



USM | UNIVERSITI
SAINS
MALAYSIA



INSTITUT
PENGAJIAN
SISWAZAH

INSTITUTE OF
POSTGRADUATE
STUDIES

LIST OF RESEARCH FIELDS AT UNIVERSITI SAINS MALAYSIA

as of December 2017

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

Advanced Medical and Dental Institute

Adverse Effects of Transfusion	Exercise	Medical Oncology
Ageing	Exercise Physiology	Molecular and Cellular Biology
Ageing Population	Exercise Physiology, Physical Fitness Testing and Assessment,	Molecular Bioinformatics
Anesthesia (Regional Anesthesia,Pain Management)	Sport Nutrition, Assessment of Nutrient Intake of Athletes	Molecular Biology
Bacteriology		Molecular Genetics
Bioinformatics	Exercise Rehabilitation	Molecular Haematology
Biomarkers	Functional Foods	Molecular Immunology
Biomaterial	Gene Manipulations	Molecular Modelling
Biophysics (Radiation, Cardiovascular, Cellular)	Gene Therapy	Molecular Pathology
Biopolymers and Modified Biopolymers (Lignin and Tannin)	Genomic, Cancer	Molecular Pharmacology
Bioproducts	Guidance & Counselling	Molecular Virology and Oncology
Biostatistics	Habitual	Multimodal Integration
Blood Cells Antigen	Haematology	Musculoskeletal Radiology, Oncologic Radiology, Health Informatics
Blood Cells Disorders	Haemato-oncology	
Blood Substitutes	Health Informatics	Mycology
Brain Imaging	Health Services	Nanomaterials
Brain Imaging	Heavy Ion Technology / Therapy	Nanotechnology
Cancer Genetics	Heavy Ion Technology/Therapy	Natural Products
Carcinogenesis	Herbal Medicine	Natural Products Chemistry
Chemical Biology	Herbal Nutrition	Naturopathy
Chemical Pathology	Heterogeneous Catalysis	Nephropathology, Electron Microscopy
Chemically Modified Electrodes	Histopathology, Cytology, Gastrointestinal Pathology	Neuroscience
Clinical	Holistic	Novel Drug Delivery System
Clinical Genetics	Hospital Administration, Management & Training	Nutraceutical
Clinical Immunology	Image Analysis	Nutraceuticals
Clinical Nutrition	Image Retrieval	Nutrition for Lifestyle Diseases
Clinical Pharmacology and Therapeutics	Immunogenetics	Nutrition for Special Population
Clinical Trial in Oncology	Immuno-haematology	Nutrition for the ageing
Clinical Trials in Internal Medicine, Clinical Evaluation of Traditional/ Complementary Medicine	Immunology of Infectious Disease	Occupational and Environmental Health
Community Nutrition	Implantology	Occupational Health
Conservative Dentistry	Infectious Immunity, Transplantation Immunology, Oncology	Occupational Safety & Health
Coordination Chemistry	Holistic	Omics Technology
Craniofacial	Hospital Administration, Management & Training	Oncology & Radiotherapy
Craniofacial Biology	Image Analysis	Oncology Nutrition
Critical Care (Ventilatory Management,Parenteral Nutrition)	Image Retrieval	Ophthalmology and Visual Sciences
Descriptive Toxicology	Immunogenetics	Oral Biology
Diagnostic	Immuno-haematology	Oral Immunology
Diagnostics/Markers	Immunology of Infectious Disease	Oral Pathology
Disease Control	Implantology	Organic Synthesis
Drug Monitoring	Infectious Immunity, Transplantation Immunology, Oncology	Organometallic Chemistry
Educational Psychology	Inorganic Polymers	Orthodontics
Emerging Infectious Disease	Inorganic Synthesis	Paediatric Dentistry
Environmental Chemistry	Inorganic Synthetic Chemistry	Paediatric Immunology
Environmental Electrochemistry	Laboratory Science	Paediatrics, Paediatric Cardiology & Cardiac Intervention
Environmental Health	Lifestyle Diseases	Parasitology
Environmental Photocatalysis	Liquid Crystals	Pathogenesis of Diseases
Epigenetics	Management of Transfusion Services	Periodontology Dentistry
Personalized Medicine	Maxillofacial Rehabilitation	Polymer Chemistry
Pharmaceutical Biotechnology, Molecular Pharmacology	Maxillofacial Surgery	Primary Immunodeficiency
Pharmaceutical Chemistry	Mechanistic Toxicology Molecular	Prosthetic Dentistry
Physical Fitness Testing and Assessment	Mechanochemistry	Psychiatry, Drug & Alcohol, Community & Social
Physiology of Transfusion	Medical Instrumentation (Ultrasound, MRI, CT, Nuclear Medicine, Imaging Techniques)	Psychology
		Psychometric & Educational Evaluation

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

Advanced Medical and Dental Institute

Public Health / Community Medicine	Soft Tissue Imaging	Traditional & Complementary Medicine
Public Health / Epidemiology	Soft Tissue Imaging	Traditional & Complementary Nutrition
Public Health /Community Medicine(Oral Health)	Special Population	Transfusion Immunology
Radiation / Surgical Oncology	Spiritual	Transfusion Medicine
Radiation Dosimetry, Radiation Protection (Monte Carlo Methods, Non Destructive Testing)	Sports Nutrition	Transfusion Transmitted Diseases
Radiotherapy	Stem Cell	Tumor Immunology, Study of Thymus and T Cell Deveploment, Autoimmunity, Immunomodulations
Radiation Oncology	Stem Cells	Vaccinology
Radiation Physics	Surface Chemistry	Wastewater/Water Treatment
Semantic Image and Video Knowledge Extraction	Systemic Pathology	Wellness
Separation Chemistry	Thrombotic Disorders	Women's Health
Sepsis Immunology	Tissue Engineering	
	Toxicology	

Analytical Biochemistry Research Centre

Biochemical Analysis	Forensic Toxicology	Lipidomics
Environmental Biochemistry	Genomics	Metabolomics
Environmental Toxicology	Glycomics	Proteomics
Food Biochemistry		

Center for Neuroscience Services and Research

Behavioural Neurosciences	Neurological Disease and Aging	Neurosciences in Education: Primary School and Learning, Secondary School and Learning, Undergraduate and Postgraduate Learning
Cognitive Neurosciences	Neuromarketing and Neuroeconomics	
Developmental Neurosciences	Neuromathematics	
Models, Best Practices Interface of Neurosciences with All Liberal Arts Discipline	Neuropharmacology and Medical Chemistry	Neurosciences in Music
Neural Engineering	Neurophysics	Regenerative Neurosciences and Stem Cell Sciences
Neuro Biomedical Engineering	Neuropsychology	Systems Neuroscience and Brain Mapping
Neurochemistry	Neurorehabilitation	Theoretical, Computational Neurosciences and Neuroinformatics
Neuroelectrophysiology	Neurosciences and Culture	Transdisciplinary Neurosciences Research
Neurolinguistics	Neurosciences and Society, Philosophy of Neurosciences	

Centre For Chemical Biology

Biotechnology	Microbiology	Molecular Biology
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Centre For Drug Research

Analytical Method Development for Drugs in Body Fluids	Epidemiology	Pharmacokinetics
Analytical Method Development for Illicit Drugs	Evaluation of Health Interventions	Prevention
Analytical Method Development for Pharmaceutical Compound	Extraction Technology	Programme Evaluation
Bioequivalence	Health Education & Promotion	Protein Binding
Brain Study	In vitro and in vivo screening	Social and Behavioural Aspects of Diseases
Chemical and Physical Methods	Instrumentation Methods	Social, Economic and Health Impact
Clinical Trials	Lead Compound Optimization	Synthesis, Isolation, Characterization and Structural Elucidation
Computer-aided Drug Design	Medical Enzymology	Toxicology
Drug Evaluation	Metabolism	Treatment and Rehabilitation
Drug Interaction	Molecular and Biochemical Parasitology	Tropical Disease and Anti-infectives
Drug Policy Studies	Pharmacogenetic and Pharmacogenomics	

