

KEPAKARAN PENSYARAH FAKULTI BERDASARKAN KLUSTER PENYELIDIKAN / LECTURER EXPERTISE BASED ON RESEARCH CLUSTER (FSM)

JABATAN BIOLOGI / DEPARTMENT OF BIOLOGY										
BIL. / NO.	NAMA / NAME	PENYELIDIKAN / RESEARCH								
		KAEDAH / METHOD								
		Eksperimen (Sains Sosial)	Kajian Tinjauan	Etnografi	Kajian Naratif / Kajian Perpustakaan	Kajian Kes	Eksperimen (Makmal / Klinikal)	Penyelidikan berasaskan Studio	Penyelidikan Makmal	Lain-lain (Nyatakan)
<i>Experiment (Social Science)</i>	<i>Survey review</i>	<i>Ethnography</i>	<i>Narrative Studies / Library Studies</i>	<i>Case Studies</i>	<i>Experiment (Lab / Clinical)</i>	<i>Studio Based Research</i>	<i>Practice Lab Research</i>	<i>Other (specify)</i>		
1	Prof. Madya Dr. Che Nidzam bt Che Ahmad	√	√			√				Biology/Science Education.
2	Prof. Madya Dr. Fatimah bt Mohamed	√	√		√	√	√	√		Main Cluster: Biodiversity and National Heritage. Main Focus: Plant Taxonomy. Second Focus: Plant Reproductive Biology, Cytogenetics. Other Cluster Education: Action Research.
3	Prof. Madya Dr. Haniza Hanim bt Mohd Zain						√	√		Histologi Gunaan Haiwan, Bioteknologi Mamalia Kecil
4	Prof. Madya Dr. Husni bin Ibrahim						√	√		Main Cluster: Ecology, Biodiversity and Environmental Science.
5	Prof. Madya Dr. Mai Shihah bt Abdullah	√			√		√	√		Main Cluster: Environmental Biotechnology Main Focus: Bee Products and Fungi Allergies, Apiculture and Mellisopalynology, Science and Biology Curriculum Design.
6	Prof. Madya Dr. Norjan bt Yusof						√			Main Cluster: Environmental Biotechnology, Bioprocess Technology. Main Focus: Biological Wastewater Treatment, Bioenergy, Waste Management.
7	Prof. Madya Dr. Norhayati bt Daud									Botani, Fitokimia dan Kultur Tisu Tumbuhan
8	Prof. Madya Dr. Nor Nafizah bt Mohd Noor	√					√	√		Main Cluster: Biodiversity and National Heritage. Main Focus: Plant Systematics, Plant Anatomy, Micromorphology, Palinology & Phytochemistry. Second Focus: Plant Tissue Culture. Other Cluster Education: Action Research & Module Development.

9	Prof. Madya Dr. Nurul Bahiyah bt Abd Wahid					√	√	√	Main Cluster: Environmental Engineering, Environmental Science. Main Focus: Atmospheric Science, Pollution, Forecasting and Prediction.
10	Prof. Madya Dr. Muhammad Aqil Aryan Wong						√	√	Protein Chemistry, Microbial Biotechnology, Microbiology
11	Prof. Madya Dr. Rosmilah bt Misnan						√	√	Allergy, Proteomics, Medical Biotechnology, Molecular Biology
12	Prof. Madya Dr. Shakinaz bt Desa	√	√			√	√	√	Main Cluster: Biochemistry-Biosensor. Main Focus: <i>In silico</i> Studies, Seeds Biochemistry, Aquatic Biochemistry, Creativity and Technology in Higher Education.
13	Prof. Madya Dr. Syakirah bt Samsudin	√	√			√	√	√	Biodiversity and Sustainable Development (Animal Physiology, Toxicology - Fish, Aedes Aegypti), Solar & Science, Problem-based Learning, iCGPA
14	Prof. Madya Dr. Som Cit a/p Si Nang						√	√	Main Cluster: Environmental Biology, Environmental Science. Main Focus: Freshwater Ecosystem, Phytoplankton, Freshwater Pollution.
15	Dr. Adibah bt Abu Bakar						√	√	Main Cluster: Molecular Biology. Main Focus: Evolutionary Systematics.
16	Dr. Alene bt Tawang						√	√	Main Cluster: Developmental Biology, Reproductive Biology, Endocrinology.
17	Dr. Azi Azeyanty bt Jamaluddin						√	√	Main Cluster: Plant Biodiversity. Main Focus: Plant Systematics and Taxonomy, DNA Barcoding.
18	Dr. Hamidah bt Idris						√	√	Main Cluster: Microbiology. Main Focus: Actinobacteria, Taxonomy, Systematic, Natural Product, Microbial Diversity, Molecular Biology.
19	Dr. Jameel Rabee Jameel Al-Obaidi						√	√	Main Cluster: Molecular Biology, Biotechnology. Main Focus: Proteomics, Bioinformatics Plant and Fungal Biology.
20	Dr Mohamad Termizi bin Borhan	√	√		√	√			Main Cluster: Science/Biology Education. Main Focus: Problem based Learning, Effective Reflective Practice of pre-Service Teachers, Qualitative Research in Education, Design Thinking, Design based Research and Design and Development Research.

