

**APPENDIX 1**

NO.	PTJ	DEPARTMENT	AREA OF EXPERTISE	SPECIFIC REQUIREMENTS
1.	Academy of Malay Studies	Malay Language	Semantic (Malay Language) Pragmatic (Malay Language) Malay Language & Multimedia Translation (Malay Language)	PhD (Linguistics) PhD (Malay Language & Multimedia/ Information Technology)
		Malay Linguistics	Applied Linguistics Computational Linguistics General Linguistics – Sociolinguistics General Linguistics – Syntax	PhD (Linguistics)
		Socio-Culture/ Malay Arts	Malay Arts: • Music Arts • Performing Arts • Calligraphy Arts	PhD (Malay Arts)
			Malay Socio-Culture: • Malay Economics • Malay Tourism	PhD (Malay Socio-Culture)
		Malay Literature	Comparative Literature  Malay Philology/ Malay Manuscript	PhD (Malay Literature)
2.	Faculty of Arts & Social Sciences	Anthropology & Sociology	• Industrial Sociology • Media/ Digital Psychology • Netnograph/ Social Anthropology	-
		Geography	• Economy Geography • Transport Geography • Environmental Economic	-
		English	• Eco-Criticism • Asian-American Literature • Modern Drama • Film Adaptation • Travel Literature	-

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NO.	PTJ	DEPARTMENT	AREA OF EXPERTISE	SPECIFIC REQUIREMENTS
		International & Strategic Studies	<ul style="list-style-type: none"> <li>• International Security</li> <li>• International Law &amp; Internal Political Economy</li> <li>• Defence &amp; Strategic Studies</li> <li>• International Relations with area studies (South Asia, America, Europe &amp; Africa)</li> </ul>	-
		Southeast Asian Studies	<ul style="list-style-type: none"> <li>• International Relations/ Political Science/ Political Economy of Southeast Asia</li> <li>• Performing Arts in Southeast Asia</li> </ul>	-
		East Asian Studies	<ul style="list-style-type: none"> <li>• China Studies (Politics/ International Relations)</li> <li>• Korean Language and Education</li> </ul>	-
		Indian Studies	<ul style="list-style-type: none"> <li>• Tamil Classical Literature</li> <li>• Sociology (Malaysian Indian)</li> <li>• Theoretician field work and data processing (Indian Studies)</li> <li>• Indian Religious and Philosophy Studies</li> <li>• Women in Indian Society</li> </ul>	Expert in theoretician, field work and data processing
		Media & Communication Studies	<ul style="list-style-type: none"> <li>• Media Entrepreneurship</li> <li>• Professional Writing</li> </ul>	<ul style="list-style-type: none"> <li>• Verbally efficient communication skills and writing; in Malay and English</li> <li>• Proof of publication in Malay</li> </ul>
		Chinese Studies	<ul style="list-style-type: none"> <li>• Chinese Literature Modern/ Classic</li> </ul>	-
		Social Administration & Justice	<ul style="list-style-type: none"> <li>• Disability Studies</li> <li>• Medical Social Work</li> <li>• Social Work &amp; Disaster</li> <li>• Social Work Education</li> </ul>	-

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			<ul style="list-style-type: none"> <li>• International Social</li> </ul>	
		History	<ul style="list-style-type: none"> <li>• Border Formation in Malaysia</li> <li>• Formation of Public Policies in Malaysia</li> </ul>	-
		Gender Studies Programme	<ul style="list-style-type: none"> <li>• Gender and Economy</li> <li>• Gender and Health</li> <li>• Gender and Masculinity</li> <li>• Gender and Digital Humanities</li> </ul>	-
3.	Faculty of Creative Arts	Music	Instrumental Studies <ul style="list-style-type: none"> <li>• Piano</li> <li>• Violin</li> <li>• Woodwind</li> <li>• Brass</li> <li>• Vocal</li> </ul>	DMA (Doctor of Musical Arts )Degree; expertise in the instrumental performance
			Music Education Musicology Ethnomusicology Composition Orchestration Music Technology	PhD degree in Music Education, Musicology, Ethnomusicology.  PhD or DMA in Composition, Orchestration or Music Technoogy.
		Drama	Scenography/ Theatre Technology/ Theatre Design	PhD/ MFA in the field of Scenography/ Theatre Technology/ Theatre Design
			Asian Theatre Studies	PhD in the field of Asian Theatre Studies
			Acting & Directing	PhD in the field of Acting & Directing
			Vocal & Movement for Theatre	PhD in the field of Vocal & Movement for Theatre
		Dance	Art Management	Master of Fine Arts
			Movement Analysis	Certified Movement Analyst (CMA)
			Performance Studies/ Practice-Led Research or Research-Led Practice/ Dance Criticism	-
		Visual Art Programme	Critical Museum/ Curatorial/ Heritage Studies	Good command in Chinese Language