Centre for Global Archaeological Research

Burials	Hunters - Gatherers	Prehistoric Lithic Industry
Early Civilisations	Iron & Bronze Industry	Rock Painting
Early Historic Burials	Morphological & Compositional Studies on Pottery	Technological Change and Trade in Prehistory
Early Historic Diet	Palaeoenvironmental Reconstruction	Technological Change in Prehistory
Early Historical Technology & Trade	Prehistoric Burials and Human Origins	Technology
Faunal Remains in Prehistory	Prehistoric Diet	The Origins of Agriculture
Geophysical Site Identification		

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

Centre for Global Sustainability Studies		
Agricultural and Rural Development	Environment & Health	Primary Health Care Quality
Alternative Medicine for Sustainable Health	Environmental Monitoring	Public Health
Awareness and Capacity Building	Flood Modelling	Renewable Energy
Biodiversity Assessment in Various Habitats	Innovation Technology for Health Sustainability	Socioeconomic Studies
Biotechnology for Conservation	Innovation Technology for Health Sustainability	Soil Erosion
Climate Change Science and Studies	Innovative Products from Waste	Storm Water Management
Computer Modelling	Integrated Pest Management	Sustainable Agricultural Development
Crop Management	Integrated River Management	Sustainable Health Management
Crop Management	Life-Cycle Resources	Sustainable Lifestyle
Design for Sustainability & Efficiency	Mangroves, Peat Swamps and Coastal Ecosystems	Sustainable Management
Disaster	Monetary Financial System	Sustainable Tourism
Disaster Risk Management	Oil Palm Plantation Management	Sustainable Water Management
Distorted Trading Promotion	Personality & Health	Sustainable Youth
Ecosystem Services	Population Stabilization	Tropical Forest Management
Education & Awareness Programme	Poultry & Fisheries Management	Urban and Rural Sustainability
Energy Efficiency	Poverty Reduction	Water Biodiversity
Centre For Instructional Technology And Multimedia		
E-learning/Web-/Internet Based Teaching and Learning	Human Computer Interface/Usability	LMS/LCMS-based Learning
E-learning/Web-/Internet-/LMS-Based Instruction and Training	Instructional Innovation	Management of Educational Resources
Emerging Technologies	Instructional Multimedia	m-learning
Evaluation of Instructional Technology/Training	Instructional Strategies	Training Technology
Formative/Summative Evaluation	Instructional Systems Development	Visual Communication
Centre for Islamic Development Management Studies		
Al-Qur'an & Al-Sunnah for Development Management	Islamic Movements	Islamic-Based Project Management
Ar-Rahnu Development Management	Islamic Political Economy	Islamic-Based Wealth Management
Human Development Management	Islamic Politics	Issues and Management of Halal Products and Services
Islamic Accounting	Islamic Research Methodology	Politic of Islamic-Based Development
Islamic Anthropology	Islamic Service Management	Takaful Development Management
Islamic Banking	Islamic Sociology	Usul-Fiqh and Fiqhiyyah Methods for Development Management
Islamic- Based Development Management Ethics	Islamic-Based Conflict Management	Waqf Development Management
Islamic Economics	Islamic-Based Development	Wills and Faraid Development Management
Islamic Finance	Islamic-Based Development Institutions	Zakat Development Management
Islamic Management	Islamic-Based Poverty Management	
Centre For Marine And Coastal Studies		
Biodiversity Conservation	Mariculture	Marine Sciences
Coral Reef Ecosystem	Marine Pollution & Toxicology	Study on Mangrove Ecosystems
Integrated Coastal Zone Management		
Centre For Policy Research and International Studies		
Anthropology/Sociology	Human Resources Development	Political Geography
Corporate Social Responsibility (CSR) & Philanthropy	International Economics	Political Science
Critical Policy Research	International Studies	Poverty Studies & Micro Credit
Development Economics	Local Government Studies	Public Management
Development Planning & Development of Small and Medium Industries	Mariculture	Social & Physical Planning
Development Sociology	Marine Pollution & Toxicology	Social Anthropology
Econometrics	Marine Science	Social Demography
Educational Development & Policy	Migration Studies	Social Impact Assessment Studies
Energy Economics	Multireligions & Multicultural Studies	Tourism Economics
Ethnicity & Identity	Political Economics	
Collabrative Microelectronic Design Excellence Centre		
Microelectronic Systems Engineering		

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

Graduate School of Business

Accounting & Performance Measurement	Environmental Sustainability Management	Logistic & Supply Chain
Branding	Global Trade Competitiveness	Management Accounting
Business Information Technology	Governance & Risk Management	Organizational Behavioural Studies
Community & Stakeholder Engagement	Green Business	Organizational Change
Consumer Behaviour	HALAL Issues	Service Innovation
Corporate Control	Human Resource Practices	Social & Environmental Accounting
Corporate Finance	Innovation Management	Societal & Green Marketing
Corporate Governance	International Business	Stock Market Price Behaviour
Corporate Social Responsibility and Social Enterprise	International Finance & Currency Risk	Strategic Human Resource Management
E-Commerce	Leadership & Entrepreneurship	Sustainable Development
Entrepreneurship	Lean Manufacturing	

Institute for Research in Molecular Medicine

Biomaterial Science	Novel Therapy	RNA Technology
Cancer Research	Pharmacogenetics	Tissue Engineering
Mechanisms of Disease	Rapid Diagnostics	Vaccinology
Molecular Medicine		

Institute of Nano-Optoelectronics Research and Technology

Modelling and Simulation of Nano Optoelectronic Devices	Nano Materials and Devices	Nano Optics
Nano Device and Packaging	Nano Materials Fabrication and Characterisation	Solid State Lighting Solutions
Nano Integrated Systems		

Malaysian Institute of Phamaceuticals & Nutraceuticals

Healthcare Biotechnology

National Advanced IPv6 Centre

4G Mobile Network Architectures	Internet Over Satellite	Protocol Security Testing and Evaluation
Ad Hoc Wireless Network	Internet Policy Study	QoS and Media Streaming Support
Adaptive Interfaces	Internet Resource Control & Management	QoS Routing In Wireless Networks
AI Applications in Multimedia	Internet Routing Protocols Security	Remote acquisition of Data for Teleconsulting
Computer Supported Cooperative Work	Internet Signalling and Service Enabling Protocols, Including SIP, NSIS, HTTP, RTPSP/RTP	Satellite for NGN
Control and Management in Dynamic/Mobile Network Environments	Internetworking Heterogeneous Wireless/Wireline Networks	Secure Coding Practices
Cyber Law Study	Legal, Financial and Operational Security	Self Organization of Networks
Data Procurement Systems	Malware Protection	Sensor Networks
Digital Filter Design	Mobile Ad Hoc Routing	Service Middleware and Open Interfaces
Digital Rights Management	Mobile Code and Network Programmability	Support for Streaming dan Real-Time Media
Distributed Immersive Simulation	Mobile Internet Technologies	Techniques and Tools for Internet Traffic Measurements
Distributed Signal Processing	Mobile IP Techniques	Telepresence
DSP Implementation	Mobile Quality of Service Management	Transport Protocols for Wireless
E-Learning	Mobility, Location and Handoff Management	Unicast, Multi-Cast, Broadcast Routing Protocols
Fractional Signal Processing	MPLS and Traffic Engineering	Video Conferencing
Group Communication for Controlling Networks and Services	Multimedia Interactive Systems	Virtual Environment
HCL for Mobile Devices	Multimedia Networks Protocols	Virtual Private Networks
Industrial Networking Security	Multimedia QoS and Traffic Management	VoIP Protocols and Services
Information Visualization	Network Resource Management	Web 3D/Virtual Reality
Internet Governance Study	Overlay and Peer-To-Peer Networks	Wireless Health Monitoring Technologies
Internet Infrastructures Security	Physical Cyber Security	Wireless LANs Protocols and Standards
Internet Mobility Management and Support	Plug and Play Networking Components	Wireless Multicasting
	Processing of Medical Signals and Images	Wireless Network Security and Privacy
		Wireless System Optimization Techniques

