Engineering with Honours
- Diploma in Electronic Engineering

POSTGRADUATE COURSES

Taught Course

- Master of Electronic Engineering (Telecommunication System)
- Master of Electronic Engineering (Computer Engineering)
- Master of Electronic Engineering (Electronic Engineering)
- Double Degree Master Degree Programme

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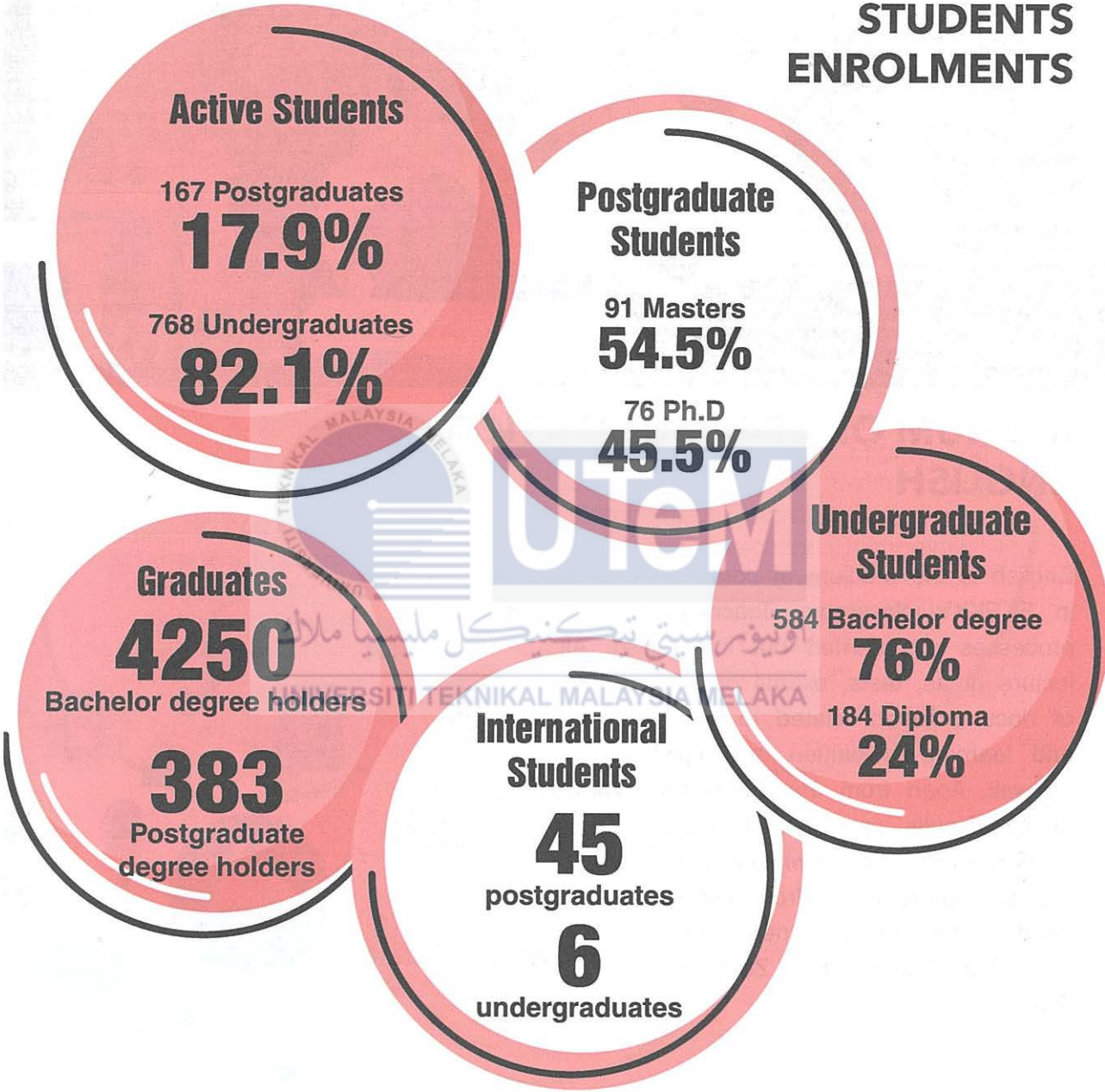
STUDENTS ENROLMENTS



UTeM
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MEDIUM OF COMMUNICATION: ENGLISH

English is the medium of communication and instructions in FKEKK's classroom. Teaching and learning processes are carried out in English. All lecture notes, tests, exams or any form of documentation related to teaching and learning is written in English as well. Apart from that members of the faculty are competent in English communication with diverse academic backgrounds from native English speaking countries such as the UK, Australia, New Zealand, Sweden, USA and others.

