

Name

SAHARUDDIN BIN LIN, Lecturer

School of Geomatics Science & Natural Resources
College of Built Environment (CBE)
Universiti Teknologi MARA,
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Areas of Expertise

GIS, Cartography, Spatial Programming, and Visualization

Division of Expertise: SUSTAINABLE ECONOMIC DEVELOPMENT
Category of Expertise: INFORMATION AND COMMUNICATION SERVICES
Group of Expertise: GEOINFORMATION SERVICES
Area of Expertise: GEOINFORMATION SERVICES
Specific Expertise: GEOMATIC MOBILE TECHNOLOGY

Personal Information

Saharuddin Bin Lin
102018
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Academic Qualifications

Master of Science in Geographical Information Science (UiTM), 2016
B. Information Technology (Honours)(OUM), 2007 (1st Class)
Diploma in Science Computer (UiTM), 2002

Professional Members

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Teaching and Learning

1. Degree, Mac 2023, GSS655 (Industrial Training JUPEM), Lecture and Practical
2. Degree, Mac 2023, GSS458 (Basic Engineering Surveying), Practical
3. Degree, Mac 2023, GSS653 (Programming for Surveyors), Lectures and Practical
4. Degree, Mac 2023, GLS680 (Advanced Cartography), Practical
5. Degree, Mac 2023, GSS556 (Innovative Cartography), Practical
6. Degree, Mac 2022, GLS558 (Advanced Engineering Surveying), Practical
7. Degree, Mac 2022, GSS410 (Computer Aided Mapping), Lecture and Practical

Student Supervision

Bachelor Degree

1. Nur Izzati Bt Termizi (2014193545), "UiTM Shah Alam Guide" : Mobile Campus Information System, Sesi 1 2018/2019, Main Supervisor.
2. Nor Hidayah Binti Ahmad Sabri (2015419606), 3D Web Visualization of Earthquakes Data, Sesi 2 2018/2019, Main Supervisor
3. Ikmal Hakim Bin Mohd Isa (2016490424), Effect of Urbanization On Land Surface Temperature Using MODIS Data, Sesi 2 2018/2019, Main Supervisor
4. Ruz Zaini Bin Jenal (2015145999), Surveying Calculator: Mobile App to Facilitate Surveying Works, Sesi 2 2018/2019, Main Supervisor
5. Cherry Clare Jose Jas (2015102693), Crime Reporting Mobile Application, Sesi 2 2018/2019, Main Supervisor
6. Raja Nur Afifah Binti Raja Zainuddin (2016208932), Determination of Forest Declination After Forest Fire Incident at Kuala Langat, Sesi 2 2018/2019, Main Supervisor
7. Rina Fazreena Binti Roslan (2015209568), App for Student Offence Reporting, Sesi 2 2018/2019, Main Supervisor
8. Nurathirah Binti Mohd Amran (2015100265), Malacca Zoo: Mobile Application for Visitors And Tourist, Sesi 2 2018/2019, Main Supervisor
9. Fatin Hamama Binti Mahurin (2015826868), Development of Real-Time Tracking Application For Cash On Delivery Services In E-Commerce, Sesi 2 2018/2019, Main Supervisor
10. Muhammad Harith Bin Shaharudin (2016490676), The Design and Development of Mobile Application for Assisting On E-Hailing Transportation User In Shah Alam, Sesi 2 2018/2019, Main Supervisor
11. Siti Nabilah Binti Mat Nor (2016208916), The Differences Of Algae Blooms Concentration Using Remote Sensing Techniques, Sesi 2 2018/2019, Main Supervisor
12. Sebastian AK Mathew (2015104111), A Study on Sarawak Energy Berhad Transmission Line Route Sustainability and Suitability by Least Cost Path Analysis (LCPA), Sesi 1 2019/2020, Main Supervisor
13. Muhammad Afiq Bin Shaharudin (2017314323), Application of Python for Crime Cases Analysis
14. Nazirul Haziq Bin Bohhari (2016590853), 'Survey Calculator' – Mobile Application to Facilitate Of 'C' And 'M' Correction Calculation, Sesi 2 2019/2020, Main Supervisor
15. Aiman Haziq Bin Mohd Fadzil (2017481194), GIS-Based Application for Tracking and Managing Fire Hydrants In Shah Alam, Sesi 2 2020/2021, Main Supervisor
16. Arisya Azmira Binti Noor Azmi (2018227542), Strata Calculator: Mobile App to Facilitate Share Unit Calculation For Stratified Residence, Sesi 2 2020/2021, Main Supervisor
17. Ahmad Marwan Bin Mohd Nor, (2018262626), Report System for Office Facilities Management UiTM Using ArcGIS, Sesi 2 2020/2021, Main Supervisor

