|  |  |
| --- | --- |
| **UTM LOGO brand .jpeg** | **CURRICULUM VITAE** |



PERSONAL DETAILS

|  |  |  |
| --- | --- | --- |
| **Name** | : | Nurul Hazrina binti Idris (Gs Sr. Dr.) |
| **Gender** | : | Female |
| **Date of Birth/Age** | : | 29 August 1983/38 |
| **Nationality** | : | Malaysian |
| **Marital Status** | : | Married |
| **Permanent Address**  | : | 28 Jalan Pulai Tuah 8, Bandar Baru Kangkar Pulai 81300 Johor Darul Takzim. |
| **Correspondent Address** | : | Department of Geoinformation, Faculty of Built Environment and Surveying, Universiti Teknologi Malaysia, 81310 Skudai Johor Darul Takzim. |
| **Tel** | : | +60182118283 |
| **E-mail**  | : | nurulhazrina@utm.my |
| **Website** | : | https://people.utm.my/nurulhazrina |
| **ID Staff** | : | 9798 |
| **Expertise** | : | Non-Imaging Remote Sensing (Altimeter); Marine Remote Sensing, Deep Learning Remote Sensing |
| **H-Index (WOS)** | : | 4 |
| **H-Index (SCOPUS)** | : | 5 |
| **H-Index (G. Scholar)**  | : | 7 |
| **H-Index (Researchgate)** | : | 15.73 |

ACADEMIC QUALIFICATIONS

Sila susun dari pengajian tertinggi dan seterusnya.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **NO** | **LEVEL OF EDUCATION** | **COURSE** | **UNIVERSITY** | **STARTING DATE** | **ENDING DATE** |
| 1 | Ph.D.  | Civil Engineering | University of Newcastle, Australia | 2009 | 2014 |
| 2 | MPhil | Remote Sensing | UTM | 2005 | 2008 |
| 3 | B.Sc | Remote Sensing | UTM | 2001 | 2005 |

AWARD AND HONORS RECEIVED

|  |
| --- |
| **Summary** |
| International Awards/Honors | 14 |
| National Awards/Honors | 6 |
| UTM Awards/Honors | 4 |
| Faculty Awards/Honors | 6 |

|  |  |  |  |
| --- | --- | --- | --- |
| **NO** | **AWARD** | **LEVEL****(FACULTY /UTM /NATIONAL /INTERNATIONAL)** | **YEAR** |
| 1. | Asia Pacific Network for Global Change Research, Capacity Building Development Grant (Amount USD 25,000) | International | 2021 |
| 2. | Community on Space Research (COSPAR), International Council for Scientific Unions for PORSEC2020 Conference (Amount Euro 2,000) | International | 2021 |
| 3. | Scientific Committee of Oceanic Research (SCOR) for PORSEC2020 Conference (Amount USD3,000) | International | 2021 |
| 4. | Institute of Geopatial and Remote Sensing Malaysia (IGRSM) for PORSEC2020 Conference (Amount RM3,000) | National | 2021 |
| 5. | Malaysia Convention & Exhibition Bureau (MyCEB) for PORSEC Association Site Visit (RM5,000) | National | 2020 |
| 6. | Malaysia Convention & Exhibition Bureau (MyCEB) for PORSEC2020 Conference (RM33,000) | National | 2020-2021 |
| 7. | Silver Medal, Industrial Art and Technology Exhibition (INATEX) | UTM | 2020 |
| 8. | Bronze Medal, eCarnival Research and Innovation | National | 2020 |
| 9. | Best Paper Award, IRERS2020 | National | 2020 |
| 10. | Anugerah Kualiti Perkhidmatan, Majlis Anugerah Kecemerlangan FABU | Fakulti | 2020 |
| 11. | Anugerah Penerima Geran Penyelidikan, Majlis Anugerah Kecemerlangan FABU  | Fakulti | 2020 |
| 12. | Anugerah Prolifik Staf Akademik (Kategori Prolifik Amaun Geran Penyelidikan) , Majlis Anugerah Kecemerlangan FABU | Fakulti | 2020 |
| 13. | Invited Facilitator, Workshop Dosen Fakultas Teknik Universitas Muhammadiah Makassar Indonesia from 2-3 December 2019 | International | 2019 |
| 14. | Invited Speaker, 2019 China Marine Economy Expo in Shenzen China from 14-17 October 2019 | International | 2019 |
| 15. | Invited Speaker, International Conference on Marine Sciences in Bogor Indonesia in 4 September 2019 | International | 2019 |
| 16. | Invited Facilitator, Coastal Altimetry Training Course in IPB University in Bogor Indonesia from 2-3 September 2019 | International | 2019 |
| 17. | Australia Award: Endeavour Fellowship Australia (Amount AUD 23,500) | International | 2018-2019 |
| 18. | Australian Endeavour Lapel Pin | International | 2019 |
| 19. | Anugerah Perkhidmatan Cemerlang, Majlis Citra Karisma UTM | UTM | 2017 |
| 20. | Anugerah Perkhidmatan Cemerlang, Research Institute for Sustainable Environment (RISE) | UTM | 2017 |
| 21. | Anugerah Perkhidmatan Cemerlang, Majlis Anugerah Kecemerlangan Fakulti Geoinformasi dan Harta Tanah | Fakulti | 2017 |
| 22. | Anugerah Penerbitan Citra Karisma (Penulis Dalam Jurnal Berindeks) | UTM | 2018 |
| 23. | Bronze Medal, Industrial Art and Technology Exhibition (INATEX) | Universiti | 2016 |
| 24. | Anugerah Prestasi Cemerlang eLPPT, Majlis Anugerah Kecemerlangan Fakulti Geoinformasi dan Harta Tanah | Fakulti | 2016 |
| 25. | Anugerah Harta Intelek (Copyright), Majlis Anugerah Kecemerlangan Fakulti Geoinformasi dan Harta Tanah | Fakulti | 2016 |
| 26. | Travel grant for attending the Australia Coastal Ocean Modeling and Observation Workshop in Canberra, and for scientific visits to Australia Research Council Centre of Excellent of Climate Change Research Centre, the University of New South Wales, the University of Newcastle and the University of Tasmania in October 2014. Awarded by the Australia Research Council Centre of Excellent of Climate Change Research Centre (Amount AUD 2500) | International | 2014 |
| 27. | IEEE Geoscience and Remote Sensing Society (GRSS) Travel Grant for attending IGARSS 2014 at Quebec Canada (Amount USD 1205). | International | 2014 |
| 28. | The Faculty of Engineering and Built Environment Postgraduate Research Prize in Environment Engineering and Surveying (AUD1,000) | International | 2012 |
| 29. | Endeavour International Postgraduate Research Scholarship, Australia. | International | 2009-2013 |
| 30. | IAG Travel Award for attending the 20 Years of Progress in Radar Atimetry, Venice Italy in Sept 2012 (Amount Euro 750) | International | 2012 |
| 31. | Academic’s Award from Malaysian Space Agency (RM5,000) | National | 2006 |