National Higher Education Research Institute

Curriculum, Pedagogy and Innovation in Higher Education	Internationalisation in Higher Education	Policy, Governance and Leadership in Higher Education
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National Poison Centre

Clinical Toxicology	Environmental Health	Pharmacoinformatics
Drug Policy & Management	Occupational Safety & Health	Toxicology

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

River Engineering and Urban Drainage Research Centre

Environmental Hydraulics Management Hydroinformatics	River Management	Urban Drainage Management
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School of Aerospace Engineering

Aerodynamic - Computational and Experimental Aerodynamics	Application of Remote Sensing Technology and GIS Aviation Management	Mission Analysis On Board Computer System (OBO)
Aircraft Design - Design Optimization, Light Weight Aircraft Design	Communication Payload Design	Power Systems
Aircraft Structure - Finite Element Analysis, Structure Optimization, Composite Material	Flight Mechanics - Flight Performance, Stability and Control, Flight Handling Quality, Autonomous System Micro Satellite Design	Remote Sensing System Payload Design and Data Application Satellite Structural Engineering and Materials

School of Arts

Acting & Directing	Fine Arts	Pedagogy - Music Education
Composition	Graphic Design	Photography
Dance	History & Theory of Arts	Printmaking
Design & New Media Technology	Music	Product Design
Drama & Theatre	Musicology	Sculpture
Educational Theatre	Painting	Traditional Theatre & Music
Ethnomusicology		

School of Biological Sciences

Agricultural Disease Vectors	Enzyme Technology	Mycoherbicides
Agricultural Entomology	Genetics & Plant Biotechnology	Mycology
Animal Behaviour	Helminthology	Mycorrhiza
Animal Taxonomy	Herpetology	Oceanography
Applied Entomology	Ichthyology	Parasite Biology
Aquaculture	Immunology	Parasitology
Aquatic Animal Disease	Industrial Biotechnology	Pest Management
Aquatic Animal Nutrition	Industrial Microbiology	Plankton Ecology & Productivity
Aquatic Biology	Insect Biochemistry & Physiology	Plant Disease Management & Control
Aquatic Entomology/Bioindicator	Insect Ecology	Plant Pathogen
Bacteriology	Insect Systematics	Plant Pathology
Biodiversity Conservation	Integrated Coastal Zone Management	Plant Taxonomy
Biological Control of Vectors	Limnology	Plant Tissue & Cell Culture
Biotechnology	Mammalogy	Population & Community Ecology
Botany	Marine Culture	Protozoology
Cell Culture Technology	Marine Ecology	Soil Science
Chemical Ecology	Marine Pollution & Toxicology	Study on Mangrove Ecosystems
Coastal Ecosystems	Medical Entomology	Tissue Culture
Coral Reef Ecosystems	Microbial Biotechnology	Tropical Disease Vectors
DNA Probes Technology	Microbiology	Tropical Forest Ecology
Entomology	Micropropagation Techniques	Tropical Plant Diseases
Environmental Biology	Molecular Biology	Tropical Wetland Ecology
Environmental Microbiology	Molecular Parasitology	Urban & Industrial Entomology
Environmental Pollution	Molecular Taxonomy	Weed Biology
		Wildlife Ecology & Management

School of Chemical Engineering

Adsorption	Bioremediation	DCS & PC- based Engineering Process
Advanced Process Control	Biotransformation	Development of Organic & Inorganic Membranes
Air Pollution Control & Monitoring	Carbon Technology	Environmental Catalysis
Automation	Catalytic Cracking	Enzyme Catalysis
Automotive Exhaust Catalysts	Catalytic Membrane Reactor	Enzyme Technology
Biocatalysis	Chemical Reaction Engineering	Fermentation Process
Biochemical Engineering	Chiral Drugs Enzymatic Membrane Reactor (EMR)	Fluidization and Atmospheric Emissions
Bioconversion of Waste Material to Useful Products	Computational Fluids Dynamics	Fuel and Heavy Oil Technology
Biomass Pyrolysis	Control of Waste Water Treatment Plant	Fuzzy Logik

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Chemical Engineering

Gas To Liquid Technology	Petroleum & Natural Gas Processing and Operation	Removal of Oil Emulsifier from Waste Stream using Membranes
Generic Model Control	pH Control	Renewable Energy
Hydrodesulfurization Of Residual Oil	Phase Equilibria	Simulation & Computer Aided Process
Mathematical Modelling	Photocatalysis	Solid Waste and Wastewater Management Technology
Membranes/ Membrane Technology for Environmental Pollution Control	Plant Cell Culture Technology	Supercritical Fluid Extraction
Metabolic Engineering	Process Development & Design	Synthesis, Characterization & Testing of Catalysts
Nanocarbon Tubes	Process Integration	Treatment of Waste Water & Toxic Materials
Nanocatalysis	Process Intensification	VOC Removal Using Catalysts
Nanoscience and Technology	Process Modelling	Waste Utilization
Neural Network & Artificial Intelligence	Process Safety	Water Pollution Control & Monitoring
Palm Oil Technology	Reaction Kinetics & Modeling	Zeolite Catalysis

School of Chemical Sciences

Biosensors	Environmental Chemistry	Photocatalysis
Chemical Education	Environmental Electrochemistry	Pollutants
Chemistry in Petroleum Industry	Inorganic Polymer	Pollution Studies
Composite Material and Ceramic	Inorganic Synthetic Chemistry	Polymer Chemistry
Computational Chemistry	Liquid Crystals	Separation Chemistry
Conducting Polymers	Macrocycles	Surface Chemistry & Catalysis
Coordination Chemistry	Material Chemistry and Advanced Materials	Trace Organic Analysis
Corrosion Chemistry & Coatings	Natural Product	Water Treatment
Electroanalytical Methods	Organic Synthesis	
Electroplating/Electrolessplating	Palm Oil Chemistry	

School of Civil Engineering

Advanced Structural Analysis	Engineering Entrepreneurship	Landslide Risk Management
Air Quality Studies	Engineering Survey	Management
Alkaline Activated Binder and Geopolymer Technology	Environmental Impact Assessment (EIA) & Environmental Management Plan (EMP)	Masonry Engineering
Application of Geosynthetics	Environmental Microbiology	Modeling of Pump Station
Asphalt Technology	Flood Forecasting	Monitoring System
Biomimicry	Fluid Mechanics	Noise Pollution Control & Management
Bioremediation	Foundation Engineering	Odour Study
Blasting & Vibrations	Geo-Environment	Other Fields in Engineering Management
Building Information Management	Geo-Information Sciences (GIS)	Other Fields in Environmental Engineering
Building Information Modelling	Geo-Spatial Analysis	Other Fields in Geomatic Engineering
Cadastral Survey	Geotechnical Assessment	Other Fields In Geotechnical Engineering
Coastal Engineering	Geotechnical Assessment	Other Fields in Highway, Traffic & Transportation Engineering
Collapsible Soil	Glass Structures	Other Fields in Structural Engineering
Composting	Global Positioning System (GPS)	Other Fields in Water Resources Engineering
Computational Fluid Dynamics	Green Building	Pavement Engineering
Computational Mechanics	Ground Improvement	Pavement Maintenance and Rehabilitation
Concrete Repair Materials and Techniques	Highway Capacity Studies	Piling Vibrations
Concrete Technology	Hydraulic Structures	Probabilistic Methods in Geotechnical Engineering
Construction Management	Hydraulics	Project Management
Construction Technology	Hydrological	Public Transport Studies
Corrosion Inhibition and Protection	Impact and Blast Resistant Structures	Reinforced Soil
Decision Support System (DSS)	Industrial Wastewater Treatment	Remote Sensing & GIS Application in Transportation
Digital Mapping and Imaging	Integrated Water Resource Management	Remote Sensing & GIS Application in Water Resources
Disaster Management	Intelligent Transport System	Risk Assessment in Geotechnical Engineering
Earthquake Engineering	Irrigation & Drainage	Risk Management
Eco-Hydrology	Land Reclamation & Rehabilitation	River Engineering
Emotional Intelligence	Landfill Technology	Road Safety
Engineering Education		

