

LAPORAN KEGIATAN

Peningkatan Kerjasama dengan Instansi dalam Negeri dan Luar Negeri

JULI 2023



FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM

UNIVERSITAS PAKUAN

JULI 2023

REPORT
VISITATION IN ASDS PROGRAM 2023
July 25-27, 2023



The Asian Science Deans Summit (ASDS) is the annual meeting that provide a platform for networking and collaborating between science faculties in universities throughout Asian countries. This summit welcomes all deans, deputy deans and administrators of science faculties to participate in various discussions and sharing sessions to strengthened the quality of education, research and public engagement of their respective institutions. In addition, this summit provides an opportunity for participated university to reinforce mobility programs and develop networking opportunities with the existing and new partners throughout Asia. Since the first meeting in 2015 organised by South Korea Yonsei University, ASDS was held every year until 2019 (5th ASDS). Due to COVID19 pandemic, the summit was postponed and will resume in 2023 (6th ASDS) with the Universiti Kebangsaan Malaysia is given the honour to organize it. The 6th ASDS will be held at Putrajaya Malaysia, the “garden city” and the administrative capital of Malaysia.

Date	Documentation	Description
July 25, 2023		Photo of Delegation of Dean Sciences from Indonesia. ITB, Universitas Airlangga, UIN Raden Fattah Palembang, Univ. Palangkaraya, Univ, Lambung Mangkurat, Univ. Negeri Malang, UIN Sunan Gunung Djati, Universitas Islam Malang.

<p>July 25, 2023</p>		<p>Asep Denih, S.Kom., M.Sc., Ph.D The Dean of FMIPA Pakuan University Discussion About Letter of Intent With The Dean of FST UKM.</p>
		<p>Asep Denih, S.Kom., M.Sc., Ph.D The Dean of FMIPA Pakuan University signed an LoI with FST UKM.</p>
<p>July 26, 2023</p>		<p>Dokumentasi Dekan FST UKM dan Pimpinan Universitas Kebangsaan Malaysia.</p>
		<p>Documentation The Dean of FST UKM with Prof. Dr. Seung- Han Park</p>

<p>July 26, 2023</p>		<p>Mrs. Hazami Habib (CEO of Academic of Science Malaysia)</p>
		<p>Prof. Dr. Moh Yasin (Dean of Faculty of Science and Technology, Universitas Airlangga)</p>
		<p>Prof. Dr. Seung-Han Park (Yonsei University, Republic of Korea)</p>
		<p>Prof. Dr. Rohana Adnan (Chairman Malaysian Council of Dean of Science and Mathematics (MDSM))</p>

<p>July 26, 2023</p>		<p>Dr. Low Ley Hian Presentation of Biogenes</p>
		<p>FGD about Impactful Research and Internationalization</p>
		<p>Dean of FMIPA discussing with Dean of FST UTHM</p>
		<p>MIPA Net Meeting Meeting with MDMS</p>

July 26, 2023		Completion of meeting between MIPA Net and MDMS
		Gala Diner ASDS 2023
July 27, 2023		Closing Ceremony ASDS 2023

Closing Event 6thASDS 2023, Putrajaya-Malaysia. (Welcome Philippines)

The impact of participating in ASDS activities is to carry out several collaborations with ASDS 2023 participants, including:

Faculty, Universitas	Poin Kerjasama
FST, Universitas Kebangsaan Malaysia	<ul style="list-style-type: none"> • Signing LoI • Student Exchange through Community Service program • Visiting Lecturer • Research Collaboration • Student Exchange • Publication Collaboration • Adjung Profesor

Kerjasama lain yang akan dilakukan adalah dengan beberapa peserta diantaranya:


Faculty, Universitas	Identitas
Universiti Malaysia Sarawak	Assoc Prf. Dr. Samsur Mohamad msamsur@unimas.my
Mapua University	Delia B. Senoro, Ph.D. dbsenoro@mapua.edu.ph
University Teknologi Mara	Dr. Aida Azlina Ali Aidaaz2790@uitm.edu.my
Yonsei University, Republic of Korea	Prof. Dr. Yong Cheol Kim yekim@yonsei.ac.kr
Korea University	Prof. Seong-Heog yang Sdyang@korea.ac.kr
National University Singapore	Prof. Sow Chorng Haw physowch@nus.ed.sg
Bulacan University	Prof. Edgardo Santos Edgardo.santos@bulacan.edu.ph
Universiti Teknologi Malaysia	Dr. Shafnira Shahir Shafnirshahir@utm.my
SQU. Oman	Porf. Talal Al Hosni hosni@squ.edu.om
National Chungchi University	Prof. Hsing Paul Luh slu@hccu.edu.tw





6th ASDS

Asian Science Deans Summit 2023

"Frontiering Science Through Impactful Collaboration"

 25th - 27th July 2023

 The Everly Putrajaya Hotel, Malaysia

Programme Book



“UKM is deeply committed to fostering academic excellence, promoting research collaboration, forging strong industrial linkages, and engaging in community service. These pillars drive knowledge advancement, fuel interdisciplinary breakthroughs, inspire innovation, and foster inclusive development in Asian Countries”

**Profesor Dato’ Gs. Ts. Dr.
Mohd Ekhwan Hj. Toriman**

Vice-Chancellor
Universiti Kebangsaan Malaysia



“The Asian Science Deans Summit serves as a pivotal platform for fostering academic networks and strategic research among science faculties in Asia. It is through such collaborations that we can collectively address the challenges and seize the opportunities that lie ahead, propelling our universities and Asia as a whole to new heights.”

Professor ChM Dr. Ishak Ahmad

Dean
Faculty of Science & Technology



“It is our hope that the resolutions generated from this summit will be transformed into tangible actions that will shape the future of scientific education and research in our region. It is through sustained collaborations and actions that we can transform ideas into impactful initiatives.”

Assoc. Professor Dr. Abdul Munir bin Abd. Murad

Chairperson of the Organizing Committee
6th Asian Science Dean Summit

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PROGRAMME

25th July 2023 (Tuesday)

3:00 pm	Hotel Check-In and Registration
4:00 pm	Cruise Excursion, Putrajaya – upon request
7:30 pm	Welcoming Dinner @ Indus Putrajaya, Bora Ombak

26 July 2023 (Wednesday)

8:00 am	Registration and Informal Socializing Session
9:00 am	Opening ceremony <ul style="list-style-type: none">▪ Address by Prof. Dr. Seung-Han Park, ASDS Founder▪ Salutation Speech by YBhg. Prof. Dr. Norhamidi Muhamad, Pro Vice-Chancellor, Income Generation and Development, Universiti Kebangsaan Malaysia▪ Opening Ceremony by
10:00 am	Collaboration Signing Ceremony
10:15 am	Photo Session and Tea Break
10:45 am	Keynote Speech Mrs. Hazami Habib, CEO Academy of Science Malaysia <i>Evolutionising STIE Landscape in Malaysia</i> Chairman: Prof. ChM. Dr. Ishak Ahmad, Dean of Faculty of Science and Technology, Universiti Kebangsaan Malaysia

PROGRAMME

Plenary Sessions	
11:30 am	Plenary 1 Prof. Dr. Moh Yasin Dean of Faculty of Science and Technology, Universitas Airlangga (UNAIR), Indonesia <i>Strategies for Internationalization of Impactful Research Collaboration</i> Chairman: Prof. Dr. Hsing Luh, Dean College of Science, National Chengchi University, Taipei, Taiwan
12:00 pm	Plenary 2 Prof. Dr. Seung-Han Park, Yonsei University, Republic of Korea <i>Strengthening Industrial Linkages & Community Engagement</i> Chairman: Prof. Dr. Hiroshi Amitsuka, Dean Faculty of Science, Hokkaido University, Japan
12:30 pm	Plenary 3 Prof. Dr. Rohana Adnan, Chairman of Malaysian Council of Dean of Science and Mathematics (MDSM) <i>Improving the Teaching and Learning Climate in Higher Education</i> Chairman: Prof. Dr. Yong Cheol Kim, Dean College of Science, Yonsei University, Republic of Korea
1:00 pm	Lunch

PROGRAMME

2:30 pm	Group Discussion (Concurrent Session) <ul style="list-style-type: none">▪ Impactful Research and Internationalization▪ Strengthening Industrial Linkages & Community Engagement▪ Improving the Teaching and Learning Climate
4:30 pm	Tea Break and Matchmaking Session
5:00 pm	Special MDSM Meeting, Malaysia with MIPAnet, Indonesia (Room Irama 5)
8:00 pm	Gala Dinner @ Ballroom 1, The Everly Putrajaya Hotel
27th July 2023 (Thursday)	
9:00 am	Presentation of Group Discussion and Q&A <ul style="list-style-type: none">▪ Impactful Research and Internationalization▪ Strengthening Industrial Linkages & Community Engagement▪ Improving the Teaching and Learning Climate
10:30 am	Summary and Future Direction of the Summit Prof. ChM. Dr. Ishak bin Ahmad Dean of Faculty of Science and Technology, UKM
10.45 am	Tea Break and Matchmaking Session
11:15 am	Closing Remarks Prof. ChM. Dr. Mohammad bin Kassim Deputy Vice-Chancellor Academic and International, UKM
12:00 pm	Lunch
2:00 pm	Excursion - KL City Tour



HAZAMI HABIB, J.M.W

Hazami Habib is currently serving as the Chief Executive Officer of the Academy of Sciences Malaysia (ASM), a 'Think Tank' body focusing on science, technology & innovation policy and strategy projects. She leads the Management of the Academy that comprise of amount more than 700 STI experts in Malaysia.

She joined ASM in 1996. In her years at the Academy, she has involved in several national and international level studies and programmes such as the National Astronaut Programme, National Science Challenge, ASEAN, and Asia-Pacific Economic Cooperation (APEC) Meetings related to STI, 1st, 2nd & 3rd Science and Technology National Policy and others. Among ASM Flagship Studies that she oversees are Mega Science Framework Study, Foresight Study on Malaysia 2050, Science Education Study, Science Outlook, and others. She also has been appointed as the member Board of Trustee of the Yayasan Pinter Negara (YPN) that focused on designing learning modules for gifted children.

Regionally, she has represented Malaysia in few talks and forums, including the China-ASEAN Technology Transfer and STI Cooperation Forum, Nanjing, China; ASEAN Talent Mobility Workshop, Thailand; Asian Innovation Forum, Korea; and 2019 AAAS Symposium, Washington DC.

She is the Chair of Science, Technology and Innovation Committee in APEC Policy Partnership on Science, Technology and Innovation (2017-current), the Secretary for Malaysia in IASA Council (2014-2019), Disciplinary Panel for Malaysian Medical Council (2018-current) and Council Member for Industry4WRD lead by Ministry of International Trade and Industry (2019-current).

Her area of interest and expertise is on STEM Talent Development, Policies, Strategic Science Communication, Foresight, Science Diplomacy, and Governance.

KEYNOTE

Mrs. Hazami Habib

Evolutionising STIE Landscape in Malaysia

Abstract

The current Science, Technology, Innovation & Economy (STIE) ecosystem of Malaysia faces multiple challenges in bridging the chasm between generators and users of knowledge. Malaysia, however, recognises the need to frontier STIE to overcome unprecedented crises while working towards building a knowledge-based high tech nation, driven by wholesome and fertile STIE ecosystem. To make this vision a reality, strategies are put in place to strengthen STIE through Research, Development, Commercialisation, Innovation & Economy (RDICE) ecosystem. 10-10 MySTIE Framework, a guiding tool formulated with the goal of linking STI priorities to economy in the hope of creating a collaborative ecosystem is the key in planning mission-oriented RDICE to strengthen the quadruple helix collaboration. To complement this effort, collaborative platforms such as I-Connect and Open Innovation Platform are created with the hope of creating collaborative spaces for Malaysian government, academia, industry and community.



Prof. Dr. M. YASIN

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Personal Profile

Date of Birthby : 17 March 1967
Citizens : Indonesia
Current Position : Professor, Department of Physics, Faculty of Science and Technology
Airlangga University, Surabaya (60115), Indonesia.

Achievements

- The Active Researcher at Airlangga University 2019
- The Highest publication and citation at Airlangga University 2019
- The Researcher with International Output Publication at Airlangga University
- The Highest publication at Scopus in Airlangga University 2017
- The Highest Sinta score at Faculty of Science and Technology, Airlangga University 2017
- The Highest productive lecturer Universitas publication at Airlangga University 2016
- The Highest Scopus h-index contributor at Airlangga University 2015
- Highly commended paper award (Emerald Publisher, UK) 2015

Education

1990 – 1990 : B.Sc. Physics, Airlangga University, Indonesia
2000 – 2001 : MSc. Gadjah Mada University, Indonesia
2002 – 2004 : PhD. Gadjah Mada University, Indonesia

Academic Experiences

2003	JSPS General Exchange Program	Tohoku University, Japan
2004	JSPS General Exchange Program	Univ. of Electro Comm., Japan
2011-2012	Visiting Research Fellow	University of Malaya
2012-2014	Visiting Research Fellow	Universiti Teknologi Malaysia
2018-2019	Visiting Researcher	Aston University, UK

Teaching Experiences

- Electrodynamics (Airlangga University)
- Fiber Optic Sensors (Airlangga University)
- Modern Optics (Airlangga University)
- Biophotonics (Airlangga University)
- Laser & Fiber Optics (Airlangga University)
- Biomedical Photonics (Airlangga University)

Position Scientific Position

- Senior member, Indonesian Optical Society (IaOS)
- Member, Physical Society Indonesia (PSI)

Administrative Experiences

- Secretary of Physics Department - 2001-2006
- Coordinator Study Program - Biomedical Engineering - 2013-2014
- Head of Physics Department, ISTITSMB - 2015-2020
- Dean of IST Univ. Nidjanga - 2020-2025

Specialization

Optical Fiber Sensors and Fiber-Optic Devices

Current Research Interest

Optical fiber sensors, microfiber, fiber lasers and ultra-short pulses lasers.

Research (Web of Science Database)

Total Publications : 359 articles
 Citations : 926
 H-index : 14

Project Funding

- Fiber optic sensor berbasis microfiber untuk deteksi kadar mineral (Zn) dalam replensisi makanan (2021)
- Fiber optic sensor based on microfiber for level of mineral (Zn) detection in food, 135.500.000,00 IDR (2020)
- Generation of Stimulated Pulsed in Fiber Laser Cavity, 125.000.000,00 IDR (2020)
- Design of fiber sensor based on microfiber for food safety detection (Sudam Nivale), 205.000.000,00 IDR (2019)
- Fibre-Optic Sensor for Food Safety Applications, 225.000.000,00 IDR (2019)
- Optimized fiber optic sensor based on intensity modulation for artificial heart, 90.000.000,00 IDR (2019)

Completed Postgraduate Students Supervision

PhD : More than 5 graduated
 Master : More than 5 graduated

Recent Patent and Publications

Selected Papers:

Zain H.A., Battantiry M., Harun S.W., Hamih Z., Yasir M., Rahim H.R.A., Graphene/PVA coated D-shaped fiber for sodium nitrate sensing (2021) *Sensors and Actuators A*, Article number 113163.

Al-Hiti, A.S., Al-Masoudi, A.H.H., Harun, S.W., Yasir, M., Wong, W.R., Tinptien trioxide (WO₃) film absorber for generating soliton mode locked pulses in erbium laser (2020) *Optics and Laser Technology*, 131, art. no. 106429.

Rizuan, Z.I., Zulkipli, N.F., Araf, H., Yasir, M., Harun, S.W., Q-switched and tunable wavelength fiber laser utilizing nickel oxide saturable absorber and output loop mirror filter (2020) *Infrared Physics and Technology*, 109, art. no. 105433.

Buda, C., Yasir, M., Harun, S.W., Jafry, A.A.A., Huseb, A.H.A., Q-switched Erbium-Doped Fiber Laser Incorporating Multi-Walled Carbon Nanotubes as a Saturable Absorber (2020) *IOP Conference Series: Materials Science and Engineering*, 854 (1), art. no. 012059.

Zulkiffi, M.Z., Yasir, M., Awang, N.A., Lau, K.Y., Muhammad, F.D., Zamzuri, A.K. Octave spanning supercontinuum generation with a few-mode fiber (2020) *Laser Physics*, 30 (7), art. no. 075004.

Saleh, R.S.M., Al-Masoudi, A.H.H., Ernan, F.N.A., Al-Masoudi, A.H.H., Araf, H., Yasir, M., Harun, S.W., Zinc phthalocyanine thin film as saturable absorber for Q-switched pulse generation, (2020) *Optical Fiber Technology*, 57, art. no. 102235.

Yusoff, R.A.M., Jafry, A.A.A., Kasim, N., Zulkipli, N.F., Samsamun, F.S.M., Yasir, M., Harun, S.W., Q-switched and mode-locked erbium-doped fiber laser using gadolinium oxide as saturable absorber (2020) *Optical Fiber Technology*, 57, art. no. 102209.

Samsamun, F.S.M., Zulkipli, N.F., Migid, W.H.A., Khairun, M.L.M.A., Shahzami, A., Huseb, A.H.A., Araf, H., Yasir, M., Harun, S.W., MEH-PPV organic material as saturable absorber for Q-switching and mode-locking applications (2020) *Journal of Modern Optics*, 67 (8), pp. 746-753.

Ahmad, H., Abaqawi, H.S.M., Yusoff, N., Chang, W.Y., Yasir, M., Q-Switched Fiber Laser at 1.5 μm Region Using D5A172 MAX Phase-Based Saturable Absorber (2020) *IEEE Journal of Quantum Electronics*, 56 (7), art. no. 8001099.

Nizamani, H., Jafry, A.A.A., Abdul Khairun, M.L.M., Merton, F.A., Shahzami, A., Kasim, N., Huseb, A., Yasir, M., Harun, S.W., Inhomogeneous coated D-shaped fiber as saturable absorber for passively Q-switched erbium-doped fiber laser (2020) *Optics and Laser Technology*, 128, art. no. 102908.

Yasir, M., Apsari, R., Ningzhi, K., Yitwanna, Y.G.Y., Zulkarnain, M., Djamil, M., McIlwain, I., Evin, M., Aminah, N.S., Sigatomo, W., Setiawan, A., Darmawan, H., Suyarto, I., Widayanti, Sopyarto, W., Pote, H., Izzatun, Pordian, Harun, S.W., Detection of seismograph signal using fiber bragg sensor (2020) *Optik*, 208, art. no. 164554.

Sapuan, I., Yasir, M., An, K., Apsari, R., Anomaly Detection Using Electric Impedance Tomography Based on Real and Imaginary Images (2020) *Sensors (Basel, Switzerland)*, 20 (7).

Salm, S., Al-Masoudi, A.H.H., Yasir, M., Harun, S.W., Soliton mode-locked Er-doped fiber laser by using Al₂O₃ saturable absorber (2020) *Optics and Laser Technology*, 125, art. no. 106800.



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WORK EXPERIENCE:	2022-present : Senior Vice President for Research Affairs & Dean of Graduate School, Yonsei University 2020-2021 : President, Optical Society of Korea 2018-2020 : Dean of Graduate School, Yonsei University 2013-present : Director, Yonsei-LG Innotek R&D Center for Advanced Components and Materials

	<p>2014-2021 : Vice President, International Commission for Optics</p> <p>2014-2016 : Dean, College of Science, Yonsei University</p> <p>2012-2014 : Director, Board of Directors, IOPIE-International Society for Optics and Photonics</p> <p>2010-2012 : Dean, Graduate School of Education, Yonsei University</p> <p>2008-2015 : Director, Pioneer Research Center for Neuro-Science & Technology (Ministry of Science, Technology & Education)</p> <p>2006-2008 : Director, Institute of Physics & Applied Physics (Brain Korea 21)</p> <p>2002-2007 : Director, National Research Laboratory of Nonlinear Optics</p>
RESEARCH & PUBLICATIONS:	> 130 refereed Journal Papers
TEACHING & SUPERVISION:	Supervised > 100 M.S. and Ph.D. Students



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UNIVERSITY: UNIVERSITI SAINS MALAYSIA

POSITION: DEAN & PROFESSOR IN PHYSICAL CHEMISTRY

EDUCATION: BSc with distinction (Clarkson University, New York)
PhD (Southampton University, UK)

WORK EXPERIENCE: Tutor, Universiti Malaysia, 1995-1996
Research Officer, Universiti Malaysia, 1995-1996
Lecturer, Universiti Sains Malaysia, 2000-to date

RESEARCH & PUBLICATIONS: Research Expertise: Physical/Theoretical Chemistry
Research Area: Wastewater treatment, Visible Light
Active Photocatalysis, Adsorption, Advanced Oxidation
Total publications: 158
H-index: 31

TEACHING & SUPERVISION: Courses : Kinetics of Gases, Thermodynamics,
Quantum Chemistry and Statistical Thermodynamics
Supervision
PhD : Completed - 13 Ongoing - 8
MSc : Completed - 24 Ongoing - 3

PLENARY 1

Professor Dr. Moh. Yasin

Strategies For Internationalization of Impactful Research Collaboration

Abstract

For the last 3 years, Universitas Airlangga has progressed very rapidly which indicated by an increase in the QS University Ranking. Universitas Airlangga was initially ranked 650 (2020), then became 465 (2021) and rose to 369 (2022). It is expected that the ranking will increase to 325 next year. In the ASIA ranking, UNAIR is in 89th position and the National ranking is in 4th position. The Faculty of Science and Technology is one of the faculties that makes a very significant contribution to support Universitas Airlangga's ranking. Various steps have been taken to achieve an increase in ranking including the Adjunct Professor program, Airlangga Postdoctoral Program, Staff/Student Mobility Program, Matching Fund and others to strengthen international partnership with Universities around the globe.

PLENARY 2

Prof. Dr. Seung-Hun Park

Strengthening Industrial Linkages and Community Engagement

Abstract

Collaboration between universities and industry is essential to creating technological and industrial innovation. In this plenary talk, several ideas will be presented to strengthen industry-academia cooperation based on science and technology knowledge generated by universities.

PLENARY 3

Professor Dr. Rohana Adnan

Improving the Teaching and Learning Climate in Higher Education

Abstract

Improving the quality of teaching and learning in higher education has never been more important, especially during and post-pandemic era. The current development in technology creates both opportunities and challenges for teaching and learning. Teaching and learning processes in tertiary institutions include curriculum planning, the interaction between teachers and students in the learning environment, and the development of learning communities. Technology affects education in at least five ways i.e., input, means of delivery, skill, tools for planning, and providing a social and cultural context. To a certain extent, the changes are reflected in our current higher education policies and practices. This presentation will highlight some of our best practices by recognizing opportunities for future development to achieve sustainable teaching and learning excellence. These include micro credential - training our academic staff with current technologies, leveraging current technologies into teaching and learning, Augmented reality, Virtual reality, and gamification.

LIST OF PARTICIPANTS

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24	JANARDAN LAMICHHANE	Prof. Dr.	KATHMANDU UNIVERSITY	School of Science (SOS)	ljanardan@ku.edu.np`
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Mr. Mohd Edzrul Fadly Mat Nawi

Mr. Mohd Faridz Abd Jalil

Mr. Badru Nizam bin Sajadi

Mr. Abdul Halim Mohd Kasim

Mr. Mohd Khairul Azmi Mohd Zuki

Special Task

Dr. Shevin Rizal Feroz

FACULTY PROFILE



NAME OF THE UNIVERSITY: Universiti Kebangsaan Malaysia (The National University of Malaysia, UKM)

NAME OF THE FACULTY: Faculty of Science and Technology (FST)

NAME OF THE DEAN: Prof. ChM Dr. Ishak Ahmad

EMAIL ADDRESS: dfst@ukm.edu.my

TELEPHONE NO (OFFICE): +603 8921 5419

FACULTY WEBSITE: www.ukm.my/fst

FACULTY SOCIAL MEDIA: <https://www.facebook.com/fstukmbangj> ; <https://www.instagram.com/fstukm/>

HIGHLIGHT OF THE FACULTY:

Faculty of Science and Technology, Universiti Kebangsaan Malaysia was established on 19 July 1999 but the existence of science studies at UKM started way 53 years ago when UKM was established. This indicates the timeline of FST's involvement in science for education and research began 53 years ago when the original Faculty of Science was established in 1970.