WORKING EXPERIENCE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **POSITION**  | **STARTING DATE** | **ENDING DATE** | **DEPARTMENT/ORGANISATION** |
| 1. | Postdoctorate | Jun 2018 | Sept 2018/May2019 | IPASA/UTM |
| 2. | Postdoctorate | Nov 2018 | April 2019 | Department of Civil and Surveying, the University of Newcastle Australia. |
| 3. | Honorary Staff | Nov 2018 | April 2019 | Department of Civil and Surveying, the University of Newcastle Australia |
| 4. | Visiting Research Associate | Aug 2014 | Aug 2014 | The Climate Change Research Centre,The University of New South Wales, Sydney Australia |
| 5. | Associate Researcher | Nov 2013 | Feb 2014 | The Climate Change Research Centre,The University of New South Wales, Sydney Australia |
| 6. | Research Officer | Apr 2019 | Sept 2014 | Department of Remote Sensing, Fakulti Kejuruteraan dan Sains Geoinformasi UTM. |

PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

|  |
| --- |
| Summary |
| International Professional Membership / Qualifications / Recognition | 7 |
| National Professional Membership / Qualifications / Recognition | 2 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **NAME OF PROFESIONAL MEMBERSHIP** | **LEVEL****(FACULTY /UTM /NATIONAL /INTERNATIONAL)** | **ROLE** | **YEAR** |
| 1. | IEEE Geoscience and Remote Sensing Society | International | Malaysian Chapter Elected Exco Member Member  | 2020-20222015 - present |
| 2. | Pan Ocean Remote Sensing (PORSEC) Association | International | Member | 2018-present |
| 3. | Royal Institution of Surveyors Malaysia | National | Member | 2015-present |
| 4. | Institut Geospatial and Remote Sensing Malaysia (IGRSM) | National | Member | 2020-present |
| 5. | IEEE Young Professionals  | International |  | 2015 - present |
| 6. | Europoean Geoscienec Union (EGU) | International | Member | 2019 |
| 7. | International Association of geodesy (IAG) | International | Member | 2016 |
| 8. | Royal Geographical Society (with Institute British Geographers | International | Fellow Member | 2015-2016 |
| 9. | ISPRS Commission III/VII (Photogrammetric Computer Vision and Image Analysis/ Pattern Recognition for Remote Sensing | International | Member | 2008-2012 |

ADMINISTRATIVE EXPERIENCE

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **POSITION**  | **STARTING DATE** | **ENDING DATE** | **DEPARTMENT/ FACULTY/ DIVISION** |
|  | Leader | July 2019 | Present | Tropical Map Resource Research Group |
|  | Academic Advisor for Students of Geoinformation (intake 2020/2021) | 2020 | Present | Jabatan Geoinformasi, Fakulti Alam Bina dan Ukur |
|  | Coordinator of Postgraduate Program (Remote Sensing | Feb 2016 | Feb 2018 | Jabatan Geoinformasi, Fakulti Geoinformasi dan Harta Tanah |
|  | Academic Advisor for Students of Geoinformation (intake 2014/2015) | 2014 | 2018 | Jabatan Geoinformasi, Fakulti Geoinformasi dan Harta Tanah |
|  | Felo Kolej | Feb 2015 | Feb 2018 | Kolej 9 & 10 |
|  | Felo Kolej | Oct 2008 | 2009 | Kolej Tun Razak |
|  | Pembantu Felo Kolej | Oct 2007 | Sept 2008 | Kolej Tun Razak |

CONSULTATION WORKS

|  |
| --- |
| Summary |
| Consultation Project-UTM  |  |
| Consultation Project- Others | 2 projects (RM 59,225.29) |

**Sila pastikan LENGKAP DENGAN NO VOT**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Year** | **Title** | **Value** | **Vot** |
|  | 2019 | Digital Defect Lens Counter | RM52,628.29 | GTIM61-UTSB |
|  | 2019 | Perkhidmatan Perundingan Pelabelan Pokok Menggunakan Aplikasi Geotrees Sempena Program Infaq Warisan Mutiara Rini | RM 6597 | 89-UTSB |

INTERNATIONAL/NATIONAL/UNIVERSITY COMMITTEE

|  |
| --- |
| Summary |
| International Commitee  | 7 |
| National Commitee  | 5 |
| University Commitee  | 6 |
| Faculty Commitee | 14 |
| Community Commitee | 14 |

**International**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **NAME OF COMMITTEE** | **ROLE** | **STARTING DATE** | **ENDING DATE** |
| 1 | International Online Tutorial-Massive Open Online Course on Ocean Remote Sensing for Climate Resilience | Chairman and Instructor | Dec 2020 | Apr 2021 |
| 2 | 15th Pan Ocean Remote Sensing Conference (PORSEC 2020) | Chairman | 1 Jan 2019 | Dec 2021 |
| 3 | PORSEC2020 Capacity Building Tutorial | Chairman | 1 Jan 2019 | Dec 2021 |
| 4 | Landuse/Landcover Changes (LCLUC), Environment and Emissions in South/Southeast Asia-NASA SARI International Regional Science Meeting 2019. | Committee Member | Jan 2019 | July 2019 |
| 5 | Landuse/Landcover Changes (LCLUC), Environment and Emissions in South/Southeast Asia-NASA SARI International Regional Science Meeting 2019. | Panel of Poster Competition | July 2019 | July 2019 |
| 6 | The National Coordinators’ Meeting: The Japan Society for the Promotion of Science Multilateral Cooperative Research Programme (Coastal Marine Science) | Committee Member | 2008 | 2008 |
| 7 | International Workshop on Earth Observation Small Satellites for Remote Sensing Applications EOSS | Committee Member | 2007 | 2007 |

**National**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **NAME OF COMMITTEE** | **ROLE** | **STARTING DATE** | **ENDING DATE**  |
| 1 | IEEE IWRGS Virtual Conference 2020 | Technical Program Committee  | Jan 2020 | Dec 2020 |
| 2 | Jawatankuasa Penasihat Persediaan Bantuan Bencana Negeri Kelantan | Ahli Jawatankuasa Penasihat | 30 Oct 2016 | 30 Oct 2017 |
| 3 | IEEE IWRGS Virtual Conference 2015 | Committee Member | 2015 | 2015 |
| 4 | Short Video Competition | Committee Member | 2015 | 2015 |
| 5 | The 5th Malaysian Remote Sensing Society on Remote Sensing and GIS | Committee Member | 2008 | 2008 |

**University**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **NAME OF COMMITTEE** | **ROLE** | **STARTING DATE** | **ENDING DATE**  |
| 1 | Jawatankuasa Pelaksanaan Massive Open Online Course (MOOC) on Ocean Remote Sensing Towards Climate Resilience | Chair | 2020 | 2021 |
| 2 | Jawatankuasa OSHE Kolej 9&10 | Member | 2017 | 2017 |
| 3 | The University of Life Orchidia Programme (Orchid Planting) | Student Program Advisor | 2017 | 2017 |
| 4 | Kelab Usahawan, Kolej 9&10 | Student Club Advisor | 2017 | 2017 |
| 5 | Kelab IT, Kolej 9&10 | Student Club Advisor | 2015 | 2017 |
| 6 | Program Jualan Bunga Konvokesyen ke 58’ and 59’, Kelab Usahawan, Kolej 9&10 | Student Program Advisor | 2017 | 2017 |