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Civil Engineering

Rock Mechanics	Structural Dynamics	Tsunami Engineering
Sediment Transport	Structural Health Monitoring	Urban Hydrology
Shell and Spatial Structures	Structural Retrofitting	Urban Storm Water Management
Slope Stabilization (Soil/Rock)	Sub-surface Detection and Assessment	Value Management
Sludge Management	Sustainable Infrastructures	Water and Wastewater Treatment
Soft Clays	Sustainable Transport	Water Quality Studies
Solid Waste Management	Tensioned Structures	Water Retaining Structures
Spatial Data Infrastructure	Timber Engineering	Water Supply
Spatial Statistics	Traffic Engineering	Wind Engineering
Steel Structures	Travel Behaviour Studies	

School of Communication

Advertising Campaign	Environmental Communication	Media Literacy
Advertising Management	Environmental Journalism	Media Management
Advertising Production	Film and Broadcasting	Media Studies
Advertising Strategy	Film Studies	Online Journalism
Audience Studies	Graphics Production	Organizational Communication
Audio/ Radio Studies	Group Communication	Photojournalism
Broadcast Journalism	Health Communication	Political Communication
Broadcast Management	Integrated Marketing Communication	Print Journalism
Broadcasting and Telecommunications	Intercultural Communication	Public Relations
Communication	International Advertising	Public Relations & Environment
Communication and Technology	International Communication	Public Relations & Health
Communication Campaign Planning	International Public Relations	Public Relations & New Media
Corporate Communication	Interpersonal Communication	Screen Studies
Corporate Social Responsibility	Journalism	Speech Communication
Cultural Studies	Language and Communication	Television Studies
Development Communication	Media and Gender	Visual Communication

School of Computer Sciences

Automated Translation	Information Visualization	Service Systems Engineering (SSE)
Brain Inspired Computing	Intelligent System Techniques	Social Informatics
Cluster and Multicore Computing	IT Operations and Management	Software Analysis and Design Patterns
Collaborative Computing	Knowledge Management and Engineering	Software Productivity and Quality
Collective Intelligence	Knowledge Visualization	Speech Recognition
Computer Ethics	Malware	Speech Synthesis
Computer Graphics	Management of Information Systems (MIS)	Steganography
Concurrency Theory in Biology	Multimedia Retrieval, Processing and Anaysis	Sustainable and Evolutionary Software Systems
Cryptology	Multimedia Tools and Applications	Technopreneurship
Data Mining	Multimodal Integration	Text Summarization
Data Privacy and Preservation	Natural Language Processing	Usability Engineering
Data Visualization	Network & Communication Protocols	Value-Based Software Engineering
Digital Forensics	Network Modelling	Virtual Environment
Distributed Multimedia and Multimedia Communication	Network Security	Virtual Reality and Animation
Distributed Systems	Parallel Biological Data Mining	Vision & Image Processing
E-Learning	Parallel Sequence Analysis Algorithms	Visual Analytics
Embedded Systems	Parallel Structure Prediction Algorithms	Wireless and Mobile Computing
Evolutionary Computing	Parallel Tools & Applications	Wireless Sensor Networks
Grid Computing	Peer-to-Peer Computing	
Health Informatics	Quality of Service	
Human Computer Interaction (HCI)	Scheduling/Timetabling/Planning	
Image Analysis	Security Management	
Image Retrieval	Semantic Image and Video Knowledge Extraction	
Information Evaluation	Semantic Web Search	
Information Systems	Service Science and Innovation	

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Dental Sciences

Advanced Technologies	Endoscopic assisted surgery	Oral Health Management System
Aesthetic / cosmetic	Fixed Prosthodontics	Oral & Maxillofacial Surgery
Age estimation	Forensic Dentistry	Oral Biology
Anatomic Pathology/Histopathology	Genetic/ molecular	Oral Biology / Immunology
Anatomy & Physiology	Genetics	Oral Epidemiology
Biocompatibility	Genetics of Oral Cancer	Oral Health & Oral Diseases
Bioethics	Genetics/Molecular	Oral Health Promotion
Biomaterial	Geriatric dentistry	Oral Immunology
Biomaterials	Gerodontology	Oral Medicine
Biomedical Science	Haematology/Transfusion Medicine	Oral Microbiology
Biomedicine	Human identification	Oral Pathology
Bite mark/ Tool mark	Immunology	Oral rehabilitation
Bleaching	Immunology (PSG)	Oral Surgery
Cad-Cam	Implantology	Orthodontic
Cariology	Implantology	Orthognathic surgery
Cariology including early childhood caries	Implantology engineering	Orthograde Endodontic
Community Dentistry	Laser	Paediatric Dentistry
Conservative Dentistry	Laser surgery	Periodontic
Cranial neuropathy	Maxillofacial Implant	Preventive Dentistry
Craniofacial anomaly	Maxillofacial oncology	Prosthodontics
Craniofacial biology	Maxillofacial prosthesis	Pulp therapy of the primary dentition
Craniofacial Genetics	Maxillofacial trauma	Removable prosthodontics
Craniofacial neuropathy	Medically compromised and special needs patients	Reparative and regenerative endodontics
Craniofacial Prosthesis	Microbiology	Restorative Dentistry
Craniofacial Sciences	Minimal Intervention Dentistry	Retrograde Endodontic
Dental Implantology	Natural product	Saliva
Dental Materials	Natural Products	Sleep Science
Dental Pain and Trauma	Neuroanatomy	Stem Cell
Dental Public Health	Neurogenetic	Stem Cell & Tissue Engineering
Dentine defect	Neurology/Neurophysiology	Stemcell
Dento alveolar surgery	Nutrition	Swallowing and Dysphagia
Enamel defect	Occlusion	Tissue engineering
Endodontics	Occupational health	Tooth wear

School of Distance Education

3D in Spatial Studies	Behavioural Economics and Finance	Computer Aided Geometrical Design
Accounting	Biodiversity	Computer Assisted Instruction
Adult and Distance Education	Bioinformatics	Conflict Studies in International Relations
Adults Learning	Biology	Conflict Studies in Plural Societies
Agricultural Economics	Biology Education	Constitution
Agricultural Studies	Biomass Energy	Consumer Behaviour
Algalogy	Biotechnology	Coordination Chemistry
Amorphous Semiconductor	Botany	Corporate Governance
Analytical Chemistry	Business Law	Cultural Astronomy
Animal Ecology	Civil Society	Curriculum Studies
Antropology/Sociology	Classical Malay Literature	Development Economics
Application of Data Mining	Climate Change	Distance and Open Learning
Applied Econometrics	Comparative Education	Distance Education
Applied Mathematics	Comparative Literature	Distance Education Administration
Applied Statistics	Comparative Politics	Distance Education Technology
Aquatic Biology	Comparative Religion	E- Learning Portal
Banking and Finance	Computational Chemistry	Early Childhood Education
Behavioral Finance	Computational Solid State Physics	East Asian History

