PROF. MADYA DR. MARINAH BINTI MUHAMMAD (00145A)
PENSYARAH UNIVERSITI (TETAP)
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A. PERSONAL DETAILS

UMK JOIN DATE	16-Dec-2007
DATE OF APPOINTMENT FOR CURRENT POSITION	16-Dec-2007
DATE OF CONFIRMATION FOR CURRENT POSITION	17-Nov-2009
EDUCATION(S)	• **(2018) UNIVERSITY OF SOUTHAMPTON** IJAZAH DOKTOR FALSAFAH MATHEMATIC • **(2003) Universiti Putra Malaysia** IJAZAH SARJANA Sains Statistik Gunaan • **(1999) Universiti Putra Malaysia** IJAZAH SARJANA MUDA Sains Statistik • **(1993) Sek. Men. Kebangsaan Kamil** SPM
GROUP OF EXPERTISE	
AWARD(S)	• Award Name: **Anugerah Perkhidmatan Cemerlang (APC) Tahun 2021 (2022)** Awarded by: Universiti Malaysia Kelantan • Award Name: **Anugerah Jasa Universiti Tahun 2017 (2018)** Awarded by: Universiti Malaysia Kelantan • Award Name: **Anugerah Buku Negara - Kategori Pengajian Tinggi (Buku Matematik Terbaik) (2018)** Awarded by: Yayasan Pembangunan Buku Negara • Award Name: **Anugerah Perkhidmatan Cemerlang 2013 (2014)** Awarded by: Universiti Malaysia Kelantan • Award Name: **Anugerah Gemilang UMK (AGU) Tahun 2010 (Perundingan) (2011)** Awarded by: Universiti Malaysia Kelantan • Award Name: **Anugerah Perkhidmatan Cemerlang 2009 (2010)** Awarded by: Universiti Malaysia Kelantan
WORKING EXPERIENCE(S)	• Pensyarah | IKIP College (Kuantan, Pahang) 21-Jun-1999 - 19-Dec-2007 • Pensyarah DS45 | Universiti Malaysia kelantan 16-Dec-2007 - 30-Nov-2011
PROFESSIONAL MEMBERSHIP(S)	

B. TEACHING-LEARNING ACTIVITIES

	• BFT1023 - BIODIVERSITY • BFT1053 - CALCULUS • BFT1063 - ALGEBRA • BFT1083 - BASIC MATHEMATICS • BFT2074 - BIOMETRY AND EXPERIMENTAL DESIGN • EFT1053 - CALCULUS

COURSES TAUGHT	• EFT1063 - ALGEBRA • EFT1083 - BASICS MATHEMATHIC • EFT2074 - BIOMETRY AND EXPERIMENTAL DESIGN • EFT2143 - RESEARCH METHODOLOGY AND SCIENTIFIC WRITING • EGT3163 - RESEARCH PROJECT I • EGT4158 - INDUSTRIAL TRAINING • EGT4173 - RESEARCH PROJECT II • FFT2073 - BASIC STATISTICS • MFT00104 - MATHEMATICS I • MFT00504 - MATHEMATICS II • MFT01204 - BASIC MATHEMATICS • MFT01304 - ADVANCED MATHEMATICS • MPT00203 - MATHEMATICS

C. RESEARCH AND DEVELOPMENT

JOURNAL(S)	1. Afandi N.A.S., Amal Najihah Muhamad Nor, Irene Christianus, Kamarul Ariffin Hambali, Marinah Muhammad, Aainaa Syazwa Hamzah. (2026-02). Bird-window Collisions at UMK Jeli Campus and the Impact of Building Design and Environmental Conte Science and Technology , Vol. 34(1) , pp. 387-399. https://doi.org/10.47836/pjst.34.1.17 2. Marinah Muhammad, Che Nursyahira Che Man, Muhammad Akmal Mohd Zawawi. (2025-12). Spatiotemporal analysis of rain Kuala Krai, Kelantan, from 2009 to 2020: interpolation, trend assessment and flood risk mapping. Journal of Tropical Resourc Science , Vol. 