**Faculty**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **NAME OF COMMITTEE** | **ROLE** | **STARTING DATE** | **ENDING DATE**  |
| 1 | Taskforce Penambahbaikan Buku Pelan Strategik FABU | Members | 9 Sept 2020 | 31 Dis 2020 |
| 2 | Jawatankuasa Editorial Penerbitan Pre-Conference Proceedings PORSEC2020 | Chair | 4 Nov 2020 | 31 Dis 2020 |
| 3 | Taskforce Pelaksanaan Massive Open Online Course (MOOC) on Ocean Remote Sensing Towards Climate Resilience | Chair | 2020 | 2021 |
| 4 | Taskforce Semakan Kurikulum Pasca Siswazah Remote Sensing | Member | 2017,2019, 2020 |  |
| 5 | Jawatankuasa Penggalakan Penerbitan Fakulti Geoinformasi dan Harta Tanah | Member | 2017 | 2019 |
| 6 | Jawatankuasa Pasca Siswazah Remote Sensing | Member | 2017 | 2019 |
| 7 | Jawatankuasa Penilai Kertas Soalan Peperiksaan Akhir Program Sarjana Muda Geoinformatik | Member | 20152016 | 20162017 |
| 8 | Jawatankuasa Program Kartografi | Member | 2016 | 2018 |
| 9 | Jawatankuasa Penyediaan Laporan COPPA Sarjana Muda Sains Geoinformatik | Member | 2015 | 2015 |
| 10 | Jawatankuasa Panel dan Penyemak Kertas Soalan Peperiksaan Pasca Siswazah Jabatan Geoinformatik | Member | 2015 | 2016 |
| 11 | Jawatankuasa Pemantapan Program Geoinformatik | Member | 2016 | 2016 |
| 12 | Jawatankuasa E-Learning Fakulti Geoinformasi dan Harta Tanah | Member | 2016 | 2016 |
| 13 | Jawatankuasa Inovasi dan Komersialisasi Fakulti Geoinformasi dan Harta Tanah, | Member | 2016 | 2017 |
| 14 | Jawatankuasa Pengiktirafan Program Akademik Sarjana Muda Geomatik bagi Lembaga Jurukur Tanah dan Royal Institution of Chartered Surveyor | Member | 2014 | 2015 |

**Community**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **NAME OF COMMITTEE** | **ROLE** | **STARTING DATE** | **ENDING DATE**  |
| 1 | Geo-treevolution with LADA and school teachers in Langkawi | Commitee Member/Fasilitator | 2019 | 2019 |
| 2 | Program Mitigasi Perubahan Iklim Libatsama Komuniti, Sekolah Menengah Pendidikan Khas Vokasional Indahpura | Commitee Member/Fasilitator | 2019 | 2020 |
| 3 | MaPIML Fiesta at SMPK Vokasional Indahpura | Commitee Member/Fasilitator | 2019 | 2019 |
| 4 | Geo-treevolution at Sungai Bunut, Kuala Lumpur | Commitee Member/Fasilitator | 2018 | 2018 |
| 5 | Program Transformasi Teknologi Geospatial Merentas Komuniti: Modul Geoinovasi di MRSM Tun Dr. Ismail, Pontian Johor | Commitee Member/Fasilitator | 2018 | 2018 |
| 6 | Program Transformasi Teknologi Geospatial Merentas Komuniti: Modul Pemanasan Global di SK Sri Pulai, Johor | Program Chair | 2017 | 2017 |
| 7 | Pembangunan Geoinventori dan Laman Sesawang SK Sri Pulai Perdana, Johor | Program Chair | 2017 | 2017 |
| 8 | Program Transformasi Teknologi Geospatial Merentas Komuniti: Modul Pemanasan Global at RISM Young Achievers Award | Program Chair | 2017 | 2017 |
| 9 | Program Transformasi Teknologi Geospatial Merentas Komuniti: Modul Pemanasan Global di SK Taman Universiti 2, Johor | Commitee Member/Fasilitator | 2017 | 2017 |
| 10 | Program Transformasi Teknologi Geospatial Merentas Komuniti: Modul Pemanasan Global di SK Kulai 2, Johor | Commitee Member/Fasilitator | 2017 | 2017 |
| 11 | Program Titian Ilmu Anak Teknologi (Tintec): Agronomia’ at Papar, Sabah, | Program Advisor | 2017 | 2017 |
| 12 | Program Transformasi Teknologi Geospatial Merentas Komuniti bersama Sekolah Angkat UTM | Program Chair | 2016 | 2016 |
| 13 | Geospatial Outreach Program | Chairman | Jan 2016 | Dec 2016 |
| 14 | Geo-explorace | Program Chair | 2016 | 2016 |

SELECTED ACTIVITIES / WORKSHOPS / SEMINARS / COURSES

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **NAME OF ACTIVITIES** | **PLACE OF ACTIVITIES** | **STARTING DATE** | **ENDING DATE**  |
| 1. | IEEE International Geoscience and Remote Sensing Symposium IGARSS 2020 (Virtual) | Hawaii, USA | 26 Sept 2020 | 2 Oct 2020 |
| 2. | Workshop Dosen Fakultas Teknik Universitas Muhammadiah Makassar Indonesia: Workshop on Initiating Research Interest Recognising and Research Trend | Makassar, Indonesia | 2 Dis 2019 | 3 Dis 2019 |
| 3. | China Marine Economy Expo | Shenzen China | 14 Oct 2019 | 17 Oct 2019 |
| 4.  | Marine Science Training Course | Bogor Indonesia | 2 Sep 2019 | 3 Sept 2019 |
| 5. | 3rd International Conference on Marine Science, 4 September 2019,IPB Convention Centre, Bogor Indonesia | Bogor Indonesia | 4 Sept 2019 | 4 Sept 2019 |
| 6. | 14th Pan Ocean Remote Sensing Conference | Jeju Island Republic of Korea | 4 Nov 2018 | 7 Nov 2018 |

RESEARCH ACTIVITIES

|  |
| --- |
| Summary |
| Principal Investigator- International Grants | **3 projects (RM189,402.68)** |
| Principal Investigator- National Grants | **2 projects (RM279,300)** |
| Principal Investigator- UTM Grants | **4 projects (RM102,500)** |
| Member- International Grants | **1 projects (RM67,818)** |
| Member- National Grants | **12 projects (RM1,327,200)** |
| Member- UTM Grants | **4 projects (RM396,500)** |

***As a principal investigator***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **BIL** | **NAME OF GRANT** | **ROLE** | **CATEGORY OF GRANT (UTM/ OTHERS)** | **TYPE OF GRANT** | **AMOUNT (RM)** | **STARTING DATE** | **ENDING DATE** | **VOTE NO** |
| 1 | Asia Pacific Network for Global Change Research | PI | International | Capacity Building Development Grant | USD25,000 | 1 Jan 2021 | 31 Dec 2021 | In progress |
| 2 | UTM RA ICONIC Grant | PI | UTM | Research | RM94,550 | 1 July 2020 | 30 Jun 2023 | 09G73 |
| 3 | Fundamental Research Grant Scheme | PI | MOHE | Research | RM149,800 | Sept 2019 | May 2023 | 5F626 |
| 4 | Endeavour Fellowship Australia Award | PI | International | Gift | AUD23,500 | Nov 2018 | Apr 2019 | NIL |
| 5 | Tier-1 RUG Grant | PI | UTM | Research | RM 40,000 | July 2017 | Dec 2018 | 17H59 |
| 6 | Fundamental Research Grant Scheme | PI | MOHE | Research | RM129,500 | Sept 2015 | Sept 2018 | 4F776 |
| 7 | The University of New South Wales’s Science Faculty Research Grants Program and Early Career Researcher Grants Program IR001-PS30697 | PI | International | Research | RM15,000 | Dec 2013 | Feb 2014 | 4X041 |
| 8 | Tier-1 RUG Grant | PI | UTM | Research | RM 22,500 | Sept 2015 | Feb 2017 | 11H22 |
| 9 | Tier-2 Encouragement Grant | PI | UTM | Research | RM20,000  | Sept 2015 | Aug 2016 | 11J45 |
| 10 | Potential Academic Staff | PI | UTM | Research | RM20,000 | Mar 2015 | Feb 2016 | 01K60 |