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Distance Education

Eco-informatics	History of Education & Development	Mathematics Education
Ecological Processes	HIV/AIDS	Mathematics Education
Ecology	Human Computer Interface/Usability	Mathematics Modelling
Econometrics	Human Resource Management	Medical Anthropology
Economic Development	Human Rights	Medical Physics
Economics of Education	Human, Social and Cultural Geography	Micro Finance
Economics of Happiness	Hydrology	Microbiology
Economics of Regulation and Competition	Hydrometeorology	Microeconomics and Monetary Economics
Economy & Commerce Education	ICT in Geography	Microeconomics
Education for Sustainable Development	ICT in Geography Education	Migration
Education Psychology	Industrial and Globalization	Minority
Education Psychology	Industrial Economics and Organisations	m-Learning
Educational Management & Leadership	Industrial Organization	Modern Malay Literature
Educational Planning & Policies Studies	Industrial Relations	Molecular Biology
Educational Technology	Inorganic Chemistry	Multicultural Education
Efficiency and Productivity Analysis	Instructional Innovation	Multimedia Education & IT
e-Government	Instructional Strategy	Multimedia Education and Information Technology
e-Learning	Instructional Systems Development	Nationalism
English Language Education/TESOL	Internalization of Islam Values	New Public Management
Entomology	International Business	Occupational Safety and Health
Environmental Biology	International Economic	Operational Management
Environmental Education	International Education & Globalisation	Operations Research
Environmental Science	International Marketing	Organic Chemistry
Environmental Studies	International Relations	Organisational Behaviour
Environmental Teaching Method	International Trade and Finance	Organizational and Business Management
Epistemology	Investment	Organometallic Chemistry
Ethics, Moral & Religious Educations	Islamic Civilization	Performance Measurement
Ethnic Identity	Islamic Economic	Philosophy of Education
Ethnic Relations and Family	Islamic Economics	Physical & Sport Education
Ethnicity & Social Inequality	Islamic Economics, Banking and Finance	Physical Chemistry
Ethnobotany	Islamic History	Physics
Ethnography	Islamic Literature	Physics Education
Ethnozology	Islamic Philosophy	Physics Semiconductor
Family & Kinship	Islamic Political Economy	Place and Areal Studies
Figures of Islamic Thought	Islamic Science	Plant Physiology
Finance	Laboratory Virtual Learning	Policy Transfer
Fluvial Geomorphology	Labour Economics	Political Anthropology
Foreign Aid and Investment	Land Use Planning	Political Development
Genetics	Landslide Studies	Political Economy
Geographical Education	Learning Organisation	Political marketing
Geography and Environmental Education	Life-long Education	Political Philosophy
Geography Education	Linear Equation System	Politics of Environment
Geography Education	Literature in the TESOL classroom	Pollution Studies
Geography Teaching Method	Macroeconomics Issues	Polymer Chemistry
GIS in Geography Education	Malay Language	Portal Learning
Government Linked Companies (GLC)	Malay Language/Literature Education	Poverty Studies
Guidance & Counselling	Malaysian History	Pragmatics
Health Economics	Male Sexuality and Sexual Identity	Primary Education
Heritage and Transformation	Management of Current Issues	Professional & Teacher Education
Higher Education	Marketing	Psychometric & Education Evaluation
Historical Philosophy	Masculinity	Psychometric and Education Evaluation
History	Materials Science	Public Administration
History Education	Mathematics	Public Choice Economics

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Distance Education

Public Economics and Public Finance	Social Change	Theory & Social Research Methods
Public Finance, Public Economics and Public Choice Economics	Social Epidemi	Tissue Culture
Public Policy	Social Inequality	Tourism
Pure Mathematics	Social Issues	Tourism Anthropology
Quality of Management	Social Safety Net	Tourism Economics
Radiation Physics	Society and Health	Transport and Traffic Studies
Religion and Politics	Socio-Economics Studies	Urban and Regional Studies
Religious Identity	Sociology of Education	Urban Growth
Remote Sensing	Soil Erosion	Urban Poverty
Renewable Energy and Energy Efficiency Education	Solid State Physics	Urbanization & Social Change
Renewable Energy Studies	South East Asian Ethnography	Vertebrate Zoology
Research Methodology	South East Asian History	Virtual Learning & Internet
Retailing	Special Education for Diverse Needs	Virtual Organisation/Society
Rural Transformation and Development	Statistics	Visual Communication
School and Community Partnership	Statistics & Research Methodology	Vocational & Technical Education
Science Education	Strategic Management	Water Resources and Management
Science, Technology & Society	Strategic Marketing	Web-based English Teaching and Learning
Second Language Learning	Supercritical Fluid Technology	Western History
Self-Instructional Multi-Media Application	Support System in Distance Education	Wildlife Biology
Service Quality	Sustainable Development	Women and Politics
Slope Stability	Teaching and Learning of English	Work Values
Social Anthropology	Teaching English as a Second Languages	
Social Capital	Technology & Innovation Management	
	Technology Transfer	

School of Electrical & Electronic Engineering

Advanced Digital Systems	Electrical Machine and Drives	Power Quality and Management
Analog & Digital IC Design	Imaging	Power Systems and Energy Conversion
Antenna and Propagation	Industrial Automation and Control	RF Systems and Electromagnetic Compatibility (EMC)
Computational Intelligence	Integrated Circuit Design	Robotics
Device Modeling and Characterisation	Microelectromechanical Systems (MEMS)	Sensors and Instrumentation
Digital Signal Processing	Microwaves and Satellite Systems	Software Engineering
Distributed Computing	Power Electronics and Devices	Wireless and Mobile Systems

School of Health Sciences

Acute and Critical Care Nursing	Family and Community Nursing	Hematology and Transfusion Sciences
Anatomy	Fire Investigation	History of Health and Medical Sciences
Audiology	Food and Nutrition Microbiology	Human Nutrition
Biochemistry	Food and Nutritional Toxicology	Immunology
Bioethics	Food Quality and Analysis	Infant Nutrition
Bioinformatics	Forensic Anthropology	Maternal and Child Health Nursing
Clinical Nursing Practice	Forensic Biology	Medical Imaging
Clinical Nutrition	Forensic Chemistry	Microbiology
Community Nutrition	Forensic Document Examination	Molecular and Cellular Biology
Computer Forensics	Forensic Drug Analysis	Molecular Nutrition
Criminology	Forensic Food Analysis	Nuclear Medicine Sciences
Diagnostic Radiology Dosimetry	Forensic Psychology	Nursing Education
Diagnostic Radiology Sciences	Forensic Toxicology	Nursing Management
DNA Profiling	Gender and Health	Nutrition Education
E-Learning	Geriatric Nutrition	Nutrition Policies/Programmes
Environmental Forensic	Health and Society	Nutritional Anthropology
Environmental Health	Health Economics and Management	Nutritional Biochemistry
Environmental Management	Health Promotion	Nutritional Epidemiology
Exercise and Sports Science	Health Record	Occupational Health
Experimental Nutrition	Health Social Work	Occupational Therapy

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Health Sciences

Parasitology	Radiation Protection & Safety	Sports Nutrition
Pharmacology	Radiopharmaceuticals	Toxicology
Physical Evidence	Radiotherapy Dosimetry	Vakcinology
Physiology	Religion and Health	