UTeM
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

ACCREDITATION

Agensi Kelayakan Malaysia
Malaysian Qualifications Agency

ENGINEERING ACCREDITATION COUNCIL MALAYSIA

• Awarded 6 years of accreditation with effect from 2018 to 2023 by Engineering Accreditation Council Malaysia (EAC)

- Bachelor of Electronic Engineering with Honours

• Awarded accreditation with effect for 2019

- Bachelor of Electronic Engineering (Industrial Electronics) with Honours
- Bachelor of Electronic Engineering (Computer Engineering) with Honours
- Bachelor of Electronic Engineering (Telecommunication Electronics) with Honours
- Bachelor of Electronic Engineering (Wireless Communication) with Honours

• Awarded 5 years of accreditation by Malaysia Qualification Agency (MQA)

- Postgraduates Programme

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

RESEARCH

CENTRE FOR TELECOMMUNICATION RESEARCH & INNOVATION

ASECs

BBNET BROADBAND & NETWORKING RESEARCH GROUP

MiNE Micro & Nano Electronics

اونيۏرسيتي تيکنيکل مليسيا ملاک
UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Photonics Engineering Research Group

MRG

MLSP MACHINE LEARNING & SIGNAL PROCESSING

RESEARCH GROUP UNDER CeTRI

- **BBNET (Broadband & Network)**
  - **Focus Area:**
    - Advanced Communication System
    - Location based Navigation System
    - Wireless Broadband Applications
- **ASECS (Advanced Sensors & Embedded Control Systems)**
  - **Focus Area:**
    - Advanced sensors
    - Control System
    - Embedded Systems
- **MiNE (Micro & Nano Electronic)**
  - **Focus Area:**
    - Biomedical Design
    - Power MOSFET and IGBT (Flagship with MIMOS)
    - Micro-Electro-Mechanical Systems (MEMS)
    - Solar cell
- **MRG (Microwave Research Group)**
  - **Focus Area:**
    - Antenna Design and Propagation
    - Advanced Microwave Filter Design
    - RF Switch Design, Metamaterial
    - Energy Harvesting.
- **MLSP (Machine Learning & Signal Processing)**
  - **Focus Area:**
    - Computer Vision & Image Processing
    - Signal Processing & Artificial Intelligence
    - Real Time Implementation of Algorithms Using FPGA & GPGPU
- **PERG (Photonics Engineering Research Group)**
  - **Focus Area:**
    - Light Source & Optical Amplifier
    - Optical Network System & Optoelectronics Integration
    - Photodetector & Sensor

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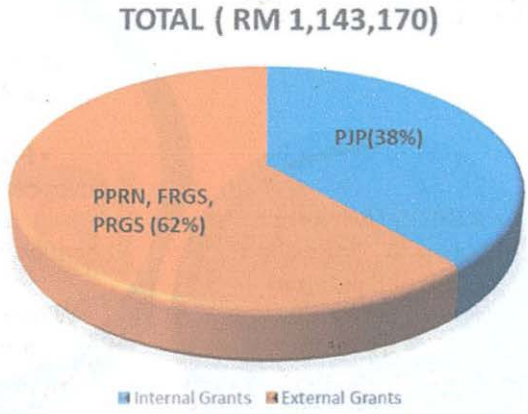
TOTAL GRANTS UNDER CeTRI



Internal grants :

Short Term Grant (PJP)

RM 440,000

External grants :

Public Private Research Network (PPRN)

RM 82,440

Fundamental Research Grant Scheme (FRGS)

RM 537,730

Prototype Research Development Grant Scheme (PRGS)