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			Preference will be given to specialization in Chinese Traditional Arts/ Culture/ Digital Studies/ Contemporary Visual Studies/ Culture/ Arts/ Film Studies.	
4.	Faculty of Built Environment	Quantity Surveying	Construction Law & Contract	<p>Bachelor of Quantity Surveying (Accredited by Board of Quantity Surveyors Malaysia) &amp; PhD in Construction Law/ Construction Contract or related areas.</p> <p>Registered Consultant QS (CQS) or Registered Professional QS (PQS) with the Board of Quantity Surveyors Malaysia will be a added advantage.</p>
			Project Management	<p>Bachelor of Civil Engineering/ Mechanical Engineering/ Electrical Engineering/ Building Services Engineering &amp; PhD in Project Management.</p> <p>Candidate with Project Management Professional (PMP) qualification from Project Management Institute (PMI) will be an added advantage.</p> <p>Priority for international candidate.</p>
		Building Surveying	<p>Building &amp; Property Management</p> <p>Accounting &amp; Financial Management; Property Valuation &amp; Taxation; Property Economics &amp; Investment.</p>	PhD in related area of expertise preferably with building surveying background and related multidisciplinary built environment knowledge on building and property management.
		Real Estate	Valuation	Bachelor of Estate Management/ Property

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				<p>Management/ Valuation any year or Bachelor of Land Administration &amp; Development UTM since 2011.</p> <p>PhD in any Real Estate related topic.</p> <p>Probationary Valuer or Registered Valuer with the Board of Valuers, Appraisers, Estate Agents and Property Managers (BOVEAP) will have an added advantage.</p> <p>Local applicant only</p>
			Property Development	<p>Bachelor of Estate Management/ Property Management/ Valuation any year or Bachelor of Land Administration &amp; Development UTM since 2011.</p> <p>PhD in land development or property development.</p> <p>Local &amp; international applicants are accepted.</p>
5.	Faculty of Business & Accountancy	Marketing	Digital Marketing	<ul style="list-style-type: none"> <li>• PhD in this area and/or</li> <li>• Published in good marketing/ related journals in this area</li> <li>• Practical experience in this area</li> </ul>
Marketing Analytics				
Operations & Management Information Systems		Big data analytics, data-intensive computing, machine learning and artificial intelligence.	Operations & Management Information Systems	
Finance & Banking		Financial Markets, Investment and Asset Pricing	PhD in Finance	
		Corporate Finance		
	Banking			
Business Policy & Strategy	Business Law	PhD (Law Master's Degree (LLM), Bachelor of Law)		

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			International Business Management	PhD (International Business Management, Innovation Management, Organizational Behavior/ Globalization)
			Entrepreneurship	PhD (Entrepreneurship/ Human Resource Management/ Leadership/ Management)
			Work Psychology	PhD (Psychology, Human Resource Management)
		Accounting	Financial Accounting & Reporting	Able to teach Professional Courses and Finance topics.
			Taxation	
			Management Accounting	
			Information Technology	
6.	Faculty of Computer Science & Information Technology	Department of Artificial Intelligence	Deep Learning/ Natural Language Processing/ Speech Processing	PhD (Computer Science/ Artificial Intelligence/ Natural Language Processing or in any related research areas)
		Department of Software Engineering	Software Architecture/ Modeling and Design/ Software Development Process/ Embedded Real-Time Systems/ Programming Languages and Systems/ Project Management in Industry 4.0/ Security, Reliability and Privacy/ Parallel, Distributed and Concurrent Systems	PhD (Computer Science/ Software Engineering)
		Department of Information Technology	Big Data/ Data Analytics/ Data Management for Big Data/ Security, Privacy Issues in Big Data/ Data Mining Tools & Techniques for Big Data	PhD (Computer Science) or any related research areas
		Department of Computer & Science Technology	Multimedia Data Processing/ Multimedia Digital Design	PhD (Computer Science) or any related research areas
		Department of Library & Information Science	Digital Literacy, Digital Humanities, Informetric, Scientometrics, Social/ Community Informatics,	PhD (research in related areas)

