



# UNIVERSITI TEKNIKAL MALAYSIA MELAKA

## STAFF PROFILE

**NAME** NORLEZAH BINTI HASHIM

**FACULTY / CENTRE** FAKULTI TEKNOLOGI KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK

**DESIGNATION** PENSYARAH UNIVERSITI

**CURRENT POSITION** PENSYARAH - FAKULTI TEKNOLOGI KEJURUTERAAN ELEKTRIK DAN ELEKTRONIK

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### ACADEMIC QUALIFICATION

YEAR	QUALIFICATION	INSTITUTION
2014	SARJANA (MASTERS)	UTM SKUDAI
2006	SARJANA MUDA (BACHELOR)	UNIVERSITI MALAYA

### FIELD OF INTEREST

WIRELESS SENSOR NETWORK

### TEACHING EXPERIENCE *(last 5 years)*

#### UNDERGRADUATES

SESSION	COURSE
2021/2022	BEET2313 - CONTINUOUS SIGNAL & SYSTEM
2020/2021	BEEE1303 - ENGINEERING WORKSHOP I
2020/2021	BEET2313 - CONTINUOUS SIGNAL & SYSTEM
2020/2021	BEET3393 - TELECOMMUNICATION SWITCHING SYSTEM
2019/2020	BEET2313 - CONTINUOUS SIGNAL & SYSTEM
2019/2020	BEET2343 - DISCRETE SIGNAL & SYSTEM
2019/2020	BEET3393 - TELECOMMUNICATION SWITCHING SYSTEM
2019/2020	BEET4803 - SATELLITE COMMUNICATION
2018/2019	BEET2313 - CONTINUOUS SIGNAL & SYSTEM
2018/2019	BEET2333 - COMMUNICATION PRINCIPLE
2018/2019	BEET3393 - TELECOMMUNICATION SWITCHING SYSTEM
2018/2019	BEET4803 - SATELLITE COMMUNICATION
2017/2018	BET11333 - ADVANCED ELECTRICAL CIRCUIT
2017/2018	BETT2313 - CONTINUOUS SIGNAL & SYSTEM
2017/2018	BETT3414 - RF TECHNIQUE & MICROWAVE
2017/2018	BETT4803 - SATELLITE COMMUNICATION

### LIST OF GRANTS *(last 5 years)*

YEAR AWARDED	TITLE OF PROJECT	TYPE OF GRANT	AMOUNT (RM)	ROLE
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STAFF PROFILE

2021	DEEP LEARNING-BASED RESOURCE ALLOCATION ALGORITHM FOR ENERGY EFFICIENT NON-ORTHOGONAL MULTIPLE ACCESS (NOMA) WITH DEVICE-TO-DEVICE (D2D) COMMUNICATIONS IN 5G SYSTEM	GERAN FRGS (NATIONAL)	69588	CO-RESEARCHER
2020	AUTOMATED HARDWARE CHECKER PROGRAM DEVELOPER WITH GUI AND SMART LOAD BOARD	GERAN INDUSTRI (INDUSTRY)	30000	CO-RESEARCHER
2020	RESPONSE TIME MINIMIZATION USING IOT AND GPS FOR EMERGENCY ALERT SYSTEM IN FIREFIGHTER DEPARTMENT	HIGH IMPACT (UTEM)	46000	CO-RESEARCHER
2020	A NEW POWER ALLOCATION ALGORITHM UTILIZING CONVEX OPTIMIZATION TECHNIQUE FOR MAXIMIZING ENERGY EFFICIENCY OF NOMA BASED IOT SYSTEM	GERAN FRGS (NATIONAL)	64100	MAIN RESEARCHER
2018	EVALUATION OF JADE IN TIME CRITICAL WIRELESS APPLICATION FOR MOBILE RESTRICTED AREA	SHORT TERM (UTEM)	7000	CO-RESEARCHER