School of Housing, Building and Planning

Acoustic	Design Economics and Management	Landscape
Adaptive Reuse	Design Management	Landscape Ecology
Affordable Housing	Design of High-Rise Building	Landscape Geographic Information System
Alternative Dispute Resolution and Construction Contracts	Design with Cultural Influence	Landscape Management
Architectural Materials and Technology	Development Management	Landscape Planning
Architecture Design	Earthquake Engineering	Landscape Technology
Architecture History and Theory	Ecotourism/Nature Tourism	Leadership
Architecture Management and Practice	Energy Conservation	Lean Construction Management
Architecture Pedagogy	Energy Efficient Design	Lightweight Concrete
Asset and Facilities Management	Entrepreneurship Studies	Maintenance
Best Practice in Building Surveying	Environmental Design: Acoustic	Marine and Coastal Development
Border and Regional Tourism	Environmental Design: Lighting	Marketing in Construction Management
Building and Urban Conservation: Tendering & Policy	Environmental Design: Thermal Comfort	Motivation
Building Conservation	Environmental Management	Occupational Safety and Health
Building Energy Simulation	Ergonomics	Open Space
Building Fire Audit	Exhibition and Display	Organization Sustainability and Revolution
Building Infrastructure	Facilities Management	Park and Recreation
Building Maintenance	Ferrocement Technology	Portfolio Management
Building Pathology	Financial Management	Procurement Management
Building Performance	Finite Element Analysis	Productivity Studies
Building Preservation	Fire Safety	Project Management
Building Quality and Assessment	Fire Safety Design	Property Management
Building Refurbishment	Firm Performance	Quality Management
Building Science	Gender Issues in Construction	Reinforced Concrete Structures
Building Service Audit	Geographical Information System	Resort and Park Development
Building Services and Engineering	Geotechnology	Resource Planning
Building's Interior Defects	Green Building	Risk Management
Business Management	Green Construction Management	Road and Transportation
Community Development	Heritage Tourism	Rural Planning / Environment
Community Participation in Tourism	Hospitality Management	Safety Management
Computational Materials Engineering	Housing Delivery System	Security and Community Development
Computer Aided Design (CAD)	Housing Design	Services Management
Conservation	Housing Design and Construction	Site Management
Construction Administration and Management	Housing Issues	SMEs in Construction and Real Estate
Construction and Real Estate Entrepreneur	Housing Market	Social Development Planning
Construction Economics	Human Comfort	Social Housing (Residential Neighborhood and Mobility)
Construction Knowledge Contribution Based	Human Factors in Architecture	Space Management
Construction Laws	ICT in Construction	Special Interest and Alternative Tourism
Construction Management	Illumination/Lighting	Strategic Planning
Construction Materials and Technology	Impact Assessment	Structural Analysis, Design Optimisation and Assessment
Construction Re-Engineering	Indoor Landscape in Interior Design	Supply Chain Management
Construction Resources Management	Industrial Management	Sustainable and Green Construction
Corporate Management	Industrialised Building Systems (IBS)	Sustainable Architecture
Corporate Transformation in Construction	Intelligent Building Design	Sustainable Building Management
Cost Issues in Construction	Interior Design Management	Sustainable Construction Management
Cost Management	Interior Lighting	Sustainable Development
Crime and the Environment	Investment Management	Sustainable Facility Management
Cultural Tourism	Issues of Quantity Surveying Practice	

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Housing, Building and Planning

Sustainable Tourism Development	Tourism Planning	Urban Infrastructure
Teleworking / Virtual Organization	Tourism Policy	Urban Management
Theory in Design	Transport Facilities Management	Urban Planning & Management
Thermal Comfort	Transport Planning	Urban Studies
Tourism	Transport System Studies	Value Management
Tourism and Hospitality Management	Urban & Environmental Planning	Ventilation and Air-Conditioning
Tourism Business and Marketing	Urban & Rural Poverty	Vernacular Architecture
Tourism Infrastructure	Urban Conservation	Waste Water Treatment
Tourism Management	Urban Culture	Water Reticulation and Distribution System
Tourism Organization	Urban Design	

School of Humanities

Agricultural Geography	Geography of Services	Philosophy of Religious
Applied Linguistics	Geomorphology	Philosophy of Social Sciences
Art in Islam	History	Phonetic & Phonology of Malay Language
Asian History	History & Philosophy of Islamic Science	Population Geography
Audiovisual Translation (Dubbling, Subtitling)	Human Geography	Psycholinguistics
Biogeography	Hydrology	Regional Development Planning
Classic Malay Literature	Industrial Geography	Remote Sensing
Classical Western Philosophy	Islam Civilization	Resource Management
Climatology	Islamic Philosophy	Role & Influence of Islamic Civilization in Southeast Asia
Comparative Literature (Asian , African, Indian and Europe Literature)	Islamic Studies	Semantics & Pragmatics
Comparative Philosophy	Islamic Thinking	Semantics & Pragmatics of Malay Language
Consecutive Interpreting	Islamic Thought (Modern Islamic Thought, Classical Islamic Thought)	Simultaneous Interpreting
Critical Discourse Analysis	Literacy Studies (Reading & Writing)	Sociolinguistics
Discourse Studies	Literary Theory(Post-colonialism; Feminism; Post-structuralism)	Southeast Asian History
Economic & Development Geography		Syari'ah(Islamic Legal Theory;Comparative Jurisprudence;Islamic Traditional Jurisprudence)
English For Specific Purposes	Malay Language Studies	Syntax of Malay Language
English Literature	Malaysian History	Teaching & Learning of English TESL/TEFL
Epistemology	Malaysian Literature in English	Translation
Ethics	Morphology of Malay Language	Translation of Advertisement
Geographical Information System	Nusantara Literature	Translation Studies
Geography	Philosophy & History of Islamic Civilization	Urban & Metropolitan Geography
Geography of ASEAN & Asia-Pacific	Philosophy of Arts/Esthetics	Usuluddin [Islamic Creed and Philosophy; Islamic Propagation - Da'wah; Quranic and Hadith Studies

School of Industrial Technology

Adhesives Science and Technology	Environmental Engineering Operations	Food Safety
Biochemical/Metabolite Technology	Environmental Management	Food Sciences
Biocomposites/Hybrid Biocomposites	Environmental Modeling	Food/Nutraceutical Bioprocess Technology
Biomass Processing and Applications	Environmental Pollution Control	Functional Food
Biomass Sciences	Environmental Regulations and Compliance	Green Materials/ Composite
Biomaterials	Environmental Technology	Liquid Membrane Separations Technology
Bioprocess Technology	Environmentally Friendly Pulping/ Alternative Pulping	Nanofiber and Nanocellulose Sciences and Technologies
Bioresource based products	Environmentally Sustainable Pulp Bleaching Technology	Natural Fibre Filled / Reinforced Polymer Composites
Cellulose derivatives	Enzymology/Enzyme Technology/Biocatalysis	Nutrition
Chemical Modification of Bioresource	Fate of Pollutant in Environment	Paper Recycling/ Paper Technology
Chemical Process Technology	Fermentation Technology	Pharmaceutical Bioprocess Technology
Durability and Protection	Food Analysis & Quality Control	Pigment And Dyes
Energy Audit & Management	Food Biopolymers	Polymer Chemistry And Resin Technology
Energy Recovery Technology	Food Biotechnology	Postharvest Technology
Environmental Atmospheric Boundary Layer & Urban Air pollution	Food Chemistry	Process Control/Automation
Environmental Auditing	Food Microbiology	Radiation Curing Technology
	Food Processing & Preservation	Renewable & Sustainable Energy Technology