21	Dr. Muhammad Hakimi bin Mohd Kassim						√		√	Main Cluster: Molecular Physiology (Extracellular Vesicle Biology, Intercellular Communication) and Cytoophidium Biology.
22	Dr. Noraine bt Salleh Hudin						√		√	Main Cluster: Animal Ecology, Animal Biodiversity. Main Focus: Ornithology, Urban Stress Ecology, Avian Nutrition, Animal Conservation.
23	Dr. Norliana binti Mohd Rosli						√		√	Main Cluster: Marine Biodiversity, Marine Ecology. Main Focus: Marine Benthic Ecology, Marine Invertebrates Taxonomy, Marine Ecosystem Monitoring, Pollution.
24	Dr. Nurhaida bt Kamaruddin						√		√	Main Cluster: Molecular Biology, Biotechnology. Main Focus: Fungal Molecular Biology, Strain Improvement.
25	Dr. Raja Farhana bt Raja Khairudin						√		√	Computational Biology, Bioinformatics, Molecular Evolution, Genomics
26	Dr. Remmy Keong Bun Poh						√		√	Main Cluster: Plant and Animal Genetics, Molecular Biology, Aquatic Animal Breeding
27	Dr. Suzita binti Ramli						√		√	Main Cluster: Food Microbiology, Food Safety. Main Focus: Natural Product, Foodborne Pathogen, Hygiene.
28	Dr. Syazwan bin Saidin						√		√	Main Cluster: Parasitology, Molecular Medicine, Biotechnology. Main Focus: Infectious Disease, Epidemiology.
29	En. Azmi bin Ibrahim						√		√	Main Cluster: System Multimedia.
30	En. Zahid bin Md Said						√		√	Main Cluster: Biodiversity and National Heritage. Main Focus: Plant Ecology, Higher Plants Systematics. Second Focus: Phytogeography and Biogeography, Urban Forest. Other Cluster Education : Environmental Education and Sustainable Development Education.
31	Pn. Marina bt Mokhtar						√		√	Main Cluster: Molecular Biology, Biotechnology. Main Focus: RNA Silencing. Plant Virology.
32	Pn. Adibah Abu Bakar						√		√	Main Cluster: Molecular Biology. Main focus: Evolutionary Systematics.