13(2) , pp. 261-270. https://doi.org/10.47253/jtrss.v13i2.1964 3. Rahman T.M.A., Karim, M.F.A., Husain H., Muhammad M., Hambali, K.A.. (2023). Physicochemical Properties of a Salt Lick a Reserve, Kelantan, Malaysia. Journal of Sustainability Science and Management , Vol. 18(8) , pp. 74 - 87. https://doi.org/10.4 2023.08.005 4. Zawawi M.A.M., Muhammad M., Latif N.S.A., Naher, L., Jusoh M.F.. (2023). Statistical Analysis between Soil Properties and F in Banana. Universal Journal of Agricultural Research , Vol. 11(1) , pp. 166 - 173. https://doi.org/10.13189/ujar.2023.110116 5. Zawawi, MAM, Jusoh M.F., Muhammad M., Naher, L., Latif, NSA, Muttalib, MFA, Radzuan, MN, Nugroho, AP. (2023). Knowle of Internet of Things (IoT) in Plant Disease and Insect Pest Study: A Visual Analysis. Pertanika Journal of Science and Techn 1621-1643. https://doi.org/10.47836/pjst.31.4.02 6. Muhammad M., Zawawi M.A.M., Jemali N.. (2023). Incorporating the Plant Disease Triangle Framework for Analyzing the Effe on Soil Attributes. Israa University Journal of Applied Science , Vol. 6(2) , pp. 85-96. https://doi.org/10.52865/vwbd9414 7. Lee Shi Qing, Ghazi, R.M, Muhammad M.. (2021-12). POTENTIAL OF Epipremnum aureum IN REDUCTION OF CHEMICAL IN WASTEWATER. Malaysian Journal of Analytical Sciences , Vol. 25 (6) , pp. 977-986. 8. Muhammad M., Lu, Z.. (2020). Estimating the UK Index Flood: an Improved Spatial Flooding Analysis. Environmental Modelin Vol. 25(5) , pp. 731-748. https://doi.org/10.1007/s10666-020-09713-x 9. Aainaa Syazwani Mohammad Amir Hamzah, Muhammad Firdaus Abdul Karim, Kamarul Ariffin Bin Kambali @ Hambali, Amal Nor, Marinah Muhammad. (2024-10-28). Species diversity and distribution patterns of Hornbills (Bucerotiformes: Bucerotidae) Perak, Malaysia. Sustainability and Biodiversity Conservation , pp. 29-48. https://doi.org/https://www.researchgate.net/deref/ht org%2F10.5281%2Fzenodo.11527436? _tp=eyJjb250ZXh0Ijp7ImZpcnN0UGFnZSI6InB1YmxpY2F0aW9uIiwicGFnZSI6InB1YmxpY2F0aW9uIiwicG9zaXRpb24iOiJwY 10. Bahar A. M. A., Muhammad M., Ali Khan, M.M., M. T. Anees. (2022). Development of Flood Vulnerability and Risk Indices for Peninsular Malaysia. Nature Environment and Pollution Technology , Vol. 21(4) , pp. 2005-2014. https://doi.org/10.46488/NEP 11. Noor Janatun Naim Jemali, Syafiq Sulaiman, Nur Khyairatul Syafinie, Marinah Muhammad. (2021-06). A preliminary study on incidents in Jeli, Kelantan. Journal of Tropical Resources and Sustainable Science , Vol. 9 , pp. 67-69. 12. Muhammad Firdaus Abdul Karim, Marinah Muhammad, Noor Janatun Naim Jemali, Arham Muchtar Achmad Bahar. (2020). A Dynamics of Urban Growth and Land Use Changes in Jeli Using Geospatial Technique. Journal of Tropical Resources and Su Vol. 8 , pp. 28-35.