18. Muhammad Zamri Bin Sahibuddin(2017913383), Determination Coastline Changes By Using Geospatial Technology Along The Pantai Kuala Nerus, Sessi 1 2021/2022 Main Supervisor.
19. Muhammad Haziq Bin Halim, (2019527801), Alternative Route for Water Tanker to Supply Water at Water Disruption Area In Ulu Langat Using GIS Network Analysis, Sessi 2 2021/2022 Main Supervisor.
20. Muhammad Nor Idham Bin Abdul Rashid, (2021505361), EDM Calibration Calculator Development Using Android Studio to Facilitate EDM Instrument Calibrate, Sessi 2 2021/2022 Main Supervisor.
21. Muhammad Shahaziq Hakimi Bin Shahlon (2018228316), Comparative Study on Death Cause By Covid19 Between Vaccinated and Non-Vaccinated in Selangor By using GIS, Sesi 2 2021/2022, Main Supervisor.
22. Amirah binti Yusri (2019416018), Cross Platform Application: Flood Reporting using Crowd Sourcing Technology, Sesi 1 2022/2023, Main Supervisor.
23. Muhammad Ahnaf bin Abdullah (2021468554), Relocation of Wild Cattle Sanctuary using Analytical Hierarchy Process (AHP): Case Study, Bandar Botanik, Klang, Sesi 1 2022/2023, Main Supervisor.
24. Muhammad Danial Imran bin Mohd. Noor Azhar(2021459846), Development of A Web Mapping System of The Sultan Perak's Royal Family Tombs Along Sungai Perak River Basin by Using ArcGIS and ARCGIS Online Software Application, Sesi 1 2022/2023, Main Supervisor.
25. Nur Aqilah binti Zuhilmi (2021497836), Analysis of Emergency Responses Effectiveness in Ampang Jaya by using GIS, Sesi 1 2022/2023, Main Supervisor.
26. Nur Syakira Afiffa binti Zainal (2021460016), The Cartographic Visualization for Mapping Safe Lane for Pedestrians in Seksyen 7, Shah Alam, Sesi 1 2022/2023, Main Supervisor.
27. Siti Aisyah Adila binti Mohamad (2020859718), Accessibility Index of Public Salim Transportation (Bus Institutions) for NonResident of UiTM Shah Alam, Sesi 1 2022/2023, Main Supervisor.
28. Wan Ahmad Muzzammil bin Wan Hazman (2021861662), Determination of Potential Position of Rapid Bus Station in Kuala Terengganu using ARCGIS, Sesi 1 2022/2023, Main Supervisor

Publications

1. Noraain Mohamed Saraf, Juazer Rizal Abdul Hamid, Maisarah Abdul Halim, Abdul Rauf Abdul Rasam, Saharuddin Lin (2018) Accuracy Assessment of 3-Dimensional LiDAR Building Extraction, IEEE 14th International Colloquium On Signal Processing & Its Applications (CSPA), IEEE Conferences.
2. Saharuddin Lin, Muhammad Zamri Sahibuddin (2022), Determination Coastline Changes By Using Geospatial Technology Along The Pantai Kuala Nerus, IOP Conf. Series: Earth and Environmental Science.

Research Grants and Contracts

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Consultation & Expertise

1. UiTM Consultancy Unit (RMI), Tenaga Nasional Berhad (TNB), Kerja-kerja Konsultansi Urusan Pentadbiran Tanah Untuk TNB, Professional Services, 2020 - 2021, Member.

Innovation, Commercialization & Entrepreneurial

1. MOOC of Drone for Mapping, National E-Content Development Competition, University Level, 2018, Participant, Member, Gold Award
2. MOOC of Introduction to Cadastral System, University Level, 2021, Silver Award
3. Application of Python for Crime Cases Analysis, 6th BEURC 2021, University of Malaya, Silver Award
4. Strata Calculator: Mobile Application to Facilitate Share Unit Calculation for Stratified Residence, 10th NGGSIC 2022, Gold Award.