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Industrial Technology		
Risk Assessment & Management	Surface Coatings Technology	Wind Energy Technology
Sensor Integration & Industrial Automation	Total Quality Management Instrumentation	Wood Polymer Composites
Supercritical Fluid Technology	Waste Treatment via Bioprocess Technology	
School of Languages, Literacies & Translation		
Applied Linguistics	Lexicography & Lexicology	Stylistics, Reading & Text Interpretation
Discourse Analysis	Linguistic Theory	Syllabus Design & Materials Development
English Language Skills	Reading	Terminology
English Language Studies	Sociolinguistics	Testing & Evaluation
Evaluation of Various Types of Text	Speaking	Theory & Translation Practice
History & Bahasa Malaysia	Spontaneous Interpretation & Consecutive Interpretation	Translation
School of Management		
Accounting Information System	Futures and Option Market	Operations Management
Advertising & Marketing Communications	Human Resource Management	Operations Strategies
Applied Mathematics in Finance	International Business Management	Organisational Behaviour & Development
Auditing	International Finance	Productivity and Quality
Behavioural Accounting Finance	International Marketing	Retailing
Behavioural Finance	Investment Analysis and Portfolio Management	Service Marketing
Behavioural Organization	Islamic Finance	Small Business
Brand Management	Leadership & Work Values	Strategic Management
Capital Markets	Learning Organization	Strategic Marketing
Compensation & Benefit	Legal Environment of Business & Accounting	Supply Chain Management
Consumer Behaviour	Management Accounting and Control	Taxation
Corporate and Social Reporting	Management Accounting Practices	Technology Management
Corporate Finance	Management Sciences	Women Entrepreneurs
Corporate Governance	Managing Information Resources	Women in Management
Environmental Marketing	Market Based Accounting Research	
Financial Market-based Research (FMBR)	Marketing Services Management	
Financial Reporting	Merser & Acquisition	
School of Materials And Mineral Resources Engineering		
Advanced Materials	Failure Analysis & Characterisation	Mining
Biopolymers	Geology	Nanomaterials
Ceramics	Geomechanics	Others
Composite	Glass & Glass Ceramics	Plastics
Dental Materials	Metal	Polymer Alloy and Blends
Electronic Materials	Metal Ceramics and Composite	Polymer Composites
Environmental	Mineral Processing	Polymer Waste Management
Extractive Metallurgy	Mineralogy	Rubber and Lateks
School of Mathematical Sciences		
Adaptive Signal Processing	Decision Analysis	Linear Programming
Algebra	Differential Equations	Maintenance Modelling
Alloy Freezing Modeling	Econometric	Mathematical Modeling
Analysis	Econometrics	Mathematical Statistics
Applied Statistics	Environmental Evaluation Modeling	Multiple Criteria Decision Making
Biostatistics	Environmental System Modeling	Network Flow
Branching Process	Experimental Design	Neural Networks
Coding Theory	Finite Groups Representation Theory	Number Theory
Complex Analysis	Functional Differential Equations	Numerical Analysis
Computational Intelligence	Game Theory	Parallel Numerical Algorithms
Computer Aided Geometric Design	Geometric Function Theory	Production Management
Computer Graphics	Graph Theory	Quality Control
Convergence and Learning Algorithms of Neural Network	Groups and Moufang Loops	Regression Analysis
Cryptography	Industries Statistic	Statistical Inference
Data Envelopment Analysis	Inventory Control	Time Series

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Mechanical Engineering

Advanced Manufacturing	Design & Management of Computer Intergrated Manufacturing Systems	Manufacturing Technology
Artificial Intelligence		Materials
Automatic Control System	Electronic Packaging	Quality & Reliability
Automotive and Manufacturing System	Energy Studies	Refrigeration and Air-Conditioning
Biomass Energy Systems	Ergonomics	Robotic
Bio-mechanics	Fluid Mechanics	Safety
Combustion	Heat Transfer	Sound & Vibration
Computer Aided Design & Computer Aided Manufacturing [CAD/CAM]	Impact	Stress Analysis using Finite Elements Anaysis & Experimental Method
Computer Fluid Dynamics (CFD)	Industrial Engineering	
	Internal Combustion Engines	Thermal System
	Manufacturing Systems	Vision Systems

School of Medical Sciences

Accident Prevention	Cardiothoracic Anaesthesiology	Endocrinology, Effect of Natural Products on Diabetes
Acute and Chronic Pain	Cardiovascular physiology	Endoscopic and Digestive Surgery
Acute Pain & Procedural Sedation	Cardiovascular Pharmacology and physiology-effects of diseases and interventions	Environmental & Occupational Health
Addiction		Environmental Epidemiology
Addiction medicine	Cell Biology and Histological Technique	Environmental Health
Administration In Emergency Medicine	Cellular and Molecular Immunology	Epidemiology (Communicable Diseases)
Adolescence Gynaecology	Child and adolescent mental health, educational psychology	Epidemiology (Graphical Information System)
Adolescent Health	Child Health	Epidemiology (Non-Communicable Diseases)
Adolescent Nutrition	Child Nutrition	Epidemiology (Surveillance & Modelling)
Advanced Trauma, Foot and Ankle	Clinical anatomy	Epidemiology (Tropical & Infectious Diseases)
Air and Health	Clinical Genetic, Molecular Genetics	Epidemiology Mental Health, Psychometric Testing
Air Pollution and Respiratory Diseases	Clinical Haematology	Ergonomic
Airway and Ventilation Management Sciences	Clinical Nutrition	Ethics & Professionalism
Allergy	Clinical Pharmacology and Therapeutics	Evaluation Of Animal Allografts In Clinical Practice
Allergy and Immunology	Clinical Virology, Management of viral diseases, Cell culture techniques	Evaluation of Health Services
Anaesthesiology Sciences		Experimental pharmacology
Anatomy Education and Teaching Methods	Cognitive Neurosciences	Faculty Development
Anthropometric anatomy	Communicable & Non Communicable Disease	Family Health
Applied Biostatistic	Community Health Development	Food Safety and Quality
Arthroplasty	Community Medicine	Forensic Psychiatry
Assessment in Health Profession Education	Community Nutrition	Functional And Electical Neurological Imaging
Audiology	Community Psychiatry	Functional Endoscopic, Sinus Surgery (FESS), Rhinology
Audiology, Speech Sciences, Voice Disorder	Comparative Neurosciences	Gastroenterology, Helminthiasis, Helicobactor pylori
Autoimmunity and Autoimmune Diseases	Consultation Liasion Psychiatry, Pain, Psycho-oncology	Gastrointestinal & Hepatobiliary Pathology
Autoimmunity, Immunizable Diseases, Molecular Biology, Epidemiology of Viral Hepatitis and Biotechnology, Multimedia Design, Development and Implementation	Control & Prevention, Management of Common Tropical & Infectious Diseases	Gastrointestinal and Endocrine Surgery
		Gastrointestinal Physiology
		General Anaesthesiology
Behavioral Neurosciences	Critical Care	General and cell Physiology
Biochemistry of Ageing	Curriculum Planning and Development	General Clinical Biochemistry
Biochemistry of Metabolic Diseases	Cytopathology	General Paediatrics, Paediatric Neurology, Neurology of learning disabled children, Teaching of communication skills and bioethic in medicine, Life-style modification and Healthy-Life-style campaign in children
Biochemistry of Tumour Markers	Day Care Anaesthesiology	
Biochemistry, Molecular Toxicology and Cell Signalling	Dermatology	
Biological Psychiatry	Dermatopathology	
Biostatistic (Statistical Methods in Public Health)	Development Neurosciences	General Surgery
Biostatistics	Development of DNA Vaccines against Tuberculosis	Geriatric
Bone & Soft Tissue Pathology	Developmental anatomy	Geriatric Health
Breast & Endocrine Pathology	Emergency Cardiac Care	Geriatric health, Evaluation of Management health services
Cancer Biochemistry and Molecular Biology	Emergency Radiology	
Cancer Biology	Endocrine Biochemistry	Geriatric Nutrition
Cardiorespiratory Pathology	Endocrine physiology	Geriatric Psychiatry
	Endocrine Surgery	Glaucoma