PROCEEDING	1. Marinah Muhammad, Azmi, Mohammad Alif Firdaus, Mohd Zawawi, Muhammad Akmal. (2024). Rainfall trend analysis using t with pyMannKendall: a case study of Jeli, Kelantan. In 6th INTERNATIONAL CONFERENCE ON TROPICAL RESOURCES A SCIENCE (CTReSS 6.0) . EDP Sciences. https://doi.org/10.1051/bioconf/202413105018 2. Leong, M. C., James, P. T., Muhammad M.. (2023). Preliminary assessment on climatological conditions in Royal Belum-Tem Complex, Malaysia using MERRA-2 reanalysis datasets. In BIO Web of Conferences , pp. 05026. BIO Web of Conferences. h /bioconf/20237305026 3. Leong M.C., Muhammad, M., Jamil R.M.. (2022-06). Analysing MODIS hydroclimate data with NASA's AppEEARS tool for pre International Conference on Bioengineering and Technology, IConBET2021 . American Institute of Physics Inc.. https://doi.org 4. Ghazali, SNFM, Awang, N.R., Karim, M.F.A., Muhammad M.. (2022). Fluctuational Analysis of Nighttime Ground-Level Ozone to Variations in Hourly Relative Humidity. In SMART ENVIRONMENTAL SCIENCE, TECHNOLOGY AND MANAGEMENT , pp TECHNOARETE PUBL. https://doi.org/10.36647/978-93-92106-02-6 5. JemaliI N.J.N, Aqilah Abdul Rahim, Syafinie, A.M, Muhammad M., Susanti, S., Abong, N. N. D., Nordin, S. M., Yusof, M.. (202 conservation efforts of mangrove forest in Delta Tumpat Kelantan. In IOP Conference Series: Earth and Environmental Scienc Physics. https://doi.org/10.1088/1755-1315/1102/1/012070 6. Rahim, Aqilah Abdul, Noor J.N.J, Che Aziz R., Majid S., Muhammad M., Razafbinrabe, B., Abong, N. N. D., Nordin, S. M., Yus Evaluation of knowledge and perception of locals toward the conservation effort in mangrove forest at Delta Tumpat, Kelantan Conference Series: Earth and Environmental Science , pp. 1-5. Institute of Physics. https://doi.org/10.1088/1755-1315/1102/1/ 7. Noor J.N.J, Aqilah abdul rahim, Mohamad Radi Mohamad Rosly, Siti susanti, Daliman, Shaparas, Marinah M., Abdul Karim, M drone technology in STEM education for rural communities. In IOP Conference Series: Earth and Environmental Science , pp. Physics. https://doi.org/10.1088/1755-1315/1064/1/012017 8. Muhammad M., Zawawi, M. A. M., Jusoh, M. F., Naher, L., Latif, N. S. A., Hasli, M. A.. (2022). A Decade of Literature on Clima Phytopathological Research: Visualising and Bibliometrics Analysis. In IOP Conf. Series: Earth and Environmental Science , p Physics. https://doi.org/10.1088/1755-1315/1102/1/012006 9. Arham Muchtar, A.B., Marinah M., Ali Khan, M.M., Noor J.N.J. (2022). Spatio-temporal analysis in determination of flood exter intensity and water level data in Kuala Krai, Kelantan. In IOP Conference Series: Earth and Environmental Science , pp. 1-7. I https://doi.org/10.1088/1755-1315/1102/1/012058

(S)	10. Radin Nizar, F. S., Mohd Ghazi, R., Awang, N.R., Muhammad M.. (2021-09). Assessment of Kelantan River water quality usin (WQI). In IOP Conference Series: Earth and Environmental Science , pp. 1-8. IOP Publishing Ltd. https://doi.org/doi:10.1088/1 /012005 11. Muhammad M., Ibrahim Q.A.Q., Ghani M.S.M., Jemali N., Awang, N.R.. (2021-09). Spatio-temporal analysis of rainfall data in In IOP Conference Series: Earth and Environmental Science . IOP Publishing Ltd. https://doi.org/10.1088/1755-1315/842/1/01 12. Nik Yusof, N.R., Lim P W, Azmi N A B, Yusoff, M., Muhammad, M.. (2021-09). Effect of photocatalyst dosage and air loading i degradation of metamifop. In IOP Conference Series: Earth and Environmental Science . IOP Publishing. https://doi.org/10.10 /012061 13. Zakaria, Wan Ain Nabilah, Mohd