RM 83,000

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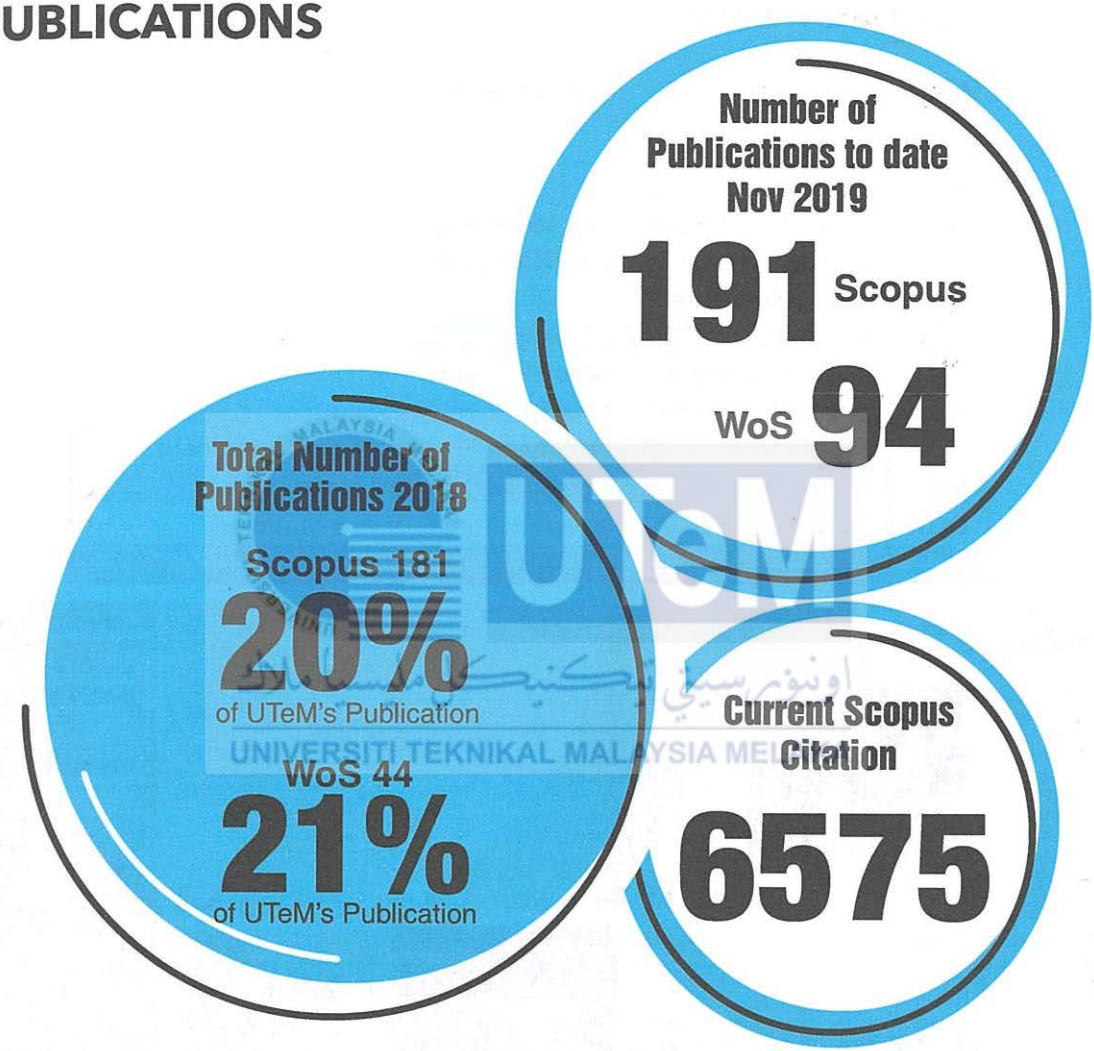
RESEARCH PUBLICATIONS



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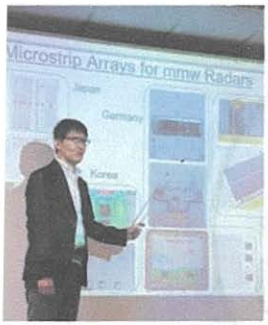
RESEARCH ACTIVITIES