FST academicians are very active in research and have gained recognition from international bodies, including chartered bodies in their respective fields of study. 10 FST researchers have been listed as Top 2% Scientist 2021 by Elsevier. Numerous distinguished professors have been enlisted as top research scientists of Malaysia. In addition, the academics received more than 15 millions domestic and foreign funds for the advancement and development of science, technology, and innovation. FST's science and technology research capabilities have been proven as its academics have achieved various successes nationally and internationally.

Currently, FST has 6 Centre of Excellence (CoE), a natural history museum and a botanical garden with more than 100 hectares - consists of dipterocarp rainforest, experimental plots and orchards, fernarium, herb garden including a germplasm collection for rare uncommercialized fruits - a living historical record of indigenous diets of the Malay peninsula.

LIST OF ACADEMIC PROGRAMME:

UNDERGRADUATE	POSTGRADUATE Master by Coursework	Master by Research / PhD Focus Area
Actuarial Science, Biochemistry Bioinformatics, Biology Chemistry, Chemistry Technology Environmental Science Food Science and Nutrition Food Science with Business Management Genetics, Geology Marine Science, Material Science Mathematics, Microbiology Nuclear Science, Physics, Plant Biotechnology, Statistics,	Applied Physics, Chemistry Conservation Biology Data Science and Analytics Energy Technology Engineering & Environmental Geophysics Engineering Geology, Entomology Environmental Assessment & Monitoring Industrial Safety Management Management of Plant Genetic Resources Marine Sciences, Mathematics Plant Systematics Quality & Productivity Improvement Radiation & Nuclear Safety, Statistics	Actuarial Studies, Biochemistry Bioinformatics, Biology, Biophysics, Biotechnology, Botany, Chemical Biology, Chemical Engineering, Chemistry, Data Science and Analytics Environmental Conservation Environmental Engineering Environmental Science, Food Science Genetics, Genome Science, Geology Industrial Safety Management Marine Science, Materials Science Mathematics, Microbiology Molecular Biology, Nanotechnology Nuclear Science, Nutrition, Physics, Plant Biotechnology Quality & Productivity Improvement, Statistics, Zoology

We offer PhD dual/joint degree with Osaka University and Gifu University, Japan.



STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

We offer a distinctively global in-bound student exchange experience that is grounded in maximizing the potential of students. Incoming exchange students can take a variety of cross-disciplinary modules from Science and Technology modules to Southeast Asian languages and cultures. So far, we had in-bound students from Japan and also from Korea.

Beside, our students also join out-bound programmes to South Korea, Japan, Indonesia, Brunei, Singapore, Netherlands and United Kingdom. These programmes foster personal growth, leadership skills, cultural awareness, networking, problem-solving, communication abilities, and broaden worldviews while enhancing resumes and creating lasting memories.

In-bound from Ibaraki University, Japan



Out-bound to Jeonbuk National University, South Korea



Out-bound to Gifu University, Japan



Out-bound to University of Cambridge, United Kingdom



RESEARCH STRENGTH:

The Faculty of Science and Technology achieved remarkable milestones during the period of 2019-2022, highlighting its dedication to research, innovation, and academic excellence:

RM 49.34 MIL Research Grant
2865 Web of Science Publications
1759 Q1/ Q2

340 PhD Graduates
39 Research Patents
439 Research Projects

<ul style="list-style-type: none"> • High-pipe Devices • High-pipe Technology • Space Exploration 	 <p>01 Department of Applied Physics</p>	<ul style="list-style-type: none"> • Systematics & Ecology • Sustainable Water Management • Wildlife Conservation & Management 	 <p>02 Department of Ecological Sciences and Bionanotechnology</p>
 <p>04 Department of Geographical Science</p>	<ul style="list-style-type: none"> • Advanced Geotechniques • Advanced Materials for Sensor and Pollution Control Technology • Renewable Energy Materials • Renewable Glonavigation 	 <p>03 Department of Park Ecology and Management</p>	<ul style="list-style-type: none"> • Risk Management of Geohazards • Sustainable Development & Management of Earth Resources • Climate System, Atmosphere & Ocean • Environmental Health
<ul style="list-style-type: none"> • Functional Food • Food Processing and Packaging • Food Microbiology and Biotechnology • Nutritional Biochemistry 	 <p>05 Department of Food Sciences</p>	<ul style="list-style-type: none"> • Performance & Involvement Analysis • Statistical Methodology & Data Analysis • Actuarial Science & Finance • Theoretical & Applied Mathematics 	 <p>06 Department of Pharmaceutical Sciences</p>

COMMUNITY ENGAGEMENT/ INDUSTRIAL LINKAGES:

FST provides a focal point for initiatives that develop strategic university-industry-community engagement partnerships which could enhance and support the teaching and learning as well as research of the university. We proactively connect the university's resources to the external stakeholders, industries and community as a demonstration of FST as an engaged faculty.

CSR activity with Aborigines People



"It's Time For Our River" CSR programme



MOU Signing Ceremony with DNV (M) Sdn Bhd.



MOU Signing Ceremony with Sun Life Malaysia Assurance



FST to the Fore

Thank you

FACULTY PROFILE



NAME OF THE UNIVERSITY: UNIVERSITI SAINS MALAYSIA

MISSION :

Transforming Higher Education for a Sustainable Tomorrow

VISION :

USM is a pioneering, transdisciplinary research-intensive university that empowers future talents and enables the bottom billions to transform their socio-economic well-being

NAME OF THE FACULTY/SCHOOL: SCHOOL OF CHEMICAL SCIENCES (PUSAT PENGAJIAN SAINS KIMIA)

NAME OF THE DEAN: PROF. ROHANA BINTI ADNAN

EMAIL ADDRESS: r_adnan@usm.my

TELEPHONE NO (OFFICE): 604-6533588 ext. 3262

FACULTY WEBSITE: www.chem.usm.my

FACULTY SOCIAL MEDIA: <https://www.facebook.com/chemicalsciences.usm/>

ADMISSION: <http://www.usm.my/admission>

HIGHLIGHT OF THE FACULTY: Since its establishment in 1969, the School of Chemical Sciences at Universiti Sains Malaysia (USM) has excelled in various aspects, including research, community engagement and industrial linkages. With 37 dedicated academic staff and 36 supporting staff and many modern facilities, the school has demonstrated high commitment in advancing knowledge and making positive impacts to the society and country. The School is located in the USM Main Campus, on the scenic Penang island, off the west coast of Peninsular Malaysia.

➤ LIST OF ACADEMIC PROGRAMS:

➤➤ UNDERGRADUATE

- i. Bachelor of Science (Hons) (Chemistry)
- ii. Bachelor of Applied Science (Hons) (Analytical Chemistry)
- iii. Bachelor of Applied Science (Hons) (Industrial Chemistry)

➤➤ POSTGRADUATE

- i. **PhD/MSc (Research)** in Organic and Inorganic Synthesis, Natural Products, Materials Chemistry, Electrochemistry, Corrosion Chemistry, Surface Chemistry, Liquid Crystals, Green Chemistry, Sensors, Microbial Fuel Cells, Wastewater Treatment, Hydrogen Storage and Environmental Chemistry.
- ii. **MSc Mixed Mode** in Chemical Instrumentation
- iii. **Offshore PhD and MSc (Research) Programme with European Global School, Turkiye Campus**
- iv. **Dual Degree PhD program with Université de Lorraine, France**
- v. **Dual Degree PhD program with National Tsinghua University, Taiwan**

➤ STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

School of Chemical Sciences encourages students to take part in outbound programs through academic exchange programs or internship programs in another institution or university or industry, local or abroad as part of their learning process. Through the outbound programs, students learn about new cultures and gain new experiences, nurture their personal growth, strengthen research and communication skills, improve problem-solving skills besides establishing networking. We also offer a distinct inbound student exchange experience where students can take **short courses ranging from NMR spectroscopy, corrosion chemistry, glass blowing, summer program etc.** So far, we had in-bound students from **Japan, Kazakhstan, France, Indonesia, Thailand, India, Jordan and Nigeria**. Among countries where our students had their outbound programs are Korea, Japan, Indonesia, Thailand, Poland, USA and Canada.

➤ RESEARCH STRENGTH :

The School of Chemical Sciences has been well recognized by its cutting-edge research in **various fields of chemistry, particularly in materials and environmental chemistry**. The academic staff have been actively engaged in interdisciplinary research projects, addressing contemporary challenges and contributing to scientific advancements. The school also fosters a radiant research and teaching and learning culture by encouraging collaboration among staff, students, stakeholders, and external partners.

➤ COMMUNITY ENGAGEMENT:

Promoting community engagement stands as another core value of the School of Chemical Sciences. The school has been actively promoting outreach programs in the Northern region of Malaysia, aiming to create awareness that benefits the local community, the university, and the students. These include Microscale Chemistry, STEM, SULAM, Penang Water Watch, Chemistry Summer Program, and other chemistry-themed workshops and seminars. The sharing of expertise and knowledge promotes a deeper understanding and raises public awareness of chemistry and environmental issues in the community.



➤ INDUSTRIAL LINKAGES:

The School of Chemical Sciences also emphasizes on establishing strong industrial linkages in Malaysia. Knowing the importance of collaboration between academia and industry, the school has actively engaged with diverse industrial partners via internship opportunities, field trips and visits, industry in a classroom activities, industry relevant research projects, curriculum reviews etc. These collaborations serve to facilitate knowledge and technology transfers while equipping students with practical experience, knowledge and skills for school to develop skilled workforce ready to meet the demands of the industry and public sectors.

Math@USM PROFILE



WE  **MATH**
@USM

NAME OF THE UNIVERSITY: Universiti Sains Malaysia (USM)

NAME OF THE FACULTY: School of Mathematical Sciences

NAME OF THE DEAN: Pengerusi Dr. Halima Karimullah

EMAIL ADDRESS: dean.math@usm.edu.my

TELEPHONE NO (OFFICE): +604 653 3284

FACULTY WEBSITE: <http://www.usm.edu.my>

FACULTY SOCIAL MEDIA: <http://www.facebook.com/math@usm>; <http://www.instagram.com/math@usm>

HIGHLIGHT OF THE FACULTY:

The School of Mathematical Sciences, also known as Math@USM, was established on May 29, 1974. The school currently has nearly 50 lecturers grouped into Pure Mathematics, Applied Mathematics, Applied Statistics and Operations Research.

Our academics are active in research, evidenced by the successful procurement of over RM6 million in research funds from various sources over the span of the last two years. In addition, our academics have gained national and international recognition and numerous awards in technology & innovation. We are also active in the realm of teaching and learning, with a strong focus on STEM education and the use of gamification in the teaching of mathematics.

Math@USM has been collaboratively managing (with PERKASA) the Bulletin of the Malaysian Mathematical Sciences Society (BMMSS), a recipient of the prestigious CREAM Award by the Ministry of (Higher) Education Malaysia for five consecutive years since the inception of the award in 2016. BMMSS is also a WoS Q1 journal with impact factor of 1.387, and is ranked #1533 within the SCIE mathematical category (M21). Its 2021 journal citation indicator (JCI) is 1.40, which ranks BMMSS at the respectable rank of 48474 in mathematics.

LIST OF ACADEMIC PROGRAMMES

UNDERGRADUATE

- ❖ Bachelor of Science (Mathematics)
- ❖ Bachelor of Applied Science (Statistics)
- ❖ Bachelor of Applied Science (Mathematics & Economy)

POSTGRADUATE

• RESEARCH MODE

- ❖ Doctor of Philosophy
- ❖ Masters of Science

• MIXED MODE

- ❖ Master of Science (Mathematics)
- ❖ Master of Science (Statistics)

• COURSEWORK MODE

- ❖ Master of Science (Teaching of Mathematics)



Math@USM offers Inbound and Outbound Mobility Programmes for students with various partner universities worldwide. Our students have previously participated in exchange programs of universities in Japan, Korea and Finland. We have also hosted exchange students from local universities as well as from universities in France and Kazakhstan. In recent years, Math@USM has conducted joint mobility programs with Institut Teknologi Bandung, Indonesia.

RESEARCH STRENGTH

Pure Mathematics

Algebra, Analytical Number Theory, Combinatorics, Combinatorial Optimization, Coding Theory, Cryptography, Fuzzy Set Theory, Geometric Function Theory, Graph Theory, Group Theory, Inverse Theory, K-theory, Neural Computing, Stochastic Analysis, Topological Data Analysis

Applied Mathematics

Computational Fluid Dynamic, Computational Systems Biology, Computer Aided Geometric Design, Curves and Surfaces, Digital Signal Processing, Dynamical Systems and Bifurcation Theory, Environmental/Ecosystem Modelling, Fluid Mechanics, Gamification, Individual-Based Models in Ecology/Biology, Logic, Mathematical Modelling, Neural Network Modelling, Numerical Continuation, Path Planning, Phase Transition, Shortest Path Algorithm, Simulation of Cell Processes, Solutions in Coloidal Media, Surface Approximation, Surface Reconstruction, Traffic Modelling and Simulation

Applied Statistics and Operations Research

Categorical Data Analysis, Data Envelopment Analysis, Decision Optimization, Econometrics, Environmental Statistics, Financial Time Series, Filter Frequency Analysis, Game Theory, Mathematical Economics, Multiple Criteria Decision Making, Reliability Analysis, Spatial Modelling, Spatial Statistics, Spatio-temporal Modelling, Statistical Analysis, Statistical Inference, Statistical Process Control, Solar Drying Systems, Solar Thermal, Time Series

Noteworthy highlights of Math@USM from the year 2020:

- 68 PhD Graduates
- 85 Research Projects
- RM1.1 ML Research Grants
- 648 Publications (208 Q1/Q2)

COMMUNITY ENGAGEMENT & INDUSTRIAL LINKAGES

Math@USM demonstrates its commitment to the community by extending its core educational mission through a range of programs. Among the programs conducted in recent years are National Statistics Competition, USM Math Quiz, USM Carnival, Gamification & Mathematical Technology Workshop with School Teachers, and MathOdyssey mentoring and tutoring program. In addition to short-term programs, we have secured several University Community Outreach Project Grants which allow Math@USM staff and students to collaborate with the community on a long-term basis. We have also conducted activities with local orphanages in an effort to promote literacy and education. As proof of our continuous commitment, we have established a Collaboration Agreement with orphanage such as Persepsi Kerdia dan Sosial Kamahasiswa Widyah Jura.

Math@USM has collaborative relationships with players in several industries. These industrial-linked programs promote knowledge exchange, practical learning, and mutual growth of all stakeholders. Math@USM has several formal agreements (MOUs - Memorandum of Understanding) with industry players. Our most recently signed MOUs are with I-Inkay Electronic Sdn. Bhd., Integrated Services for the Development of Aquaculture and Fisheries Philippines (ISDA) Incorporation, and Era Eday Marketing Sdn. Bhd.



WE  **ARE** **MATH**
@USM

FACULTY PROFILE



NAME OF THE UNIVERSITY: Universiti Teknologi Malaysia (UTM)

NAME OF THE FACULTY: Faculty of Science

NAME OF THE DEAN: PwM. Dr. Zafar Abdul Halid

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TELEPHONE NO (OFFICE): +601 534 134-497 000/002

FACULTY WEBSITE: <http://www.fakulti.sains.utm.my>

FACULTY SOCIAL MEDIA: www.facebook.com/Fakulti.Sains.UTM - <https://www.youtube.com/channel/UC6u3p3n1>

HIGHLIGHT OF THE FACULTY

History of the Faculty of Science (FS) began with the establishment of the School of Science (SPS) in 1972 at UTM Sarawak, Kuala Lumpur. At the beginning the School of Science handled the teaching of Physics, Chemistry and Mathematics for the Faculty of Engineering of the Malacca Institute of Technology (MIT). The SPS was upgraded as a Faculty with the name Faculty of Science in 1981. In 1987, the Faculty began conducting the Bachelor of Science in Industrial Science (BSI) course with the offering of courses in Physics, Chemistry and Mathematics. The following year, 1988, the Faculty moved to Skudai Campus. Since then, it has undergone many improvements in academic forms, facilities, staff and students.

FS manufacturing established four major departments namely the Department of Chemistry, the Department of Physics, Department of Bioscience and the Department of Mathematical Sciences, with the addition of three research centres under the UTM Science Institute for Scientific and Industrial Research (ISI-SIR), namely the Centre for Supermolecular Nanotechnology (CSN), UTM Centre for Industrial and Applied Mathematics (UICAM) and the Linear Centre. FS offers pre-graduate and postgraduate programs with taught and research modes. FS has a clear mission and vision in reaching the intellectual property of science and mathematics. FS is also important in the network of education system of Universiti Teknologi Malaysia (UTM) and has contributed significantly in the development of science and mathematics in UTM and Malaysia.

LIST OF ACADEMIC PROGRAMMES

UNDERGRADUATE

BSc. Biology with Honours
 BSc. Biotechnology with Honours
 BSc. (Chemistry) with Honours
 BSc. (Industrial Chemistry) with Honours
 BSc. (Mathematics) with Honours
 BSc. (Industrial Metallurgical) with Honours
 BSc. (Typical) with Honours
 BSc. (Industrial Physics) with Honours

POSTGRADUATE

TWILIGHT COURSE
 M.Sc. Forensic Science
 MDEC MDEC
 M.Sc. Biotechnology
 M.Sc. Chemistry
 M. Sc. Forensic Science
 M.Sc. Mathematics
 M.Sc. Engineering Mathematics
 M.Sc. Specialisation : Physics

RESEARCH

M.Phil. Field of Research :
 Biocience
 Ph.D. Field of Research :
 Biocience
 M. Phil. Field of Research :
 Chemistry
 Ph.D. Field of Research : Chemistry
 M. Phil. Field of Research :
 Mathematics
 Ph.D. Field of Research :
 Mathematics
 M. Phil. Field of Research : Physics
 Ph.D. Field of Research : Physics

SIGNATURE PROGRAMMES

- 1. **Signature 1**
 (Industry's Special Programme)
 (MDEC)
- 2. **Signature 2**
 (Industry Laboratory)
 (Industry's Special Programme)
- 3. **Signature 3**
 (Industry's Special Programme)
 (Industry's Special Programme)
- 4. **Signature 4**
 (Industry's Special Programme)
 (Industry's Special Programme)

Sustainable Innovation for Transformative Learning and Living



STUDENTS EXCHANGE/MOBILITY PROGRAMMES/SUMMER CAMP

INBOUND PROGRAMS

01 STUDENT EXCHANGE PROGRAM

RESEARCH INTERNSHIP/ATTACHMENT 02

03 STUDENT ACADEMIC VISIT

UTM SUMMER SCHOOLS 04

Visit to Jasin Prawn
 Accumulator Research
 Complex (J-PRAC)



Participation in 21st
 Annual Green
 Chemistry and
 Engineering
 Conference, California



Eligibility: Undergraduate students (International)
 Fee: 1000 USD/PAU

<https://www.utm.edu.my/>

<https://admission.utm.my/summer-school/>

m.f.udz@utm.my (programme coordinator)

RESEARCH STRENGTH

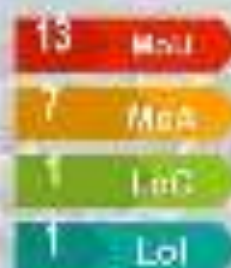
UTM has made significant contributions to the research and development landscape in 2021-2022, highlighting the dedication of our staff to advancing the national STI ecosystem and in catalyzing developments.

156 undergraduate staff
452 postgraduate students

409 Web of Science publications
267 Q1/Q2 publications
1829 citations



International Partnerships



Faculty of Science

RESEARCH GROUPS

17 Faculty-Based | 6 Cross-Faculty

SMART MATERIALS

- Smart-Responsive Polymer Device
- Nanosystems and Membrane (NANOMEM)
- Applied Fibre Research (AFRC)
- Smart Textile Research (STAR)
- Advanced Composite Materials (ACOM)
- Advanced Composite Structures (ACOS)
- Smart Fibres
- Smart Textile Research (STAR)

SMART OPTICAL MATERIALS

- Optical Sensors and Sensing (OSAS)
- Optical Microfluidics (OMF)



SMART DIGITAL COMMUNITY

- Online Learning (OL)

RESOURCE PARTNERSHIPS

- Industrial Research Group
 - Global Centre (GCR)
 - Clear Company (Clear)
 - Malaysian Research Institute (MRI)
- Smart Digital Research Group
 - Universiti Kebangsaan Malaysia (UKM)
 - Universiti Teknologi Malaysia (UTM)
 - Universiti Sains Malaysia (USM)
 - UTM Research Institute (UTM RI)
 - UTM Research Institute (UTM RI)
 - UTM Research Institute (UTM RI)

HEALTH & WELLNESS

- Health & Wellness Research Group
 - Health & Wellness (HW)
- Smart Digital Research Group
 - Smart Digital Research Group (SDRG)
 - Smart Digital Research Group (SDRG)
 - Smart Digital Research Group (SDRG)

INNOVATIVE ENGINEERING

- Innovative Engineering Research Group
 - Innovative Engineering Research Group (IERG)
 - Innovative Engineering Research Group (IERG)

Learn more about us on social

<http://www.csnano.utm.edu.my>

3 RESEARCH CENTRES

Centre for Sustainable Nanomaterials (CSNANO)
<https://csnano.utm.my/>

UTM-Centre For Industrial & Applied Mathematics (UTM CIAM)
<https://ciam.utm.my/>

Laser Centre
<https://laser.utm.my/>



COMMUNITY ENGAGEMENTS

Embodying the spirit of 'Thriving Solutions', FS is committed in supporting the local community, through various STEM engagement program and transitional projects. We also work closely with the local agencies, NGOs and civil societies.

STEM Engagement Activities



INTELLIGENT WATER USE (IWM)

2019-2020 | 100% participation rate for all students in the IWM program.



STEM DISCOVERY

2019-2020 | 100% participation rate for all students in the STEM Discovery program.



LEARNING THROUGH SCIENCE (LTS)

2019-2020 | 100% participation rate for all students in the LTS program.

Thriving evidence-based research is important by engaging and helping communities with sustainable contributions.



COMPOSTING PROJECT

2019-2020 | 100% participation rate for all students in the composting project.



STEM PROMAG PROGRAM

2019-2020 | 100% participation rate for all students in the STEM Promag program.



TREATMENT OF POLLUTED WATERS

2019-2020 | 100% participation rate for all students in the treatment of polluted waters program.

INDUSTRIAL LINKAGES



Where great minds are nurtured



science.utm.my



fsainsutm



Fakulti Sains UTM

FACULTY PROFILE



UNIVERSITI
TEKNOLOGI
MARA



NAME OF THE UNIVERSITY: Universiti Teknologi MARA (UTM)

NAME OF THE FACULTY: Faculty of Applied Sciences (FAS)

NAME OF THE DEAN: Professor Dr. Farida Zaraina Mohd Yusoff

EMAIL ADDRESS: dean@fas.utm.edu.my

TELEPHONE NO (OFFICE): (03) 554 4590

FACULTY WEBSITE: <http://fas.utm.edu.my/>

FACULTY SOCIAL MEDIA: <https://www.facebook.com/utmfas>, <https://www.instagram.com/utmfas/>

HIGHLIGHT OF THE FACULTY:

The Faculty of Applied Sciences (FAS) at UTM has a rich history dating back to its establishment in 1957. Originally known as the School of Applied Science or Higher Science Course (HSC), it was located in Pelandayan, Selangor, a part of the UTM campus (TV), previously known as Institut MARA (ITM) under the Malaya Federal Policy (MFP) in 1967, it became Institut Teknologi MARA (ITM) and began offering diploma courses. The establishment of FAS was aligned with the First Malaysia Plan, a government initiative aimed at improving the welfare and living conditions of citizens, particularly in rural areas.