Services & Administration

1. Staff Resident (Non Resident, UiTM), 2012 – 2015, (Chief Staff Resident NR)
2. Staff Resident (Non Resident, UiTM), 2017 -2020
3. Staff Resident (Non Resident, UiTM), 2021 – 2022, (Chief Staff Resident NR)
4. Staff Resident (Non Resident, UiTM), 2013 -2024
5. Resource Person (01/01/2020 – 31/12/2024), Centre of Studies, Computer Aided Mapping (GSS410).
6. Resource Person (01/01/2020 – 31/12/2024), Centre of Studies, Programming for Surveyors (GSS653).
7. Resource Person (01/01/2020 – 31/12/2024), Centre of Studies, Industrial Training JUPEM(GLS655).
8. Resource Person (01/01/2022 – 31/12/2025), Centre of Studies (AP123), Geospatial Programming (GST253)

Work and Collaboration Experience

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Awards & Recognitions

1. ECONDEV 2018 (National E-Content Development Competition ,2018, Universiti Teknologi MARA, Drone for Mapping, National, 2018, Gold Award.
2. ECONDEV 2021 (National E-Content Development Competition ,2021, Universiti Teknologi MARA, Introduction to Cadastral System, National, 2018, Bronze Award.
3. National Geomatics/Geoinformatics Student Innovation Competition, System Innovation/Gadget: Strata Calculator: Mobile Application To Facilitate Share Unit Calculation for Stratified Residence, GOLD, National Level, 2022
4. National Geomatics/Geoinformatics Student Innovation Competition, Creative Map: , GOLD, National Level, 2022
5. MAKEF 2021 (Majlis Anugerah Kecemerlangan Fakulti 2021) , Kakitangan Paling Aktif Aktiviti Sosial dan Kemasyarakatan, 2020
6. MAKEF 2022 (Majlis Anugerah Kecemerlangan Fakulti 2021), Kakitangan Paling Aktif Aktiviti Sosial dan Kemasyarakatan, 2021
7. NGGSIC2022, Gold Award

Contribution to Society

1. Persatuan Penduduk Pusat Komersil Seksyen 7, Chairman, Community level, 2009-2024.
2. Badan Pengurusan Bersama “PK.Sek.7 Committee”, Chairman, Community level, 2020-2022.
3. Kesatuan Kakitangan Akademik UiTM (MITASA), Deputy Chairman, University level, 2020-2023.
4. Surau As Siddiq, Pusat Komersil Seksyen 7, Secretary, Community level, 2019 - 2023

Other Activities

1. Sukarelawan Mengedar Makanan kepada Pelajar NR UiTM semasa Perintah Kawalan Pergerakan (PKP), Volunteer, University level, 2020, 3 months, Distribute food to 4000 non-resident students during MCO Mac – Jun 2020.
2. Program Bubur Lambuk Dan Iftar Komuniti bersama Pelajar NR, Program Advisor, University level, 2020, Distribute food (Bubur lambuk) to 1000 non-resident students
3. Ketuk Ketuk Ramadhan Non-Residen, Program Advisor, University level, 2020, Distribute food for sahur during Ramadhan for non-resident students.
4. Majlis Iftar Perdana NR Bersama Naib Cancellor di Masjid Seksyen 7, Program Advisor, University level, 2020, Breaking Fast Ceremony attended by VC and Senior Management of the University with non-resident student and asnaf
5. Bengkel Bajet MBSA 2020 Bersama Komuniti Shah Alam, Participants, 2019, Community level, MBSA's annual budget planning.
6. Program Perjumpaan Team OSCAR Ibu Pejabat Polis (IPD) Shah Alam bersama Komuniti Setempat, Chairman of Resident Association, 2019, Community level, representing Resident Association.
7. Program Walkabout, Selangor Bebas Asap Rokok (SELBAR) bersama YB Dr Siti Mariah binti Mahmud, Chairman of Resident Association, 2019, Community level, Visit the restaurant around Commercial Centre Section 7 with YB Dr Siti Mariah (Exco) and Selangor Health Director
8. Program Kayuhan Keselamatan Kejiranan oleh Persatuan Penduduk Pusat Komersil Sek. 7, Chairman, 2019, Community level, Accompanied by Police Chief Section 6, Traffic police Section 9, MBSA, students and surrounding communities
9. Program ‘Our Gems’ di Sekolah Kebangsaan Kuala Muda, Penaga, Pulau Pinang, Program Advisor, 2019, Community level, Accompanied by Kuala Muda Regional Education Officer & AADK Kuala Muda (Anti-drug awareness campaign among School Children)
10. Program Non Resident Walkabout Community Policing, , Program Advisor, 2020, University level, attended by VC, Deputy Chief of Selangor Police (ACP Ar-Junaidi) and TNCHEP.
11. Spring Cleaning dan Advokasi Denggi Non Resident, Program Advisor, 2018, University level, attended by 200 non-resident students and surrounding communities.
12. Majlis Bebas Denggi Pusat Kesihatan UiTM, Staff Resident, 2020, Attended by TNCHEP, Health Director of UiTM

13. Advokasi Denggi 3.0, Program Advisor, 2019, University level, attended by VC, Petaling District Health Office, Squad SEDA (Search and Destroy Aedes) MBSA and 400 non-resident students and surrounding communities.