JABATAN KIMIA / DEPARTMENT OF CHEMISTRY

BIL. / NO.	NAMA / NAME	PENYELIDIKAN / RESEARCH								
		KAEDAH / METHOD								
		Eksperimen (Sains Sosial)	Kajian Tinjauan	Etnografi	Kajian Naratif / Kajian Perpustakaan	Kajian Kes	Eksperimen (Makmal / Klinikal)	Penyelidikan berasaskan Studio	Penyelidikan Makmal	Lain-lain (Nyatakan)
<i>Experiment (Social Science)</i>	<i>Survey review</i>	<i>Ethnography</i>	<i>Narrative Studies / Library Studies</i>	<i>Case Studies</i>	<i>Experiment (Lab / Clinical)</i>	<i>Studio Based Research</i>	<i>Practice Lab Research</i>	<i>Other (specify)</i>		
1	Prof. Dr. Illyas bin Md Isa							√	Analytical Chemistry, Electrochemistry	
2	Prof. Dr. Ismail bin Zainol							√	Sains Polimer, Biobahan	
3	Prof. Dr. Azlan bin Kamari							√	Analytical Chemistry, Environmental Chemistry and Nanomaterials	
4	Prof. Madya Dr. Mohd Azlan bin Nafiah							√	Kimia Bahan Semulajadi	
5	Prof. Madya Dr. Azmi bin Mohamed							√	Surfactant and Colloidal Chemistry	
6	Prof. Madya Dr. Norhayati bt Hashim							√	Nanomaterials and Inorganic Chemistry	
7	Prof. Madya Dr. Saripah Salbiah bt Syed Abdul Azziz							√	Extraction, Isolation and Structural Elucidation of Natural Products	
8	Dr. Aisyah bt Mohamad Sharif	√	√			√		√	Material Science, Surface Modification, Self Assembled Monolayers (SAMs), Liquid Crystal, STEM Education	
9	Dr. Hafsah bt Taha	√	√			√			Chemistry/Science Education, Innovative Teaching Strategy	
10	Dr. Lee Tien Tien	√	√						Chemistry/Science Education, Instructional Technology, Module Development	
11	Dr. Mazlina bt Musa							√	Analytical Chemistry, Advanced Material, Ionothermal Synthesis	
12	Dr. Mohd Mokhzani bin Ibrahim	√	√			√			Chemistry/Science Education, Innovative Teaching Strategy	
13	Dr. Mohamad Idris bin Saidin							√	Analytical Chemistry, Electrochemical Sensor, Nanomaterials	
14	Dr. Mohamad Saufi bin Mohd Rosmi							√	Kimia Fizikal	
15	En. Mohamad Syahrizal bin Ahmad							√	Organic Chemistry, Electrochemistry	

16	Dr. Muhd Ibrahim bin Muhamad Damanhuri	√	√			√	√	√	Chemistry/Science Education, Teaching Kits Development, Instructional Technology Application
17	Dr. Noorshida bt Mohd Ali							√	Inorganic Chemistry/Synthesis Coordination Compound
18	Dr. Norlaili bt Abu Bakar							√	Chemical Sensor, Molecularly Imprinted Polymer, Adsorption Behavior
19	Dr. Norlinda bt Daud							√	Polymer Composites
20	Dr. Nurulsaidah bt Abdul Rahim		√			√		√	Polymer Chemistry, Biomaterials, Chemistry/Science Education
21	Dr. Siti Munirah bt Sidik							√	Nanomaterials and Catalysis
22	Dr. Sivaranjan Kuppan							√	Graphene based Nanocomposites, Nanocatalysis, Water Splitting, CO2 Reduction
23	Dr. Suzaliza bt Mustafar							√	Materials Chemistry, Coordination Chemistry
24	Dr. Wan Haslinda bt Wan Ahmad							√	Kimia Analisis, Kimia Alam Sekitar
25	Dr. Wan Mohd. Nuzul Hakimi bin W. Salleh							√	Natural Product Chemistry (Essential Oils and Phytochemistry)
26	Dr. Wan Rusmawati bt Wan Mahamod							√	Kimia Analisis, Kimia Surfaktan
27	Dr. Yuhanis bt Mhd. Bakri					√		√	Organic Chemistry, Natural Products Chemistry
28	Dr. Yusnita bt Juhair							√	Coordination Chemistry, Inorganic Chemistry