Ghazi, R, Muhammad, M., Jani, Musfiroh. (2021-09). Optimization of Malachite green remova carbon derived from coconut shell. In IOP Conference Series: Earth and Environmental Science , pp. 1-8. IOP Publishing Ltd. /1755-1315/842/1/012033 14. Anis-Athirah B.N., Mohd-Fariz A.R., Bam H.N.R., Majid S., Muhammad, M., JemaliI N.J.N. (2021-09). Delineation of flood-pron Elevation Model (DEM) in Kuala Krai, Kelantan. In IOP Conference Series: Earth and Environmental Science , pp. 1 - 6. IOP P https://doi.org/10.1088/1755-1315/842/1/012045 15. JemaliI N.J.N, Yahya J., Bam H.N.R., Majid S., Muhammad, M.. (2021-09). High-quality timber species production under multi management approach in Malaysia. In IOP Conference Series: Earth and Environmental Science . IOP Publishing Ltd. https:// 1315/842/1/012002 16. Jemali N., Muhammad M., Yahya J.. (2020-12-28). Wood-based industry in Kelantan. In International Conference on Science ICoST 2020 . IOP Publishing Ltd. https://doi.org/10.1088/1755-1315/596/1/012068 17. Muhammad M., Achmad Bahar A.M., Ali Khan, M.M., Naim Jemali N.J. (2020-12-28). Kelantan Big Yellow Flood 2014: Statisti Relationship between Rainfall Intensity and Water Level. In International Conference on Science and Technology 2020, ICoST Publishing Ltd. https://doi.org/10.1088/1755-1315/596/1/012062 18. Arham Muchtar, A.B., Muhammad M., Ali Khan, M.M., Naim Jemali N.J. (2020-09). Statistical and Spatial Analyses of the Kela 2014. In 2nd International Conference on Tropical Resources and Sustainable Sciences, CTReSS 2020 . IOP Publishing Ltd. /1755-1315/549/1/012014 19. Naim Jemali N.J, Abd Rhani, M.F., Muhammad M., Abdul Majid, N.K.S.. (2020-09). Forest Growth Analysis of Ulu Sat Forest I International Conference on Tropical Resources and Sustainable Sciences, CTReSS 2020 . IOP Publishing Ltd. https://doi.org /549/1/012039
BOOK(S)	1. Marinah Muhammad, Aainaa Syazwani Mohammad Amir Hamzah, Wong, Hie Ling, Muhammad Firdaus Abdul Karim, Nurul S Nasir. (2025-06). Peraturan Akademik Program Pengajian Persediaan UMK Edisi Kedua. Penerbitan Korporat UMK. 2. Marinah Muhammad, Muhammad Akmal Mohd Zawawi. (2025). Science Foundation Basic Mathematics. UMK Press. 3. Marinah Muhammad. (2025). Science Foundation Advanced Mathematics. UMK Press. 4. Mohd Firdaus Che Yaacob, Tuan Siti Nurul Shuhada Tuan Adnan, Marinah Muhammad, Tuan Rusmawati Raja Hassan. (202 Rangkuman 64 Syair Melalui Koleksi Cerita Rakyat di Lembangan Sungai Pengkalan Datu, Kelantan. UMK Press. 5. Marinah Muhammad, Muhammad Akmal Mohd Zawawi, Siti Aisyah Nawawi. (2023). Science Foundation Mathematics 2. Pen 6. Marinah Muhammad. (2022-08). Science Foundation Mathematics I. Penerbit UMK. 7. Marinah Muhammad. (2022). Science Foundation Mathemathics 1. UMK Press. 8. Marinah Muhammad. (2022). Science Pre-Degree Mathematics. UMK Press. 9. Marinah Muhammad, Noor Janatun Naim Jemali, Nurul Syazana Abdul Halim, Syafinie Majid. (2021). Pelan Strategik Fakulti S 2026).. 10. Elvaene James, Hafzan Eva Mansor, Marieanne Christie Leong, Muhammad Firdaus Abdul Karim, Noorzamzarina Sulaiman, Siti aisyah Nawawi, Siti Hajar Ya'acob, Noor Syuhadah Subki, Amal Najihah Muhamad Nor, Marinah Muhammad, Muhamad A Norashikin Fauzi, Nor Shahirul Umirah Idris, Noordiana Mohamad Nasir, Sharifah Aisyah Syed Omar, Mohamad Fikri Samsud Abdul Rahman, Hafidah Kamsani, Nur Hidayah Hasan, Nurul Izzati Mohamad, Nazahatul Anis Amaludin, Faathrio Hudaya Zul Ghazi, Noor Janatun Naim Jemali, Mohamad Faiz Mohd Amin, Wong Hie Ling. (2020). Laporan Tahunan FSB 2020. Fakulti S Malaysia Kelantan.