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			Research Data Management, Knowledge Management	
7.	Faculty of Economics & Administration	Economics	Macroeconomics; Microeconomics; Behavioral; Economics; Digital Economics; Game Theory; Behavioral Finance; Monetary Economics; Political Economy; Industrial Organization.	PhD in Economics.  Able to teach Macroeconomics/ Microeconomics and selected electives.
		Development Studies	Poverty & Equality; Social Development; Community Development; Migration Studies; Development Finance; Climate Change and Environment.	PhD in Economics; Economics; Development Studies; Social Sciences or in the specific fields listed.  Knowledge in policy intervention, experimental studies and/or data science will be an added advantage.
		Administrative Studies & Politics	Public Administration; Public Administration & Management; Public Policy; Public Finance; Political Science.	PhD in Public Administration, Financial Management/ Finance Management, Public Policy, Political Science.
		Applied Statistics	Data Analytics; Data Science; Statistical Computing; Actuarial Statistics; Econometrics; Financial Econometrics;	PhD in relevant areas of expertise with good knowledge in statistics.

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			Bayesian Statistics; Non-Parametric Statistics	
8.	Faculty of Education	Educational Foundation & Humanities	Art Education  (Malaysian/International candidates)	PhD in the field of Arts Education. Experienced in the field of education in educational institutions, highly motivated in research, teaching, supervision and publication
			Islamic Education/ Tahfiz Education  (Malaysian candidates only)	PhD in the field of (Islamic/ Tahfiz Education). Experienced in the field of education in educational institutions, highly motivated in research, teaching, supervision and publication
			Sociology in Education  (Malaysian candidates only)	PhD in the field of Educational Sociology/ Social Science Education. Experienced in the field of education in educational institutions, highly motivated in research, teaching, supervision and publication
			Values Education/ Moral Education/ Civic & Citizenship Education (Malaysian candidates only)	PhD in the field of Values/ Moral/ Character/ Civic and Citizenship Education. Experienced in the field of education in educational institutions, highly motivated in research, teaching, supervision and publication
			Post-Doctoral (any field in Social Sciences Education/ Islamic Studies)	PhD in the field Social Sciences/ Sociology/ Islamic Education/ Islamic Studies.  Experienced in the field of education in educational institutions, highly motivated in research, teaching, supervision and publication  Fluent in Bahasa Malaysia & English (writing



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				& speaking)
		Curriculum & Instructional Technology	Instructional Design (Malaysian/International candidates)	Instructional Design and Digital Curriculum
		Language & Literacy Education	Teaching English as Second Language (Malaysian/International candidates)	TESOL, Literacy Education, Language Policies, Critical Pedagogy, Sociolinguistics, Performing Arts, Drama, Applied Linguistics, Teacher Education and any related fields.
	Arabic Language Education (Malaysian candidates only)		Arabic Language Education, Arabic Language Literature, Islamic Education	
	Chinese Language Education (Malaysian candidates only)		Mandarin Language Education, Chinese Language Pedagogy, Chinese Education, Teacher Education, Malaysian Chinese Studies	
		Educational Management, Planning & Policy	Sports Management (Malaysian candidates only)	PhD in Educational Management (Sports) with teaching experience
	ICT in Educational Management (Malaysian candidates only)		PhD in Educational Management (ICT) with teaching experience	
	Education Policy (Malaysian candidates only)		PhD in Education Policy with teaching experience	
		Mathematics and Science Education	Physical and Health Education (International candidates only)	PhD in Physical Education or Health Education and has at least 2 years of teaching experiences
		Educational Psychology & Counseling	Early Childhood Education (Malaysian/international candidates)	PhD in Early Childhood Education with experience of teaching at pre-school
	Educational Psychology (Malaysian/international candidates)		PhD in Educational Psychology with teaching experiences	
	Counseling (Malaysian candidates only)		PhD in Counseling, a registered Counselor	
	Special Education (Malaysian/international candidates)		PhD in Special Education with experience of teaching students with special needs	