***As a scientific member***

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **BIL** | **NAME OF GRANT** | **ROLE** | **CATEGORY OF GRANT (UTM/ OTHERS)** | **TYPE OF GRANT** | **AMOUNT (RM)** | **STARTING DATE** | **ENDING DATE** | **VOTE NO** |
| 1 | UTM Prototype Research | Member | UTM | Prototype Research | RM51,500 | 1 Jan 2020 | 30 Jun 2022 | 00L54 |
| 2 | UTM RA ICONIC GRANT | Member | UTM | Research | RM300,000 | 1 July 2020 | 30 Jun 2023 | 09G74 |
| 3 | Fundamental Research Grant Scheme | Member | MOHE | Research | RM112,200 | 1 Nov 2020 | 31 Oct 2023 | 5F374 |
| 4 | RUG of UTM | Member | UTM | Industry-International Incentive Grant | RM20,000 | 1 Sept 2019 | 28 Feb 2021 | 01M67 |
| 5 | Fundamental Research Grant Scheme | Member | MOHE | Research | RM 76,700 | Sept 2019 | May 2023 | 5F168 |
| 6 | Fundamental Research Grant Scheme | Member | MOHE | Research | RM 76,700 | Jan 2019 | Dec 2020 | 4X437 |
| 7 | Tier-2 RUG Grant | Member | MOHE | Research | RM 30,000 | 1 Aug 2019 | 31 Jan 2022 | 16J88 |
| 8 | OTR and Natural Environmental Fundation, Japan | Member | International | Research | RM52,818 | Jan 2018 | Dec 2019 | 4B318 |
| 9 | International Collaboration Fund (ICF) | Member | MOSTI | Research | RM471,500 | Oct 2018 | Dec 2020 | 4S142 |
| 10 | High Impact Research Grant | Member | MOHE | Research | RM60,000 | 1 Apr 2018 | 30 Sept 2021 | 04G44 |
| 11 | Fundamental Research Grant Scheme | Member | MOHE | Research | RM109,000 | Dec 2014 | Nov 2017 | 4F669 |
| 12 | Fundamental Research Grant Scheme | Member | MOHE | Research | RM 73,000 | Dec 2014 | Nov 2016 | 4F656 |
| 13 | Trans Research Grant Scheme (TRGS) Research Project | Member | MOHE | Transdiciplinary | RM110,000 | Apr 2015 | Dec 2015 | 4L831 |
| 14 | Fundamental Research Grant Scheme | Member | MOHE | Flagship Banjir | RM 36,400 | Apr 2015 | Dec 2015 | 4F691 |
| 15 | Fundamental Research Grant Scheme | Member | MOHE | Research | RM 98,700 | Nov 2015 | Nov 2017 | 4F706 |
| 16 | Encouragement Grant | Member | UTM | Research | RM25,000 | 1 Apr 2014 | 31 Mar 2015 | 09J97 |
| 17 | Fundamental Research Grant Scheme | Member | MOHE | Research | RM 73,000 | Sept 2007 | Dec 2009 | 78276 |

COLLABORATION / MOU

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **NAME OF MOU** | **LEVEL OF MOU (NATIONAL/INTERNATIONAL)** | **STARTING DATE** | **ENDING DATE** |
| 1. | National Oceanography Technology Centre (NOTC) and UTM | International  | 2019 | 2022 |
| 2. | Andes Consultants PTE LTD Singapore and INSTEG UTM | International | 2018 | 2021 |
| 3. | Letter of Agreement between Malaysia Centre for Geospatial Data Centre (McGDI) and UTM | National | 2019 | 2020 |

TEACHING ACTIVITIES

|  |
| --- |
| Summary |
| Total Credit Hours | 53 |

**UNDERGRADUATES**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Semester** | **Sem** | **Subject Code** | **Subject** | **Credit Hour** | **No of Student** |
| 2020/2021 | 1 | SBEU1093-01 | Computer Programming  | 3 | 41 |
| 2020/2021 | 1 | SBEU1093-02 | Computer Programming  | 3 | 19 |
| 2020/2021 | 1 | SGHU1093-01 | Computer Programming  | 3 | 26 |
| 2020/2021 | 1 | SBEU1093-01 | Computer Programming (SPACE) | 3 | 6 |
| 2019/2020 | 1 | SGHU3743-01 | Physical Oceanography | 3 | 16 |
| 2019/2020 | 2 | SBEG2533-01 | Digital Image Processing | 3 | 10 |
| 2019/2020 | 1 | SGHG3533-01 | Digital Image Processing | 3 | 39 |
| 2018/2019 | 1 | SGHG3533-01 | Digital Image Processing | 3 | 52 |
| 2017/2018 | 1 | SGHG3542-01 | Khemah Latihan GIS 2 | 2 | 30 |
| 2017/2018 | 1 | SGHG3542-02 | Khemah Latihan GIS 2 | 2 | 30 |
| 2017/2018 | 2 | SGHG1474-01 | Principle fo Photogrammetry and Remote Sensing | 3 | 24 |
| 2016/2017 | 1 | SGHG3533-01 | Digital Image Processing | 3 | 39 |
| 2016/2017 | 2 | SGHG1474-01 | Principle fo Photogrammetry and Remote Sensing | 3 | 15 |
| 2016/2017 | 2 | SGHG2492-01 | Khemah Latihan GIS 1 | 2 | 35 |
| 2016/2017 | 2 | SGHG2492-02 | Khemah Latihan GIS 1 | 2 | 20 |
| 2015/2016 | 1 | SGHG3533-01 | Digital Image Processing | 3 | 39 |
| 2015/2016 | 2 | SGHG1473-01 | Principle fo Photogrammetry and Remote Sensing | 3 | 26 |
| 2014/2015 | 2 | SGHG1473-01 | Principle fo Photogrammetry and Remote Sensing | 3 | 30 |
| 2014/2015 | 1 | SGHG2552-01 | Introduction to Geographical Information System | 2 | 39 |
| 2014/2015 | 2 | SGS4653 | Remote Sensing for Hydrology | 3 | 40 |
| **Total credits** | **55** | 576 |

**POSTGRADUATES**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Semester** | **Sem** | **Subject Code** | **Subject** | **Credit Hour** | **No of Student** |
| 2017/2018 | 1 | MGHS1998 | Master’s Project | 8 | 1 |
| 2016/2017 | 2 | MGHS1998 | Master’s Project | 8 | 1 |
| 2016/2017 | 1 | MGHS1998 | Master’s Project | 8 | 1 |
| 2016/2017 | 2 | MGHS1104 | Applications of Remote Sensing | 4 | 3 |
| 2015/2016 | 2 | MGHS1104 | Applications of Remote Sensing | 4 | 1 |
| 2014/2015 | 2 | MGS1104 | Applications of Remote Sensing | 4 | 1 |
| **Total credits** | **36** | 8 |