CHAPTER(S)	1. Noor Janatun Naim Jemali, Marinah Muhammad, Nur Kyariatul Syafinie Abdul Majid, Nik Raihan Nik Yusoff, Nadya Ahmad Ka Ahmad Mustafa Khalili, Faiz Aiman Ashaari. (2023). Module 4: Forest and water (Part 2: Water watch programme for young le Water Watch Programme for Young Leaders (WWP4YL) modules series II UNESCO-IHP Malaysia (pp. 47-60). UMK Press. 2. Mohd Sofiyan Sulaiman, Wan Rafizah Wan Abdullah @ Wan Abd. Rahman, Nazaitulshila Rasit, Sofiah Hamzah, Sunny Goh I Hakim Che Harun, Rohani Mustapha, Noor Janatun Naim Jemali, Mohamad Faiz Mohd Amin, Marinah Muhammad, Mohamad Asmadi Ali @ Mahmud. (2023). Module 6: Bank erosion hazard index (Part 2: Water watch programme for young leaders mod Programme for Young Leaders (WWP4YL) modules series II UNESCO-IHP Malaysia (pp. 71-84). UMK Press. 3. Noor Janatun Naim Jemali, Marinah Muhammad, Rozidaini Mohd Ghazi, Nik Raihan Nik Yusoff. (2021). Chapter 9: E-portfolio platform for student's life-long learning. In Nurturing New Norms In E-Assessment (pp. 67-72). UMK Press. 4. Marinah Muhammad, Syafinie Majid. (2021). Pengenalan. In Pelan Strategik FSB (2021-2026) (pp. 1). Penerbit UMK.
	1. Marinah Muhammad, Aainaa Syazwani Mohamad Amir Hamzah, Wong, Hie Ling, Muhammad Firdaus Abdul Karim, Irene Chi Jani, Muhammad Faris Danial Abdul Hakim, Nurul Syahida Mohd Nasir. (2026). Academic Regulations for the UMK Preparato UMK Corporate Publishing. 2. Marinah Muhammad, Aainaa Syazwani Mohammad Amir Hamzah, Musfiroh Jani. (2025-01-15). AsCent2024. Penerbitan Korp 3. Marinah Muhammad, Wong, Hie Ling, Aainaa Syazwani Mohammad Amir Hamzah, Irene Christianus, Siti Aisyah Nawawi, Nu Nasir. (2024-05-09). Buletin Asasi Universiti Awam Edisi Januari - Jun 2023 BiL. 5 Tahun 2023. Penerbitan Korporat UMK. 4. Marinah Muhammad, Wong Hie Ling, Nurul Syahida binti Mohd Nasir. (2024-02). AsCent 2023. Penerbit Korporat UMK. 5. Marinah Muhammad, Wong Hie Ling. (2022-12). Pembangunan Video Jabatan Persediaan Sains UMK - Bahagian 2. Fakulti S 6. Wong Hie Ling, Marinah Muhammad, Aainaa Syazwani Mohammad Amir Hamzah. (2022-12). Program Asasi@Vet UMK. Fak 7. Marinah Muhammad. (2022-09-01). Menjejak Jam Antik dalam Kembara PhD. Dewan Bahasa dan Pustaka. 