Activities on Year 2018

Month	Activity Name
Jan	RG Myra Workshop
Feb	Journal Incentives
Mac	Visitor from R&D Infenion Technologies
	Visit to Ericsson 5G Lab, WCC UTM
Jul	CoE-CeTRI Meeting
Aug	Visit from Keysight Technologies
	5G Technology Awareness Program
Sept	Visitor from BioEM-Unimap
	National Workshop on Lightning Physics and Measurement
Nov	Knowledge sharing by Prof. Ulung Datuk Dr. Harith
Dec	ASECs 2018
	Technical Talk Prof Dr. Sakaki, Nagoya

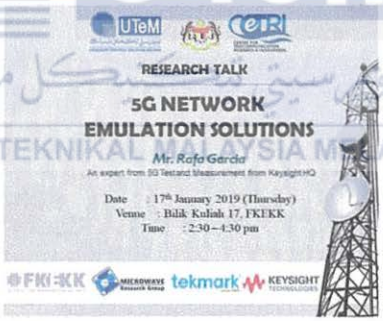


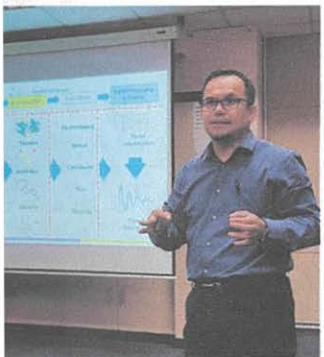
Jalin kerjasama dalam bidang komunikasi 5G

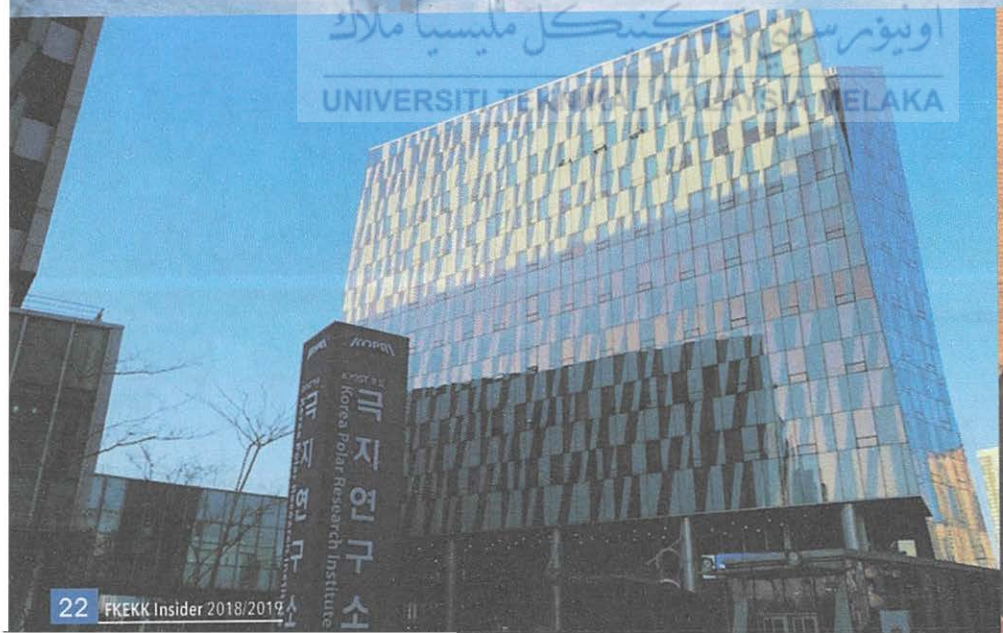
UTeM & UTM kongsi kepakaran

Activities on Year 2019

Month	Activity Name
Jan	Technical Talk : From FET to Biosensor
	Research Talk : 5G Network Emulation Solutions
	Visit to INEE, Unimap
	Visit to SilTerra
Feb	Visitor from UTHM
Mac	Industry Visit to Mutiara Tech
	Visit from R&D Procter & Gamble (P&G) United Kingdom
April	Visit from R&D MIMOS
May	Visit from UiTM Student
June	Visit from IKED,SAPURA&TEKMARK
July	With Royal Highness of Sultan Terengganu - Malaysia International Seminar on Antratica (MISA)
	Visit from MSN