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9.	Faculty of Engineering	Civil Engineering	<ul style="list-style-type: none"> <li>• Construction management/ Building construction</li> <li>• Soil/ Geotechnical engineering</li> <li>• Engineering survey/ GIS/ Remote sensing</li> <li>• Machine learning &amp; Big data in civil engineering</li> </ul>	Bachelor Degree in Civil Engineering and PhD in related fields with at least 3 years of industrial/ teaching/ post-doc experience
		Biomedical Engineering	<ul style="list-style-type: none"> <li>• Bio-design in Biomedical Engineering</li> <li>• Healthcare Engineering, Planning &amp; Design</li> <li>• Nano Technology in Biomedical Engineering</li> <li>• Engineering Analysis &amp; FEA Modeling of the Human Body</li> <li>• Engineering Mechanics for Biomedical Engineering</li> </ul>	<p>Bachelor Degree in Engineering and PhD in related fields with at least 3 years of teaching experiences.</p> <p>Possess industrial experiences that can be embedded into taught courses.</p> <p>Good research and publication and records.</p> <p>With professional membership status.</p>
		Electrical Engineering	<ul style="list-style-type: none"> <li>• Machine &amp; Drive</li> <li>• Power Electronics</li> <li>• Nanotechnology</li> <li>• Digital Electronics</li> <li>• RFIC Design</li> <li>• Data Analysis &amp; Machine Learning</li> <li>• Instrumentation &amp; Control System</li> </ul>	Bachelor Degree in Engineering and PhD in related fields with at least 2 years of industry/ post-doc experience.
		Chemical Engineering	<ul style="list-style-type: none"> <li>• Transport Phenomenon i.e. Momentum Transfer</li> <li>• Process Control &amp; Simulation Modeling</li> <li>• Particle Technology i.e. Air Pollution and Fluidization)</li> </ul>	<p>Bachelor Degree in Chemical Engineering and PhD in related fields.</p> <p>Possess industrial experiences that can be embedded into taught courses.</p>

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			<ul style="list-style-type: none"> <li>• Machine Learning &amp; Data Analytics</li> </ul>	<p>Good research and publication and records.</p> <p>With professional membership status.</p>
		Mechanical Engineering	<ul style="list-style-type: none"> <li>• Mechatronics</li> <li>• Computational Science and Machine Learning</li> <li>• Machine Design</li> <li>• Production Digitalization</li> <li>• Virtual &amp; Augmented Reality</li> <li>• Advanced Materials (Micro System)</li> <li>• Sustainable Energy</li> </ul>	<p><b>Mechatronics</b> PhD in related area with teaching experience in Mechanical Engineering, Communication and Electrical Engineering (among others)</p> <p><b>Computational Science and Machine Learning</b> PhD in related area with teaching experience in Mechanical Engineering, Computational and Programing (among others)</p> <p><b>Machine Design</b> PhD in related area with teaching experience in Mechanical Engineering, Hardware and Software (among others)</p> <p><b>Production Digitalization</b> PhD in related area with teaching experience in Manufacturing and Management, Supply Chain and Mechanical Engineering (among others)</p> <p><b>Virtual &amp; Augmented Reality</b> PhD in related area with teaching experience in Mechanical Engineering, Computational and Programing</p> <p><b>Advanced Materials (Micro System)</b> PhD in related area with teaching experience in Materials Engineering and Programing</p>