8. Nor Diyana Mustapa, Razli Che Razak, Nik Maheran Nik Muhammad, Hasnita Che Harun, Noorul Azwin Md Nasir, Nik Nur Az Rosazura Safian, Nur Hafiza Tengku Mohd Zahid, Tuan Norhaslan Tuan Seman, Suria Baba, Anuar Mohd Yusof, Zuraimi Abd Guan, Norrimi Rosaida Awang, Ahmad Azaini Abdul Manaf, Nik Yusri Musa, Roslizawati Che Aziz, Marwan Ismail, Choong Si Kosnin, Ainihayati Abdul Rahim, Wan Ab Aziz Wan Daud, Ahmad Fahme Mohd Ali, Ruhil Hayati Hamdan, Sarizam Mamat, No Jemali, Suhaila Abdul Kadir, Marinah Muhammad, Norhafizah Md. Zain, Nor Dalila Marican, Hadhrami Ab Ghani, Mohd Azri M Hafezah Hussein, Norsalihah Ahmad Raston, Nur Marina Mustafa. (2022). Garis Panduan Pembangunan Program Akademik Pengurusan Kualiti Universiti (PPQ), UMK.

OTHER(S)	9. Muhammad Akmal Mohd Zawawi, Marinah Muhammad, Laila Naher, Nurul Syaza Abdul Latif, Mohd Fauzie Jusoh. (2021-12). (IoT) Approach to Detect and Modelling Fusarium Wilt Disease on Banana. UMK. 10. Wong Hie Ling, Muhammad Firdaus Abdul Karim, Muhammad M.. (2021-08). Bengkel Manual Makmal Asasi Sains I Jabatan UMK. 11. Noor Janatun Naim Jemali, Syafinie Majid, Marinah Muhammad, Najidah Mustafa, Juliana Yahya, Nasrul Akmal Amaludin. (20 Accidents in Forestry and Agricultural Sectors in Malaysia. UCTS Publisher. https://doi.org/10.3570/bjost.2021.3.2-03 12. Abdul Karim, M.F., Wong Hie Ling, Marinah M., Marinah M.. (2021). Bengkel Penyelarasan dan Penelitian Silibus Serta Pemb Pengajaran dan Panduan Makmal Program Akademik di Jabatan Persediaan Sains UMK. Fakulti Sains Bumi,Universiti Malay 13. Nik Raihan Nik Yusoff, Nisrina Nadia, Noor Syuhadah Subki, Rozidaini Mohd Ghazi, Radhi, A, Nik Nurul Anis Nik Yusoff, Mus Janatun Naim Jemali, Marinah Muhammad. (2021). Activated Carbon From Foxtail Palm Fruit For Removal Of Methylene Blue Metamifop. 14. Marinah Muhammad, Muhammad Firdaus Abdul Karim, Wong Hie Ling. (2021). Program Kembara Saintifik Secara Virtual Pel Asasi Sains 2021/2022. Fakulti Sains Bumi, UMK. 15. Wong Hie Ling, Muhammad Firdaus Abdul Karim, Aainaa Syazwani Mohammad Amir Hamzah, Marinah Muhammad. (2021). Pelajar Baharu Jabatan Persediaan Sains Universiti Malaysia Kelantan (JPSU) 2021. Fakulti Sains Bumi, UMK. 16. Muhammad Firdaus Abdul Karim, Wong Hie Ling, Marinah Muhammad. (2021). Program Jiwa Merdeka - Program Asasi Sains Bumi, UMK. 17. Noor Jemali, Raudatul Raihana Ahmad, Marinah Muhammad, Nur Kyariatul Syafinie Abdul Majid. (2020-12-28). Mollusca dive ecosystem of Delta Tumpat Kelantan. UMK Publisher. 18. Muhammad Firdaus Abdul Karim, Marinah Muhammad, Aainaa Syazwani Mohammad Amir Hamzah. (2020-07). Program Mo Tidak Pandai Atau Hanya Bernasib Baik?. 19. Marinah Muhammad. (2020). Taklimat Pelajar Baharu Pra Ijazah Sains UMK Sempena Minggu Induksi.