When ITM transformed into Universiti Teknologi MARA (UTM) in 1982, this change in name signified the government's recognition of the institution. Subsequently, FAS is established, started with five courses. It has grown into one of the university's core science and technology faculties. The faculty is dedicated to fostering academic innovation, excellence in teaching, learning and research, and applying knowledge to create a better world through science and technology.

In its early years, FAS had a modest number of students, academic staff, and facilities. The focus was on agriculture-based education, aligning with Malaysia's economy at the time. As Malaysia's development progressed under the New Economic Policy, ITM played a significant role in promoting Bumiputera involvement in the nation's economic growth.

Over the years, FAS has expanded its programs and facilities, adapting to the changing needs of society. It strives to create a dynamic environment that nurtures forward-thinking, well-rounded graduates, and continues to improve itself. With a vision of becoming a premier institution in science and technology, FAS continues to contribute to the advancement of science, technology, and education in Malaysia and beyond.

LIST OF ACADEMIC PROGRAMMES:

DIPLOMA

- AS104 - Diploma in Polymer Technology
- AS104 - Diploma in Microbiology
- AS105 - Diploma in Industrial Chemistry
- AS106 - Diploma in Food Technology
- AS107 - Diploma in Wood Industry
- AS108 - Diploma in Textile Technology
- AS109 - Diploma in Science
- AS121 - Diploma in Industrial Hygiene and Safety Technology
- AS100 - Pre-Diploma Science

POSTGRADUATE (Research)

- AS150 - Master of Science (Biology)
- AS151 - Master of Science (Applied Biology)
- AS153 - Master of Science (Molecular Biology)
- AS154 - Master of Science (Chemistry)
- AS157 - Master of Science (Applied Chemistry)
- AS158 - Master of Science (Environmental Science and Technology)
- AS159 - Master of Science (Physics)
- AS160 - Master of Science (Applied) (Textile)
- AS162 - Master of Science (Material Science and Technology)
- AS162 - Master of Science (Food Science and Technology)
- AS164 - Master of Science (Wood Science and Technology)
- AS155 - Master of Science (Bio-resource Technology)
- AS161 - Master of Science (Polymer Science and Technology)
- AS163 - Master of Science (Textile Science and Technology)
- AS165 - Doctor of Philosophy (Science)

POSTGRADUATE (Course Work)

- AS124 - Master of Science in Environmental Technology
- AS140 - Master of Science (Food Science and Technology)

POSTGRADUATE (Applied Mode)

- AS120 - Master of Science (Textile)
- AS124 - Master of Science (Applied Microbiology)
- AS141 - Master of Science (Applied Biology)

UNDERGRADUATE

- AS100 - Bachelor of Science (Hons) [Biology
- AS104 - Bachelor of Science (Hons) [Bio-Molecular Science
- AS105 - Bachelor of Science (Hons) [Biochemistry
- Management
- AS106 - Bachelor of Science (Hons) [Sustainable Marine Technology
- AS107 - Bachelor of Science (Hons) [Applied Microbiology
- AS108 - Bachelor of Science (Hons) [Chemistry with Management
- AS109 - Bachelor of Science (Hons) [Environmental Technology
- AS120 - Bachelor of Science (Hons) [Industrial Hygiene Technology and Safety
- AS140 - Bachelor of Science (Hons) [Applied Chemistry
- AS150 - Bachelor of Science (Hons) [Chemistry (Physical Analysis)
- AS160 - Bachelor of Science (Hons) [Physics
- AS140 - Bachelor of Science (Hons) [Materials Science and Technology
- AS151 - Bachelor of Science (Hons) [Industrial Physics
- AS160 - Bachelor of Science (Hons) [Polymer Technology
- AS164 - Bachelor of Science (Hons) [Food Science and Technology
- AS167 - Bachelor of Science (Hons) [Furniture Technology
- AS160 - Bachelor of Science (Hons) [Textile Science and Fashion Technology
- AS162 - Bachelor of Science (Hons) [Eco-Technology
- AS160 - Bachelor of Science (Hons) [Textile Science & Fashion Technology; AND Bachelor of Art Textile Design (Hons)
- AS160 - Bachelor of Science (Hons) [Textile Science & Fashion Technology; AND Bachelor of Art Fashion Design (Hons)

We offered diverse programs ranges from pre-diploma to post-graduates to addressing the needs of both local and global students. Through tailored programs, language support, international collaborations, and global career opportunities, we aim to create an inclusive and enriching educational environment for all students.

We hosted in-bound international students from various countries such as Thailand, Indonesia, Singapore, Taiwan, China and many more. Hosting students from different parts of the world can bring diverse perspectives, cultural exchange, and enrich the academic environment. It also provide opportunities for students from partner institutions around the world to study at the faculty for a semester or academic year.

It's commendable that our students actively engage in many out-reach programs in Japan, Thailand, Indonesia and list to go. Out-reach programs provide valuable opportunities for students to apply their knowledge and skills in real-world contexts while making a positive impact on communities.

STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

OUT-BOUND

IN-BOUND



RESEARCH STRENGTH

During the 11 months of 2021-2022, IFSG made visible and measurable contribution or commitment in research, innovation, and academic distinction.

RM 1,555,445 International grants
RM 5,706,571 National grants
RM 8,568,974 Industrial grants

256 Works of Science Publications
37 PhD Graduates
60 Intellectual Properties
424 Research Projects



COMMUNITY ENGAGEMENT

Most community involvement activities by FBS are based on SULAM program. SULAM is typically program involve students engaging in activities that address community needs while also meeting specific learning objectives. This approach allows students to apply classroom knowledge in real-world settings, develop problem-solving skills, and cultivate a sense of civic responsibility.



INDUSTRIAL LINKAGES:



FACULTY PROFILE



UNIVERSITI
TEKNOLOGI
MARA



NAME OF THE UNIVERSITY: UNIVERSITI TEKNOLOGI MARA (UTM)

NAME OF THE FACULTY: COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS (KPPM)

NAME OF THE DEAN: PROF. TS. DR. HAFWAN HARON, Assistant Vice-Chancellor

EMAIL ADDRESS: info.kppm@uttm.edu.my

TELEPHONE NO. (OFFICE): [+60357573111](tel:+60357573111)

FACULTY WEBSITE: <http://kppm.uttm.edu.my>

FACULTY SOCIAL MEDIA:



[@kppm.uttm.official](#) - FB: Ruzmi



[@kppm_uttm_official](#)



[@kppm_uttm](#)

HIGHLIGHT OF THE FACULTY:

The College of Computing, Informatics and Mathematics (KPPM) was established on October 1, 2002. On June 1, 2023, the college's name was changed to the College of Computing, Informatics and Mathematics.

KPPM offers a wide range of undergraduate and postgraduate programs in computing, informatics, and mathematics. The college is committed to providing high-quality education that is relevant to industry demands. The programs are designed to equip students with the necessary skills and knowledge to excel in the digital age. With a focus on information science, artificial intelligence, data analytics, and cybersecurity, KPPM prepares graduates to solve real-world challenges and opportunities in these cutting-edge fields.

KPPM places strong emphasis on research and innovation. The college nurtures and supports faculty, and its faculty members are actively engaged in research projects that contribute to the advancement of knowledge in their respective domains. Areas of research focus include artificial

LIST OF ACADEMIC PROGRAMMES:

KPM has 24 undergraduate, 24 postgraduate and 3 professional certificate programs.



STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

KPM provides a remarkable international student exchange experience that empowers students to reach their full potential. Thus far, we have welcomed students from Kazakhstan, Uzbekistan, India, China, Indonesia, Switzerland, Philippines and Morocco.

Moreover, our students can participate in outbound programs to various countries, including South Korea, Canada, Turkey, Indonesia, Singapore, the United States of America, Italy, Japan, and the United Kingdom. The exchange program offers a transformative experience that enriches a student's academic journey, personal growth and intercultural communication skills.

Furthermore, students with outbound experience demonstrate good qualities such as adaptability and competency, which are highly sought after by employers who value candidates with international experience and a global mindset.



Outbound Mathematics students to Sangster National University, South Korea



Outbound Mathematics students to University of Eging, Czech Republic



Inbound international students from Mohammed VI Polytechnic University, Morocco, and Universitas Pendidikan Indonesia, Indonesia



Inbound international mathematics students from Samkang State University, Uzbekistan

RESEARCH STRENGTH

KPM's commitment to research, innovation, and academic excellence resulted remarkable milestones that propelled it to new heights. Throughout 2015-2022, KPM's research intensity is as follows:

RM 12.00 MIL Research Grant
141 Weblogs & Publications
36 Q1/Q2

434 Research Projects
86 PhD Graduate

ARTIFICIAL INTELLIGENCE

Machine Learning
Deep Learning
Computer Vision
Speech & Language



ANALYTICS

Data Science, Analytics and Computational Mathematics, Mathematical Sciences, Differential Equations and Numerical Analysis, Statistical Modeling, Applied and Social Statistics, Supply Chain and Logistic Modeling, Efficiency and Productivity Research

CYBERSECURITY

Blockchain
Digital Forensics
Cryptography
Network Security
Risk Management
Cloud Security



INFORMATICS

E-Commerce,
Information Retrieval,
User Experience,
Crowdsourcing, Data
Management and
Technology, Human
Computer Interaction, IT
Innovations,
Information Systems
Engineering, Mixed &
Reality, Game
Development, Software
Engineering



Research Initiative Group



Media dan Information Warfare (MIW)

Digital Forensics (DF)

Crowd Sourcing

Business and

Innovation (CBIG)

Digital Image, Audio & Speech Technology (DIASST)

Center of New and Emerging Technology

Research for Information Science (CENTRIS)

Logistic Modeling (L.M)

Intelligent Systems (IS)

Statistical & Survey

Methodology (SSM)

Industrial Informatics (II)

Multidisciplinary

Information Retrieval

(MIR)

Mobile Learning and

Technology (MLT)

Knowledge & Software

Engineering Research

Group (KASERG)

Emotion, Kancel &

Design Engineering

(EKDE)

COMMUNITY ENGAGEMENT

EPPM is actively conducting projects that benefit the community. Community engagement fosters social responsibility, mutual understanding, and positive societal impact.



Program "Kids Create" di Tadika Little Fairies,
Pasir Permaisuri



The National Aeronautics Resource Centre (NARC)



International Day of Mathematics (IDM)



Community Outreach Carnival with the Mawar
Complex For Community

INDUSTRIAL LINKAGES:

EPPM has strong partnerships with a wide spectrum of industries. It can enhance the practical relevance of education, increase employment opportunities, foster research and innovation, and contribute to the overall growth and development of both the academic institution and the industries.

SMART PARTNERSHIP INDUSTRIES



FACULTY PROFILE



The banner features the UnisZA logo in the top left corner, which includes the university's name in Arabic and English. Below the logo is a portrait of a woman in a hijab and a dark blazer. To the right is a photograph of the Graduate School building with a large 'UNISZA' sign and a 'GRADUATE SCHOOL' sign below it. Social media icons for Twitter, Facebook, Instagram, and YouTube are located at the bottom left of the banner, with the text 'unizaoedunmy' underneath.

NAME OF THE UNIVERSITY: UNIVERSITI SULTAN ZAINAL ABIDIN

NAME OF THE FACULTY: GRADUATE SCHOOL

NAME OF THE DEAN: ASSOC. PROF. TS. DR. KHANBAH BURYATI MOHD

EMAIL ADDRESS: khambahburi@unisza.edu.my

TELEPHONE NO (OFFICE): +60 996 0665

FACULTY WEBSITE: <https://psa.unisza.edu.my/>

FACULTY SOCIAL MEDIA: <https://www.facebook.com/psounisza/>

HIGHLIGHT OF THE FACULTY

01 Graduate School, UnisZA was established on 1 July 2007 to ensure the management of graduate studies can be done smoothly and in an orderly manner.

02 Graduate School is responsible for coordinating graduate study programs conducted at the faculty/institute level, further ensuring the development and improvement of graduate study programs at UnisZA.

03 This is in line with the University's aim to produce scholars in various scientific fields.

PROGRAMMES

34

MASTER
(RESEARCH)

28

Ph.D
(RESEARCH)

2

MASTER
(COURSEWORK)

4

MASTER
(MIXED MODE)

1

DIPLOMA
PASCA PENDIDIKAN

1 Faculty of Islamic Contemporary Studies

2 Faculty of Business and Management

3 Faculty of Law and International Relations

4 Faculty of Innovative Design and Technology

5 Faculty of Languages and Communication

6 Faculty of Medicine

7 Faculty of Health Sciences

8 Faculty of Bioresources and Food Industry

9 Faculty of Informatics and Computing

10 Faculty of Applied Social Sciences

11 Faculty of Pharmacy

12

FACULTIES

STUDENT MOBILITY PROGRAMS



TOP INTERNATIONAL STUDENTS



JORDAN

INDONESIA



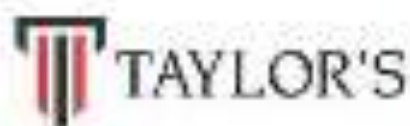
NIGERIA

PAKISTAN



YAMAN

FACULTY PROFILE



NAME OF THE UNIVERSITY: Taylor's University

NAME OF THE FACULTY: School of Biosciences, Faculty of Health and Medical Sciences

NAME OF THE DEAN: Associate Professor Dr Phelim Yong Voon Chen

EMAIL ADDRESS: Phelim.Yoon.Chen.Yoon@taylors.edu.my

TELEPHONE NO (OFFICE): +603-5622 5835

FACULTY WEBSITE: <https://www.taylors.edu.my/our-structure/academic/postgraduate-research/biosciences.html>

FACULTY SOCIAL MEDIA: <https://www.facebook.com/taylorsbiosciences> | <https://www.instagram.com/taylorsbiosciences> | <https://www.linkedin.com/company/taylorsbiosciences> | <https://www.youtube.com/channel/UC8vns1v3ag8m1w0b1y0ak0t0t0g0g> | <https://www.taylors.edu.my/our-structure/academic/postgraduate-research/biosciences.html>

HIGHLIGHT OF THE FACULTY:

Taylor's was established in 1969 as a college and achieved full university status in 2010. Our university comprises four (4) faculties, and the School of Biosciences (SBS) operates under the Faculty of Health and Medical Sciences. SBS has gained recognition both nationally and internationally for its exceptional teaching and learning initiatives. These include the implementation of a global classroom, fostering collaborations with universities in the Philippines and Thailand. Additionally, SBS has developed innovative learning objects to enhance the health sciences curriculum and facilitate multidisciplinary learning experiences for both SBS and social sciences students. The school has also been at the forefront of integrating virtual and augmented reality technologies to enhance the learning of anatomy and drug discovery.

LIST OF ACADEMIC PROGRAMMES

UNDERGRADUATE

Bachelor of Food Science (Hons)
Bachelor of Biotechnology (Hons)
Bachelor of Biomedical Sciences (Hons)

POSTGRADUATE

Master of Science
Doctor of Philosophy (Science)

STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

Taylor's University offers Global Mobility Programmes, which give students the chance to study and reside in a foreign country, enabling them to enrich their international experience and develop cross-cultural competencies. Students from any of our partner universities are eligible to participate in these programmes and study at Taylor's University. In addition to the Global Mobility Programmes, we also offer Summer Programmes that consist of short-term courses lasting between 2 to 4 weeks. The duration of each programme depends on the specific learning components and desired outcomes. These programmes are designed to provide students with valuable educational experiences within a condensed time-frame. At Taylor's University, we are deeply committed to preparing our students for a future in which they can thrive as global citizens. We recognise the importance of fostering a global perspective and equipping our students with the necessary skills and knowledge to navigate an interconnected world.



Outbound to Far Eastern University, Philippines



Outbound to Universiti Teknologi Malaysia, Malaysia



Outbound to Hirota University, Osaka, Japan

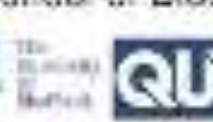
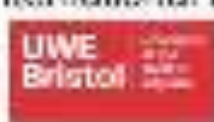


Outbound to Mahachulalongkornrajavidyalaya University, Thailand (College of Health Sciences, Mahachulalongkornrajavidyalaya University)



Outbound to Universiti Teknologi Malaysia, Malaysia

International linkages for School of Biosciences



RESEARCH STRENGTH

The School of Biosciences made remarkable strides in research excellence in 2022, showcasing its substantial contribution to various disciplinary domains such as health and medical sciences, agriculture and food security, and sustainable technologies. Presently, the school's research focus is harmonized with four (4) impact labs: food security and nutrition, medical advancement, active ageing, and digital health innovations. These impact labs serve as strategic platforms for driving impactful research and innovation in their respective fields.

- RM 4.67 million research grants
- 42 MSc and 23 PhD
- 35 journal publications in ISI/Scopus indexed
- 2 New Inventions filed for Patent and 1 Trademark



FOOD SECURITY AND NUTRITION

Build sustainable food and agriculture system to ensure food security, food safety and improve nutrition



MEDICAL ADVANCEMENT FOR BETTER QUALITY OF LIFE

Develop safe, effective and affordable methods for early diagnosis, treatment and prevention of common diseases



DIGITAL HEALTH AND INNOVATIONS

Enhance health and wellness via digital and innovative platforms



ACTIVE AGEING

Enable people to live an independent, safe and meaningful life in their golden years

COMMUNITY ENGAGEMENT / INDUSTRIAL LINKAGES

The School of Biosciences at Taylor's University has established strategic partnerships with community-industry members and professional bodies. These collaborations are aimed at creating a stimulating and supportive learning environment for our students, both within and beyond the classroom. Through these partnerships, we offer extended learning experiences that take place locally and abroad, providing our students with valuable exposure to real-world applications of biosciences.

We are dedicated to fostering strong platforms for research commercialization, enabling our students to contribute to the translation of scientific discoveries into practical applications. Additionally, we provide industrial attachment opportunities, allowing students to gain hands-on experience and develop industry-relevant skills. By sharing best practices, we ensure that our students have access to state-of-the-art teaching and research facilities, facilitating their learning, teaching and groundbreaking research endeavors in the field of biosciences.



Industry linkage with Back2Nature Regenerative Farm

Industry linkage with AstraZeneca, Malaysia



Industry linkage with D'Advance Agarwood

"Community Health Screening" CSR program



FACULTY PROFILE



NAME OF THE UNIVERSITY: Monash University Malaysia

NAME OF THE FACULTY: School of Science

NAME OF THE HEAD OF SCHOOL: Professor Emily Goh Joo Kheng

EMAIL ADDRESS: goh.joo.kheng@monash.edu

TELEPHONE NO (OFFICE): (61-6514 8167

FACULTY WEBSITE: www.monash.edu/science

FACULTY SOCIAL MEDIA:

Facebook: <https://www.facebook.com/monash/MalaysiaScience/>

LinkedIn: <https://www.linkedin.com/in/science-at-monash-university-malaysia-276>

HIGHLIGHT OF THE SCHOOL:

Monash University is Australia's largest university and a member of the prestigious Group of Eight. Monash is a global university with four local campuses throughout Australia, as well as international locations in Malaysia, Indonesia, China, Italy and India.

Monash University Malaysia, established in 1998, is Monash's third largest campus and one of Malaysia's most respected universities. We were awarded a six-star STARA rating by the Ministry of Higher Education Malaysia in 2017 and once more in 2019, cementing our position in the very top cohort of outstanding universities in the country. In 2020, we received a five-star rating for research excellence from the Malaysian Research Assessment. As a well-accrediting University, we attract students not just from Malaysia, but from all over the world with over 9800 students representing approximately 78 nationalities are currently enrolled at Monash Malaysia, supported by over 800 staff members. In 2023, Monash Malaysia celebrates 25 transformative years of making change.

The School of Science is one of seven schools at Monash University Malaysia providing undergraduate and postgraduate courses. The School has four discipline areas including Biological Sciences, Food and Physical Sciences, Medical Bioscience and Applied Data Science with approximately 800 students.

The School undertakes research to international standards and also hosts a state-of-the-art genetics facility.

ACADEMIC PROGRAMS

UNDERGRADUATE

- ◆ BACHELOR OF APPLIED DATA SCIENCE
 - ◆ BACHELOR OF MEDICAL BIOSCIENCE
 - ◆ BACHELOR OF FOOD SCIENCE AND TECHNOLOGY*
 - ◆ BACHELOR OF SCIENCE
- Majors:**
- I. Applied Microbiology
 - II. Biotechnology
 - III. Genomics and Bioinformatics
 - IV. Medicinal Chemistry
 - V. Psychology
 - VI. Tropical Environmental Biology
- ◆ BACHELOR OF SCIENCE (HONOURS)

POSTGRADUATE

- ◆ MASTER OF SCIENCE (RESEARCH)
- ◆ DOCTOR OF PHILOSOPHY

Research themes cover:

- Health Sciences
- Chemistry
- Tropical and Environmental Biology
- Food Science and Food Safety
- Genomics, Bioinformatics, Biostatistics
- Plant and Applied Biological Sciences

* Accredited by International Union of Food Science and Technology (IUFoST).

STUDENT MOBILITY

Monash offers exchange opportunities where students can study a semester or two at one of 160+ partner universities around the world.

Ethan Wong, Bachelor of Science majoring in Tropical Environment Biology and Microbiology, completed a semester at Nanyang Technological University, Singapore, and another semester at University of Warwick, UK.



School of Science PhD students Mark Gellman and Scott Lee (left) received the Global Excellence and Mobility Scholarship (GEMS), awarding their second year at Monash University, Australia.



ALUMNI

Monash has a global network of over 460,000 alumni across 180 countries who share a common bond and stay connected to the university.

Science alumni shared their professional career journeys during our 2023 Medical Bioscience Day.



INTERNSHIP

Our internship units apply university learning to the workplace with leading industry partners, integrating theoretical knowledge with practice.



RESEARCH STRENGTHS

The School of Science achieved outstanding milestones in research during the period of 2020 – 2023 despite the disruption of the COVID-19 pandemic, highlighting its dedication to research, innovation and academic excellence. Our research is supported by well-equipped facilities and a dynamic group of experienced academic staff with established research track records in five research areas that meet the demands of academic research and industrial collaboration. We are proud that we have 150 Master and PhD research graduates.

RM3.859 million in Research Grants

373 Publications

92 Publications in Top 10% Journals

88 Master and PhD Students

5 ITEX Gold Awards, 5 ITEX Silver Awards, 1 ITEX Bronze Award

12 Research Patents (3 patents granted, 8 in progress)

Research areas of expertise of the School of Science

MONASH IS RANKED

#24
IN THE
WORLD FOR
ANATOMY
AND
PHYSIOLOGY

#33
IN THE
WORLD FOR
LIFE SCIENCES
AND MEDICINE

#39
IN THE
WORLD FOR
CHEMISTRY

TOP 100
IN THE
WORLD FOR
BIOLOGICAL
SCIENCES

TOP 100
IN THE
WORLD FOR
ENVIRONMENTAL
SCIENCES

QS World University Rankings by Subject 2023



CHEMISTRY

- Analytical Chemistry
- Hydrogels
- Medicinal Chemistry
- Nanotechnology
- Natural and Bioactive Products



FOOD AND PLANT SCIENCES

- Food Processing
- Food Technology
- Micronutrients
- Oils and Fats
- Product Development



GENOMICS AND BIOINFORMATICS

- Agrigenomics
- Conservation Genomics
- Immunogenomics
- Population Genomics
- Sequencing
- Biostatistics



HEALTH SCIENCES

- Microbiome
- Microbial Pathogenesis
- Proteomics
- Venom and Toxins



TROPICAL AND ENVIRONMENTAL BIOLOGY

- Ecology
- Invertebrates
- Biodiversity and Bioprospecting
- Microalgae
- Microbes as Biocontrol Agents



Scan to view the
School of Science
Capabilities document

COMMUNITY ENGAGEMENT/ INDUSTRIAL LINKAGES

The School of Science offers a strategic university-industry-community engagement to create interest and promote science to the public. We offer undergraduate students service learning opportunities with non-governmental organisations (NGO) to be involved in the provision of clinical, health, environmental, and social care to needy individuals. We actively connect with industry partners to foster innovation as a prestigious research university in problem-solving, developing talent and skills, and creating collaborative opportunities.