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				<p><b>Sustainable Energy</b> PhD in related area with teaching experience in Mechanical Engineering</p>
10.	Faculty of Languages & Linguistics	English	<ul style="list-style-type: none"> <li>• Language learning and assessment</li> </ul>	Priority is given to applicant with qualifications in the field of assessment/ testing
		Malaysian Languages and Applied Linguistics	<ul style="list-style-type: none"> <li>• General Linguistics (Chinese Program)</li> <li>• General Linguistics and/or Applied Linguistics (Indian Program)</li> <li>• Translation</li> </ul>	<ul style="list-style-type: none"> <li>• Chinese Program: Syntax, Phonetics, Morphosyntax, Historical Linguistics</li> <li>• Tamil Program: Syntax, Phonetics, Teaching Tamil as Second Language</li> <li>• Translation: Priority is given to applicant with qualifications in the field of English Language (Native/ Near Native) and Chinese Language (Native)</li> </ul>
		Arabic & Middle Eastern Languages	<ul style="list-style-type: none"> <li>• Arabic Linguistics</li> <li>• Persian Language</li> <li>• Turkish Language</li> </ul>	<ul style="list-style-type: none"> <li>• Arabic phonetics/ Computer linguistics/ Psycholinguistics/ Social linguistics/ Arabic discourse</li> <li>• Persian language teaching</li> <li>• Turkish language teaching</li> </ul>
		Asian & European Languages	<ul style="list-style-type: none"> <li>• Spanish Language</li> <li>• German Language</li> <li>• Italy Language</li> </ul>	<ul style="list-style-type: none"> <li>• Teaching Spanish/ German/ Italy language as foreign language</li> </ul>
		Language Unit	<ul style="list-style-type: none"> <li>• English Language Teaching and Learning</li> </ul>	<ul style="list-style-type: none"> <li>• Master's degree with teaching experience at the tertiary level</li> <li>• Bachelor's Degree with 5-10 years teaching experience at the tertiary level</li> <li>• English at CEFR C1</li> </ul>
		Higher Degree	<ul style="list-style-type: none"> <li>• Translation studies</li> <li>• General linguistics</li> <li>• Clinical linguistics</li> <li>• Language assessment</li> <li>• Online distance learning</li> </ul>	<ul style="list-style-type: none"> <li>• Diploma/ Master in Translation Studies</li> <li>• Cognitive Linguistics/ Neurolinguistics</li> <li>• Syntax/ Lexicology</li> <li>• Language disorder</li> <li>• Testing/ evaluation</li> <li>• Courseware development</li> </ul>

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11.	Faculty of Law	-	Alternative Dispute Resolution	PhD and equivalent experience in related field.
			Banking & Finance Law	
			English for Law	
			Indigenous Law	
			Islamic Law	
			Conveyancing	
			Law Firm Management	
12.	Faculty of Medicine	Anatomy	Clinical Anatomy/ Human Anatomy	MBBS/ relevant clinical Degree/ Master in Anatomy/ PhD relevant to Anatomy
		Anesthesiology	Vascular	Master in Anesthesiology (MAnest) or FANZCA or equivalent with relevant training in Vascular Anesthesia.  Warganegara.
			Science/ Biomedical statistic	PhD in science, relevant experience in conducting research independently.  Senior Lecturer DS51 Warganegara/ Bukan Warganegara
			Cardiac	Master in Anesthesiology (MAnest) or FANZCA or equivalent with relevant training in Cardiothoracic Anesthesia.  Warganegara.
		Biomedical Imaging	Nuclear Medicine Physicist	PhD & relevant experience in Nuclear Medicine Physics
			Cardiac & Thoracic Imaging Radiologist	MRaD or FRCR & relevant experience in Cardiac & Thoracic Imaging
			MSK Imaging Radiologist	MRaD or FRCR & relevant experience in MSK Imaging
			Neurointerventional Radiologist	MRaD or FRCR & relevant experience in MSK Imaging
		Biomedical Science	Bioinformatics and drug design	PhD
			Haematology & Blood	PhD

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			Transfusion	
		Clinical Oncology	Medical Physics (Radiotherapy)	PhD & relevant experience in Medical Physics (Radiotherapy)
			Oncologist	Postgraduate qualification in Clinical, Radiation or Medical Oncology approved by MMC
		Medical Microbiology	Clinical Immunology/ Clinical Bacteriology/ Clinical Virology/ HIV/ Clinical Mycology/ Immunology/ Molecular Virology/ Molecular Bacteriology/ Molecular Medical Entomology	MBBS/ MD/ Mpath/ MRCPPath  PhD with minimum 3 years post-doctoral experiences
		Medicine	Neurology	Stroke: Lecturer in 3 <sup>rd</sup> year of neurology subspecialty training
				General Neurology: MMed/MRCP & completed KKM gazettelement
			Nephrology	MBBS, Master in Internal Medicine (MMed)/MRCP
			Endocrinology/ Diabetology	Consultant endocrinologist: Completed subspecialty training in Endocrinology
				Physicians: MRCP/ M Med Internal Medicine or equivalent (who will undergo training in endocrinology & eventually become Consultant Endocrinologist)
				Biostatistician
			Haematology	Master in Internal Medicine (MMed)/ MRCP
		Geriatric Medicine	Neurophysiology (Basic Degree/Master)	
			Geriatrician (MRCP/MD/PhD) with expertise in Community Geriatrics	
				Specialist in Geriatric Medicine with commensurate qualifications, leadership and interpersonal skills