JABATAN FIZIK / DEPARTMENT OF PHYSICS

BIL. / NO.	NAMA / NAME	PENYELIDIKAN / RESEARCH								
		KAEDAH / METHOD								
		Eksperimen (Sains Sosial)	Kajian Tinjauan	Etnografi	Kajian Naratif / Kajian Perpustakaan	Kajian Kes	Eksperimen (Makmal / Klinikal)	Penyelidikan berasaskan Studio	Penyelidikan Makmal	Lain-lain (Nyatakan)
<i>Experiment (Social Science)</i>	<i>Survey review</i>	<i>Ethnography</i>	<i>Narrative Studies / Library Studies</i>	<i>Case Studies</i>	<i>Experiment (Lab / Clinical)</i>	<i>Studio Based Research</i>	<i>Practice Lab Research</i>	<i>Other (specify)</i>		
1	Prof. Dr. Suriani Abu Bakar						√	√	Nanomaterials, Nanotechnology, Carbon related Material, Carbon Nanotubes, Graphene	
2	Prof. Dr. Syed Abdul Malik bin Syed Mohamad	√					√	√	Organic Electronics, Electrical Characterization, Technology in Society	
3	Prof. Madya Dr. Faridah Lisa bt Supian						√	√	Nanophysics, Organic Thin Film	
4	Prof. Madya Dr. Nurulhuda bt Abd. Rahman	√	√						DDR – Instrument and Module, Basic Mixed Method Design, Action Research	
5	Prof. Madya Ts Dr. Shahrul Kadri bin Ayop		√			√	√	√	Applied Optics, Physics Education	
6	Dr. Anis Nazihah binti Mat Daud	√					√	√	Instrumentation, Nondestructive Testing, Science Education (Physics)	
7	Dr. Izan Roshawaty bt Mustapa		√				√	√	Biopolymer Nanocomposites	
8	Dr. Lilia Ellany binti Mohtar	√	√			√			Physics Education, STEM Education, SEM-AMOS Analysis	
9	Dr. Mohd Ikhwan Hadi bin Yaacob						√	√	Quantitative Reciprocal Instrument Calibration (QRIC)	
10	Dr. Mohd Norzaidi bin Mat Nawi						√		Sensor Developements, Instrumentation	
11	Dr. Mohd Syahrman bin Mohd Azmi								Solar Energy Technology, Energy Physics	
12	Dr. Nurul Syafiqah Yap bt Abdullah	√					√	√	Physics Education, Instrumentation	
13	Dr. Rosazley bin Ramly						√	√	Material Science, Bio-based Materials	
14	Dr. Siti Nursaila binti Alias	√	√						Physics Education	
15	Dr. Tho Siew Wei	√	√					√	Physics Education	
16	Ts. Dr. Muhammad Noorazlan bin Abd Aziz						√	√	Applied Optics, Nanoscience, Materials Science, Applied Glass and Ceramics	

17	Dr. Omar Ayad Fadhil Al-Zuhairi		√				√		√	Semiconductor Materials, Nanotechnology, Optoelectronics and Glass
18	En. Ahmad Kamal bin Ariffin	√							√	Physics Education, Solid-States Physics
19	En. Mohd Faudzi bin Umar								√	Theoretical Physics
20	En. Roszairi bin Haron		√				√		√	Thin Film Technology

JABATAN MATEMATIK / DEPARTMENT OF MATHEMATICS

BIL. / NO.	NAMA / NAME	PENYELIDIKAN / RESEARCH								
		KAEDAH / METHOD								
		Eksperimen (Sains Sosial)	Kajian Tinjauan	Etnografi	Kajian Naratif / Kajian Perpustakaan	Kajian Kes	Eksperimen (Makmal / Klinikal)	Penyelidikan berasaskan Studio	Penyelidikan Makmal	Lain-lain (Nyatakan)
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1	Prof. Dr. Marzita bt Puteh	√	√	√	√	√				Main Cluster: Mathematics Education, Pedagogical Content Knowledge (PCK) & Using Bar Model in Teaching and Learning (T&L), Development and Design Research (DDR) of Teaching and Learning Materials. Main Focus: Use of Technology in T&L, Mathematics Anxiety & Affective, Domain of Teaching and Learning. Second Focus: The Use of Manipulatives in Constructing Meaning to Teaching and Learning (T&L). Other Cluster Education: Qualitative & Design and Development Research.
2	Dr. Annie Gorgey	√	√							<i>ODE Berangka</i>
3	Prof. Madya Dr. Mazlini bt Adnan	√	√		√	√				Main Cluster: Mathematics Education & STEM Education. Main Focus: Conceptual Knowledge, Beliefs, Teaching and Learning. Second Focus: Structural Equation Modeling (SEM). Other Cluster Education: Quantitative & Design and Development Research.
4	Prof Madya Dr. Mohd Faizal Nizam Lee bin Abdullah	√	√			√				Pendidikan Matematik
5	Prof. Madya Dr. Nor Azah bt Samat @ Samot	√	√			√				Applied Statistics: Disease Mapping, Stochastic Difference and Differential Equations for Infectious Diseases, Statistical Modelling on Contraceptive Use.
6	Prof. Madya Dr. Nor'ashiqin bt Mohd Idrus	√	√			√				Teori Kumpulan dan Algebra