Launch of the Pacific Sequel/Ae System as part of the Malaysian BioGenome Project where we are working with the National Wildlife Forensic Laboratory and the Department of Wildlife and National Parks (PERHILITAN) to sequence high quality reference genomes for endemic Malaysian species.



Industry judges for alcohol product development.



Visit of the Malaysian Goose Board (MGB) members.



The Working Menpower, Save the Planet!
collaborate with Persatuan Melayu Kg Airngok, Seremban, PERANGGAS as part of Service Learning Malaysia (SLM)

Donation drive for the House of Love.



Book donation drive.



THANK YOU

FACULTY PROFILE



NAME OF THE UNIVERSITY: Universiti Malaysia Sarawak (UNIMAS)

NAME OF THE FACULTY: Faculty of Resource Science and Technology (FRST)

NAME OF THE DEAN: Associate Professor Dr Samuar bin Mohamad

EMAIL ADDRESS: msamuar@unimas.my

TELEPHONE NO (OFFICE): +603058318510304

FACULTY WEBSITE: <https://www.frst.unimas.my/>

FACULTY SOCIAL MEDIA: <https://www.facebook.com/FRSTOfficial/> | <https://www.instagram.com/frstunimas/>

HIGHLIGHT OF THE FACULTY

The Faculty of Resource Science and Technology (FRST) was established in July 1991, as one of the two pioneering faculties of UNIMAS. FRST offers Bachelor of Science programmes specialising in natural resource science, technology and management. These programmes are designed based on the Future Ready Curriculum (FRC) framework that highlights three core elements: (i) curriculum structure, (ii) learning and teaching delivery, and (iii) assessment. The curriculum structure is constructively aligned to provide educational experiences relevant to the 21st century world that youth face, as well as to prepare the graduates with knowledge, skills, and competencies to contribute to society. FRST also operates in accordance to the Sustainable Development Goals (SDGs), also known as the Global Goals, as adopted by the United Nations (2015).

FRST currently offers six undergraduate programmes and four postgraduate programmes. All six programmes offered by the faculty are certified and have received full accreditation from the Malaysia Qualifying Agency (MQA) and they are designed in-line with Industrial Revolution 4.0 (IR 4.0) elements. Our latest programme, the Agrotechnology Programme, is conducted using the Industry mode (2u2i) structure, i.e. students will undertake courses at the university for three years (3u) and one year (1i) in the industry. Postgraduate (MSc and PhD) programmes by research or coursework are also offered by the faculty. The various programmes cover a wide range of specialisations that cover a broad array of topics dealing with the science and management of the aquatic, plant and animal resources, as well as focusing on biotechnology, agrotechnology and chemistry of natural resources that are abundant. These present the uniqueness of Sarawak and Borneo as a whole.

LIST OF ACADEMIC PROGRAMMES:

6 UNDERGRADUATE PROGRAMMES

- Resource Biotechnology (UW-6-585-001)
- Resource Chemistry/Chemistry (UW-6-442-001)
- Aquatic Resource Science and Management (UW-6-421-001)
- Plant Resource Science and Management/Plant Science (UW-6-421-002)
- Animal Resource Science and Management (UW-6-421-003)
- Agrotechnology (UW-6-501-001)

4 POSTGRADUATE PROGRAMMES

- Doctor of Philosophy / By Research
- Master of Science / By Research
- Master of Environmental Science (Land Use and Water Resource Management) / By Coursework
- Master of Science in Sustainable Aquaculture / By Coursework



MASTER OF SCIENCE IN SUSTAINABLE AQUACULTURE

STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

FRST have been actively conducting many students exchange and mobility programmes over the years:

Shibaura Institute of Technology, Japan - Global PFI Program (UKIM65-Shibaura)



Copenhagen University, Denmark (SLISE)



Chungnam National University, Korea



충남대학교

CHUNGNAM NATIONAL UNIVERSITY

205-384-1114 (팩스) 서울구미로152 29 | TEL: 342 521-5114, 211 / 00 Chungnam-ro 291, Yuseong-gu, Daejeon, 305-704, Korea

RESEARCH STRENGTH

The Faculty of Resource Science and Technology achieved remarkable milestones in 2022. These include:

- RM 2.28 in Research Grant
- 64 Web of Science Publications
- 85 Scopus Indexed Publications
- 50 PhD Students
- 289 MSc Students
- 30 Research Projects



INDUSTRIAL LINKAGES:



MOU Signing Ceremony with SAU (Bangladesh).



Collaborative research with Fm Farm Solutions Sdn Bhd.



MOU Signing Ceremony with HOKI Drone Academy Sdn Bhd.

COMMUNITY ENGAGEMENT:



Community Service/SULAM FIRST – Universitas Tanjung Pura



Juniore Scientist Programme



Science Awards Programme

FACULTY PROFILE



UNIVERSITI SAINS ISLAM MALAYSIA
UNIVERSITY OF ISLAMIC STUDIES
11800 BANGI, SELANGOR, MALAYSIA



NAME OF THE UNIVERSITY: UNIVERSITI SAINS ISLAM MALAYSIA

NAME OF THE FACULTY: FACULTY OF SCIENCE AND TECHNOLOGY

NAME OF THE DEAN: PROFESSOR TS. DR. MOHD KIMAR NIZAM HJ. MOHAMMAD ISA

EMAIL ADDRESS: dekanfak@uisi.edu.my

TELEPHONE NO (OFFICE): 03 738 9364/6339

FACULTY WEBSITE: <http://fak.uisi.edu.my/>

FACULTY SOCIAL MEDIA: <https://www.facebook.com/officialfakuisi> : http://www.instagram.com/fak_uisi/



<https://www.facebook.com/officialfakuisi>



http://www.instagram.com/fak_uisi/



https://twitter.com/fak_uisi



<https://www.youtube.com/channel/UC...>

HIGHLIGHT OF THE FACULTY:

The Faculty of Science and Technology (FST) was established on 1 December 2003 in an effort to produce science and technology experts in various critical areas, with the objective of making Malaysia a developing and progressive Islamic State. Therefore, FST provides opportunities for SPM (O' Level) students from Religious School Schools and Pre-University Centers to further their studies in science and technology as well as fardu ain. This opportunity leads to a paradigm shift among Muslims in Malaysia. This shows that the inclusion of children to Religious School Schools does not restrict them from taking courses other than religious courses.

List of Academic Programmes

- Undergraduates**
- Bachelor of Science with Honors (Food Biotechnology)
 - Bachelor of Science with Honors (Actuarial Science and Risk Management)
 - Bachelor of Science with Honors (Industrial Chemical Technology)
 - Bachelor of Science with Honors (Applied Physics)
 - Bachelor of Computer Science with Honors (Information Security and Assurance)
 - Bachelor of Health Industry Technology with Honors

- Postgraduates**
- Master of Science
 - Master of Science (Actuarial Science)
 - Master of Science (Financial Mathematics)
 - Master of Science (Food-omics and Food Technology)
 - Master of Science (Risk Management)
 - Master of Computer Science (Information Security and Assurance)
 - Doctor of Philosophy (Science and Technology)

RESEARCH STRENGTH

BIDANG TUJAHAN PENYELIDIKAN



STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP



MOBILITY OUTBOUND: A third year student from Food Biotechnology programme in Faculty of Science and Technology has participated in the 1st International Student Leader Meeting on 21 - 24 Nov 2022 at Universitas Diponegoro, Semarang Indonesia.



MOBILITY OUTBOUND: Fayzah Addawiyah Gthman is a student from Actuarial Science and Risk Management she has been selected for participation in Undergraduate Exchange Program (Global UGRAD) from 12 January till 11 May 2023 at Kent State University, Ohio, USA.



MOBILITY OUTBOUND: 3 students of Applied Physics have participated in Science Silaskom International Summer School at Faculty of Science, Silpakorn University in Thailand on 11-17 June 2023.



MOBILITY OUTBOUND: : A final year Computer Science participated the 11th Edition of the University Scholars Leadership Symposium United Nations at Bangkok, Thailand from 1-4 August 2023. This program involves many participants from several countries and focuses on leadership, networking, communication and deepening their knowledge in a variety of aspects.

COMMUNITY ENGAGEMENT

INDUSTRIAL LINKAGES:

KERJASAMA INSTITUSI



E-RI ACADEMY



Dalam proses kerjasama



FACULTY PROFILE



او نيو زسي تي مليسيا قايغ
UNIVERSITI MALAYSIA PAHANG



Scholar



Edu Channel



NAME OF THE UNIVERSITY: Universiti Malaysia Pahang (UMP)

NAME OF THE FACULTY: Faculty of Industrial Sciences and Technology (FIST)

NAME OF THE DEAN: Assoc. Prof. Dr. Saiful Karimuddin bin Marzuki (Saiful)

EMAIL ADDRESS: saiful@ump.edu.my

TELEPHONE NO (OFFICE): +60147115844

FACULTY WEBSITE: www.fist.ump.edu.my

FACULTY SOCIAL MEDIA: <https://www.facebook.com/fist.ump>

<https://www.youtube.com/channel/UC6v1396>

HIGHLIGHT OF THE FACULTY:

The Faculty of Industrial Science and Technology (FIST) Universiti Malaysia Pahang (UMP) was established on 1 May 2001. FIST specializes in four main areas of expertise and study i.e. (i) Industrial Chemistry, (ii) Industrial Technology, (iii) Material Technology, and (iv) Occupational Safety and Health, offering four qualified programmes from diploma to doctoral degrees.

FIST's graduate employability index received an impressive 100% scores at four fields of study according to the Malaysian Ministry of Higher Education's 2022. The lecturers and researchers actively engage in teaching and research activities, securing internal, national, industrial, and international funding in total of MYR 8.2 million in 2022. Seven FIST lecturers were listed in the Top 2% Scholar by Elsevier. Two areas of expertise i.e. Material Sciences (ranked 351-400) and Chemistry (ranked 451-500), were recognized in the QS World University Ranking by Subject. Furthermore, Physics Sciences had been ranked 511-621 by Times Higher Education (THE) in the World University Ranking by Subject.

New knowledge generated through research activities is actively disseminated across various platforms, including collaborations with industries, local communities, and international communities through activities such as the Global Classroom and Community Social Responsibility (CSR) initiatives. Furthermore, through the development of research outputs, two FIST researchers have established a start-up company (SynLife Sci Sdn Bhd) and a startup company (GlucoStar International Sdn Bhd) to further explore the potential and applications of the generated knowledge.

LIST OF ACADEMIC PROGRAMMES:

UNDERGRADUATE

- Diploma in Occupational Safety and Health
- Diploma in Industrial Sciences
- Bachelor of Applied Science in Industrial Chemistry with Honours
- Bachelor of Applied Science in Industrial Biotechnology with Honours
- Bachelor of Applied Science in Material Technology with Honours
- Bachelor of Occupational Safety and Health with Honours
- Bachelor of Applied Science in Industrial Biotechnology with Honours (Dual Degree UoM/ARU, Kazakhstan)

POSTGRADUATE

A. Coursework / Mixed Mode

- Master of Science Occupational Safety and Health (Coursework)
- Master of Science Chemical Analysis (Mixed Mode)

B. Research Mode (Master & PhD)

- Occupational Health and Safety
- Advanced Materials
- Sensor Technology
- Food Processing
- Food Technology
- Physics
- Chemistry
- Fine and Specialty Chemicals
- Industrial Chemistry
- Formulation Technology
- Molecular and Structural Biology
- Biochemical Science

CONTACT US:

Deputy Dean
Academic & Student Affairs
DR. MOHD FADLI BIN HARIRI ASHAR
mohfadi@ump.edu.my



STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

UNIVERSITAS WIDJAYANEGARA (UNW), INDONESIA (Inbound Mobility)	KAZAKHSTAN AGRARIAN NATIONAL RESEARCH UNIVERSITY, KAZAKHSTAN (Dual Degree)
HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY, CHINA (Inbound Mobility)	CHUNGNAM NATIONAL UNIVERSITY, KOREA (Outbound Mobility)
UNIVERSITAS MERDEKA SURABAYA, INDONESIA (Inbound Mobility)	SHEFFIELD HALLAM UNIVERSITY, KAZAKHSTAN (Outbound Mobility)
UNIVERSITAS WIDJAYANEGARA MAGELANG, INDONESIA (Inbound Mobility)	ENGLISHE HOE FERISSAM NATIONAL UNIVERSITY, KAZAKHSTAN (Inbound Mobility)
UNIVERSITAS KRABAH WIDYAKARYA, INDONESIA (International Summer School Science-Culture)	UNIVERSITAS BANGWA LAMPUNG, INDONESIA (Summer School)
UNIVERSITAS INDONESIA (SR & Outbound Mobility)	PRINCE OF SONGKHA UNIVERSITY, THAILAND (Outbound/ Inbound Mobility & Staff Exchange)
MINGSHI UNIVERSITY, CHINA (Inbound Mobility & Staff Exchange)	WOLU ABANT OFFSHORE UNIVERSITIES, THAILAND (Staff Exchange & Training)
SAKURA UNIVERSITY, THAILAND (Outbound Mobility)	LANZHOU UNIVERSITY OF SCIENCE, CHINA (Inbound Mobility)

RESEARCH STRENGTH



SCAN THE CODE

- Research Network
- Drug Discovery & Degradation
- Smart Technology
- Occupational Safety & Health

CONTACT US:

Deputy Dean
Research & Postgraduate Studies
Tc. DR. AZIZAH BINTI RAHMI
azizaham@ump.edu.my



COMMUNITY ENGAGEMENT



INDUSTRIAL LINKAGES:



FACULTY OF INDUSTRIAL SCIENCES AND TECHNOLOGY

Universiti Malaysia Pahang
 Jalan Ayer Kuning, Tunjok, Yangkai
 26100 Kuantan,
 Pahang, Malaysia



FACULTY PROFILE



NAME OF THE FACULTY

FACULTY OF MATHEMATICS AND
NATURAL SCIENCES (FMNS)

NAME OF THE DEAN

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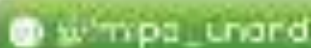
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WEBSITE/URL

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SOCIAL MEDIA



fmipa_unand



FMIPA UNAND

INDICATOR OF THE FACULTY

The Faculty of Mathematics and Natural Sciences (FMNS) at Universitas Andalas was established on 7 September 1956 but was closed from 1968 to 1991 due to regional upheaval. The FMNS reopened in 1992 with the establishment of the Department of Biology, followed by the Department of Chemistry in 1995. Additionally, the Department of Mathematics and the Department of Physics were created in 1998. As indicated in numerous numerous published articles and research funding, the academic staff of FMNS is highly active in research. The FMNS consistently contributes the most to the total qualifications of Universitas Andalas. Six out of the top ten Scopus H-index scores in Universitas Andalas are from the FMNS. Furthermore, two staff members from FMNS belong to the top 1% Scopus H-index of all researchers in Indonesia. On average, FMNS staff receive around USD 500K in domestic and foreign funds annually for the advancement and development of science, technology, and innovation. Currently, FMNS has 33 Research and Education Laboratories, a herbarium with 165,000 plant specimens, which is the most extensive collection among universities in Indonesia. It also houses the Zoology Museum, Arboretum, Green House, and has 150 hectares of Educational and Research Forest.



LIST OF ACADEMIC PROGRAMME

UNDERGRADUATE

BIOLOGY
CHEMISTRY
MATHEMATICS
PHYSICS

POSTGRADUATE - MASTER

BIOLOGY
PHYSICS

CHEMISTRY
MATHEMATICS

POSTGRADUATE - PhD/PhD by RESEARCH FOCUS AREA

- Toxicology
- Ecology
- Microbiology
- Genetics and Biomolecular
- Structure and Development
- Physiology
- Earth and Atmospheric Physics
- Meteorological Physics
- Instrumentation Physics
- Nuclear Physics
- Theoretical and Computational Physics
- Medical Physics
- Organic Chemistry
- Biochemistry
- Physical Chemistry
- Analytical Chemistry
- Material Chemistry
- Theoretical and Computational Chemistry
- Algebra
- Analysis and Geometry
- Combinatorial Mathematics
- Applied Mathematics
- Statistics and Probability Theory



RESEARCH STRENGTH

The FMNS achieved remarkable milestones in research, innovation and academic excellence during 2019-2022.

26.23 Million Rupiah (1.76 Million USD) Research Grant

78 PhD Graduates

645 Research Projects

14 Research Patents

339 Publication in Reputable International Journals

BIOLOGY

Research
Genetic Engineering
Plant Ecology
Microbiology
Evolutionary Biology

CHEMISTRY

Environmental
Nanotechnology
Inorganic Chemistry
Supramolecular Chemistry
Polymer Chemistry

MATHEMATICS

Algebra
Topology
Differential Equations
Applied Mathematics
Statistics
Combinatorics

PHYSICS

Quantum
Astrophysics
Biophysics
Nuclear Physics
Particle Physics
Cosmology



STUDENT ACHIEVEMENTS

- 01 — 2020: Favorite champion in National Student Science Week (PNSW)
- 02 — 2021: Bronze medal and honorable mention in Mathematics and Natural Sciences National Olympiad
- 03 — 2021: 1st winner in National Photography Competition
- 04 — 2021: Gold medal in National Student Science Week (PNSW)
- 05 — 2022 & 2023: Bronze Medal in Mathematics and Natural Sciences National Olympiad
- 06 — 2023: bronze medal in Mathematical Analysis and Geometry Day (Math-G) 4th Competition

STUDENT MOBILITY/SUMMER CAMP/INTERNATIONAL STUDENT

- 07 — In-bound from Tohoku University, Japan
- 08 — Out-bound to Prince Songkla University, Thailand by Indonesian International Student Mobility Awards (ISMA)
- 09 — Out-bound to Birmingham University, Nottingham
- 10 — Out-bound to Essex University, UK
- 11 — Summer School to Institute of Mathematics, Vietnam Academy of Science Technology (VAST), Hanoi
- 12 — International student from Myanmar



COMMUNITY ENGAGEMENT/ INDUSTRIAL LINKAGES



MoU MoU with community with the local government of Padang



Community engagement with the local government of Padang and the local community



MoU MoU with community with the local government of Padang and the local community



Community engagement with the local government of Padang and the local community

T H A N K Y O U

FACULTY PROFILE



NAME OF THE UNIVERSITY: Universitas Palangka Raya (University of Palangka Raya, UPR)

NAME OF THE FACULTY: Faculty of Mathematics and Natural Sciences

NAME OF THE DEAN: Dr. Siti Saranyati, M.Si

EMAIL ADDRESS: fmipa@fmipa.upr.ac.id

TELEPHONE NO (OFFICE): -

FACULTY WEBSITE: <http://fmipa.upr.ac.id/>

FACULTY SOCIAL MEDIA: <https://www.facebook.com/fmipa.upr.2> <https://www.instagram.com/fakultasmipaupr>

HIGHLIGHT OF THE FACULTY:

The Faculty of Mathematics and Natural Sciences, or FMIPA for short, was established in 2017. The FMIPA learning concept includes a combination of mathematics, biology, physics and chemistry materials. This course is constantly evolving and also includes biotechnology and astronomy. FMIPA focuses on exploiting the natural potential of Central Kalimantan.

The Faculty of Mathematics and Science at Palangka Raya University has five study programs: Physics, Chemistry, Biology, Mathematics, and Pharmacy. The study program of Pharmacy FMIPA, University of Palangka Raya was officially launched on Thursday 13th July 2023.

The career prospects are also very good for MIPA majors. So that MIPA graduates can be active in various fields. Graduates have a wide range of career opportunities in their field of study. For example, the information technology sector, finance, and research. MIPA graduates can work in various agencies, individuals, BUMN, BUMD, institutions as well as the government sector.

UNDERGRADUATE

- Chemistry
- Biology
- Physics
- Mathematics
- Pharmacy

FACILITIES



Faculty Building



Theater Lecture Hall



PPIIG Building



Merah Putih Integrated Building



Peat Techno Park (PTP)

Research Activities:

Faculty Mathematics and Natural Sciences (FMPS) has many research activities in Chemistry, Biology, and Physics Program.



STUDENT'S ACHIEVEMENTS

1. Second Runner Up in the National Scientific Writing Contest in 2020
2. First Runner Up in LKTI 9th Sultan Hassan Science Competition 2020
3. Third Runner Up Winner of 6th Sultan Hassan Science Competition 2020
4. First Runner Up in WINTEX in 2019
5. First Runner Up in Gravity Writing Competition in Indonesia at UIN Matassar in 2019
6. Best Participant of Publishing Student Selection Phase I LLDKTI Region XI 2021
7. Second Runner Up and the Best Presenter of LKTI MIPA in the National Scientific Competition 2015
8. Second Runner Up in Chemistry LKTI Cases 2021
9. Silver Medal WINTEX 2021 Indonesia; Invention Day 2021 World Invention And Technology expo



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Nery Kumbusti (0831 4326 5665)

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FACULTY PROFILE



Universitas Airlangga
Rectorate Building



Public Health Faculty
Universitas Airlangga

NAME OF THE UNIVERSITY: Universitas Airlangga Surabaya (Airlangga University of Surabaya)

NAME OF THE FACULTY: Fakultas Kesehatan (FKW)

NAME OF THE DEAN: Dr. Sari Mahandaz, M.Kes

EMAIL ADDRESS: dekan@fkwa.unair.ac.id

TELEPHONE (NO) OFFICE: 031-5120048

FACULTY WEBSITE: <http://www.fkwa.unair.ac.id>

FACULTY SOCIAL MEDIA: <https://www.facebook.com/fkwa.unair> / <https://www.instagram.com/fkwa.unair> / <https://www.youtube.com/channel/UC6t3e4M1GzYV2sVTRk0A4w>

HIGHLIGHT OF THE FACULTY:

Faculty of Public Health, Airlangga University was established in 1964 but after 11 years various studies were started the FKW building was officially established after the issuance of the Decree of the Minister of Education and Culture of the Republic of Indonesia Number: 0372/Cr/1993 (p. No. 7553/N6.1/L/1993 on 8 September 1993) at Campus C Mulyorejo Surabaya.

FKW Unair was a center of Excellence for Independent Learning Campus Merdeka (CoE-IBW) which has collaborated and partnered with several Study Programs of other universities or universities with various student exchange program activities with domestically and abroad, research programs with extended industry/hospitals and others, entrepreneurial and entrepreneurship programs and independent project programs with the community. In addition, the faculty was one of the faculties that used basic Science Index articles which is quite productive. In fact, the research budget in October 2022 has been the Science publication budget even though the distribution is still in Scopus/ISI/journals.

The performance achievements of the Faculty of Public Health, Airlangga University support and encourage the acceleration of the Sustainable Development Goals (SDGs) in Indonesia. This achievement covers the fields of research, education and community service with synergizing in the 17 SDG goals.

LIST OF ACADEMIC PROGRAMME:

UNDERGRADUATE PROGRAM

- Public Health
- Nutrition

POSTGRADUATE PROGRAM

- Public Health
- Administration and Health Policy
- Occupational Health and Safety
- Environmental Health
- Epidemiology
- Double Degree Master of Occupational Health and Safety - Master of Global Public Health Griffith University

DOCTORAL PROGRAM

- Health Sciences



Faculty of Public Health are holding a double degree program with Griffith University Australia since 2019



STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

We offer a global student exchange and supervision experience based on maximizing potential student. Pauline Cluput, a semester 6 student of the Faculty of Public Health, managed to get a nomination as a recipient of the 2021 Indonesian International Student Mobility Awards (IEMAs). Pauline chose the University of Glasgow, Scotland as the campus she was going to

We also had supervisory experience, namely Community Public Health Field Training (CPHFT) activities to Khemarat District with the public health faculty of Mahidol University Thailand as a form of participation for students in strengthening cooperation between Indonesia and Thailand in the field of public health. The activity was represented by Prof. Dr. Nyoman Anita Darmayanti, M.S., as Vice Dean II, Dr. Ardian Iskandar, dr. M.Kes as Vice Dean I, and Dr. Muj Sulistyowati, SKM, MPH as KPS Bachelor of Public Health and a student from CPHFT.