**PROFESSIONAL CERTIFICATE COURSE**

Marine Geospatial and Cartography Program

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Semester** | **Sem** | **Subject Code** | **Subject** | **Credit Hour** | **No of Student** |
| 2020 |  | M4C | Remote Sensing | 34 | 5 |
| 2017 |  | M4C | Remote Sensing | 34 | 8 |

SUPERVISION

|  |
| --- |
| Summary |
| Main Supervisor – PhD (Graduated)  | 1 |
| Co-Supervisor – PhD (Graduated) |  |
| Main Supervisor – PhD (Ongoing) |  |
| Co-Supervisor – PhD (Ongoing) | 2 |
| Main Supervisor- Master by Research (Graduated) | 1 |
| Main Supervisor- Master by Research (On-Going) | 1 |
| Main Supervisor- Master by Taught Course (Graduated) | 2 |
| Main Supervisor- Master by Taught Course (On-Going) |  |
| Main Supervisor- Master by Mixed-Mode (Graduated) |  |
| Main Supervisor- Master by Mixed-Mode (On-Going) |  |

***PhD Student***

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| --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **Student ID** | **Status (Graduated/ On-Going)** | **Title** | **Roles of Supervision** |
| 1 | Mohd Hilmi P.Ramli | PG093105 | Graduated | Hasilan Air Dan Kelestarian Pengurusan Sumber Air Di Kawasan Tadahan Dengan Menggunakan Teknik Remote Sensing | Main supervisor |
| 2 | Maya Eria Sinurat(IPB University Indonesia) | NIM C562180058 | On-Going | Retracking Waveform Data Satelit Altimeter Dengan Artificial Inteligence Di Perairan Indonesia | External Co-Supervisor |
| 3 | Ismaila Usman Kaoje | PGH173028 | On-Going | Development of Micro-Scale Indicator-Based Physical Flood Vulnerability Assessment Method in Kota Bharu, Malaysia | Co-Supervisor |
| 4 | Nor Fariza Zainal | PGH163013 | Withdrawn | SAR Altimetry Retracking over Coastal Ocean of the Southeast Asia | Main supervisor |
| 5 | Nurzariyatul Syahirah Masrol | PGH183012 | Withdrawn | Development of Improved Neural Network Performance for Altimeter Sea Level Bias | Main supervisor |
| 6 | Senthil Kumar Jayapalan | PGH173047 | Withdrawn | Participatory Mapping And Assessment Of Prosopis Juliflora-A Silent Invader In Tirunelveli Region, India | Co-Supervisor |
| 7 | Noor Nabilah Abdullah | PGH193016 | Withdrawn | Sea Level Rise from Satellite Altimetry | Main supervisor |

***MSc. Student***

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| --- | --- | --- | --- | --- | --- | --- |
| **No.** | **Name** | **Student ID** | **Status (Graduated/ On-Going)** | **Title** | **Mode (Research / Taught-course/ Mixed Mode)** | **Roles of Supervision** |
| 1 | Noor Nabilah Abdullah | MGH143005 | Graduated | The optimal coastal retracked sea level from SARAL/Altika satellite altimetry over the Southeast Asia | Research | Main supervisor |
| 2 | Adzlan Ainee | MG123046 | Graduated | The development of tide model for South China Sea to support coastal vulnerability index in Malaysia | Research | Co-supervisor |
| 3 | Siti Balqis Mohammed | MGH153032 | Graduated | Validation of significant wave height derived from Sub-waveform retracking algorithm | Taught course | Main supervisor |
| 4 | Camalia Saini Hamsa |  | Graduated | Textural Measures of Oil Palm Ages | Taught course | Main supervisor |
| 5 | Muhammad Haikal Fayyadh Bin Munadi | MGH203019 | On-Going | Satellite Altimetry Data: Machine Leaning Approach for Hindcast and Forecast Sea Level Rise on South East Asia Ocean | Research | Main supervisor |
| 6 | Nurul Liyana Binti Ibrahim | MGH183003 | On-Going | Artificial Neural Network Model (ANN) for Forecasting Affordable Housing Demand | Research | Co-supervisor |
| 7 | Nurul Fazira Binti Sa'at | MGH183005 | On-Going | Artificial Neural Network Model For Forecasting Malaysian House Prices | Research | Co-supervisor |
| 8 | Marith Banati Barata | MGH173012 | Withdrawn | Assessment of ocean wave renewable energy from SAR altimetry | Research | Main supervisor |

UTM POSTGRADUATE EXAMINATION/ VIVA

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| --- |
| Summary |
| MSc. Internal Examiner | 1 |
| Fast track student examiner |  |
| Others Examiner | 10 |

**Msc Internal Examiner**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **ROLE** | **STUDENTS NAME** | **TITLE** | **YEAR** |
| 1 | Internal Examiner | Choong Khai Loong | Oil Palm Tree Detection And Delineation Using Local Maxima Template Matching And Seeded Region Growing | 2018 |

**Fast track student examiner**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **ROLE** | **STUDENTS NAME** | **TITLE** | **YEAR** |
|  |  |  |  |  |

**Others examiner**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **ROLE** | **STUDENTS NAME** | **TITLE** | **YEAR** |
| 1 | Chairman Assistant for PhD Viva | Nazarin Ezzaty Binti Mohd Najib | Estimation Of Oil Palm Biomass In PeninsularMalaysia Using Optical And Radar Remote SensingData | 2020 |
| 2 | Chairman Assistant for PhD Viva | Noor Emi Fadzilah | Geographically Weight Regression (Gwr) Model For Spatial Downscaling Glibal Precipitation Measurements (Gpm) Data In Kelantan Basin | 2020 |
| 3 | Chairman Assistant for PhD Viva | Kang Chuen Siang |  | 2017 |
| 4 | Internal examiner | Amalina Izzati Abdul Hamid | Mphil Proposal Defense | 2016 |
| 5 | Chairman Assistant for PhD Viva | Tan Mou Leong | PhD Proposal Defense | 2015 |
| 6 | Internal examiner | Nur Fadila Khalid | Mphil Proposal Defense | 2016 |
| 7 | Internal examiner | Astina Tugi | Mphil Proposal Defense | 2016 |
| 8 | Internal examiner | Lee Le Ming | Mphil Proposal Defense | 2015 |
| 9 | Internal examiner | Ng Hui Lin | Mphil Proposal Defense | 2015 |
| 10 | Internal examiner | Mohd Hilmi Bin P.Ramli | PhD Proposal Defense | 2015 |

EXTERNAL EXAMINATION/ VIVA

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| Summary |
| MSc. Internal Examiner | 1 |
| MSc. External Examiner |  |
| Others Examiner | 4 |