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SOUTH KOREAN POLAR RESEARCH INSTITUTE (KOPRI) ASIA'S SCIENCE FELLOWSHIP SCHEME 2019

Dr. Mohd Riduan Ahmad, an FKEKK researcher has been awarded a prestige fellowship scheme by Korea Polar Research Institute (KOPRI) under the 2019 Asian Polar Science Fellowship Programme. KOPRI is a statutory and government-funded research institution, is a leading agency for Korea's national polar program for both the Arctic and the Antarctic. Dr. Riduan will be cooperating with KOPRI Senior Research Scientist, Dr. Sang-jong Park, to investigate "Characteristics of lightning flashes over Antarctic Peninsula". The research will be conducted at King Sejong station in Antarctic Peninsula to measure the background electrostatic field and locate the coordinates of lightning strikes. Dr. Riduan will spend 3 weeks at KOPRI facility in Incheon South Korea between July 6th and 28th to coordinate the travel and equipment logistics to King Sejong station during summer season between January and February 2020.

"We set our standard high and we will keep it high"

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اونيۏرسيتي تيکنيکل مليسيا ملاک

CONFERENCE : PRECON 2018

Date
24
January 2018

Venue
FKEKK
UTeM

Categories

Electronic Industries, Computer Engineering, Telecommunication.

Highlights

A total of 69 papers were accepted at our Postgraduates Research Conference (PReCON) 2018. The conference is dedicated for postgraduate students with aims to encourage them in to be active in publications expose the students with research presentations.

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

INNOVATIONS

UNIVERSITI TEKNIKAL MALAYSIA MELAKA
UTeM
اونيۏرسيتي تيکنيکل مليسيا ملاک

30th INTERNATIONAL INVENTION AND INNOVATION EXHIBITION (ITEX) 2019

Date

2-4th

May 2019

Venue

KLCC

Kuala Lumpur Convention Centre

Achievement

Silver Medal

Organizer

MINDS

Malaysian Invention and Design Society

Project Title

Dual-Band Aperture Coupled Rectenna for RF Energy Harvesting

Staff

Dr. Maizatul Alice binti Meor Said (Senior Lecturer)

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MOTO INNOCUP 2018

Achievement

Champion

Organizer

INTI International College Penang & Motorola Solutions

Project Title

Just Go

Smart Vehicle Payment System Using Deep Learning

Team Members

Advisor

Professor Dr. Zulkalnain bin Mohd Yussof

Members

Yew Poh Leng, Weng Shih Ying, Wong Yuin Shen, Cheong Jia Mun, Ibrahim Soliman Mohamed

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INNOVATE MALAYSIA DESIGN COMPETITION 2018

Achievement

Champion

in Technology Tracks

(Silterra/CEDEC Track)

Venue

MaGIC

Malaysian Global Innovation & Cretivity Center (MaGIC), Cyberjaya

Team Members

Advisor

Dr. Wong Yan Chiew

Members

Ho Joo Jie

Project Title

Design and Development

of System-on-Chip for Smart Sign Language Translator Glove

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UTeM
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KONVENSYEN KUMPULAN INOVATIF DAN KREATIF (KIK) KALI KE-5 PERINGKAT UTeM