**PUBLICATIONS (last 5 years)****JOURNAL**

YEAR	TITLE	NAME OF JOURNAL	AUTHORS
2021	LOCATION TRACKING USING LORA	INTERNATIONAL JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING	HASHIM N., IDRIS F., AZIZ T.N.A.T.A., JOHARI S.H., NOR R.M., WAHAB N.A.
2020	IOT BLOOD PRESSURE MONITORING SYSTEM	INDONESIAN JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCE	NORLEZAH HASHIM, NURBAHIRAH NORDDIN, FAKRULRADZI IDRIS, SITI NUR ILMANI MOHD YUSOFF, MADIHA ZAHARI
2019	AUTOMATIC TRAFFIC LIGHT CONTROLLER FOR EMERGENCY VEHICLE USING PERIPHERAL INTERFACE CONTROLLER	INTERNATIONAL JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING	NORLEZAH HASHIM, FAKRULRADZI IDRIS, AHMAD FAUZAN KADMIN, SITI SUHAILA JAAPAR SIDEK
2019	DEVELOPMENT OF A POWER GENERATOR SYSTEM USING THERMAL WASTE FROM A CAR	INTERNATIONAL JOURNAL OF INTEGRATED ENGINEERING	SITI HALMA JOHARI, NORFARIZA AB WAHAB, NURLIYANA ABD. MUTALIB, SUZIANA AHMAD, DAYANASARI ABDUL HADI, MADIHA ZAHARI, NORLEZAH HASHIM, MAZWIN MAZLAN
2019	INTELLIGENT FIRE DETECTION AND ALERT SYSTEM USING LABVIEW	INTERNATIONAL JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING	FAKRULRADZI IDRIS, NORLEZAH HASHIM, AHMAD FAUZAN KADMIN, LEE BOON YEE

**CONFERENCE**

YEAR	TITLE	NAME OF CONFERENCE	AUTHORS
2020	DESIGN AND PERFORMANCE ANALYSIS OF IOT BASED SENSOR SYSTEM USING LORA	MALAYSIAN TECHNICAL UNIVERSITIES CONFERENCE ON ENGINEERING AND TECHNOLOGY (MUCET 2019)	FAKRULRADZI IDRIS, MUHAMMAD SYAHMI ANUAR, MUHAMMAD HAZIM ZIN AZMAN, NORLEZAH HASHIM
2019	IOT BLOOD PRESSURE MONITORING SYSTEM	2019 INTERNATIONAL CONFERENCE ON ELECTRICAL, ELECTRONIC, COMMUNICATION AND CONTROL ENGINEERING	NORLEZAH HASHIM, NURBAHIRAH NORDDIN2, FAKRULRADZI IDRIS, SITI NUR ILMANI MOHD YUSOFF, MADIHA ZAHARI

**POSTGRADUATE SUPERVISION** *(last 5 years)*

NO	NAME	LEVEL OF STUDY	ROLE	STATUS
1	MUHAMAD FIRDAUS BIN DARUS	MASTERS	CO-SUPERVISOR	ACTIVE

KATEGORI MAKLUMAT	PEJABAT DIRUJUK
PERSONAL INFORMATION	BAHAGIAN SUMBER MANUSIA, PEJABAT PENDAFTAR
ACADEMIC QUALIFICATON	
PROFESSIONAL MEMBERSHIP / LEARNED SOCIETY	
TEACHING EXPERIENCE	BAHAGIAN PENGURUSAN AKADEMIK, PEJABAT PENDAFTAR
<ul style="list-style-type: none"> <li>• UNDERGRADUATES</li> </ul>	
<ul style="list-style-type: none"> <li>• POSTGRADUATES</li> </ul>	PUSAT PENGAJIAN SISWAZAH (PPS)
POSTGRADUATE SUPERVISION	PUSAT PENGAJIAN SISWAZAH (PPS)
FIELD OF INTEREST	PUSAT PENGURUSAN PENYELIDIKAN DAN INOVASI (CRIM)
LIST OF GRANTS	
LIST OF RESEARCH AWARDS	PUSAT PENGKOMERSILAN (UCC)
INTELLECTUAL PROPERTIES	
COMMERCIALIZATION	
PUBLICATIONS	PERPUSTAKAAN LAMAN HIKMAH
CONSULTANCY	PUSAT JARINGAN INDUSTRI DAN MASYARAKAT (PJIM)