RESEARCH (S)	1. COMMUNITY EMPOWERMENT IN TREE FELLING AND CHAINSAW OPERATION SAFETY TECHNIQUES FOR A HAZAR ENVIRONMENT | MEMBER | UMK | 2021 2. DRONE@SCHOOL: BRIDGING DIGITAL DIVIDES IN ENHANCING STEM EDUCATION FOR RURAL COMMUNITY | MEME 3. INFLUENCE OF FOREST COVER CHANGE ON MOISTURE RECYCLING IN KELANTAN | MEMBER | UMK-FUND | 2020 4. IOT APPROACH TO DETECT AND MODELLING FUSARIUM WILT DISEASE ON BANANA FOR EARLY CROP PROTECTI 2020 5. PEMBANGUNAN DAN KEBERKESANAN LABORATORY MANAGEMENT SYSTEM FASA 1 | MEMBER | UMK-NICE | 2021 6. PROBABILISTIC DISTRIBUTION AND MULTIDIMENSIONAL ANALYSIS OF GROUND LEVEL OZONE IN URBAN AREAS. 2020 7. SMART INTERNET OF THINGS (IOT) FOR DISEASE FORECASTING AND DETECTING OF FUSARIUM WILT BANANA | H 8. TREND ANALYSIS OF FLOOD EVENTS AND THEIR RELATIONSHIP TO EXTREME RAINFALL FOR FLOOD MITIGATION HEAD | UMK-FUND | 2020
SUPERVISION	• **CALIBRATION MECHANISMS FOR INTERNET OF THINGS SYSTEM IN FORECASTING AND DETECTING FUSARIUM IN** SUPERVISOR FOR A MASTER'S STUDENT • **Enhancing Prediction Of Flood Inundation In Kelantan Through Geostatistical Models** | MAIN SUPERVISOR FOR A MA
	• Product Name: BIOCIDE FOR SICK BUILDING SYNDROME FUNGUS (BIOC-F) Award: GOLD Role: Member Exhibition Name: CRI2022 • Product Name: FERTILIZOHN SPRAY Award: GOLD Role: Head Exhibition Name: Youth-ICON2023 • Product Name: DRONE@SCHOOL: NARROWING DIGITAL DIVIDE, INCREASING S.T.E.M CURIOSITY Award: GOLD Role: Member Exhibition Name: CRI2021 • Product Name: MAKE UP BIO-CON Award: GOLD Role: Head Exhibition Name: Youth-ICON2023 • Product Name: FLOWBOXSYS LOW-COST FLOOD WARNING BOX SYSTEM Award: GOLD Role: Head Exhibition Name: CRI2023 • Product Name: FLOFEWS: SMART FLOOD FORECASTING AND EARLY WARNING SYSTEM Award: GOLD Role: Member Exhibition Name: PIITRAM2023 • Product Name: E-portfolio: An engagement for students' long life learning Award: GOLD Role: Member Exhibition Name: Teaching enhancement & Learning Innovation Carnival 2020 • Product Name: AQUAPONIC MONITORING WITH IOT BASES SYSTEM Award: GOLD Role: Head Exhibition Name: Youth-ICON2023 • Product Name: SMART VASE Award: GOLD Role: Head Exhibition Name: Youth-ICON2023

RESEARCH AWARD(S)	• Product Name: SAGA-GIS: AN ALTERNATIVE METHOD FOR LANDSLIDE MONITORING Award: SPECIAL Role: Member Exhibition Name: CRI2022 • Product Name: SMART IOT-FWB DISEASE FORECASTING AND MODELLING Award: SPECIAL Role: Member Exhibition Name: JOMLAUNCH YOUTH 2022 • Product Name: Empowering STEM Curricular Via Drones Application Award: SILVER Role: Member Exhibition Name: iCompEx2022 • Product Name: DRONE@SCHOOL:BRIDGING S.T.E.M EDUCATION OF PRIMARY SCHOOL CHILDREN Award: SILVER Role: Member Exhibition Name: Virtual Melaka International Intellectual Exposition 2021 • Product Name: Agricultural Career Training Program for Drop Out Students through Work Based Learning Award: SILVER Role: Head Exhibition Name: I-SPIKE2021 • Product Name: ACTIVATED CARBON FROM FOXTAIL PALM