Venue
Dewan Auditorium, Canselori

Date
2nd July 2019

Achievement
Champion

Group
Digital FKEKK

Project Title
Tempoh Pengurusan Projek Akhir Pelajar Yang Lama

Organizer
UTeM
Universiti Teknikal Malaysia Melaka

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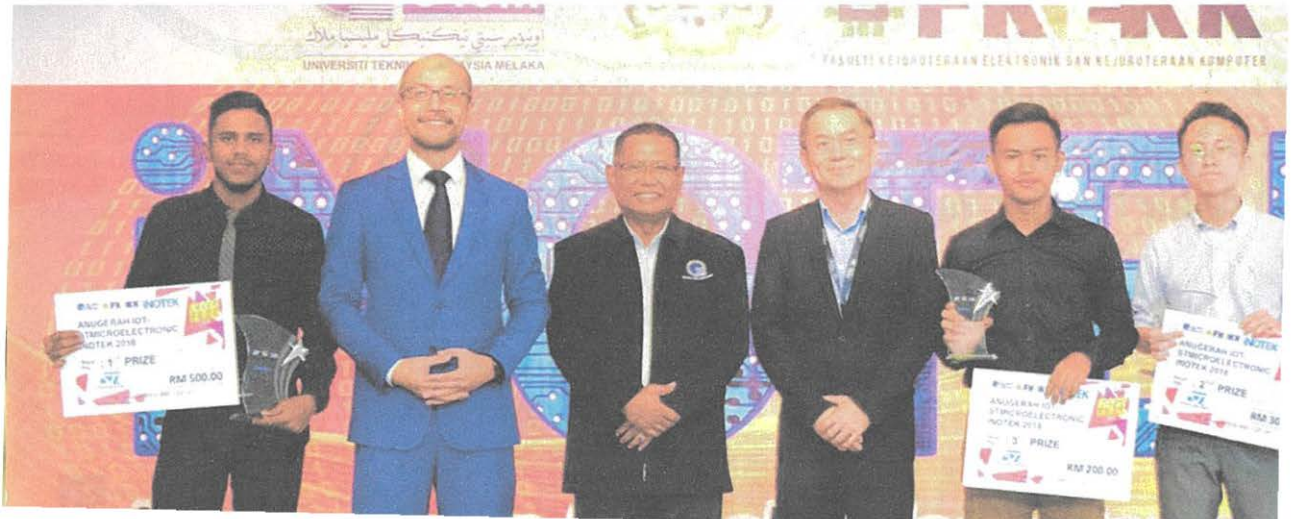
EVENTS



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INOTEK 2018

Venue
FKEKK, UTeM

Date
25
April 2018

Highlights

INOTEK

competition is an annual faculty event where the final year undergraduate and postgraduate student projects are presented. This competition is one of the best mediums for students to sharpen their creative skills and competitiveness. The ability in creating high innovation creations is aligned with the demands from Ministry of Education for producing a far sighted and creative students.

Participants

FYP postgraduate and undergraduate FKEKK Students (also open for UTeM and non-UTeM students)

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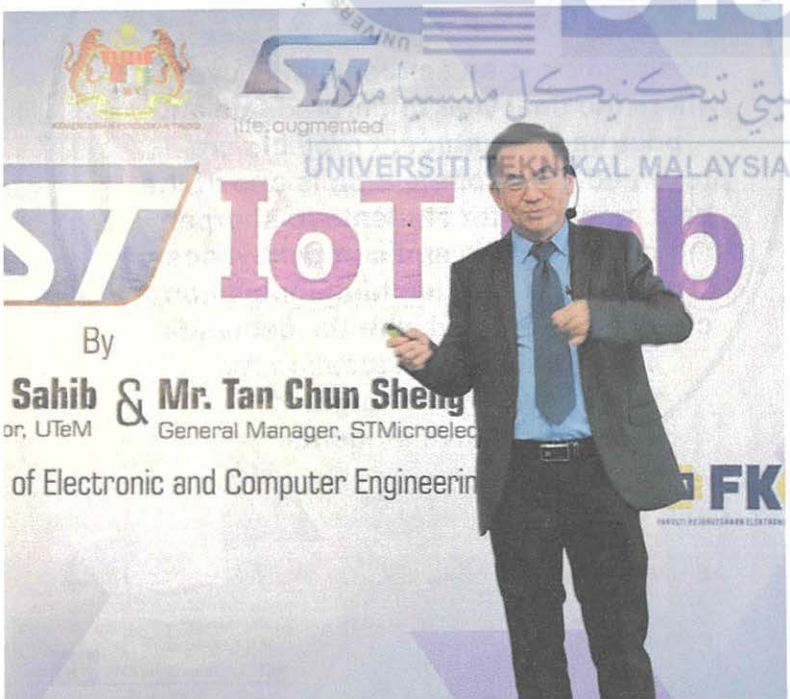

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ST IOT LABORATORY LAUNCHED UTeM

Venue

ST IOT Lab, FKEKK, UTeM

Date

2

March 2018

Highlights

FKEKK actively cooperates with the industry to produce high quality graduates in line with industry needs. For information, FKEKK has launched the opening ceremony of the STMicroelectronics (ST IOT) laboratory which was officiated by UTeM Former Vice-Chancellor Prof Datuk Ts. Dr. Shahrin Bin Sahib @ Sahibudin.