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				Lecturer in Geriatric Medicine/ Trainee specialist in Geriatric Medicine or Career Medical Officers in Geriatric Medicine
			Cardiology	MBBS/MRCP/PhD with experience in Electrophysiology  Lecturer in cardiology with MBBS/MRCP to pursue training in – Valvular Intervention, Electrophysiology and Structural Heart Disease
			Dermatology	MRCO or Master of Internal Medicine (MMed)
			Infectious Diseases	MMED/MRCP (General ID with an interest in Tropical Medicine, Travel Medicine & Epidemiology)  MMED/MRCP (General ID with an interest in HIV Medicine, STD/GUM & Epidemiology)  MMED/MRCP (General ID with an interest in Infection Control, Antimicrobial Resistance & Surveillance, Epidemiology)
			Respiratory	Respiratory & Critical Care Medicine – trained or with attachment/ experience in Acute Respiratory & Critical Care Medicine/ Respiratory Physician/ Internal Medicine  General Respiratory – Respiratory Physician/ Internal Medicine
			Rheumatology	MRCP/ Masters
			Palliative Medicine	MBBS, MRCP, Master
			Gastroenterology	MMed/ MRCP
		Molecular Medicine	Biochemistry or Clinical Biochemistry with expertise in	PhD in related areas listed

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			Molecular Biology and/ or Bioinformatics, Biostatistics	
		Nursing Science	Midwifery or Maternal & Child Health	PhD (field of Nursing), related Master/ Degree/ Bachelor in Nursing is a <b>MUST</b>
			Public Health Nursing	Registered Nurse
			Mental Health Nursing	Possess current Annual Practicing Certificate (APC) for nurses or Temporary Practicing Certificate (TPC) for foreigners
			Pediatric Nursing	
			Orthopedic Nursing	
			Eye, Nose & Throat Nursing	
			Possess post basic qualification: Midwifery or Maternal & Child Health/ Public Health Nursing/ Mental Health Nursing/ Pediatric Nursing/ Orthopedic Nursing/ Ophthalmology Nursing/ Eye, Nose & Throat Nursing	
			Minimum of five (5) years clinical working experience	
		Obstetrics & Gynaecology	Urogynaecology	MRCOG/ CCT (UROGYNAECOLOGY) or equivalent MObGyn
			Fetomaternal Medicine	MRCOG/ CCT (FMM) or equivalent MObGyn
			Paeds Adolescent Gynaecology	MRCOG/ CCT (PAG) or equivalent MObGyn
			Gynaecological Oncology	MRCOG/ CCT (GYNAEONCOLOGY) or equivalent MObGyn
		Ophthalmology	Vitreoretinal Surgery	FRCOphth (or equivalent)/ CCT; NSR registered; Fellowship in Vitreoretinal Surgery in unit with Paediatric Vitreoretinal experience
			Paediatric/ Ophthalmology/ Glaucoma	MSOphth/ FRCOphth/ NSR registered
		Otorhinolaryngology (ENT)	Otorhinolaryngology/ Head & Neck Surgery	Masters of Otorhinolaryngology/ Head & Neck Surgery; or FRCS in Otolaryngology



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				Specialist passionate in research, teaching and all academic pursuits  Special interest in Otolaryngology & Neurology
		Orthopaedic Surgery	Spine Surgery	MS (Ortho) or equivalent
			Arthroplasty Surgery	MS (Ortho) or equivalent
			Orthopaedic Oncology Surgery	MS (Ortho) or equivalent
			Foot & Ankle Surgery	MS (Ortho) or equivalent; Fellowship in Foot & Ankle Surgery or equivalent preferred
		Parasitology	Medical Parasitology	MBBS or Mpath
			Immunology	PhD
			Entomology	PhD
			Molecular Parasitology	PhD
		Pathology	Chemical Pathology in metabolic Medicine	MBBS/ equivalent; MPath, FRCPA or FRCPath
			Haematology	MBBS/ equivalent; MPath, FRCPA or FRCPath
			Anatomical Pathology - Respiratory Pathology - Gynaecologic Pathology - Bone & Soft Tissue Pathology	MBBS/ equivalent; MPath, FRCPA or FRCPath
			Forensic Pathology	MBBS/ equivalent; MPath, FRCPA or FRCPath
		Paediatric	Neonatology Intensive Care Unit (NICU)	MBBS or equivalent and MPaed or MMed (Paed) or MRCPCH
			Haematology, Oncology & Bone Marrow Transplant	MBBS or equivalent and MPaed or MMed (Paed) or MRCPCH
			Cardiology	MBBS or equivalent and MPaed or MMed (Paed) or MRCPCH
			Infectious Disease	MBBS or equivalent and MPaed or MMed (Paed) or MRCPCH
			Nephrology	MBBS or equivalent and MPaed or MMed (Paed) or MRCPCH
			Genetic/ Metabolic	MBBS or equivalent and MPaed or MMed (Paed) or MRCPCH