FRUIT FOR REMOVAL OF METHYLENE BLUE, CR(IV) AND Award: SILVER Role: Member Exhibition Name: CRI2021 • Product Name: Modis GPP for Prompt Carbon Estimator Award: SILVER Role: Member Exhibition Name: National Invention & Innovation Competition Exhibition and Robot-SUMO 2020 • Product Name: Agricultural Career Training Program for Drop Out Students through Work Based Learning Award: SILVER Role: Head Exhibition Name: e-Carnival Research & Innovation 2020 • Product Name: E Assessment: The Reliability of Students Performance in Mathematics Award: SILVER Role: Head Exhibition Name: Teaching enhancement & Learning Innovation Carnival 2020 • Product Name: FloFEWS: SMART FLOOD FORECASTING AND EARLY WARNING SYSTEM Award: SILVER Role: Head Exhibition Name: INNOVATION, INVENTION & ENTREPRENEURSHIP CARNIVAL 2023 (IIEC 2023) • Product Name: EMATH-LEARNING MATH USING INTERACTIVE MOBILE APPLICATION Award: SILVER Role: Head Exhibition Name: PIITRAM2023 • Product Name: SAGA-GIS: AN ALTERNATIVE TECHNIQUE FOR LANDSLIDE OBSERVATION Award: SILVER Role: Member Exhibition Name: PIITRAM2023 • Product Name: SMART IOT-FWB DISEASE FORECASTING AND MODELLING Award: SILVER Role: Head Exhibition Name: CRI2023 • Product Name: SMART IOT- FWB SYSTEM FOR FORECASTING SOIL CONDITION Award: SILVER Role: Member Exhibition Name: CRI2022 • Product Name: Relationship between Learning Outcomes Achievement and Graduate Employability of Sustainable Science A Award: BRONZE Role: Member Exhibition Name: Teaching enhancement & Learning Innovation Carnival 2020 • Product Name: PEWARNA KAIN SEMULAJADI Award: BRONZE Role: Head Exhibition Name: Youth-ICON2023 • Product Name: Student's Readiness and Acceptance of E-Assessment in Higher Education Award: BRONZE Role: Member Exhibition Name: Teaching enhancement & Learning Innovation Carnival 2020 • Product Name: Peningkatan Kesedaran Sains, Teknologi, Kejuruteraan dan Matematik (STEM) Menggunakan Pendekatan Te Peringkat Sekolah Rendah Award: BRONZE Role: Member Exhibition Name: e-Carnival Research & Innovation 2020 • Product Name: AGRICULTURAL CAREER TRAINING PROGRAM FOR DROP OUT STUDENTS THROUGH WORK BASED Award: BRONZE Role: Head Exhibition Name: innovators2022 • Product Name: Drones: fun way to teach STEM Award: BRONZE Role: Member Exhibition Name: innovators2022

	• Product Name: Agricultural Waste Activated Carbon Filter for Waste Treatment System Award: BRONZE Role: Member Exhibition Name: e-Carnival Research & Innovation 2020 • Product Name: DEGRADATION OF METAMIFOP BY TIO2/AL2O3/CNT, TIO2/AL2O3/G AND AL2O3/G Award: BRONZE Role: Member Exhibition Name: CRI2021 • Product Name: Curriculum for Community (C4C): Improving education outcome by empowering the community and enhancing Award: BRONZE Role: Member Exhibition Name: e-Carnival Research & Innovation 2020

D. CONSULTATION

CONSULTATION(S)	1. HYDROMETEOROLOGICAL DATA STUDIES IN SABAH | MEMBER | 2022

E. COMMUNITY SERVICES

COMMUNITY SERVICES	