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

ST IOT SCHOOL CHALLENGE COMPETITION UTeM 2018

Venue

ST IOT Lab, FKEKK, UTeM

Date

27

April 2019

Highlights

FKEKK has launched the ST IOT collaborations with STMicroelectronics (ST IOT) to produce high quality graduates in line with industry needs. We conducted a workshop for school student to feel and give them exposure in creating the project using ST IOT board. They are given a timeline to create the project according to their ideas and creativity. We also conducted the competition among those students to present their project. A number of judges from STMicroelectonics and FKEKK staff are appointed to evaluate their to evaluate their projects and the students' understanding.

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

KEYSIGHT-FKEKK PARTNERSHIP

Venue

FKEKK, UTeM

Date

20

March 2019

Highlights

FKEKK actively cooperates with the industry to produce high quality graduates in line with industry needs. Hence, faculty had launched the smart partnership with industry with Keysight Technologies. Our faculty also received research equipment from Keysight Technologies and Tekmark Sdn. Bhd. This program was officiated by UTeM Deputy Vice-Chancellor Prof Dr. Zulkifillie Bin Ibrahim.

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

ARDUINO WORKSHOP WITH MOZAC SCHOOL

Venue

Sekolah Menengah Sains Muzaffar Shah, Melaka

Date

9

March 2019

Highlights

The faculty also provides courses and workshops to school and out-of-school organizations. One of the recommended programs is an Arduino workshop that has been conducted for students at MOZAC School. This workshop was attended by form two students. Participants were taught to build programs by using Arduino microcontroller. Our faculty students were also involved as facilitators in assisting the workshop.

School

MOZAC

Sekolah Menengah Sains Muzaffar Shah, Melaka

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UNIVERSITI TEKNIKAL MALAYSIA MELAKA

ARDUINO WORKSHOP WITH IMTIYAZ SCHOOL

Date

25

April 2019

Venue

FKEKK, UTeM

Highlights

Arduino workshop was conducted for IMTIYAZ School students. They were given the opportunity to build the program by using Arduino microcontroller. Staff and students were involved as facilitators in assisting the workshop.

School

IMTIYAZ School

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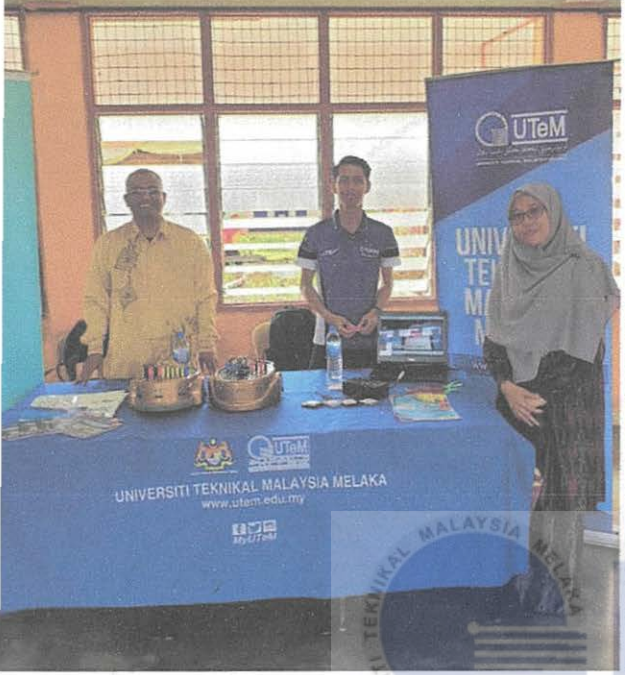
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PROMOTIONS 2018 - 2019

Year

2018-2019

Venue

Melaka

Highlights

Promotion is one of the most important aspects to be emphasized. The promotional committee is working hard in promoting all the programmes offered by FKEKK. Promotions are not only done in UTeM, but also were done outside the campus such as in schools, matriculation colleges and other programs organized by Minister of Higher Education.