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NO.	PTJ	DEPARTMENT	AREA OF EXPERTISE	SPECIFIC REQUIREMENTS
			Community Paediatrics & Child Development	MBBS or equivalent and MPaed or MMed (Paed) or MRCPCH
		Physiology	General Human Physiology	PhD in Physiology or any related fields (Warganegara)
		Primary Care Medicine	Primary Care Medicine	MRCGP/ FRACGP/ MMed (Family Medicine)
		Physiological Medicine	Child Psychiatry	MBBS Master in Psychological Medicine Sub Speciality in child Psychiatry
			Clinical Psychologist	Master in Clinical Psychology PhD
		Rehabilitation Medicine	ICU Rehabilitation	Any one of these qualification: - Master of Rehabilitation Medicine, Universiti Malaya - American Board of Physical Medicine and Rehabilitation - Fellow of the Australasian Faculty of Rehabilitation Medicine (RACP)  An additional advantage if have: - Subspecialty training or certificate in Cancer/ ICU Rehabilitation - PhD
			Cancer Rehabilitation	
		Social & Preventive Medicine	Occupational & Environmental Health	Registered Public Health Medicine Specialist or a PhD holder in related field
			Health Management	
			Health Policy & Systems	
			Social Behavioral Sciences	
			Global Health	
			Public Health Nutrition Diet & Nutrition	
			Epidemiology	
		Surgery	Data Science, Healthcare Analytics & Modelling	Preferably at least 5 years experience post-subspecialty training (e.g. MS + fellowship in
			Upper Gastrointestinal/ Bariatric Surgery	

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			Vascular Surgery	UGI + 5 years as UGI consultant);  MD/PhD is an additional advantage		
			Plastic & Reconstructive Surgery			
			Endocrine Surgery			
			Colorectal			
		Sports Medicine	Exercise Medicine/ Musculoskeletal Medicine		Clinical physiologist (PhD holder with post-doc experience in clinical research)	
					Biostatistician	
		MERDU			Assessment	- PhD in Education/ Medical Education/ Health Professions Education or related educational field. - MBBS with Clinical Masters and Medical Education - Relevant teaching/ working experience preferred.
					Psychometrics	
					Educational Measurement	
					Curriculum & Pedagogy	
					Educational Leadership	
		Technology Enhanced Learning				
		Pharmacology			Clinical Pharmacology	PhD in Pharmacology or any related fields
					Pharmacokinetics	
					Nanomedicine	
Drug Delivery						
Natural Products						
Toxicology						
13.	Faculty of Science	Physics	Radiation Physics	With teaching experiences & good research record		
			Particle Physics			
		Science & Technology Studies	Sociology of Science/ Communication Science/ Innovation Management		PhD with specialization related to Science & Technology Studies, Sociology of Science, Science Communication and Technology/ Innovation Management.	
					A good scholarly publication record with teaching experience at the tertiary level is an advantage.	
		Geology			PhD in the listed area of expertise	
					Paleontology	