RESEARCH STRENGTH:

FKM Unair is one of the faculties with the highest publication contribution to Universitas Airlangga. This is supported by its many research groups headed by FKM Unair with various areas of expertise such as:

- Center of Health & Nutrition Education, Counseling, and Empowerment : is an interdisciplinary consortium of researchers who study how to improve the wellbeing of people in various stage of life through health and nutrition education, counseling and empowerment.
- Tobacco control: focusing on reducing tobacco use in order to reduce the number of active smokers in Indonesia through various kinds of outreach and dissemination of research results on smoking.
- ACB-PP Health Policy Research Group: ACB-PP is a multidisciplinary research group with collaborators from various disciplines. This research group actively conducts quantitative, qualitative, and mixed-design research related to health policy starting from the political process, policy design, and considerations in the economic, social, and psychological fields.
- Center for Patient Safety Research: is a research group whose mission is to fulfil human rights as patients by improving patient safety in Indonesia through education and research. And others.



COMMUNITY ENGAGEMENT/INDUSTRIAL LINKAGES:

The Faculty of Public Health collaborates with the community in the form of social movements and a series of community services (service universities - returns - to the community) in supporting the achievement of the SDGs with the hope that they will be able to create healthy and prosperous lives and improve and support the university's teaching and learning process and university research.



The Arana Kasih program was held for local children at Dampiran Village.



Education about prevention of drugs abuse at Madrasah Alyon Al-Hidayah Karangas Island, Sumba



Faculty of Public Health Uinr Masters students share about branding product MSME food sanitation hygiene at Kangean Island

Organizing Training of Trainers (TOT) activities of cadre training with the theme "Practice of Giving KPMSP in Semampir sub-district with Gagah Conscience Indonesia (GKI)



THANK YOU

FACULTY PROFILE



Universitas Islam Malang
(University of Islam Malang)



NAME OF THE UNIVERSITY: Universitas Islam Malang (University of Islam Malang)

NAME OF THE FACULTY: Fakultas Matematika dan Ilmu Pengetahuan Alam (Faculty of Mathematic and Natural Science)

NAME OF THE DEAN: Dr. Dra. Ari Hayati, N.P

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FACULTY WEBSITE: mpa.unisma.ac.id

FACULTY SOCIAL MEDIA: https://www.instagram.com/fakultasmpa_unisma/
<https://www.youtube.com/channel/UC5Yyk23mzotIKJyRlTJaaQvdxw>

HIGHLIGHT OF THE FACULTY: Faculty of Mathematics and Natural Sciences (FMIPA) among the 10 faculties of Unisma was founded on December 15, 1988 on the basis of the need for faculties that teach basic sciences to support applied sciences within the Islamic University of Malang (UNISMA).

FMIPA UNISMA academics are very active in research and have obtained research funding from the Ministry of Education and Culture as well as Grant Matching Fund. Academics of FMIPA UNISMA have produced herbal products from several plants of the Qur'an as the realization of Islamic internalization. Herbal products are expected to be able to solve health problems.

At present, FMIPA UNISMA has 1 Matching Fund, a laboratory with various types of orchids developed through Plant Tissue Culture with Nanobubbles technology. Working with industry, FMIPA UNISMA strives to help strengthen the industry through research conducted by academics.

LIST OF ACADEMIC PROGRAMMES:

UNDERGRADUATE: Biology

STUDENTS EXCHANGE, MOBILITY PROGRAMME, SUMMER CAMP:

We provide a distinctly international inbound student exchange program that is built around following students' interests. The range of cross-disciplinary courses available to incoming and outgoing students includes anything from language and culture, on campus to a minor Area Studies and Technology courses.

In addition, our students participate in programs that take them abroad. These programs enhance resources, produce profound experiences, and build personal development, leadership skills, cultural awareness, networking, problem-solving, and communication skills.

Inbound Program of Various College Kampus Merdeka (P4M)



Inbound from: Hasanudin University, Nusa Cendana University, Muhammadiyah University of East Kalimantan, Gorontalo State University, Haluodda University, University of West Sulawesi

Outbound Program of Various College Kampus Merdeka (P4M)



Outbound to: Firdaus University, Muhammadiyah University



Global Learning and Research Program Teaching (MTCU)



Global Learning and Research Program Teaching (MTCU)

RESEARCH STRENGTH

During the years 2020-2021, the FMIPA UMSMA accomplished notable research

SCIENCE INNOVATION AND ENVIRONMENTAL MANAGEMENT MODEL

1. Climate change and environmental conservation (sustainability)	2. Map of Natural Resources and Local Wisdom
Climate Change and Sustainability of local Livelihood Communities	GIS Technology and remote sensing in natural resource inventory
Socio-economic factors and environmental sustainability	Ecotourism and Ecological/Technological monitoring of natural resources
The power of agricultural field on farmers life	Development of production technology in fishpond
GIS Application for Conservation of Natural Resources	GIS Technology and Remote Sensing in Ecosystem Area Design
Resilience and infrastructure development	Ecotoxicology as an effort to preserve the biodiversity of fish and land
	Evolution of microbes in the environment for disease cycles, health remediation, associations with high plant and animals at high and average
	Development of food products



Trained data validity in Oekology Laboratory

COMMUNITY ENGAGEMENT & INDUSTRIAL LINKAGES :

The FMIPA UMSMA serves as a focal point for projects that create strategic university-industry-community engagement partnerships. The public inputs and provides the university's knowledge as well as training and learning activities. For an example of FMIPA UMSMA's involved reach, we primarily centered the university's resources to the public through various lines of loc. and community.



MoU signing with CV Matarsusun



MoU signing with CV Geyra Jember & UMSMA



Training of Child Tissue Culture with Local District



Research/Project collaboration with CV Matarsusun

FACULTY PROFILE

Logo of the University



Dean's Photo



University/Faculty Building



NAME OF THE UNIVERSITY: Pskaz University

NAME OF THE FACULTY: Faculty of Mathematics and Natural Sciences

NAME OF THE DEAN: Asep Dery, S.Kom, M.Sc., Ph.D.

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FACULTY WEBSITE: <http://pskuz.ac.id/>

FACULTY SOCIAL MEDIA: http://www.instagram.com/pskuz_unpak/; <https://www.facebook.com/pskuzunpak/>

HIGHLIGHT OF THE FACULTY:

Widan :

Becoming a Faculty of Mathematics and Natural Sciences that is Superior, Independent and Has Character in the Field of Mathematics and Natural Science Internationally in 2033.

Mission :

- Organizing higher education in the MIPA field that can pioneer the development of science (science) and technology.
- Conduct lecture and student research with adequate quantity and quality and be able to answer developing global issues
- Carry out community service for lecturers and students with adequate quantity and quality in order to popularize science and technology as an effort to educate the life of a quality-oriented nation
- Cooperate with the private sector and government, domestic and foreign in the development of education and research as well as the application of science and technology.

LIST OF ACADEMIC PROGRAMMES:

UNDERGRADUATE

Biology
Chemistry
Mathematics
Computer Science
Pharmacy

POSTGRADUATE

STUDENTS EXCHANGE/ MOBILITY PROGRAMS/ SUMMER CAMP:



Our Mathematic Lecturer with FAST UTM Students



RESEARCH STRENGTH

- Development and Management of Potential Natural Resources for Sustainable Food and Medicine
- Community Empowerment Based on Environmental Governance and Sustainable Life
- Environmentally Friendly and Sustainable Cultivation Studies of Plants, Animals, Microorganisms
- Problem Solving Through Mathematical Modeling, Finance, Economics, Industry and Simulation
- Smart Systems Based on IoT and Multimedia, Multipatform Based on Local and Nation/Wisdom
- Technology for Utilization of Medicinal Materials and Evaluation & Side Effects of Drug Use

COMMUNITY ENGAGEMENT



COMMUNITY ENGAGEMENT



INDUSTRIAL LINKAGES



Public Lecture with PT. ESPI INDONESIA



Public Lecture with GOOGLE DEVELOPER GROUPS

FACULTY PROFILE



Institut Teknologi Bandung (ITB)
Bandung Institute of Technology
Indonesia



Faculty of Mathematics and
Natural Sciences (FMIPA)

FMIPA-ITB



Garasha ITB Main Campus



Jatirungga ITB Campus



Gresik ITB Campus



Faculty Administrative Building (Building 10) Floor,
Jalan Gandaria 10, Bandung, West Java, Indonesia 40132

NAME OF THE UNIVERSITY: Institut Teknologi Bandung (Bandung Institute of Technology, ITB)

NAME OF THE FACULTY: Faculty of Mathematics and Natural Sciences (FMIPA)

NAME OF THE DEAN: Prof. Dr. Mulyu Supratomo

EMAIL ADDRESS: dekan.fmipa@itb.ac.id

TELEPHONE NO (OFFICE): +62 22 2515002

FACULTY WEBSITE: <https://fmipa.itb.ac.id/>

FACULTY SOCIAL MEDIA: [FMIPA-ITB](#) [@FMIPA-ITB](#) [fmipa@itb_official](#) [fmipa-itb](#)

HIGHLIGHT OF THE FACULTY:

ITB has been consistently recognized as Indonesia's premier STEM-focused academic institution since its establishment in 1920. The Faculty of Mathematics and Natural Sciences (FMIPA) is the oldest and leading faculty in Indonesia in the field of mathematics and natural sciences. It was established on October 6, 1947, under the name *Faculteit van Exacte Wetenschap*. On September 22, 1948, the name changed to *Faculteit van Wiskunde en Natuur Wetenschap*. In 1950, it became *Fakultas Ilmu Pengalshuan dan Ilmu Alam (FIPA)*, and in 1972, it changed to *Fakultas Matematika dan Ilmu Pengalshuan Alam (FMIPA)*. Currently, the faculty offers undergraduate and graduate programs in various fields of study, including mathematics, physics, chemistry, astronomy, actuarial science, science education, computational science, nuclear science and engineering, and science teaching.

FMIPA has been maintaining its vision to become a leading faculty, pioneering the advancement of mathematics and sciences, and contributing to national prosperity. This vision is manifested in its mission:

- Conducting high-quality education in mathematics and sciences to produce graduates with strong character and global competitiveness
- Conducting high-quality and cutting-edge research in mathematics and sciences
- Conducting public services and community empowerment through faculty expertise for national welfare

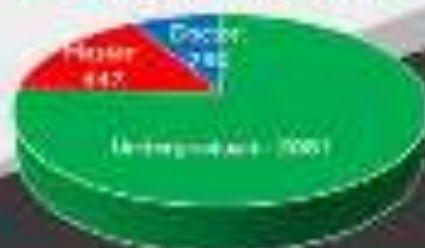
20 ACADEMIC PROGRAMS

Undergraduate	Master (by Course & by Research)	Doctor
Actuarial Science	Actuarial Science	Astronomy
Astronomy 	Astronomy	Chemistry
Chemistry 	Chemistry	Mathematics
Mathematics 	Mathematics	Physics
Physics 	Physics	Nuclear Engineering
	Teaching in Chemistry	
	Teaching in Mathematics	
	Teaching in Physics	
	Computational Science	
	Nuclear Science & Engineering	

16 RESEARCH DIVISIONS

- Astronomy • Physics of Earth and Complex Systems
- Physics of Electronic Material • Physics of Magnetism and Photonics
- Nuclear Physics and Biophysics • Theoretical High Energy Physics
- Instrumentation and Computational Physics • Biochemistry
- Analytical Chemistry • Inorganic and Physical Chemistry
- Algebra • Analysis and Geometry • Combinatorial Mathematics
- Industrial and Financial Mathematics • Statistics

STUDENT BODY 2022 - 2023



Faculty	Count
Professors	51
Assoc. Prof.	62
Lecturers	76
Assoc. Prof.	33

RESEARCH & ACADEMIC COLLABORATION

FMIPA ITB maintains research and academic collaboration with various universities and institutions in the regional and global areas involving faculty members and students as well, among others with those from Malaysia, Turkey, South Africa, Italy, Russia, the UK, Japan, Netherlands, Australia, France, Lebanon, Thailand, Chile, USA, China, Saudi Arabia, South Korea, India, Germany, Spain, Austria, UAE, Canada, Iran, Poland, Belgium, the Philippines, Slovakia, Norway, Taiwan, Switzerland, etc.

PUBLICATION (Jan. 2020 – Mid Jul. 2023)

Q1 377
Q2 276

STUDENT MOBILITY



Undergraduate Internship Program with Korea Advanced Institute of Science and Technology (KAIST)



Student Exchange Program with the University of Electro-Communications, Japan



Sustainable Life & Society, Mahidol Univ., Saraburi, Thailand



Degree ITB



Presentation of ITB System on R77, Hanoi

- ▣ Student Exchange & Master Double Degree ITB - IMT Atlantique, Nantes, France
- ▣ Visiting Research Assistant at Tokyo City University, Japan
- ▣ Chalmers Astrophysics & Space Science Summer (CASSSS) Research Fellowships 2023, Chalmers University, Gothenburg, Sweden
- ▣ International Youth Science Exchange Program, Sakura Science Program, Japan
- ▣ Indonesian International Student Mobility Awards (ISMA) - University of Waterloo, Canada
- ▣ Others

FACULTY PROFILE



UIN SGT Bandung



Faculty of Science and Technology
"Sains dan Teknologi"



NAME OF THE UNIVERSITY: Universitas Islam Negeri Sunan Gunung Djati Bandung (Sunan Gunung Djati State Islamic University of Bandung)

NAME OF THE FACULTY: Fakultas Sains dan Teknologi (Faculty of Science and Technology) FST

NAME OF THE DEAN: Dr. Hosiroh Aliah, M.Si

EMAIL ADDRESS: hosiroh.aliah@uinmgd.ac.id

TELEPHONE NO (OFFICE): +6227830625

FACULTY WEBSITE: fsc.uinmgd.ac.id

FACULTY SOCIAL MEDIA: https://www.instagram.com/fst_uinbandung

HIGHLIGHT OF THE FACULTY:

The establishment of the Faculty of Science and Technology coincided with the change in the State Islamic Institute Sunan Gunung Djati Bandung to become a State Islamic University. The Faculty of Science and Technology was founded on the basis of the Regulation of the Minister of Religion of the Republic of Indonesia dated March 16, 2002 Number 2 of 2002 concerning the Organization and Work Procedures of the Sunan Gunung Djati State Islamic University, Bandung. In Chapter II article 41, it is stated that one of the institutions in the organizational structure of UIN Sunan Gunung Djati Bandung is the Faculty of Science and Technology. This date is considered as the founding date of the Faculty of Science and Technology at UIN Sunan Gunung Djati Bandung.

The history of the Faculty of Science and Technology began with the opening of the Informal Engineering Study Program in 2000. In succession, the Informal Engineering Study Program accepted new students for the 2000/2001, 2001/2002, and 2002/2003 academic years, then accepted students again in 2005/2006. This study program obtained a wider mandate based on the approval of the Director General of Higher Education with number 2829/Dit/2004, Decree of the Director General of Higher Ministry of Religion RI Number D/1994/2004.

Furthermore, the basis for the development of the institutional framework of Program Management from the Director General of Higher Education of the Ministry of National Education number 4426/TH/2004 dated 12 November 2004 concerning Recommendation for Opening General Study Programs at UIN Sunan Gunung Djati Bandung. After approval from the Minister of National Education of the Republic of Indonesia number 173/M/P/2004 dated December 10, 2004 regarding the approval of the Change of UIN Sunan Gunung Djati Bandung to UIN Sunan Gunung Djati Bandung. Letter of the Minister of Religion of the Republic of Indonesia regarding the Draft Proclamation Regulation on the Change of UIN Sunan Gunung Djati Bandung to UIN Sunan Gunung Djati with number WA/55/2005 dated March 31 2005 addressed to the Minister of Administrative Reform.

With this basis, the recommended study programs for the Faculty of Science and Technology are Mathematics, Biology, Physics, Chemistry, Informal Engineering, Agricultural Engineering, and Electrical Engineering. In the early stages, namely the 2005/2007 academic year, the Mathematics, Biology, Informal Engineering and Agricultural Engineering study programs were opened. Then in the 2006/2009 academic year, Physics, Chemistry, and Electrical Engineering study

LIST OF ACADEMIC PROGRAMMES:**UNDERGRADUATE**

Materials
Biolog
Chemdy
Physic
Industrial Engineering
Agrotechnology
Electrical Engineering

STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

We offer a particularly worldwide in-bound undergraduate trade encounter, being grounded in maximizing the potential of undergraduates. Approaching trade undergraduates can take a assortment of cross-disciplinary modules from Bachelor and Technology modules to help expand horizons.

Closely, our undergraduates can connect out-bound programs to Malaysia and Thailand. These programs cultivate individual development, authority aptitudes, social mindfulness, expanding problem-solving, communication capabilities, and broader world view, whereas to improve resources and making engaging network.

RESEARCH STRENGTH

The Faculty of Science and Technology achieved remarkable milestones during the period of 2019-2024, highlighting its dedication to research, innovation, and academic excellence:

17 National and International Achievements
55 International level scientific activities
622 Scopus Indexed International publications, journals and proceedings
124 copyrights
5 Research Patents
3 Patents
21 Associate Professors
28 Assistant Professors

COMMUNITY ENGAGEMENT/ INDUSTRIAL LINKAGE:

FST gives a central point for activities that create key university-industry-community engagement associations which might upgrade and back the educating and learning as well as investigate all the colleges. We proactively interface the university's assets to the outside partners, our nation and community as a exhibit of FST as an linked in roll.

SAINTEK JUARA

FACULTY PROFILE

Faculty of Mathematics and Science



UNIVERSITAS NEGERI
MALANG



University in the center of the tourist region



NAME OF THE UNIVERSITY: Universitas Negeri Malang (State University of Malang)

NAME OF FACULTY: Fakultas Matematika and Ilmu Pengetahuan Alam (Faculty of Mathematics and Science)

NAME OF THE DEAN: Prof. Dr. Hadi Sawono, M.S.

EMAIL ADDRESS: peka@fmsa.um.ac.id / hadi.sawono@fmsa.um.ac.id

TELEPHONE NO. OFFICE: +62341-662180

FACULTY WEBSITE: <http://fmsa.um.ac.id/>

FACULTY SOCIAL MEDIA: <https://www.instagram.com/umfmsa/> / www.facebook.com/fmsa.um.7

HIGHLIGHT OF THE FACULTY

The Faculty of Mathematics and Science is one of the oldest and most accomplished faculties in the Universitas Negeri Malang. It was established in 1954 and currently manages six departments: Mathematics, Physics, Biology, Chemistry, Science Education, and Applied Science. It has 24 undergraduate and graduate study programs, nationally and internationally accredited. The most prominent faculty with nearly 5700 undergraduate students, 700 graduate students, 205 academic staff, and 69 supporting staff.

In addition to functioning as a teaching center, the Faculty of Mathematics and Science, staffed with local and internationally recognized researchers, serves as the primary research center for science, technology, and education in Indonesia, possessing state-of-the-art research equipment and world-class facilities. The faculty has two centers, the Research Center of Mineral and Advanced Material and the Center of Science and Mathematics Education.

ACADEMIC PROGRAMMES AND ACCREDITATION

Study Program	National Board Accreditation	International Accreditation
Department of Mathematics		
1. S1 Mathematics	Excellence	ASIIN
2. S1 Mathematics Education	Excellence	ASIIN
3. S1 Sains Akademi (Process)	-	
4. S2 Mathematics	B	
5. S2 Mathematics Education	Excellence	
6. S3 Mathematics Education	Excellence	
Department of Physics		
1. S1 Physics	Excellence	ASIIN and AJN-QA
2. S1 Physics Education	Excellence	ASIIN
3. S2 Physics	Excellence	
4. S2 Physics Education	Excellence	
5. S3 Physics Education	Very good	
Department of Chemistry		
1. S1 Chemistry	Excellence	ASIIN
2. S1 Chemistry Education	Excellence	ASIIN
3. S1 Pharmacy	-	
4. S2 Chemistry	Very good	
5. S2 Chemistry Education	Excellence	
6. S3 Chemistry Education	B	
Department of Biology		
Undergraduate		
1. S1 Biology	Excellence	ASIIN and AJN-QA
2. S1 Biology Education	Excellence	ASIIN
3. S1 Nutrition	-	
4. S2 Biology	B	
5. S2 Biology Education	Excellence	
6. S3 Biology Education	Excellence	
Department of Science Education		
1. S1 Science Education	B	ASIIN
2. S2 Science Education (Process)		
Department of Applied Science		
1. S1 Biotechnology	Good	
2. S3 Mathematics and Science (Process)		

S1 = Undergraduate

S2 = Master (by course and by research)

S3 = Doctor (by course and by research)



INTERNATIONAL CONFERENCES

1. International Conference on Mathematics and Science Education (annual) – (<http://icmse.fmppt.um.ac.id/>)
2. International Conference on Life Sciences and Technology (annual) – (<http://icollt.biologi.um.ac.id/2022/>)
3. International Conference on Mathematics and Applications (annual) – (<http://icomatapp.fisika.um.ac.id/>)
4. International Conference on Theoretical Physics and Non-Linear Phenomena 2019 (ICINP)- biennial
5. International Conference on Electromagnetism, Rock Magnetism, and Magnetic Materials (IC-RMM)- biennial
6. International Conference on Condensed Matter and Advanced Materials (ICCMAM)- biennial
7. The International Conference on Chemistry and Material Science (circular)
8. International Annual Meeting on STEM Education (circular) (<http://um.ac.id/agenda/international-annual-meeting-on-stem-education-2022/>).



RESEARCH

Research project:

- Ministry of Education, Culture, and Higher Education
- Ministry of Finance: RISP100
- Universitas Negeri Malang (internal funding)
- The European Union: The project Promoting Relevant Education in Science for Sustainability (PRESS) in collaboration with the University of Bremen University, the University of Helsinki, University of Klagenfurt, Ilia State University, etc.
- Matching Fund: Universiti Teknologi Malaysia, Universiti Malaysia
- Research Collaboration: UTM, UM, Tohoku University, Kong Keen University, Curtin University, Suranaree University of Technology, Prince Songkla University, Universiti Teknologi Mara

INTERNATIONAL SHORT COURSES

1. Short Course on STEM Education (<http://ipafms.com.ac.id/2023/05/short-course-2023-stem-learning-short-course-02-10-2023-itu-compatibility-21-science-teachers-and-civil-to-achieve-sustainable-education/>)
2. Bioinformatics (<http://bioinformatics.ipafms.com.ac.id/2023/05/short-course-02-10-2023/>)
3. Chemistry Applied to Sustainable Life.
4. International Short Course in Nuclear and Particle Physics: Experimental Studies and its Applications.
5. International Short Course: From Algorithms to Education: Exploring the Vital Role of Mathematics in IT Development and Education (<https://www.ipafms.com.ac.id/index.php/UM/UM/2023/International-short-course-departemen-matematika/>)
6. International course on tropical ecosystem reclamation.



INTERNATIONAL STUDENTS MOBILITY PROGRAM



FACULTY PROFILE



NAME OF THE UNIVERSITY: UIN Raden Fatah Palembang (Raden Fatah State Islamic University)

NAME OF THE FACULTY: Faculty of Science and Technology

NAME OF THE DEAN : Dr. Munir, M. Ag.

EMAIL ADDRESS : munir_uin@radenfatah.ac.id

TELEPHONE NO (OFFICE) : +62711354660

FACULTY WEBSITE : <http://saintek.radenfatah.ac.id/>

FACULTY SOCIAL MEDIA : Instagram: @saintek_rfbh (https://www.instagram.com/saintek_rfbh/)
Facebook: Fakultas Sains dan Teknologi Universitas Islam Negeri Raden Fatah Palembang (<https://www.facebook.com/saintek.rfbh/>)

HIGHLIGHT OF THE FACULTY:

The Faculty of Science and Technology is a new faculty whose forerunner is the Faculty of Tarbiyah and Teacher Training. Based on the Regulation of the Minister of Religion of the Republic of Indonesia number 63 of 2015, article 10 dated 2 September 2015 which states that one of the faculties at UIN Raden Fatah is the Faculty of Science and Technology. At the beginning of its establishment, the Faculty of Science and Technology had 3 programs, namely the Biology, Chemistry and Information Systems study programs, based on a letter from the Minister of Education and Culture number 273/MP/2014 dated 9 October 2014 regarding study program permits at UIN Raden Fatah Palembang.