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

TAUTAN KASIH RAMADAN 2019

Date

24 & 29

May 2019

Venue

Sayyidina Abu Bakar Mosque, UTeM, Jasin, Durian Tunggal, Bukit Katil and Ujong Pasir.

Highlights

The CSR program has been implemented under community service committees to help the needy. Cash donation and essential groceries were given to orphans and single mothers during the Iftar ceremony with faculty. Door to door for asnaf (poor and muallaf) also been done which covers the area of Jasin, Durian Tunggal, Bukit Katil and Ujong Pasir

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

SENTUHAN KASIH FKEKK 2019

Date

10

May 2019

Highlights

Giving food coupons RM 3 to RM 6 (per pax) to asnaf and B40 students with the collaboration with student Café 1B. As far as 61% of students came and claimed the coupon and this initiative will continue to be implemented in the next following semester.

Venue

FKEKK

UTeM

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

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FKEKK CLUB ACTIVITIES

#fkekkhappyplacetowork

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

FKEKK STUDENT ACTIVITIES 2018

Leadership Camp
EcCESS 2018
Feb 2018

Campus to Industry
FC2I
Mar 2018

Basic Mathematics Reinforcement Program
Aug 2018

Sukan Piala Dekan
for FKEKK students
Sept 2018

FKEKK Fest 2018
- Malam Ekspresi Rohani
- Runtastic
- INOTEK 2019
- Acoustic Night
- Futsal 3-on-3
- Photocontest
- Self-Driving Car Challenge
- Career Talk ST Micro
- Mobilegraphy Workshop

Olahragawati
Harapan UTeM 2018
Kategori Pelajar

#fkekkgreatplacetostudy

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University Robot Competition:
Kingdom of Champions
11 – 13 October 2018
Participants: 7 students

Pertandingan Mencipta Video Pendek FKEKK 2018
1 – 29 November 2018

Program Kecemerlangan Al-Fateh
17 & 18 Nov 2018
Participants: 50 students

Clean Up FKEKK Program
17 November 2018
Participants: 45 students

Malaysia Autonomous Vehicle Challenge 2019
MAVEC 2019
National level
15 December 2018
Participants: 3 students

Short Course for Huawei Certification the Routing and Switching for FKEKK, FKE and FTMK students
5 - 11 November 2018
Participants: 40 students

2018 TGL Grand Design Challenge
22 November 2018
Participants: 6 students

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FKEKK STUDENT ACTIVITIES 2018

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FKEKK STUDENT ACTIVITIES 2019

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FKEKK STUDENT ACTIVITIES 2019

PA
Merisik Khabar
20 – 27 Feb 2019

Kem Kepimpinan
EcCESS
23 – 24 Feb 2019

Asia World
Model United Nations
AWMUN
Conference 2019
30 Jan – 2 Feb 2019

Saya Boleh!
for
FKEKK students
9 – 10 Mar 2019

Fit FKEKK
14 Mar 2019

#fkekkgreatplacetostudy

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

Speaker Corner

26 March - 14 May 2019

Malaysia Autonomous Vehicle Challenge 2019

11 – 14 April 2019

FKEKK Fest 2019

23 – 26 April 2019

- Runtastic at FKEKK Fest 2019
- Appreciation and Recognition Traditional Show (ARTS)
- INOTEK 2019
- Dec-it
- Futsal 3-on-3
- Lights Out and Buskers
- Young Inventors Workshop
- Ddakji Hunter
- Trucco Class (Makeup class)
- PUBG Mobile
- Acoustic Night

Robot Contest ROBOCON Malaysia 2019

4 – 7 April 2019

UNIVERSITI TEKNIKAL MALAYSIA MELAKA

CREDITS

Faculty Info @ FKEKK Committee

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