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			Petroleum Geophysics	
		Institute of Mathematical Sciences	Actuarial Sciences	PhD or having a professional body qualification in a recognized actuarial field is an advantage.
			Mathematics (Operational Research, Discrete Mathematics, Algebra, Numerical Analysis, Numerical Methods)	PhD
			Statistics (Data Science, Statistics, Probability)	PhD
		Chemistry	Forensic Science, Computational Chemistry, Bioorganic Chemistry, Organometallic Chemistry, Electrochemistry, Nanochemistry	PhD
		Institute of Biological Sciences	Mycology	Priority to candidate with qualification in electron microscopy OR with knowledge on the topics of plant diseases.
			Bioprocess Development & Fermentation Technology	Teaching experience in Bioprocess Development & Fermentation Technology for Microbiology, Strong linkages with bioprocess/ food/ pharmaceutical industries.
14.	Faculty of Pharmacy	Clinical Pharmacy & Pharmacy Practice	Pharmacokinetics	Bachelor of Pharmacy/
Pharmacoepidemiology	Bachelor of Pharmacy (Hons) PhD			
Clinical Pharmacy	Bachelor of Pharmacy/ Bachelor of Pharmacy (Hons) Master in Clinical Pharmacy and PhD			
Pharmacy Practice	Bachelor of Pharmacy/ Bachelor of Pharmacy (Hons) PhD			
Social & Administrative Pharmacy	Bachelor of Pharmacy/ Bachelor of Pharmacy (Hons) PhD			

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<b>NO.</b>	<b>PTJ</b>	<b>DEPARTMENT</b>	<b>AREA OF EXPERTISE</b>	<b>SPECIFIC REQUIREMENTS</b>
		Pharmaceutical Life Sciences	Clinical Pharmacology	Bachelor of Pharmacy/ Bachelor of Pharmacy (Hons) PhD
			Immunology	
		Pharmaceutical Technology	Biopharmaceutics	Bachelor of Pharmacy/ Bachelor of Pharmacy (Hons) PhD
			Quality Assurance	
			Regulatory Affairs	
15.	Centre for Sports & Exercise Sciences	Science Exercises	(1) Strength & Conditioning (2) Science of Coaching (3) Sports Nutrition (4) Sports Psychology (5) Sports Technology	PhD in relevant field.
		Sports Management	(1) Sports & Recreation (2) Sports Policy, Law & Governance (3) Sports Tourism (4) Sports Industry (5) Sports Economy	
16.	Centre for Research in Biotechnology for Agriculture (CEBAR)	-	Agricultural Biotechnology	PhD in the field listed with teaching experience
			System Biology	PhD in the field of computational and systems biology with teaching experience
17.	Institute for Advanced Studies (IAS)	-	Multidisciplinary Studies	PhD in Multidisciplinary Studies preferably combination of Science & Social Sciences  It is desirable for the potential candidates to have: <ul style="list-style-type: none"> <li>• Experience in carrying out multidisciplinary research</li> <li>• Teaching experience of at least 3 years</li> <li>• Experience in curriculum and course development of multidisciplinary academic program</li> <li>• Ability to develop micro credential multidisciplinary program</li> </ul>

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18.	Institute of China Studies	-	China Studies pertaining to fields of Political, Social & Economic Development	-
19.	Institute of Ocean & Earth Sciences (IOES)	-	Impact evaluation and coastal community	-
			Meteorology	
			Environmental biogeochemistry, ocean & atmospheric sciences and climate change	
			Green energy technology, Green technology development and Marine biotechnology	
20.	Asia-Europe Institute (AEI)	European Studies Program	Aspects: European Security	-
			Aspects: International Relations	
			Aspects: Political Economy	
			Aspects: European Union (EU)	
		Asian Studies Program	Modern Asia: Contemporary History	
21.	Nanotechnology & Catalysis Research Centre (NANOCAT)	-	<b>Nano-Biochemistry</b> (Sequencing DNA/ PCR multi analysis/ Detection for Biomarker)	PhD with experience in the research area
			<b>Nano-Energy</b> (energy harvesting, conversion, storage, utilization, distribution/ solar cells with nano/ fuel cells nano)	
			<b>Nano Functional Materials</b> (Single crystal synthesis/ synthesis nano materials for green environment/ CO2 gas conversion/ storage & utilization/ water purification/ nano-membrane/ nanoparticles for	

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			global warming reduction) <b>Nano Sensor/ Electronic Devices</b> (Artificial intelligence/ Internet of Nano Things (IoNT)/ Sensors network/ Cloud computing/ Big data analytics/ Nano robot) <b>Nano-Medicine</b> (Drug synthesis/ Drug delivery/ Anti-microbial treatment/ Immune system)	
22.	UM Power Energy Dedicated Advanced Centre (UMPEDAC)	-	Renewable Energy (Hydrogen Generation) Drive Control System Battery Storage Technology Power System Solar Technology	PhD with minimum of 2 years Post-Doctoral experiences