**Msc External Examiner**

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| **NO** | **ROLE** | **STUDENTS NAME** | **TITLE** | **YEAR** |
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**Fast track student examiner**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **ROLE** | **STUDENTS NAME** | **TITLE** | **YEAR** |
| 1 | Examiner Research Proposal Defense (IPB University Indonesia) | Maya Eria Sinurat | Retracking Waveform Data Satelit Altimeter Dengan Artificial Inteligence Di Perairan Indonesia | 2020 |
| 2 | Examiner Written Examination (IPB University Indonesia) | Maya Eria Sinurat | Retracking Waveform Data Satelit Altimeter Dengan Artificial Inteligence Di Perairan Indonesia | 2020 |
| 3 | Examiner Coloqium Open Presentation (IPB University Indonesia) | Maya Eria Sinurat | Retracking Waveform Data Satelit Altimeter Dengan Artificial Inteligence Di Perairan Indonesia | 2020 |
| 4 | Sidang Komisi Pembimbing (IPB University Indonesia) | Maya Eria Sinurat | Retracking Waveform Data Satelit Altimeter Dengan Artificial Inteligence Di Perairan Indonesia | 2020 |

PUBLICATIONS

**Sila tambah mengikut kesesuaian.**

|  |
| --- |
| Summary |
| ISI Article/Journal | 9 |
| Scopus Article/Journal | 6 |
| Non-Indexed Article/Journal |  |
| Indexed Conference Proceedings | 4 |
| Non- Indexed Conference Proceedings | 11 |
| Editted Books | 3 |
| Book Chapters | 8 |
| Original Book |  |
| Classified/Technical /Expert Report |  |
| Policy Paper |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Article Title | Journal Title | ISSN | Vol. | Issues | Page | Publication year | IF | Type of Publication | Category of Publication | Quartile Ranking |
| 1 | Assessment of Retracked Ocean Parameters from Sentinel 3A Synthetic Aperture Radar (SAR) model Altimetry over the Marginal Seas at Southeast Asia | International Journal of Remote Sensing | 01431161 | 42 | 4 | 1535-1555 | 2021 | 2.976 | ISI | Journal Article | 2 |
| 2 | Regional Validation of the Coastal Altimetry Waveform Retracking Expert System (CAWRES) over the largest archipelago in Southeast Asian seas | International Journal of Remote Sensing | 01431161 | 41 | 15 | 5680-5694 | 2020 | 2.976 | ISI | Journal Article | 2 |
| 3 | Flood vulnerability assessment of Buildings in Kota Bharu, Malaysia: an indicator-based approach | International Journal of Disaster Resilience in the Built Environment | 17595908 |  |  |  | 2020 |  | ISI | Journal Article |  |
| 4 | Wave Energy Resource Assessment with Improved Satellite Altimetry Data over the Malaysian Coastal Sea | Arabian Journal of Geosciences | 18667511 | 12 | 484 | 1-14 | 2019 | 1.141 | ISI | Journal Article | 4 |
| 5 | Textural measures for estimating oil palm age | International Journal of Remote Sensing | 01431161 | 40 | 19 | 7516-7537 | 2018 | 2.493 | ISI | Journal Article | 2 |
| 6 | CAWRES: A Waveform Retracking Fuzzy Expert System for Optimizing Coastal Sea Levels from Jason-1 and Jason-2 Satellite Altimetry Data | Remote Sensing | 20724292 | 9 | 6 | 603 | 2017 | 3.244 | ISI | Journal Article | 1 |
| 7 | Comparison of Retracked Coastal Altimetry Sea Levels Against High Frequency Radar on the Continental Shelf of the Great Barrier Reef Australia  | Journal of Applied Remote Sensing | 19313195 | 11  | 3 | 032403 | 2017 | 0.937 | ISI | Journal Article | 3 |
| 8 | Paper versus Screen: Assessment of Basic Literacy Skill of Indigenous People | Advanced Science Letters |  | 23 | 9 | 8752-8757 | 2016 |  | Scopus | Journal Article |  |
| 9 | The importance of coastal altimetry retracking and detiding: a case study around the Great Barrier Reef, Australia  | International Journal of Remote Sensing | 01431161 | 35 | 5 | 1729-1740 | 2014 | 1.138 | ISI | Journal Article | 2 |
| 10 | Engaging Indigenous People As Geo-Crowdsourcing Sensors For Ecotourism Mapping Via Mobile Data Collection: A Case Study Of The Royal Belum State Park | Cartography And Geographic Information Science | 15230406 | 44 | 2 | 113-127 | 2017 | 2.224 | ISI | Journal Article |  |
| 11 | Regional Validation of Retracked Sea Levels from SARAL/AltiKa over The South China Sea and Adjacent Seas | APRN Journal of Engineering and Applied Sciences |  | 12 | 23 | 6622-32 | 2017 |  | Scopus | Journal Article |  |
| 12 | Intercomparison Between Retracked Sea Levels From Saral/Altika Satellite Altimetry And Ocean Data Model Over The Marginal Seas At The South East Asia | International Journal of Geoinformatics | 16866576 | 12 | 2 | 27-32 | 2016 |  | Scopus | Journal Article |  |
| 13 | The Retracked Sea Levels From Saral/Altika Satellite Altimetry: The Case Study Around The Strait Of Malacca And The South China Sea | International Journal of Geoinformatics | 16866576 | 12 | 2 | 33-39 | 2016 |  | Scopus | Journal Article |  |
| 14 | Tropical Forest Tree Positioning Accuracy: A Comparison Of Low Cost Gnss-Enabled Devices | International Journal of Geoinformatics | 16866576 | 12 | 2 | 59-66 | 2016 |  | Scopus | Journal Article |  |
| 15 | Studies on the sea surface current circulation pattern in the South China Sea derived from satellite altimetry | Journal of Sustainability Science and Management | 16866576 | 4 | 2 | 27-35 | 2010 |  | Scopus | Journal Article |  |