7	Prof. Madya Dr. Nor'ain bt Mohd Tajudin	√	√		√	√				Main Cluster: Mathematics Education. Main Focus: Teaching and Learning (T&L), Technology in Mathematics T&L, Metacognitive Awareness, HOTS in Mathematics T&L, Experimental Design Research, Design and Development Research. Other Education Cluster: Qualitative Research.
8	Prof. Madya Dr. Raja Noor Farah Azura bt Raja Ma'amor Shah	√	√			√				Teori Graf & Rangkaian
9	Prof. Madya Dr. Rohaidah bt Masri	√	√			√				Matematik Tulen (Teori Kumpulan)
10	Prof. Madya Dr. Zulkifley bin Mohamed	√	√			√				Statistik Robus, Pemodelan Statistik
11	Dr. Azhar bin Ahmad					√				Reka Bentuk Geometri Berbantuan Komputer
12	Dr. Fainida bt Rahmat	√				√				Pemodelan Matematik dalam Nanoteknologi
13	Dr. Fauzi bin Mohamed Yusof	√	√							Pemodelan matematik: Biomatematik
14	Dr. Foo Chuan Hui	√	√			√				Statistical Modelling, Applied Statistics, Stochastic Growth Model
15	Dr. Norazman bin Arbin	√				√				Pemodelan Geometri
16	Dr. Norhayati bin Ahmat	√	√							Pemodelan Geometri
17	Dr. Norsida bt Hasan	√	√							Pengaturcaraan Linear, Perlombongan Data
18	Dr. Noor Wahida bt Md. Junus	√	√			√				Penyelidikan Gunaan (Permodelan Statistik/Siri Masa)
19	Dr. Nor Afzalina bt Azmee	√	√							Statistik Gunaan
20	Dr. Nor Azian Aini bt Mat		√			√				Pemodelan Matematik: Bendalir
21	Dr. Nor Suriya bt Abd. Karim		√		√					Teori Graf
22	Dr. Nor Zila bt Abd Hamid	√	√							Pemodelan Matematik
23	Dr. Nur Hamiza bt Adenan	√	√			√				Pemodelan Matematik
24	Dr. Nurul Akmal bt Mohamed	√	√			√				Persamaan Perbezaan Separa
25	Dr. Nurul Huda bt Mohamed	√	√			√				Penyelidikan Operasi
26	Dr. Nurul Hila bt Zainuddin					√				Pemodelan Statistik

27	Dr. Phoong Seuk Yen	√	√			√				Statistik Gunaan, Siri Masa, Ekonometrik
28	Dr. Raja Lailatul Zuraida bt Raja Ma'amor Shah	√	√			√				Analisis Kompleks & Pendidikan Matematik
29	Dr. Rawdah Adawiyah bt Tarmizi		√		√					Teori Kumpulan dan Aljabar
30	Dr. Sabarina bt Shafie	√	√							Matematik Pengiraan, PDE Berangka
31	Dr. Shazlyn Mileana bt Shahrudin	√	√			√				Analisis Multivariat, Analisis Robus, Kaedah Pengurangan Dimesi
32	Dr. Zamzana bt Zamzamin @ Zamzamin	√	√							Analisis Kompleks Gunaan dan Pengkomputeran
33	En. Abdul Halim bin Amat @ Kamarudin	√			√	√				Penyelidikan Operasi
34	Cik Noorazrin bt Abdul Rajak @ Razak	√	√							Analisis Bayesian, Statistik Gunaan
35	En. Shahrizal bin Shamsudin		√			√				Aljabar, Pendidikan Matematik