LIST OF ACADEMIC PROGRAMME:

UNDERGRADUATE

- ✓ Biology
- ✓ Chemistry
- ✓ Information Systems



STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

Raden Fatah State Islamic University's Faculty of Science and Technology offers a globally bound student exchange experience that is based on maximizing student potential. Incoming exchange students can take a variety of cross-disciplinary modules from Science and Technology to language and culture modules. So far, we have in-bound students from Sudan.

Beside, our students also take part in out bound programs to Sudan. These programs foster personal growth, leadership skills, cultural awareness, networking, problem solving, communication skills, and expanding world views while enhancing resumes and creating lasting memories.



The 13th Annual General Meeting of Asia Islamic Universities Association (AUIA) – Brunei



International Workshop on UI GreenMetric World University Rankings – Universitas Da Nang, Vietnam



MOU Signing Ceremony with Western Sydney University, University of Technology Sydney, and University of Sydney

RESEARCH STRENGTH

Raden Fatah State Islamic University's Faculty of Science and Technology is active in carrying out research and innovation.

COMMUNITY ENGAGEMENT/ INDUSTRIAL LINKAGES

Raden Fatah State Islamic University's Faculty of Science and Technology provides a focal point for initiatives that develop strategic university-industry-community engagement partnerships that can enhance and support university teaching and learning and research. We proactively connect university resources with external stakeholders, industry and society as a demonstration of FST as an engaged faculty.



MOU Signing Ceremony with The Embassy of Kingdom of Saudi Arabia



MOU Signing Ceremony with Universiti Utara Malaysia

FST ISTekPro

(Islam, Sains, Teknologi, dan Pradik)

FACULTY PROFILE



NAME OF THE UNIVERSITY: King Mongkut's University of Technology North Bangkok

NAME OF THE FACULTY: Faculty of Applied Science

NAME OF THE DEAN: Associate Professor Dr. Plarpool Kantakijitpraja

EMAIL ADDRESS: plarpool.k@ed.kmutnb.ac.th

TELEPHONE NO (OFFICE): +6620652000 Ext. 4211

FACULTY WEBSITE: <http://www.ac.kmutnb.ac.th/>

FACULTY SOCIAL MEDIA: <https://www.facebook.com/PR.400Sci.KMUTNB>

HIGHLIGHT OF THE FACULTY

The Faculty of Applied Science, King Mongkut's University of Technology North Bangkok aims to produce thinkers and creative inventors who will be a major force in turning scientific knowledge into an applied science that can lead to innovations that conform to the principles of sufficiency and sustainability. The sufficiency principle uses moderate practice as the main idea of living. However, it still aims to keep up with global changes according to the philosophy of the faculty that in order to respond to national and international development it is necessary to develop dedicated people with scientific and technological knowledge.

The Faculty of Applied Science was established on May 14th, 1983. Since then it has been a persistent commitment of the faculty to develop human resources in accordance with academic, scientific, and technology excellence. This has been done along with the aim to cultivate morality in the graduates so that they will contribute the knowledge they have gained appropriately.

LIST OF ACADEMIC PROGRAMMES:

UNDERGRADUATE

Applied Mathematics
Mathematics with Computer Science
Industrial Chemistry
Biotechnology
Environmental Technology
Agro-Industrial Technology
Agro-Industrial Technology and Innovation
Food Science and Technology
Industrial Physics and Medical Instrumentation
Engineering Physics (Bilingual Program)
Biomedical Engineering
Microelectronics Engineering
Computer Science
Applied Statistics for Business and Industrial Analytics
Business Statistics and Insurance
Statistical Data Science and Analytics

MASTER DEGREE

Applied Mathematics
Mathematics with Computer Science
Industrial Chemistry
Biotechnology
Environmental Technology
Bio-Industrial Technology
Food Science and Technology
Medical Instrumentation
Applied Physics
Software Engineering
Computer Science
Applied Statistics and Data Analytics

DOCTORAL DEGREE

Applied Mathematics
Industrial Chemistry
Bio-Industrial Technology
Environmental Technology and Management
Biotechnology
Applied Physics
Computer Science
Applied Statistics

STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

We provide a diverse, fully global, informed support and organization, keeping on maximizing the potential of students. Incoming exchange students can explore various interdisciplinary modules from Science, Technology, and Innovation module to Third Culture and languages. We have welcomed students from Japan, Nigeria, Korea, and Pakistan. And besides, our students also participate in outbound programs including outbound program to South Korea, Japan, Ed. Taiwan, and Germany. These programs foster personal development, academic skills, cultural awareness, networking, problem-solving abilities, communication skills, and the expansion of global perspective while enhancing resources and creating long-lasting memories.

Cultural exchange and outbound program to Taiwan



Outbound student exchange program to Taiwan



Inbound student exchange program from Japan



Outbound student exchange program to Germany



RESEARCH STRENGTH:

The Faculty of Applied Science has obtained significant accomplishments from 2013 to 2022, demonstrating its unwavering commitment to research, innovation, and academic excellence.

7 Departments

12 Research clusters

1,839 Publications

900/US\$ 50E Indexed



COMMUNITY ENGAGEMENT/ INDUSTRIAL LINKAGES

The Faculty of Applied Science plays a crucial role in forging strategic partnerships between the university, industry, and the community. These partnerships aim to enrich and support the university's teaching, learning, and research initiatives. We take proactive steps to bridge the university's resources with external stakeholders, industries, and the community, ensuring value is created for all needs.

MSU Signing Ceremony with ILM Creative Services (Thailand) Ltd.



MSU Signing Ceremony with Euphor RMMS Company Limited



MSU Signing Ceremony with Taha (Thailand) Company Limited



MSU Signing Ceremony with KPS Company Limited



The faculty giving charity



Faculty giving charity to a group of monks at the UPHU, Bangkok



Faculty giving charity to a group of monks at the UPHU, Bangkok



Faculty giving charity to a group of monks at the UPHU, Bangkok



SURANAREE UNIVERSITY OF TECHNOLOGY



NAME OF THE UNIVERSITY: Suranaree University of Technology (SUT)

NAME OF THE FACULTY: Institute of Science

NAME OF THE DEAN: Prof. Dr. Giree Harnrat

EMAIL ADDRESS: admin@sci.sut.ac.th

TELEPHONE NO (OFFICE): +66 44 274185

FACULTY WEBSITE: <http://sci.sut.ac.th/index.html>

FACULTY SOCIAL MEDIA: <http://www.facebook.com/sci.sut.ac.th>

HIGHLIGHT OF THE FACULTY:

Institute of Science at SUT is one of the leading academic and research institutions in Thailand. We offer a variety of undergraduate and graduate programs, focusing mostly on research and innovation. A lot our faculty members have been listed as top researchers in the country, and their contributions have also gained reputation internationally.

LIST OF ACADEMIC PROGRAMS

UNDERGRADUATE PROGRAM

Mathematics
Physics
Chemistry
Biology
Medical Science
Microbiology
Geoinformatics
Sports Science
Computer Science

GRADUATE PROGRAM (MASTER/PH.D)

Applied Mathematics
Chemistry/Biochemistry
Physics
Applied Physics
Biology
Microbiology
Biomedical Science
Geoinformatics
Integrated Science and Innovation

INSTITUTE OF SCIENCE, SURANAREE UNIVERSITY OF TECHNOLOGY

DUAL DEGREE PROGRAMS



Doshisha University
Japan



Goethe University Frankfurt
Germany



NCKU
National Cheng Kung University
Taiwan

INTERNATIONAL COLLABORATION



FULL MEMBER OF ALICE (CERN)

Developing Geometry (Beam pipe and Staves) for ALICE which will be used in the simulation and reconstruction software of the new Inner Tracking System (ITS) at ALICE



JIANGMEN UNDERGROUND NEUTRINO OBSERVATORY (JUNO)

Development of Earth Magnetic Field Shielding

STUDENT EXCHANGE / MOBILITY PROGRAM

We offer both short-term and long-term mobility program with partner universities. Incoming students can attend classes for credit or join the laboratory for research experience. Domestically enrolled students also have an opportunity to become an exchange student to visit various university around the world.



1,567

Publications

16,166

Citations

1.02

Field-Weighted
Citation Impact

2.6

Publications
(Per Faculty/Year)

RESEARCH STRENGTHS



Physics

- High-Energy and Particle Physics
- Synchrotron-Based Measurement Techniques
- Computational Physics, AI, and Machine Learning
- Advanced Functional Materials
- Quantum Technology and Applications
- Biomedical Physics and Instrumentation
- Optics, Photonics, and Laser Technology

Biomedical Sciences & Microbiology

- Structural Biology and Related Frontier Technologies
- Physiology and Anti-Aging
- Pharmacology-Toxicology and Pharmaceuticals
- Integrated Infectious Diseases and Diagnosis
- Molecular Microbiology and Microbial Taxonomy
- Agricultural and Environmental Microbiology
- Medical Microbiology / Food and Industrial Microbiology



Chemistry

- Modeling in the Chemical Sciences
- Functional Molecules and Materials
- Energy and Sustainable Chemistry
- Biomolecular Structure, Function and Engineering
- Medical Biochemistry

Biology

- Systematics, Ecology, and Conservation
- Carbon Footprint and Carbon Credit
- Plant Diversity and Physiology
- Nano-Biology and Applications
- Bioreactor and Lab-on-Chip
- Forensic Biology



RESEARCH STRENGTHS



Mathematics

- Mathematical Programming and Machine Learning
- Mathematics for Finance and Investment
- Differential Equations and Fluid Mechanics
- Analysis, Algebra and Geometry with Applications
- Probability and Statistics with Applications

Geoinformatics

- Earth Exploration and Mapping from Space
- Aerial and Geospatial Data Analysis and Modeling
- Geoinformatics Solutions for Environmental Crisis
- IT-based Business and Entrepreneurship
- Geoinformatics Applications for Public Affairs
- Drone Applications for Mapping and Intelligent Management



Sports Science

- Biomechanics
- Sports Management
- Exercise Physiology
- Sports Performance Analysis
- Exercise and Aging

COMMUNITY ENGAGEMENT

Not only do we provide higher education, but we also engage and involve in the development of the community, especially for young children. We offer science activities and hands-on workshops monthly to schools. Students at all age can sign up for our annual science festival as well.



FACULTY PROFILE

Logo of the University



Dean's Photo



University/Faculty Pictures



NAME OF THE UNIVERSITY: National Chengchi University

NAME OF THE FACULTY: Hsing Luh

NAME OF THE DEAN: Hsing Luh

EMAIL ADDRESS: slu@nccu.edu.tw

TELEPHONE NO (OFFICE): +886-2-29380291 x 57580

FACULTY WEBSITE: <https://nckua.nyu.edu.tw/eng/Pages/Front?M=888>

FACULTY SOCIAL MEDIA:

HIGHLIGHT OF THE FACULTY: Mathematical Modeling with Optimization

LIST OF ACADEMIC PROGRAMMES:

UNDERGRADUATE: Department of Mathematical Sciences, Department of Psychology

POSTGRADUATE: Department of Mathematical Sciences, Graduate Institute of Neurosciences
Department of Psychology, Graduate Institute of Applied Physics

STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP: Various Selection to choose on Campus

RESEARCH STRENGTH:

Probability and Dynamic System, Scientific Computing and AI

Neurodegeneration & Neuroprotection

Science Education & Public Health

Experiment and Development, Society and Personality

Condensed Matter Physics, Nanotechnology

Medical Image Engineering and Medical Physics

COMMUNITY ENGAGEMENT: Assorted Community Services with SDGs (Sustainable Development Goals) available in NCCU

INDUSTRIAL LINKAGES: Many Coop: Many Collaborations with Different Corporations in Taiwan



PROFESSIONAL FIELDS

Department of Mathematical Sciences

- Probability and Statistics
- Dynamic System and Ordinary Differential Equations
- Combinatorics and Ordering System
- Scientific Computing and AI

Department of Psychology

- Experimental and Development
- Society and Personality
- Industrial and Organizational
- Measurement and Method

Institute of Neurosciences

- Neurodegeneration & Neuroprotection
- Drug Addiction & Neuropharmacology & Behavior Neuroscience
- Psychiatric disorder & Developmental Neuroscience
- Genome Editing, Neuroimmunology & Neuroendocrine
- Medical Care and Health Technology
- Science Education & Public Health

Biokate Institute of Applied Physics

- Condensed Matter Physics, Nanotechnology
- Quantum computing and Multimodal Physics
- Complex System, Sociophysics
- Medical Image Engineering and Medical Physics
- High Performance Scientific Computing



FACULTY PROFILE



**BULACAN STATE UNIVERSITY
COLLEGE OF SCIENCE**



NAME OF THE UNIVERSITY: BULACAN STATE UNIVERSITY

NAME OF THE FACULTY: COLLEGE OF SCIENCE

NAME OF THE DEAN: EDGARDO M. SANTOS, Ph.D.

EMAIL ADDRESS: edgardo.santos@bulsu.edu.ph

TELEPHONE NO (OFFICE): (044) 919-7800

FACULTY WEBSITE: www.bulsu.edu.ph

FACULTY SOCIAL MEDIA: <https://www.facebook.com/BulsUCSOfficial>

HIGHLIGHT OF THE FACULTY:

The College of Science (CS) is an academic unit of the Bulacan State University (BulSU) Main Campus in the City of Malolos, Bulacan (300 900) 2215 Carriedo. It evolved from the College of Arts and Science (CAS) and became a separate and independent entity known as the Institute of Science (IS). It was renamed from IS to CS by virtue of the BULSU Board of Regents Resolution No. 06 in 2008. Aside from offering its own degree programs, the College of Science mentors students of other colleges of the University with respect to science and mathematics courses. The College is living up to its tagline: "The Journey to Excellence Starts Here."

Presently, the College's teaching force in its Department of Science and Department Mathematics is composed of 100 (one hundred) tenured and non-tenured individuals of which 100% are regular faculty, 10 (ten) non-regular faculty and three (3) guest lecturers. More than half of the regular faculty (55%) are master's degree holders while 35% are still pursuing their master's and 10% are doctoral degree graduates.

HIGHLIGHT OF THE FACULTY:

Five (5) of the Science Department faculty and awarded BUNIP Ranking for 2021 by the WI Scientific Index. Also some of the faculty were invited / tapped to be invited speakers in seminars / webinars / meetings and the like within the / outside of the College.



Last February, the Tarlac State University – College of Science conducted a benchmarking study of BUNIP on the basis approval of the three (3) academic program offerings of CS, namely Bachelor of Science in Mathematics, Bachelor of Science in Food Technology and Bachelor of Science in Chemical and Science. A month later, BUNIP was chosen as the Region 3 Testing Center of the 26th Math Olympiad and the 28th Mathematics Olympiad which was assigned to nine members of the group.

In addition, five (5) faculty of the Science Department are recipients of registration certificate (patent) from the Intellectual Property Office for their invention: "Process of Making Low-Cost Chitosan, Talcum-Free Cream," "Mogroside-Gelatin Acetate Film" and "MOU-MOF".



Math Olympiad

ACADEMIC PROGRAM OFFERINGS

ACADEMIC PROGRAM OFFERINGS	YEAR OFFERED	ACCREDITATION STATUS (*AACUP) (as of June 2023)
Bachelor of Science in Biology	1993	Level 3
Bachelor of Science in Environmental Science	2013	Level 1
Bachelor of Science in Food Technology	2013	Level 1
Bachelor of Science in Mathematics with Specialization in: <ul style="list-style-type: none"> - Computer Science - Business Applications - Applied Statistics 	1998 2004 2005	Level 2 Level 2 Level 3
Bachelor of Science in Medical Technology / Medical Laboratory Science	2022	Not Accredited

*Accrediting Agency of Chartered Colleges and Universities in the Philippines

STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

The project STR4497 BM of three scientists and six students of the Bachelor of Science in Environmental Science of the college was selected to be fully funded and technically assisted by Tokuyama ph and Amifriends of the Forest (ATF). Their project aims to conserve the biodiversity of Sierra Madre through translocation education. The said project was conceived and developed after attending Fellowship Program on forest conservation projects.

There is also a signed Memorandum of Understanding (MOU) for exchange students with UP Los Baños and Memorandum of Agreement (MOA) for a terms of proposal of BS Biology students with UP Baguio as one of National History.



UPBMOU with the Department of Biology, UP Los Baños and Memorandum of Agreement (MOA) with UP Baguio



RESEARCH STRENGTH : From 2019 - 2022

The faculty of LS also conducted researches and presented them in national or international conferences / seminars for a in the fields of Mathematics and Science and their relations / impact with other fields. Furthermore, some of the researches were published in reputable journals.

Title of Research Paper	Title of Research Paper	Title of Research Paper
Stress in Mathematics and Science: An Intriguing Look on First- to-5-Graduates Perceived Self-Efficacy	Generating Differential Equations from Union of Cyclic Groups	Two-Dimensional Sol Characteristics of Bose-Einstein National Park (BENP) Animal to Management Planning
On the Health of Senior Faculty of R.P. College	Performance Profile of Most Improved I-Bank Customer: Highlighting the Contributions in OMO	Ecotoxicological Toxicity of Hydrocarbon Contaminants in Agricultural, Municipal, and Industrial Effluents
Students' Acceptability of Food and Biochemistry-Based Laboratory Activities (FB-BL) at P. Ramon Institute	Improving Student's Mathematical Achievement Through the Use of Concrete-Based Biology Instructional Materials	The Active Methods for a Cycle
Characterizing the Impact of COVID-19 on the Global Stock Indices through Comparative Analysis	Improving Performance and Level of Attitude in Learning Integral Calculus Using Geogebra	A Look into Students' Conceptual Understanding of the Definite Integral via APC Model
Generating Differential Equations from Union of Cyclic Groups	Integrating Performance and Level of Attitude in Learning Integral Calculus Using Geogebra	Preparing to Service Teacher: Enhancement of Knowledge For Teaching (MKT) and Self-Efficacy Through Learning Study
Becoming a Science Teacher: A Constructivist Study of Science Teacher Early Formation	Integrating Performance and Level of Attitude in Learning Integral Calculus Using Geogebra	Research on Students' Attitude in Learning Mathematics in the Modern World
Resilient Adaptation Strategies of Senior High School Students in National Park, General Lizon, Philippines	Optimal Classified Feedback Control of a Liquid Tank in Flow in the Presence of Noise	
Stress in Mathematics and Science: An Intriguing Look on First- to-5-Graduates Perceived Self-Efficacy		

Title of the Article	Title of the Journal or Name of Publication	Vol. No. & Issue No.
Contribution of Difference Sets from Union of Cyclic Groups of Order $4n-14$	Researches/ Multidisciplinary Research Journal	https://www.researchgate.net/publication/361956120
Conflict Management Styles of Middle-Level Academic Administrators: Impacts on Conflict Development Plan	www.ijok.org	Vol. 11, Iss. 10
A History of Real Analysis	OSIN Mathematical Physics Journal	
Wilferonide Sets from Union of Cyclic Groups of Order $2n-22$ and $2n$	PHILIPPINE JOURNAL OF SCIENCE 100 389x-1002 3910	1004/0031 7553
Characterizing the Impact of COVID-19 on the Global Stock Indices through Comparative Analysis	Journal of Ecotology & Resilience	
Phytobiochemicals of a leafy food plant <i>Sesbania (Mungo)</i> (ppos.366-368) in Pinar, Bukidnon	Scientia International Journal of Interdisciplinary Studies	Vol. 5, No. 1, p.360-361 Jan-Mar, 2021
Correlates of Students' Learning in Mathematics in the Modern World	BUSINESS Applied Science Education Journals	Columbian and Science Learning in Mathematics in the Modern World Gerald D. Yaverosa
Gender Differences, Nationalism Anxiety and First-Year College Students' Mathematical Achievement	International Journal of Science and Technology Research	Mathematical Anxiety and First-Year College Students' Mathematical Achievement
Economic Dynamism of Cacao and Vanilla Cultures in the Province of Bukidnon	ICOTS Conference Proceedings	Economic Dynamism of Cacao and Vanilla Cultures in the Province of Bukidnon

COMMUNITY ENGAGEMENT



BUISU-CEU Partnership in Building a Sustainable Philippines: Education, Action on Education and signing



BUISU-CEU Partnership in Building a Sustainable Philippines: Education, Action on Education and signing



Extracurricular Activity



Paradise for the Mangrove Propagation and Management



BUISU-CEU Partnership in Building a Sustainable Philippines: Education, Action on Education and signing



INDUSTRIAL LINKAGES:

These are partner institutions / stakeholders which the University / College signed Memorandum of Agreements and where the students are accepted to undergo their Internship Program.

UNIVERSITY/FACULTY PROFILE



NAME OF THE UNIVERSITY: MAPUA UNIVERSITY

NAME OF THE DEPARTMENT: INTERNATIONAL LINKAGES FOR RESEARCH AND DEVELOPMENT

NAME OF THE DIRECTOR: DELIA B. SEHOROC, PH.D

EMAIL ADDRESS: dsehoroc@mapua.edu.ph

TELEPHONE NO (OFFICE): +63 2 82475311

WEBSITE: <https://www.mapua.edu.ph>

SOCIAL MEDIA: #IvivaMapua, <https://www.facebook.com/MapuaILRAD>, <https://www.mapua.edu.ph/ResearchILRAD/>

HIGHLIGHT OF THE UNIVERSITY:

Mapua University was founded in 1925 and became the Philippines' premier engineering and technological higher educational institution (HEI). Mapua unceasingly fosters its tradition of excellence in engineering, sciences, architecture and design, information and technology. It is globally recognized, included in the 2025 Times Higher Education World University Rankings (1914), rated as 4 Star Institution by QS Intelligence Unit. Mapua's undergraduate programs are recognized by various national and international accreditation bodies. It is the first HEI in Southeast Asia to obtain accreditation from the United States-based ABET (www.abet.org). Currently, Mapua offers 11 engineering and 3 computing programs accredited by the Engineering Accreditation Commission of ABET. Also, it has the most number of engineering programs recognized as Centers of Excellence by the Philippines' Commission on Higher Education (CHED). Further, Mapua named Center of Excellence for Information Technology Education with Computer Science, Information Systems, and Information Technology as program offerings in the field.

Mapua programs are powered by cutting-edge 21st century innovations for teaching and learning the Cardinal EDGE (Education in a Digital and Global Environment). Mapua provides a virtual classroom that can deliver real-time video conference across 100 classes involving 2,300 students in a single period. Mapua established UOX (Ubiquitous Online Experience) to offer asynchronous fully online graduate and undergraduate programs to allow students to learn at their own pace and space. Championing sustainable engineering and innovations, Mapua advocates for environment protection and preservation, offers environmental engineering programs at all three levels; i.e., bachelor, master and doctoral programs. Mapua ensures its graduates are of high caliber ready to take lead roles in the global arena. It produced a total of 375 board topnotchers across 11 of Professional Regulation Commission-administered licensure examinations since 2008.

Mapua excels in research, development and innovation in the field of engineering and sciences.