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| --- | --- | --- | --- | --- |
| NO. | **TYPE**1. **INDEXED PROCEEDINGS/CONFERENCE**
2. **NON- INDEXED PROCEEDINGS/CONFERENCE**
3. **SEMINARS/WORKSHOPS**
4. **THESIS**
5. **ORIGINAL BOOK**
6. **EDITED BOOK**
7. **BOOK CHAPTHER**
8. **CLASSIFIED/TECHNICAL/**
9. **EXPERT REPORT**
10. **POLICY PAPER**
 | **TITLE** | **YEAR** | **AUTHOR** |
| 1 | a.INDEXED PROCEEDINGS/ CONFERENCE | Seamless transition of altimetric retracked sea levels using neural network technique: case study using simulated data”, IOP Conference Series :Earth and Environmental Science 169(2018) 012097 | 2018 | Idris,N.H., and Masrol,N.S |
| 2 | a.INDEXED PROCEEDINGS/ CONFERENCE | An integrated framework for affordable housing demand projection and site selection”. IOP Conference Series: Earth and Environmental Science, 169(1). | 2018 | Adi Maimun, N. H., Ismail, S., Junainah, M., Razali, M. N., Tarmidi, M. Z., & Idris, N. H. |
| 3 | a.INDEXED PROCEEDINGS/ CONFERENCE | Indigenous Community Tree Inventory: Assessment Of Data Quality, The International Archives Of The Photogrammetry, Remote Sensing And Spatial Information Sciences | 2016 | Idris,N.H., Idris,N.H., Md Din, A.H., and Ishak, M.H.I |
| 4 | a.INDEXED PROCEEDINGS/ CONFERENCE | Validation of sea levels from coastal altimetry waveform retracking expert system: a case study around the Prince William Sound in Alaska, IOP Conf.Series:Journal of Physics 852(2017)012029, IOP Publishing. | 2017 | Idris,N.H., Deng,X., and Idris,N.H |
| 5 | b.NON- INDEXED PROCEEDINGS/ CONFERENCE | Enhancing The Accuracy Of Malaysian House Price Forecasting: A Comparative Analysis On The Forecasting Performance Between Hedonic Pricing Model (Hpm) And Artificial Neural Network Model (Ann), 10th International Real Estate Research Symposium (Irers 2020) | 2020 | Adi Maimun, N.H., Idris, N.H., and Saa’t N.F. |
| 6 | b.NON- INDEXED PROCEEDINGS/ CONFERENCE | Affordable Housing Site Selection Based On Local Demand Projection, 9th Igrsm International Conference And Exhibition On Geospatial & Remote Sensing Igrsm 2018 | 2018 | Adi Maimun, N.H., Idris, N.H |
| 7 | b.NON- INDEXED PROCEEDINGS/ CONFERENCE | The Conceive-Design-Implement-Operate Framework In Geographic Information System Survey Camp, Proceedings Of New Academia Learning Innovation 2018 | 2018 | Idris,N.H., and Idris,N.H., |
| 8 | b.NON- INDEXED PROCEEDINGS/ CONFERENCE | Validation Of Retracked Sea Levels For Saral/Altika Satellite Altimetry Over The Continental Shelf Of The South China Sea, 13th International Umt Annual Symposium Umtas 2016 | 2016 | Idris,N.H., Idris,N.H., Abdullah N.N., and Maharaj,A. |
| 9 | b.NON- INDEXED PROCEEDINGS/ CONFERENCE | Paper Versus Screen: Assessment Of Literacy Among Indigenous People, Asia International Conference | 2016 | Idris,N.H., Idris,N.H., Ishak, M.H.I., and Osman, M.J. |
| 10 | b.NON- INDEXED PROCEEDINGS/ CONFERENCE | Coastal Observation From Satellite Altimetry Ocean Remote Sensing:Issues And Challenge, IEEE Workshop On Geoscience And Remote Sensing | 2015 | Idris, N.H |
| 11 | b.NON- INDEXED PROCEEDINGS/ CONFERENCE | Performance Of Saral/Altika Satellite Altimetry Mission Over The Straits Of Malacca And The South China Sea, IEEE Workshop On Geoscience And Remote Sensing | 2015 | Idris, N.H |
| 12 | b.NON- INDEXED PROCEEDINGS/ CONFERENCE | Along-Track High Resolution Sea Levels From Saral/Altika Satellite Altimetry Data Over The Maritime Continent, IEEE Workshop On Geoscience And Remote Sensing | 2015 | Idris, N.H, Abdullah, N.N. |
| 13 | b.NON- INDEXED PROCEEDINGS/ CONFERENCE | A Comparison Of Saral/Altika Coastal Altimetry And In-Situ Observation Across Australasia And Maritime Continent, Australia Coastal Ocean Modelling And Observations Conference | 2014 | Idris. N.H., and Maharaj, A. |
| 14 | b.NON- INDEXED PROCEEDINGS/ CONFERENCE | Exploring The Potentials Of Indigenous People At Royal Belum Reserve Forest As Geo-Crowdsourcing Sensor: Literacy Skills Assessment | 2014 | Idris, N.H., and Idris, N.H |
| 15 | b.NON- INDEXED PROCEEDINGS/ CONFERENCE | Sea Surface Studies on the Sea Surface Current Circulation Pattern in the South China Sea Derived from Satellite Altimetry, 7th UMT International Symposium on Sustainability Science and Management | 2008 | Idris, N.H., and Mohd Seeni, M.I |
| 16 | d.THESIS | Development of new retracking methods for mapping sea levels over the shelf areas from satellite altimetry data. Ph.D (Civil Engineering), The University of Newcastle, Australia. | 2014 | Idris, N.H |
| 17 | d.THESIS | Modelling of sea surface current and circulation from satellite altimetry and ancillary data”. Master of Science (Remote Sensing), Universiti Teknologi Malaysia. | 2008 | Idris, N.H |
| 18 | d.THESIS | Evaluation of quickbird data for topographic detail mapping”. Bachelor of Science (Remote Sensing), Universiti Teknologi Malaysia. | 2005 | Idris, N.H |
| 19 | f.EDITED BOOK | Advanced Geospatial Technology for Geodesy and Environmental Applications, UTM Press. | 2019 | Zakri, T, and Idris, N.H. |
| 20 | f.EDITED BOOK | Mobile and Web-Based Geographical Information System: Its’ Applications, UTM Press. | 2017 | Idris, N.H. |
| 21 | f.EDITED BOOK | Remote Sensing Technqiues in Earth and Environmental Applications: Malaysia Context, UTM Press. | 2017 | Idris, N.H. and Idris,N.H |
| 22 | g.BOOK CHAPTER | Ocean Wave Energy, pp 63-76 in Geoinformation Technology For Malaysian Seas editted by Nurul Hawani Idris and Abdul Wahid Rasib, UTM Press | 2019 | Idris, N.H. |
| 23 | g.BOOK CHAPTER | Waveform Retracking Methods”, pp 149-161 in Geoinformation Technology For Malaysian Seas editted by Nurul Hawani Idris and Abdul Wahid Rasib, UTM Press | 2019 | Idris, N.H. |
| 24 | g.BOOK CHAPTER | Land Contamination Impact on Sentinel 3A Synthetic Apeture Radar Altimetry Waveffform”, pp 27-40 in Advanced Geospatial Technology for Geodesy and Environmental Applications, editted by Zakri,T., and Idris,N.H, UTM Press | 2019 | Zainal,N., and Idris,N.H. |
| 25 | g.BOOK CHAPTER | Error Analysis of Jason-2 and SARAL/AltiKa Waveform over Marginal Seas”, pp 63-75 in Advanced Geospatial Technology for Geodesy and Environmental Applications, editted by Zakri,T., and Idris,N.H, UTM Press | 2019 | Abdullah,N.N., and Idris,N.H. |
| 26 | g.BOOK CHAPTER | Validation and Quality Assessment of Sea Levels from SARAL/AltiKa Satellite Altimetry over the Marginal Seas at the Southeast Asia”, in Multi-purposeful Application of Geospatial Data, editted by Rustamov,R.B. , Intech Open | 2018 | Abdullah,N.N., and Idris,N.H. |
| 27 | g.BOOK CHAPTER | Monitoring Outdoor Activity for Elderly Patients using Ner-Real Time Fall Detection”, in Mobile and Web-Based Geographical Information System: Its’ Applications, editted by N.H. Idris, UTM Press | 2017 | Chew, P.Y., Idris, N.H., Ishak, M.H.I., and Idris, N.H.  |
| 28 | g.BOOK CHAPTER | Seaweed Studies Using ALOS Satellite Data”, ”, in Remote Sensing Techniques in Earth and Environmental Applications: Malaysia Context, editted by N.H. Idris, UTM Press | 2017 | Idris, N.H, Idris, N.H., and Yahya, N.N. |
| 29 | g.BOOK CHAPTER | Mapping sea levels over the coastal areas from satellite altimetry data”, in Geospatial Techniques for Tropical Resources Mapping, editted by K.D. Kanniah, UTM Press. | 2015 | Idris, N.H., and Deng, X. |