LIST SCHOOLS AND ACADEMIC DEPARTMENTS:

A) Intramural Campus:

- School of Architecture, Industrial Design, and its Built Environment
- School of Chemical, Biological, and Materials Engineering and Sciences
- School of Civil, Environmental and Geological Engineering
- School of Electrical, Electronics, and Computer Engineering
- School of Industrial Engineering and Engineering Management
- School of Mechanical, Manufacturing and Energy Engineering
- Department of Physics
- Department of Mathematics

B) Visiting Campus:

- School of Information Technology
- School of Media Studies
- School of Health and Sciences
- E.T. School of Business

C) School of Graduate Studies (Blended Programs, Fully Online Programs)

- MS in Architecture
- MS in Biological Engineering
- MS in Chemical Engineering
- MS in Chemistry
- MS in Civil Engineering
- MS in Computer Engineering
- MS in Computer Engineering (by Research)
- MS in Computer Science
- MS in Electrical Engineering
- MS in Electrical Engineering (by Research)
- MS in Electronics Engineering
- MS in Environmental Engineering
- MS in Geoinformatics
- MS in Industrial Engineering
- MS in Materials Science & Engineering
- MS in Mechanical Engineering
- PhD in Chemical Engineering
- PhD in Chemistry
- PhD in Computer Engineering (by Research)
- PhD in Computer Science
- PhD in Electronics Engineering
- PhD in Environmental Engineering
- PhD in Industrial Engineering (by Research)
- PhD in Materials Science & Engineering
- PhD in Materials Science & Engineering (by Research)

"International, research-driven, digitally-enhanced and outcomes-based" is the character of Mapua education."

Mapua is a partner of Arizona State University (ASU), the America's most innovative university, through Cintara Education. This partnership expands the access of students to high quality international education in business and health sciences.

Mapua exposes its constituents to international and community research initiatives as training ground to become future enablers of state-of-the-art solutions to problems of industry and communities.

Mapua University Seal Bids Student to an Award-Winning International Program at Arizona State University



STUDENTS EXCHANGE/MOBILITY PROGRAMS/SUMMER CAMP/SANDWICH PROGRAM:

Summer Camp Program; Research Learning and Immersion Program; International Field Study and Research; International Students Exchange; International On-The-Job Training; International Sandwich Program

CALL FOR APPLICATIONS FOR INTERNATIONAL SANDWICH PROGRAM (ISDP)

Mapua University is seeking qualified students to participate in the International Sandwich Program (ISDP) for the academic year 2023-2024. The program is designed to provide students with a unique learning experience by combining classroom instruction with practical work experience in a foreign country.

THE IDEAL CANDIDATE:

- Must be a Filipino citizen
- Must be a full-time student in the College of Education, Mapua University
- Must have a minimum GPA of 2.00
- Must be recommended by the Dean of the College of Education
- Must be able to pay the program fee of P100,000.00

FOR MORE DETAILS:

Visit our website: www.mapua.edu.ph



International Exchange Programs

collaboration of industries, a good and important methodology to a student have awareness abroad.

Students in exchange can develop the international and global to work. Acquiring the knowledge and skills for business, education, research, and other fields. To provide students with exposure to the culture, language, climate and health conditions.



RESEARCH STRENGTH:

More information ☎

<http://www.mapua.edu.ph>

Graduate Courses Offered Through Exchange Programs in the Philippines (2023-2024)

10TH ANNIVERSARY OF THE THREE HOME FOUNDATION

MAPUA UNIVERSITY RANKING

SUSTAINABLE DEVELOPMENT GOAL

Mapua University is proud to announce that it has been ranked as the 10th best university in the Philippines for the 10th anniversary of the Three Home Foundation. This achievement is a testament to the university's commitment to excellence in education and research.

Mapua University is offering a variety of graduate courses through exchange programs in the Philippines. These courses are designed to provide students with a unique learning experience and to help them develop the skills and knowledge needed to succeed in their careers.

UFA

EXCELLENCE

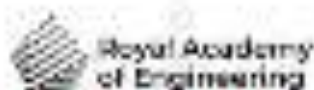
MAPUA UNIVERSITY

COMMUNITY ENGAGEMENT



Mapua University is proud to announce that it has been ranked as the 10th best university in the Philippines for the 10th anniversary of the Three Home Foundation. This achievement is a testament to the university's commitment to excellence in education and research.

Mapua University is offering a variety of graduate courses through exchange programs in the Philippines. These courses are designed to provide students with a unique learning experience and to help them develop the skills and knowledge needed to succeed in their careers.



2023 Additive Manufacturing Workshop, Expo, & Idea-a-thon

2023 AMWSEI: Bringing Additive Manufacturing across Academe and the Manufacturing Industry

JUNE 23, 2023

AVR 1-3, MAPUA UNIVERSITY



FACULTY PROFILE



北海道大学 理学部 理学部
Faculty of Science,
Hokkaido University



HOKKAIDO
UNIVERSITY



北海道大学 理学部
Faculty of Science,
Hokkaido University



NAME OF THE UNIVERSITY: Hokkaido University

NAME OF THE FACULTY: Faculty of Science

NAME OF THE DEAN: AMITSUKA Hiroshi

EMAIL ADDRESS: international@sci.hokudai.ac.jp

TELEPHONE NO (OFFICE): +81-4011-706-2918

FACULTY WEBSITE: <https://www2.sci.hokudai.ac.jp/faculty/en>

FACULTY SOCIAL MEDIA: [https://www.facebook.com/OIAS_Sci_\(English\)](https://www.facebook.com/OIAS_Sci_(English))
[https://twitter.com/SciScience_HU_\(Japanese\)](https://twitter.com/SciScience_HU_(Japanese))

HIGHLIGHT OF THE FACULTY:

Established as the fourth school in the University in 1930, the Faculty of Science today consists of five Departments: Mathematics, Physics, Chemistry, Earth & Planetary Sciences, and Biological Sciences. The Faculty also includes three affiliated institutes (Institute of Geology and Volcanology, Center for Geomechanical Dynamics, National Institute of Data Center) and operates five inter-university research facilities (J. radiolium Center, High Resolution Fourier Transform Laboratory, Laboratory for Energy Dispersive and Wide-Range Dispersive X-ray Fluorescence Spectroscopy, Laboratory of Solid Magnetism and Superconductivity). The Faculty cooperates closely in research and educational activities with other institutes and research centers at Hokkaido University.

Approximately 200 faculty members operated in five casebuildings and occupying 70000 m² of laboratory and office space, conduct world-class research in various areas of the basic and applied sciences. The Faculty generates an annual average of ~400 peer-reviewed publications in international journals.

The Faculty of Science is committed to providing world-class educational programs in all disciplines for students of all levels, backgrounds, and regions. The prominent alumni include: Emeritus Professor Akira Suzuki, Nobel Laureate in Chemistry in 2012, Dr. Yuzuru Iwami, the first Japanese astronaut, Prof. Ryuzo Yanagisawa, a premier reproductive biologist, Kyoto Prize Laureate in Biotechnology/Biomedical in 2002.

LIST OF ACADEMIC PROGRAMMES:

UNDERGRADUATE School of Science [Mathematics, Physics, Chemistry, Macromolecular Function, Biology, Earth & Planetary Sciences]

POSTGRADUATE Graduate School of Science [Mathematics, Condensed Matter Physics, Condensed Matter, Natural History Sciences], Graduate School of Life Science, Graduate School of Chemical Science & Engineering



北海道大学
School of Science
Hokkaido University



大学院理学部
Graduate School of Science
Hokkaido University



Graduate School
of Life Science
Hokkaido University



大学院理学部
GRADUATE SCHOOL OF
CHEMICAL SCIENCE AND
ENGINEERING
HOKKAIDO UNIVERSITY

STUDENTS EXCHANGE/SUMMER SCHOOL:

Short term (1 week-3 months)

- Hokkaido Summer Institute: One of the Most Popular International Summer School (MS courses in 2023) (<https://hokkaido-u.ac.jp/summer/>)



Long term (6-12 months)

- Research Student (Visa & Contract Visa)-> Research
- Special Adm. Student (Undergraduate)-> Course work in the B.S., English-taught degree program in Physics, Chemistry & Biology



Inaugural
Science Program

MOBILITY PROGRAMME

Double Degree Programs (DDP) & Credit Program (Graduate level)

Asian Region

- DDP:**
1. Hokkaido National University (China) Math
 2. Southeast University (China) Math
 3. Al-Farabi Kazakh National University (Kazakhstan) Computational Science
 4. Vietnam Academy of Science and Technology (Vietnam) Math
 5. Beijing University (China) Chemistry
 6. National Cheng Kung University (Taiwan) Math
 7. University of Indonesia (Indonesia) Condensed Matter Physics

European Region

- DDP:**
1. University of Rome Tor Vergata (Italy) Math
 2. University of Pisa (Italy) Math
 3. University of Turin (Italy) Math
- CP:**
1. University of Bonn (Germany) Math

RESEARCH STRENGTH

Mathematics: Algebra, Geometry, Analysis, Applied mathematics (QS Subject Ranking 201-250)

Physics: Theoretical Particle Physics, Astrophysics, Theoretical Nuclear Theory, Gravitational Waves Theory, Biophysics, Low Temperature Physics, Magnetism in Strongly Correlated Electron Systems, Optical Properties and Semiconducting Physics, High Pressure Physics, Electronic Properties of Low-dimensional Conductors, Nanostructure Physics, Phase Transition, Materials and Technology Communication, Philosophy of Science (QS Subject Ranking 251-300)

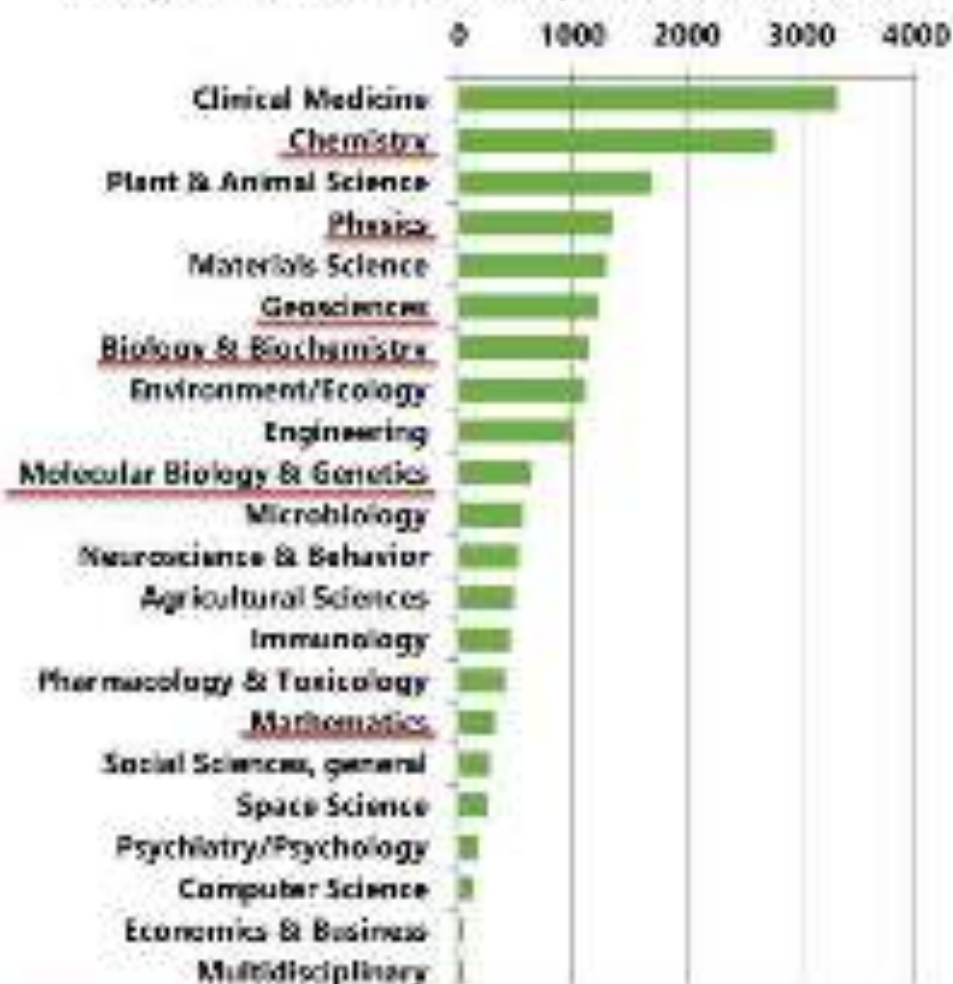
Chemistry: Physical Chemistry, Quantum Chemistry, Theoretical Chemistry, Structural Chemistry, Material Chemistry, Analytical Chemistry, Inorganic Chemistry, Information Chemistry, Organic Chemistry, Organometallic Chemistry, Macromolecular Organic Chemistry, Biological Chemistry, Bioorganic Chemistry (QS Subject Ranking 51-100)

Biology: Biochemistry, Cell Structure and Function, Behavior, Neurobiology, Reproductive and Developmental Biology, Ecological Genetics, Environmental Molecular Biology, Marine Genomics (QS Subject Ranking 151-200)

Earth & Planetary Science: Earth & Planetary Science, Volcanology, Cosmogeology, Geology, Petrology, Mineralogy, Mineralogy, Geochemistry, Earth History, Paleontology, Organic Geochemistry (QS Subject Ranking 51-100)

RESEARCH STRENGTH

of peer-reviewed International publications in 2017-2021



COMMUNITY ENGAGEMENT

Open Campus

- Intended audience: High School students and their parents

Hokkaido University Festival

- Intended audience: Students, Staff, Local residents

Hokkaido U-Dashin (Local Newspaper) Academy

- Intended audience: Local residents



FACULTY PROFILE



YONSEI UNIVERSITY



NAME OF THE UNIVERSITY: Yonsei University, Seoul Korea

NAME OF THE FACULTY: College of Science

NAME OF THE DEAN: Yangsook Kim

EMAIL ADDRESS: yokim@yonsei.ac.kr

TELEPHONE NO (OFFICE): +82-2-2123-2593

FACULTY WEBSITE: <http://science.yonsei.ac.kr>

FACULTY SOCIAL MEDIA:

HIGHLIGHT OF THE FACULTY:

We have been leading scientific education and research in Korea since 1915 and have evolved into a world-class university. The College of Science comprises six departments: Mathematics, Physics, Chemistry, Earth System Sciences, Astronomy, and Atmospheric Sciences. It has been steadily improving the educational research environment.

Natural science is a basic discipline that is essential to the understanding and interpretation of the principles and laws that govern matter, life, and the universe through academic language and logic. It also plays a key role in the advancement and development of related disciplines, including medical science, engineering, and technology. In addition, the development of natural science can provide solutions to various problems that the future civil society will face. Therefore, education and research in natural science are crucial and ever-lasting.

We welcome students with curiosity and enthusiasm for natural science. We will do our best to ensure that you grow into a good scientist who will come to lead the world's natural science field. We will also support you to make sure that you develop into a talented individual who contributes to and serves our society. We hope to have your continuous interest and support.

LIST OF ACADEMIC PROGRAMMES

UNDERGRADUATE



GRADUATE



II Undergraduate Students

II as of 2022 Fall Semester

Department	Female	Male	Total
Mathematics	155	117	272
Physics	148	111	259
Chemistry	18	88	106
Earth System Science	134	78	212
Astronomy	111	69	180
ATMOSPHERIC SCIENCE	117	43	160
Total			1,300

III Graduate Students

III Faculty Members

Department	Ph.D.	M.S.	PH.D. & M.S.	Total
Mathematics	17	13	31	40
Physics	25	15	211	151
Chemistry	67	14	11	82
Earth System Science	13	13	11	37
Astronomy	17	13	23	33
Atmospheric Science	5	29	11	45
Computational Science and Engineering	8	13	11	32
Total				358

Department	Faculty
Mathematics	17
Physics	16
Chemistry	15
Earth System Science	12
Astronomy	10
Atmospheric Science	11
Computational Science and Engineering	11
Total	103

INTERNATIONAL GRADUATE EXCHANGE PROGRAMS



STUDENTS EXCHANGE/ MOBILITY PROGRAMME

Exchange Student Program	Exchange	Requirements Form
Term of Exchange	Request Document	Final Letter Application

Office of International Affairs (OIA) who support a wide range of research and academic exchange study abroad opportunities to foster global competence of Yonsei students and their personal growth as global citizens.

Research programs with international partners, to help in building a network of research and academic exchange study abroad opportunities to foster global competence of Yonsei students and their personal growth as global citizens. The Yonsei Center for Global Studies (YCGS) provides the ongoing research program and study abroad opportunities for international partners with research and academic exchange opportunities, including a research and academic exchange program.

Exchange Student Program



Yonsei's Student Exchange Program (SEP) allows students study abroad for a semester or a summer session that has been approved by Yonsei University. Students participating in this program will gain valuable experience and knowledge through their study abroad program.

Students can find more information on the website.

RESEARCH STRENGTH

College of Science

Graduate School

Departments

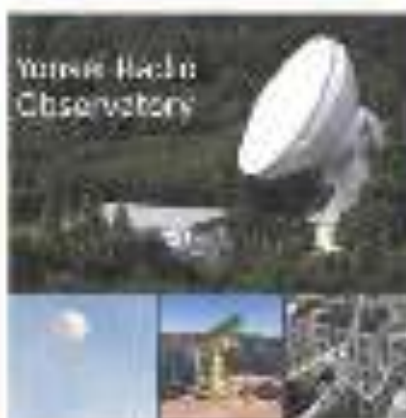
- Mathematics
- Physics
- Chemistry
- Earth System Sciences
- Astronomy
- Atmospheric Sciences
- Computational Science and Engineering (academia only)

Research Activities

- Institute of Natural Science
- Mathematical Science Research Institute
- Institute of Physics and Applied Physics
- Institute for Applied Research Center
- Global Research Center for Environment
- Institute of Earth System and Environment
- Institute of Applied Earth Science
- Institute of Earth and Planetary Science
- Center for Earth System Research
- Center for Space and Earth Science
- Center for Earth System Research
- Center for Earth System Research
- Center for Earth System Research
- Center for Earth System Research
- Center for Earth System Research

BK21 Four

- Yonsei Mathematical Science and Computer
- Yonsei Physics Education Research Institute
- Research Center for Chemistry Education Research
- Institute of Earth Atmosphere Astronomy



FACULTY PROFILE



A Partial View of Korea University



Asan Science Hall (Main Building of the College of Science)



NAME OF THE UNIVERSITY: Korea University

NAME OF THE FACULTY: College of Science

NAME OF THE DEAN: Seung-Dong Yang

EMAIL ADDRESS: sdyang@korea.ac.kr

TELEPHONE NO. (OFFICE): +82-2-3293-4031

FACULTY WEBSITE: <https://science.korea.ac.kr>

Korea University's SOCIAL MEDIA: <https://www.youtube.com/channel/UC1565>

<https://www.facebook.com/koreauhofficial>; <https://www.instagram.com/kuuh1949>

HIGHLIGHT OF THE FACULTY:

Korea University, established in 1949 to light up through education the dark times in Korean history, has reflected the surge of many minds of modern Korea and guided people both as a public actor and a scholarly institution.

The College of Science at Korea University was established in 1953, and it currently consists of the four Departments of Mathematics, Physics, Chemistry, and Earth and Environmental Sciences in which more than 70 full-time faculty members, 800 undergraduate and 200 graduate students study together. College of Science, primarily aims to produce excellent and well-educate students qualified to do so for their responsibility for tomorrow's future who can make contributions to both the nation and the international communities and who will take the lead in academic and technological progresses based on the profound understanding of basic sciences. The College of Science of Korea University has always placed itself openly on the road that would lead humankind to a better future.

The College of Science at Korea University is a place where young students are spending for real progress and where their ambitions are coming true. Students have their discipline and independent problem-solving skills, and they also develop their understanding of their relationships through developmental work for society. They are able to enhance their specialized abilities and appropriate communication skills. Indeed, the College of Science is developing intellectual minds who put community before themselves and discern the needs of the time. These young leaders' passion comes alive in Korea University.

LIST OF ACADEMIC PROGRAMS in The College of Science :

UNDERGRADUATE Programs	GRADUATE Programs
<ul style="list-style-type: none">• Mathematics• Physics• Chemistry• Earth and Environmental Sciences	<ul style="list-style-type: none">• Mathematics• Physics• Chemistry• Earth and Environmental Science• Actuarial Science and Financial Engineering

BS program, MS program, PhD program, MEd, and PHD program

- Full-time faculty members : 17 in Mathematics, 25 in Physics, 22 in Chemistry, 9 in Earth and Environmental Science, 7 in Actuarial Science and Financial Engineering
- Full-time Students : 100 Undergraduate Students, ~ 200 Graduate Students in the College of Science
- Interns and Graduate Undergraduate Students from : China, Hongkong, Korea, American Republic, Vietnam, Taiwan, Indonesia, Myanmar, Russia, Japan, Malaysia, Indonesia, and other countries.
- All graduate programs offer admission with or without scholarship to international students.
- Details can be found at : <http://www.kyushu-u.ac.jp>

A public lecture by Dr. John F. Clauser, a winner of the Nobel Prize in Physics 2022



STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

- Korea University Inbound exchange visiting program : <http://www.kyu.ac.kr/eng/>
- Korea University International Summer Campus : <http://www.kyu.ac.kr/eng/summercamp/>
- Korea University International Winter Campus : <http://www.kyu.ac.kr/eng/wintercamp/>
- 2022-2023 International Winter Campus:
 - 531 students from 124 Universities over 26 countries
 - Participants from : Korea University, University of Nottingham, Cardiff State University, University of Sydney, etc.

2022 International Summer Campus Orientation



2022-2023 International Winter Campus Orientation



RESEARCH STRENGTHS:

- -20 NIH and US Defense Research Funding
- The Institute of Basic Science
 - Institute for Mineral Resources Research
 - Research Institute for Natural Sciences
- Center for Virology and Biotechnology
- Center for Electromagnetic Materials
- Center for Nano Science
- Equipment Core Facility
- etc.

Main Research Areas

Mathematics

- Langlands Program, q-Geometry and Special Functions, Ring Theory
- Theory of Operators and Multivariate Complex Functions, Operator Theory in Function Spaces, Theory of Harmonic Functions, Singularity Distribution Theory, Game Theory
- Algebraic Geometry, Minimal Surfaces, Applications of Geometry, Theory of Semirings, Nonlinear Knot Theory
- Financial Mathematics, Queueing Theory, Fluid Mechanics, Mathematical Analysis and Modeling, Mathematical Finance
- Mathematical Neuroscience, Artificial Intelligence

Physics

- Research on discovery of topological materials, interactions between them and the origin of the Universe
- Research on the basic principles of the quantum optics, atomic spectroscopy using atomic beam and ultra narrow laser lines utilizing ultracold crystal, nanofiber
- Research on several topological materials such as topological insulators, topological magnets and topological systems
- Research on the new quantum state of matter such as superconductor, quantum liquid and topological state as well as proton phenomena of the materials composed of organic and inorganic matter, superconductor, superconductor, carbon nanotube, etc.

Chemistry

- Spectroscopy, Radical Kinetics and Optoelectronic Science
- Experimental New Medicine, Chemical Sensor and Chemiluminescence, Molecular
- Nano and Energy materials and Chemical Core Product
- Molecular Spectroscopy, Polymerization and development of the Chemical Engineering System
- Cancer Cell Markers and Drug Delivery Systems
- Electronic Materials, Solar Energy Materials and development of Organic Light Emitting Diode Device

Earth and Environmental Sciences

- Research on Life science that contributed earth
- Applying life science studies to new environmental
- Applying physical principles to research on environment as a trigger, plan, monitor and requires evaluation
- Research on prevention of environmental pollution and its disposal related to carbon dioxide, soil and the atmosphere



COMMUNITY ENGAGEMENT / INDUSTRIAL LINKAGES

Science Fair vs. 2022 for the Public



Public Lectures in the Youtube



Meeting with the Ministry of Education and Science of Mongolia for the year 2021 and 2022



MOU with the startup company Bio's Net



70 years of Research, Education and Public Service in Science
<https://cos.korea.ac.kr/70/>

1953 ~ 2023



FACULTY PROFILE



جامعة السلطان قابوس
Sultan Qaboos University



NAME OF THE UNIVERSITY: Sultan Qaboos University (SQU)

NAME OF THE FACULTY: College of Science

NAME OF THE DEAN: Dr. Taji M-Hoorl

EMAIL ADDRESS: taji@sqsu.edu.om, taji@science.squ.edu.om

TELEPHONE NO (OFFICE): +968 2414 1400

FACULTY WEBSITE: www.squ.edu.om/science

FACULTY SOCIAL MEDIA: www.facebook.com/squ, www.instagram.com/squ

HIGHLIGHT OF THE FACULTY:

Construction of Sultan Qaboos University (SQU) started in 1980 and the first SQU students were enrolled in 1985. The University commenced with five colleges: namely Medicine, Engineering, Agriculture, Education and Science. Furthermore the College of Arts was established in 1987, following the College of Commerce and Economics which was developed in 1975. The College of Law joined the University in 2006 and finally the College of Nursing was established in 2005.