PLENARY/CHAIRPERSON/ORAL POSTER PRESENTER/KEYNOTE ADDRESS / INVITED GUEST SPEAKER

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **NO** | **ROLE** | **TITLE OF PROGRAMME** | **DATE** | **LOCATION** |
| 1 | Plenary Speaker | Coastal Altimetry over the Southeast Asia, during the International Webinar on Remote Sensing and Geospatial Information: Satellite Altimetry for Monitoring our Earth | 14 November 2020 | Mulawarman University Indonesia (Virtual) |
| 2 | Invited Guest Speaker | Workshop Dosen Fakultas Teknik Universitas Muhammadiah Makassar Indonesia: Workshop on Initiating Research Interest Recognising and Research Trend | 2-3 December 2019. | Makassar, Indonesia |
| 3 | Invited Guest Speaker | 2019 China Marine Economy Expo. Presentation title: Advanced Technology of Satellite Coastal Altimetry for Wave Energy Resource Assessment. | 14-17 October 2019 | Shenzen China |
| 4 | Invited Guest Speaker | 3rd International Conference on Marine Science, 4 September 2019,IPB Convention Centre, Bogor Indonesia, Presentation title: Development of Coastal Altimetry Algorithm for Assessing Sea Level Rise in the Southeast Asia. | , 4 September 2019 | Bogor, Indonesia |
| 5 | Invited Guest Speaker | Marine Science Training Course  | 2-3 September 2019 | IPB University, Bogor Indonesia  |
| 6 | Chairperson | 14th Pan Ocean Remote Sensing Conference, Session on Satellite Radar Altimetry: Progress In Observing Open Oceans To Coastal Zone | 4-7 November 2018 | Jeju Island Republic of Korea |

PROFESSIONAL SERVICES

**Consultation and Training**

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| --- | --- | --- | --- | --- | --- |
| **NO** | **ROLE** | **TITLE OF PROGRAMME** | **DATE** | **LOCATION** | **TOTAL INCOME GENERATED (RM)** |
| 1 | Chairman | 15th Pan Ocean Remote Sensing Conference and Tutorial | 1 Jan 2020-31 Dis 2021 | Johor Bahru | RM8573.13 (as per 23.1.2021) |

**Entreprenuership**

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| --- | --- | --- |
| **NO** | **SPIN OFF COMPANY (UTM)**  |  **TOTAL INCOME GENERATED (RM)****(individual equity value based on audited company account in 3 years)** |
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| **NO** | **1.HICOE management/agency****2. Board of Director or****3. Management for Corporattion EntitE** | **Average acquisition in 3 years.** |
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**Community Project**

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| --- | --- | --- | --- | --- |
| **NO** | **ROLE** | **NAME OF PROJECT** | **DATE** |  **TOTAL VALUE OF PROJECT (RM)** |
| 1 | Member | Sub Ktp Rig: Program Pemindahan Teknologi Untuk Menilai Kesan Kebakaran Hutan Rekreasi Kepada Persekitaran | 1 Jan 2020- 30 Jun 2021 | RM2,960 |
| 2 | Member | Sub Ktp Rig: Merealisasikan Gaya Hidup Lestari Melalui Penanaman Pokok Dan Pemantauan Karbon Berterusan Bersama Komuniti | 1 Jan 2020 – 30 Jun 2021 | RM16,398 |
| 3 | Member | Mitigasi Perubahan Iklim Libatsama Komuniti : Sekolah Menengah Pendidikan Khas Vokasional Indahpura, Kulai, Johor | 8 July 2019-31 Dec 2020 | RM300 |
| 4 | Member | Ktp-Nmg 2019: Mapathon - Pengukuhan Bidang Stem Dan Subjek Geografi Menggunakan Konsep Sukarelawan Dalam Penghasilan Peta Digital | 1 Feb-31 July 2019 | RM5000 |
| 5 | Program Chair | Program Transformasi Teknologi Geospatial Merentas Komuniti: MRSM Geoinovasi at MRSM Tun Ghafar Baba, Melaka | 9 Apr 2018 | RM3,911 |
| 6 | Program Chair | Pembangunan Geoinventori dan Laman Sesawang SK Sri Pulai Perdana, Johor | 2017 | RM1,000 |
| 7 | Program Chair | Program Transformasi Teknologi Geospatial Merentas Komuniti: Modul Pemanasan Global, di SK Sri Pulai, Johor | 1 May -31 May 2017 | RM1,000 |
| 8 | Program Chair | Projek Perintis Negeri Johor: Transformasi Teknologi Geospatial Merentas Komuniti | 12 Feb – 11 Oct 2016 | RM3,900 |

**Community and University Services**

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| **NO** | **ROLE** | **TITLE OF PROGRAMME** | **DATE** | **LEVEL** | **LOCATION** |
| 1 | Program Chair | Pembangunan Geoinventori dan Laman Sesawang SK Sri Pulai Perdana, Johor | 2017 | University | SK Sri Pulai Perdana, Johor |
| 2 | Program Advisor | Program Titian Ilmu Anak Teknologi (Tintec): Agronomia’ | 2017 | National | Papar, Sabah |

**Endowment and Wakaf to University**

|  |  |  |
| --- | --- | --- |
| **NO** | **NAME OF ENDOWMENT AND WAKAF** |  **TOTAL CONTRIBUTION (RM)** |
| 1 | Crowdfunding Sumbangan Alumni | RM130 |
| 2 | Dana Baik Pulih Komputer Pelajar UTM (B40) | RM100 |
| 3 | Projek Wakaf Sekolah Agama UTM | RM50 |

**Commercialisation**

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| **NO** | **ROLE** | **NAME OF PRODUCT COMMERCIALISATION** | **DATE** |  **TOTAL INCOME GENERATED (RM)** |
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**Grant based on innovation and University Commercialisation Product**

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| **BIL** | **NAME OF GRANT** | **ROLE** | **CATEGORY OF GRANT(UTM/OTHERS)** | **TYPE OF GRANT** | **AMOUNT (RM)** | **STARTING DATE** | **ENDING DATE** | **VOTE NO** |
| 1 | UTM Prototype Research | Member | UTM | Prototype Research | RM51,500 | 1 Jan 2020 | 30 Jun 2022 | 00L54 |
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**Patent Granted and Filing**

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| --- | --- | --- | --- |
| **NO** | **NAME OF PATENT** |  **STATUS OF PATENT** |  |
|  |  |  |  |
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**Copyright**

|  |  |  |  |
| --- | --- | --- | --- |
| **NO** | **NAME OF COPYRIGHT** |  **STATUS OF COPYRIGHT** |  |
| 1 | Coastal Altimetry Waveform Retracking Expert System | Approved |  |
| 2 | Architecture of Deep Learning Artificial Neural Network for Accurate Satellite Altimetry Sea Levels | Approved |  |
| 3 | Conceive-Design-Implement-Operate framework for Geographic Information System Survey Camp | Approved |  |
| 4 | Tourism zoning suitability level map for Royal Belum State Park | Approved |  |
| 5 | Methodology of neural network for modelling bias/offset on satellite altimetry retracked sea level data | Approved |  |
| 6 | Fall Alert | Approved |  |
| 7 | e-Bantuan Mobile | Approved |  |