Faculty of Science (FS) are very active in research and have gained recognition from international bodies in their respective fields of study. Six researchers have been listed as Top 2% Scandit 2022 by Elsevier. The college has 3 units; Central Analytical and Applied Research Unit (CAARU), Life Science Unit (LSU) and IT Zone Unit. CAARU is an ISO 9001-2008 certified laboratory; well equipped with all major top-of-the-range instrumentation. LSU holds a Herbarium (with online catalogue of Oman's flora), a Seed Bank, a botanical garden (on campus 4.5 hectares, 43% native plants) and a future rock garden. It is directly linked to 3 research centers.

LIST OF ACADEMIC PROGRAMMES

UNDERGRADUATE	POSTGRADUATE MSc (coursework)	PHD
Applied Chemistry	Applied Mathematics	Biology
Biotechnology	Biology	Chemistry
Chemistry	Chemistry	Computer Science
Computer Science	Computer Science	Earth Sciences
Earth Sciences	Data Science and Machine Learning	Mathematics
Environmental Biology	Environmental Science	Physics
Geophysics	Petroleum Geoscience	Statistics
Mathematics	Pure Mathematics	
Medical Physics	Physics	
Physics	Statistics	
Statistics		

STUDENTS EXCHANGE/ MOBILITY PROGRAMME/ SUMMER CAMP:

The annual SOU summer camp is very popular program which provides essential skills to school children during the summer break. The CoS runs the IT part of this program and provides the technical support and the all the facilities. In collaboration with its partners from the industries and businesses, the CoS is able to raise more than a quarter million ringgits every year in support for its student's extracurricular activities and community service.

RESEARCH STRENGTH

The faculty of science achieved remarkable milestones during the period of 2019-2022, highlighting its dedication to research, innovation, and academic excellence:

RM 11.72 Research Grant	69 PhD Graduates
508 MAb of Science Publications	123 Research Projects

COMMUNITY ENGAGEMENT


The CoS takes part in a myriad of community engagement projects which involve schools, hospitals, HEIs, and even the defence services to name a few. It also caters to the needs of knowledge sharing and upskilling of many governmental and private sector organizations.

INDUSTRY LINKAGES

CoS students in their pre-final year can choose to take a gap year and do a yearlong internship with a leading industry or enterprise. The internship provides our students with real life training and on the job experience. This renders the job ready upon graduation. Major industries and businesses are linked to the CoS through this program.



FACULTY PROFILE

<p>Logo of the University</p>  <p>Dean's Photo</p> 	<p>University/Faculty Pictures</p> 
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NAME OF THE UNIVERSITY: Kathmandu University, Dhulikhel, Kavre, Nepal

NAME OF THE FACULTY: School of Science (SOS)

NAME OF THE DEAN: Janardan Lamichhane

EMAIL ADDRESS: janardan@ku.edu.np

TELEPHONE NO (OFFICE): +977-11-661399

FACULTY WEBSITE: <https://sca.ku.edu.np/school-structure-1285>

FACULTY SOCIAL MEDIA: <https://www.facebook.com/KUSOSdhulikhel/>

HIGHLIGHT OF THE FACULTY

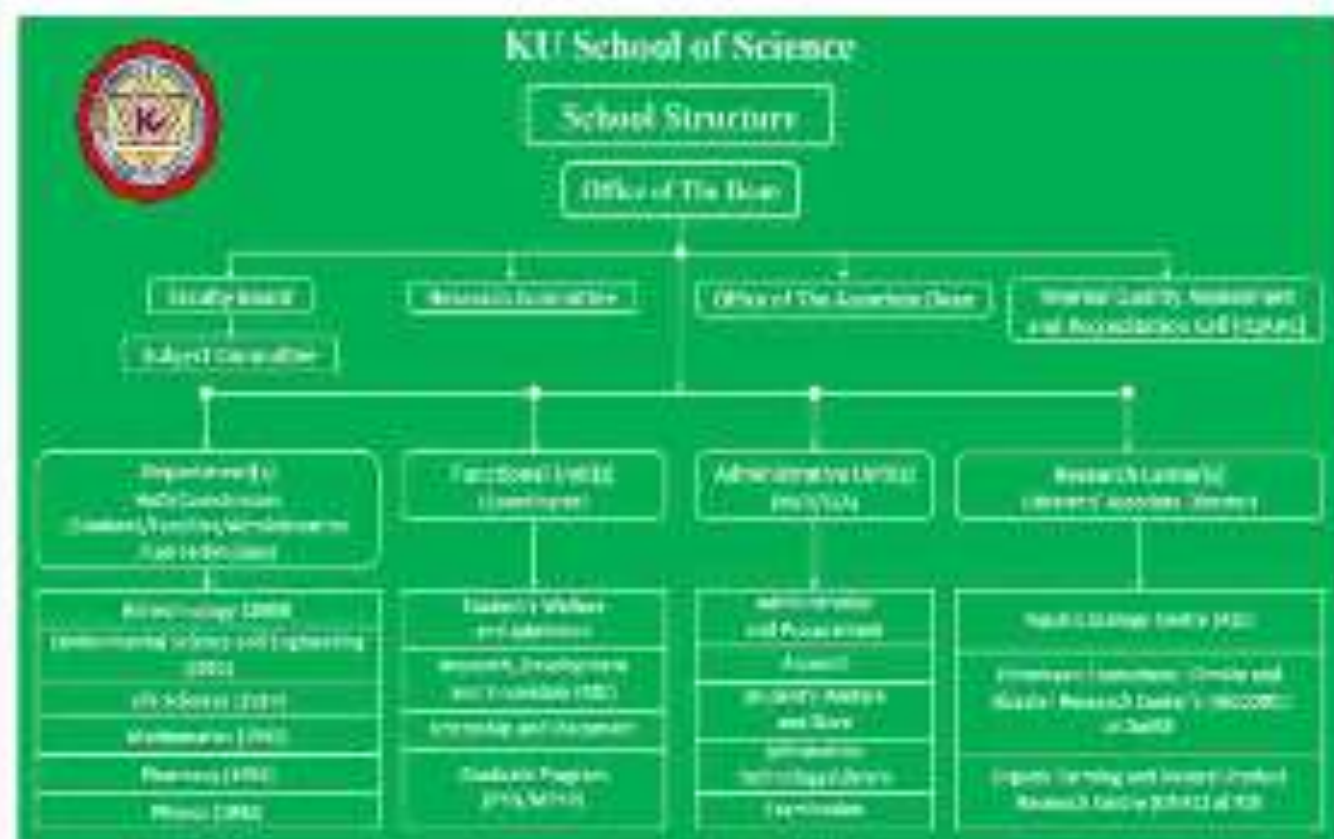
School of Science is operated mainly in 3 locations in the Campus: Block 06 (Department of Physics, Department of Mathematics, Department of Environmental Science and Engineering, Office of the Dean), Block 7 (Department of

Biochemistry), Block 12 (Department of Pharmacy), and AEC Block (Department of Life Sciences, Aquatic Ecology Centre, Himalayan Cryosphere, Climate and Disaster Research Center, and multiple departments).

The School of Science has the following departments:

- Department of Biotechnology
- Department of Environmental Science and Engineering
- Department of Pharmacy
- Department of Physics
- Department of Mathematics
- Department of Life Sciences

In the academics and student life of School of Science students, apart from the departments/units integrated in the organization of the School, the following departments, units provide various teaching, administration, and logistic services.



Academic Programs:

Department of Pharmacy

Bachelor

- Bachelor of Pharmacy

Master

- Master in Pharmaceutical Analysis
- Master in Pharmacognosy and Phytochemistry

- Master in Pharmacy (Industrial Pharmacy)
- Master in Pharmacy (Pharmaceutical Care)
- Master in Science by Research (Pharmaceutical Sciences)
- PharmD (Post-Baccalaureate)

Ph.D

- Ph.D in Pharmacy

Department of Physics

Bachelor

- B. Sc. in Physics

Master

- M. Phil. in Physics
- MS by Research in Physics
- M.Sc. in Physics

Ph.D

- Ph. D. in Physics

Department of Mathematics

Bachelor

- B. Sc. in Computational Mathematics

Master

- M.Phil. in Mathematics
- M. Phil. in Statistics
- M. Sc. in Computational Mathematics

Ph.D

- Ph. D. in Mathematics
- Ph. D. in Statistics

Department of Biotechnology

Bachelor

- Bachelor of Science in Bioinformatics

- Bachelor of Technology in Biotechnology

Master

- M.Sc by Research in Biotechnology
- M. Tech. in Biotechnology

Ph.D

- Ph. D. in Biotechnology

Department of Life Sciences

Bachelor

- B.Sc. in Agriculture

Department of Environmental Science and Engineering

Bachelor

- B.Sc. in Environmental Science
- B.Tech. in Environmental Engineering

Master

- M.Phil. in Environmental Science
- Master by Research in Environmental Science
- Master by Research in Glaciology
- M.Sc. in Environmental Science - Specialization in Glaciology
- M.Sc. in Environmental Science - Specialization in Natural Resources
- M.Sc. in Environmental Science - Specialization in Wildlife Management
- M.Tech. by Research Environmental Engineering
- M.Tech. in Environmental Engineering

Ph.D

- Ph.D. in Environmental Engineering
- Ph.D. in Environmental Science
- Ph.D. in Environmental Science-Specialization in Glaciology



FACULTY PROFILE

Logo of the University



University/Faculty Pictures



NAME OF THE UNIVERSITY: NATIONAL UNIVERSITY OF SINGAPORE (NUS)

NAME OF THE FACULTY: FACULTY OF SCIENCE (FoS)

NAME OF THE DEAN: SOY CHONG HAUR (Vice Dean for NUS Faculty of Science, representing Dean of NUS Faculty of Science, Prof. Sun Yanqing)

EMAIL ADDRESS: physowch@nus.edu.sg

TELEPHONE NO (OFFICE): 65 65162667

FACULTY WEBSITE: <http://www.education.nus.edu.sg/>

FACULTY SOCIAL MEDIA: <https://www.facebook.com/NUSFacultyofScience/> | [@nus/fos](#) (Instagram)

HIGHLIGHT OF THE FACULTY:

NUS is recognized as one of the top universities in Asia and the world for science education and research. The Faculty of Science comprises eight departments – Biological Sciences, Chemistry, Food Science and Technology, Mathematics, Pharmacy, Physics, Statistics and Data Science, and the Lee Kong Chian Natural History Museum.

FOG and NUS Faculty of Arts and Social Sciences jointly offer an enhanced undergraduate experience focusing on interdisciplinary learning through the College of Humanities and Sciences (CHS). CHS students can choose from a range of academic programmes, including around 80 majors, 30 second majors, around 70 minors, around 20 specialisations and over 1,000 courses per academic year. They will be equipped with the skills to integrate knowledge across different disciplines to solve complex problems.

To support professionals looking to stay competitive in the workplace, FOG also offers Continuing Education and Training (CET) courses and industry-relevant Masters and PhD degrees.

Our researchers work closely with industry, government and academic partners to translate scientific innovations to business and societal solutions. Our research has led to patents and intellectual outputs as we continue to strengthen existing partnerships and venture into new collaborations.

ACADEMIC PROGRAMMES

Undergraduate

Chemistry
Data Science & Analytics
Food Science & Technology
Life Sciences
Mathematics
Pharmaceutical Science
Pharmacy
Physics
Quantitative Finance
Statistics

Cross-Disciplinary Programmes

Data Science & Economics
Environmental Studies

MSc by Coursework

Biodiversity Conservation & Nature-based Climate Solutions
Biotechnology
Chemical Sciences
Clinical Pharmacy (New)
Data Science & Machine Learning
Food Science & Human Nutrition
Forensic Science
Mathematics
PharmD
Pharmaceutical Science & Technology
Physics
Physics for Technology
Quantitative Finance
Statistics

Joint Programmes

NUS-SJTU in Quantitative Finance
NUS-TUM in Industrial Chemistry
NUS-TJU DDP in Chemistry (New)
NUS-TJU DDP in Physics (New)

MSc by Research

Chemistry
Food Science & Technology
Mathematics
Pharmacy
Physics

PhD

Biological Sciences
Chemistry
Food Science & Technology
Mathematics
Pharmacy
Physics
Statistics & Data Science

OVERSEAS PROGRAMMES

✓ **Joint Degree Programme - University of Dundee** (For Life Sciences majors only)

✓ **Concurrent Degree Programme - Doctor of Veterinary Medicine, University of Melbourne** (For Life Sciences majors only)

✓ **Double Degree Programmes**

- NUS-Grandes Ecoles French Double Degree Programme (For students)
- Warwick University (For FoS NUS College students only)

✓ **Student Exchange Programmes (SEP)**

- Flagship NUS global programme
- > 300 partner universities
- Exchange for up to one year

✓ **Summer and Winter Programmes**

- Shorter duration than SEP
- Takes place over summer/winter vacation

✓ **NUS Overseas Colleges**

- Gain entrepreneurial experience
- Intern at a start-up
- Take classes at renowned partner universities

Basic science remains relevant

 Associate Prof Frank Ribaudo Discovery of new plant species <i>Science</i>	 Associate Prof Zhang Lei Plant epigenetics <i>Journal of Molecular Biology</i>	 Prof Huang Dailin The protein CD genome <i>Nature Genetics</i>
 Associate Prof Qian Jiao Control of vascular growth <i>Nature Plants</i>	 Prof Guo Xiaoping Tea-Tea-Tea New history of tea research <i>Nature</i>	 Prof Fei Jun Wu Novel form of homeostasis <i>Nature</i>

Science addresses real-world issues

 Associate Prof Li Ruiyi Molecular technology to control mosquitoes <i>Nature</i>	 Associate Prof Li Ailing R&D activities: Promoting social welfare <i>Journal of Economics</i>	
 Prof Li Ruiyi Plant strategy: Molecular search for good genes <i>Nature Plants</i>	 Associate Prof Wu Jun Cancer immunotherapy <i>Nature Chemistry</i>	 Prof Liu Yuesong Capable Array platform for multi-omics and drug <i>Nature Journal of Engineering</i>

Scientific innovations translated into industry solutions

 Associate Prof Wang Lina Applied Materials: New job engineering and manufacturing solutions NUS Prof. Polly Quek's first research SC 2016	 Prof Wang Lina Applied Materials: New job engineering and manufacturing solutions	 Associate Prof Li Ruiyi Capable Array platform for multi-omics and drug
 Associate Prof Wang Lina Applied Materials: New job engineering and manufacturing solutions	 Associate Prof Wang Lina Capable Array platform for multi-omics and drug	 Associate Prof Wang Lina Applied Materials: New job engineering and manufacturing solutions

COMMUNITY ENGAGEMENT

Various community engagement initiatives



Visits to benefit clubs



Mentorship of young children (with YWCA)

Rag and Flag

Raising funds for benevolence



INDUSTRIAL LINKAGES

Industrial Seminar Series and company visits

Industry partners include: Alibaba; Cargill; P&G; AstraZeneca; ExxonMobil; Cubist Systematic Strategies; Deutsche Bank; Novartis; Micron; GSK; Euronext, among others.



Science Career Fairs

Students get to meet employers, who offer internships and jobs

MIS-CHS Case Competition

COLLEGE OF HUMANITIES AND SCIENCES (CHS)
CASE COMPETITION (FROM 2022)

Solutions for Tomorrow



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AM ZAIDEEN
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UNIVERSITY
IN MALAYSIA



87
UNDERGRADUATE
PROGRAMMES



245
POSTGRADUATE
PROGRAMMES

UKM **SHAPE**
The National University of Malaysia



335
UKM **SHAPE**
ACADEMIC
PROGRAMMES



Enquiries:

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**CHAIRPERSON:
PROF. DR. ZULQARNAIN MOHAMED
(UNIVERSITY OF MALAYA, UM)**

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<p>SANTI MARTINI (Airlangga University, Indonesia)</p>	<p>MOHD FIRDAUS ABDUL WAHAB (University of Technology Malaysia, Malaysia)</p>

INTRODUCTION

- The trend shows increasing publications with international collaborations in Science & Technology.
- Advantages of international collaboration:
 - Increase visibility
 - Share project costs
 - Share/gain access to expensive resources
 - Funding opportunities.

RISING ISSUES (PROBLEMS & CHALLENGES)

Communication Platform

- Lack of ASDS information.
- No formal platform for ASD members to communicate and share information.

Funding & Research Grant

- Policies come with funding.
- Cross-border restriction.
- Mobility issues among researchers.
- Research grant: Researchers are interested in national grants instead of international grants.

SOLUTIONS & STRATEGIES

Enhance communications and information sharing

- Email list
- ASDS website
- ASD Network
- ASD Forum
- Conference

Increase collaborations

- Find common global issues.
- Research highlights platform.
- Create a network/link between associations in Asian countries.
- Circulate abstracts/synopsis of the current project.

Enhance academic program

- Student mobility/
sandwich program -
collab with other univ.
- Visiting professors.
- Inter-country
supervision team.
- Summer school (e.g.
Hokkaido Univ.,
Japan)

STRENGTHENING INDUSTRIAL LINKAGES & COMMUNITY ENGAGEMENT

LEADER:

ASSOC. PROF. TS. DR. SAIFFUL KAMALUDDIN MUZAKIR @ LOKMAN
(UNIVERSITI MALAYSIA PAHANG, UMP)

PRESENTER:

ASSOC. PROF. DR HARIRI ARIFIN
(UNIVERSITI KEBANGSAAN MALAYSIA, UKM)

STRENGTHENING INDUSTRIAL LINKAGES & COMMUNITY ENGAGEMENT

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PROF. DR. HAILIZA KAMARULHAILI, Malaysia

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PROF. DR. JUALANG AZLAN GANSAU, Malaysia

AP DR. NOR AZWADY ABD. AZIZ, Malaysia

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ISA, Malaysia

Secretariate: AP Dr Rizafizah Othaman, MS. Lily Khairiah Kadaruddin

Challenges	Solutions	Strategies
<p>1. Financial</p> <ul style="list-style-type: none"> -Company having financial constrain -Financial support to outreach to industry 	<ul style="list-style-type: none"> -Incentive to engaged industry such as tax exemption -Have a special unit responsible for industrial linkage; to train the researchers and be the “match-maker” 	<ul style="list-style-type: none"> -Financial assistance by government & industry in terms of matching grants to support the national agenda. -Initiate a meeting and regular meetings through hi-tea, dinner, or events with industries.
<p>2. Misaligned expectation</p> <ul style="list-style-type: none"> -Small salary for fresh graduates in Science under current living cost. -University has high expectations for industrial contribution while industry focuses only on their profits and operations. -Industry already has its desired university, and difficult to link unless the student’s competency is already proven. 	<ul style="list-style-type: none"> -Support by the government to provide incentives for living to the graduates. -Start with a small problem with small funding to build a rapport. -Send students for internship and exchange. -Finding the right timing for the interaction, need to keep close the industry for future opportunities. 	<ul style="list-style-type: none"> -Increase the skill and knowledge to equip with 4IR using an online education platform. -Industrial visit with higher management level -Appoint competent PIC as liaison officer to follow-up activities with industry. -Special Event for university-industry strategic partnership through discussion and MoU.

Challenges	Solutions	Strategies
<p>The right person</p> <ul style="list-style-type: none"> -How to establish contact. -Find the proper person. -Give the staff exposure to the industry. 	<ul style="list-style-type: none"> -Pursuing engagement with the same group of personnel for stronger relationships. -co-develop and co-manage a course with industry. 	<ul style="list-style-type: none"> -Flexibility in engagement collaboration models such as open joint degree programs. -Highlighting successful partnerships to increase visibility to public. -Regular meetings and discussion.
<p>Limited industry due to location</p> <ul style="list-style-type: none"> -Located in island with limited industry 	<ul style="list-style-type: none"> -Locate and engage with the nearest big industry player by having a matching interest in certain research field. 	<ul style="list-style-type: none"> -Communicate with the government to have industry using local resources. -Start with the community to initiate start-up companies.
<p>Industrial-based courses in university are not offered.</p> <ul style="list-style-type: none"> -Course adjustment for international/industrial students. 	<ul style="list-style-type: none"> -Having a win-win situation that tailors to industrial needs. -Shorten a course. 	<ul style="list-style-type: none"> -Create a platform, locate the mutual interest where researchers can access and get funded. -Attractive course and hybrid model.



Community Engagement

Challenges	Solutions	Strategies
<p>1. Financial</p> <ul style="list-style-type: none"> - Limited funding - Project not sustainable - Community depending on funding from government. 	<ul style="list-style-type: none"> -Find funding from private agencies/industries The proposal/activity must meet community needs. -Start a pilot model to fundraising larger project. 	<ul style="list-style-type: none"> Arrange a CSR activity for a certain company. -Smart partnership between government, industry, community, university, and media. -Keep doing fundraising activities, although it is not easy!
<p>2. Misaligned expectation</p> <ul style="list-style-type: none"> -Community expects the contribution of fund, time and commitment from university -Difficult to change community pragmatic mindset. 	<ul style="list-style-type: none"> -The university should allocate the resources to create impactful results. -Structured engagement with community leader for him to justify the university commitment. 	<ul style="list-style-type: none"> -University needs to collaborate with the right industry using the CSR allocation. -Come out with a policy for community engagement such as an open campus policy. -Create maker space and training inside the campus for the community to solve their own issues with our help.

Challenges	Solutions	Strategies
<p>3. The right person/community</p> <ul style="list-style-type: none"> -How to ensure effective participation from community -How to find the needs of the community? 	<ul style="list-style-type: none"> -Write a clear and legal contract -Research the needs by explaining them in simple words. 	<ul style="list-style-type: none"> -Identify the needs of the community and propose a sustainable proposal. -Work together to find the right framework/model.
<p>4. Visibility</p> <ul style="list-style-type: none"> -Activity is not publicized widely 	<ul style="list-style-type: none"> -Appoint the right person as the middleman 	<ul style="list-style-type: none"> -Work closely with the corporate unit of the university

Members photo



FASILITATORS



Thank you

IMPROVING THE TEACHING AND LEARNING CLIMATE IN HIGHER EDUCATION

CHAIRPERSON:

PROF. DR. HAJAH FARIDA ZURAINA MOHD YUSOF
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RISING ISSUES (PROBLEMS & CHALLENGES)

1. A lot of focus on how to use current technology but not align with learning outcome.
2. The rising of mental health issues among students and staff.
3. Increasing number of drop out due to financial issues.
4. Students do not really get hands –on.
5. Some of the parents do not encourage their kids to study science due to low salary
6. Teachers are not being well trained to teach STEM and develop passionate in Science.
7. Policy of the Ministry of Education on clustering the secondary school science stream contribute to the declining of science students.

SOLUTION

1. Academics have to master in new technology such as ChatGPT as well as the pedagogy.
2. Relook at the primary and secondary education - teachers should be in the top rank qualification e.g. Finland
3. Reconstruct curriculum for science at the university.
4. Focus on soft skill eg. AI, science data and computer skills.
5. Produce good science eco-system – provide students with skills to survive

STRATEGY TO OVERCOME

1. Innovation – sharing Best Practices from NUS
2. Collaboration among Asian universities – collaborative teaching to make science interesting. Make instruments automated so that students from participating universities can take part in the experiments
3. Professors train teachers – ASDS Representative YBhg. Prof Dr. Basha to bring up to the attention of MOSTI that all science teachers to be trained and reskilled by the renowned professors.
4. Develop the structured road maps academic program including survival camp for the 1st year, leadership skills for the 2nd year to organize event for graduating seniors, internship sharing from alumni on their profession the 3rd year students.