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Medical Sciences		
Global Warming and Health	Maternal & Child Health, Community Health Development	Neuroimmunology
Gross anatomy		Neuroinfection
Gynaepathology	Maternal and Perinatal Health	Neurointerventional (Cerebrovascular)
Haematological Malignancy	Maternal Fetal Medicine	Neurolinguistics
Haemoglobinopathy/ Thalassemia	Maternal Nutrition	Neurological Disease And Aging
Haemopoietic Stem Cell	Maxillofacial Surgery	Neurology, Sleep Apnoea & Brain Mapping (EEG)
Haemostasis and Thrombosis	Maxillofacial Surgery, Tissue Banking	Neuromarketing And Neuroeconomics
Head and Neck Pathology	Medical Entomology	Neuromathematics
Head and Neck Surgery	Medical microbiology	Neuromodulation And Pain
Health Economics	Medical mycology	Neurooncology
Health Education	Medical Oncology, Surgical Oncology	Neuropathology
Health Financing	Medical Oncology/Haematology and Palliative Care, Feasibility study of Immunotherapy	Neuropharmacology And Medical Chemistry
Health Inequality and Inequities		Neurophthalmology and electrophysiology
Health of Disabled	Medical Parasitology	Neurophysics
Health Personnel education	Medical Parasitology, QBC Technique for malaria diagnosis, Invitro antimalaria drug testing	Neurophysiology
Health Personnel Education, Problem-Based Learning, Community-Based Learning	Medical Sociology	Neuropsychiatry
Health Policy	Medical Virology	Neuropsychology
Health Promotion (Community-Based Learning)	Medico-Legal Issues In Emergency Medicine	Neuroradiosurgery
Health Promotion and Education	Menopause	Neurorehabilitation
Health System Management	Men's Health	Neuroscience in Design and Arts
Healthy Communities and Sustainable Health	Mental Health	Neurosciences And Culture
Healthy Settings	Metabolic and Clinical Genetics	Neurosciences And Media
Hematolymphoid Pathology	Micro and macrovascular endothelial function-clinical & experimental studies	Neurosciences And Society, Philosophy Of Neurosciences
Hepatobiliary Radiology	Minority Health	Neurosciences in Education: Primary School and Learning, Secondary School and Learning, Undergraduate And Postgraduate Learning
High risk pregnancy, smoking	Models, Best Practices Interface Of Neurosciences With All Liberal Arts Disciplines	Neurosciences in Music
Histopathology	Molecular & Cellular Biology	Neurosurgery, Paediatric and General Minimal Access Surgery including Stereotactic and Functional Surgery
Human Genetic	Molecular and Cellular Neurosciences	Neurosurgical Sciences (Paediatric, Minimal Brain Access, Spine And Peripheral Nerve Surgery, Functional And Image Guided Surgical Sciences)
Hyperbaric & Environmental Medicine	Molecular epidemiology	Noise Induced Hearing Loss
Immunodeficiency	Molecular Haematology	Nuclear medicine Physics, Radiotherapy, protection Radiation, Medical radiation protection
Immunohaematology	Molecular microbiology	Nuclear Medicine, Medical Imaging
Immunophenotyping by flowcytometry, AIDS monitoring and leukaemia evaluation, Development of recombinant BCG as Malarial vaccine	Molecular Pathology	Nutrition
Inborn Error of Metabolism	Musculoskeletal imaging, teleradiology	Nutrition & Public Health , Nutrition in the elderly
Industrial Psychiatry	Myobacteriology	Nutrition and Chronic Diseases
Infant Nutrition	Natural Products and Antioxidants	Nutrition Education
Infection control & Hospital acquired infection	Nephrology, Renal Calculi (Cardiology)	Nutrition Policies/Program
Infectious disease	Nervous Physiology	Nutritional Epidemiology
Intensive Care Medicine	Neural Engineering	Obesity: Prevention & Control, Nutritional, Nutrition & Aging, Breastfeeding
Intensive Care Sciences	Neuro Anaesthesiology	Obstetric Anaesthesiology
Interventional cardiology, Ischaemic Heart Diseases, Rheumatic Heart Diseases, Heart Failure	Neuroanaesthesia, Neurocritical Sciences	Obstructive Sleep Apnea
Interventional for Pain and Dysfunctional Neurological Disease	Neuroanatomy	Occupational and Environmental Health
Interventional radiology, Uroradiology, Mammography	Neurobiochemistry	Occupational health
IT In Emergency Medicine	Neurobiochemistry and Toxicology	Occupational Infectious Diseases
Job Stress	Neurobiomedical Engineering	Occupational Lung Diseases
Malariaology & Tropical Medicine, Public Health, Epidemiology of Communicable Diseases and Tropical diseases surveillance system, Sport Sciences and Fitness	Neurochemistry	Occupational Skin Diseases
	Neurodevelopmental Paediatrics	Ocular biomaterial and innovation
	Neuroelectrophysiology	
	Neuroepidemiology	
	Neurofisiology	
	Neurogenetics	
	Neuroimaging	

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Medical Sciences

Ocular epidemiology and prevention of blindness	Public Health & Health Service, Geriatric Health, Evaluation of Management Health Services, Accident Prevention	Stem Cell Pathology
Ocular imaging		Study on Impaired Glucose Tolerance
Ocular molecular biology and genetics		Superoxide free radical in Autoimmune diseases
Ocular wound healing and stem cells	Public Health Epidemiology	Systems Neurosciences
Oncology, General Gynaecology	Public Health Ethics	Teaching & Learning
Orthopaedic Oncology and Reconstruction	Quality in Health Care	Technology and Monitoring in Anaesthesiology and Intensive care
Orthopaedic Rehabilitation	Radiation Oncology	
Otology	Radiological anatomy	Technology in Health Profession Education
Paediatric ophthalmology and strabismus	Rational use of drug, Drug Compliance	Theoretical And Computational Neurosciences
Paediatric Orthopaedics	Reconstructive Science	Toxicology
Paediatric Surgery	Red Cell and Enzymopathy	Traditional and Complementary Integrative Medicine, and Natural Product Research
Paediatrics Endocrinology	Refractive and ocular surface disease	
Paediatrics Gastroenterology	Regenerative Neurosciences And Stem Cell Sciences	Traditional And Complimentary Medicine
Paediatrics Nephrology	Regional and Peripheral Nerve Anaesthesiology	Transdisciplinary Neurosciences Research
Paediatrics Oncology and Haematology	Rehabilitation	Transfusion Sciences
Paediatrics Respiratory Medicine	Rehabilitation Psychiatry	Transplantation Immunology
Patient Safety & Risk Management	Renal & Urology	Trauma & Injury Prevention
Pediatric Anaesthesiology	Renal Biochemistry	Trauma and Resuscitation Anaesthesiology
Pediatric Emergency Medicine	Renal Physiology	Treatment of Pregnancy-induced-hypertension
Pediatric Radiology	Reproductive Endocrinology, Laparoscopic	Tumor Immunology : Production of monoclonal antibody to tumor antigens. Study of thymus and T cell development
Perinatal Medicine	Reproductive physiology	
Pharmacogenetics and Pharmacogenomics	Respiratory Emergencies	Urogynaecology
Pharmacokinetics and pharmacodynamics of drugs	Respiratory physiology	Urology
Pharmacology in Anaesthesia and Intensive Care	Resuscitation Medicine	Vaccinology
Physical Activity and Fitness	Retina and ocular vascular disease	Vascular Surgery
Physiology in Anaesthesia and Intensive Care	Rhinology	Virology
Plastic and Reconstructive Surgery	Safety and Health	Visual Neurosciences
Poverty Reduction and Health	Sexual and Reproductive Health	Waste Disposal and Health
Pre-Hospital Care & Disaster Medicine	Sexual Health	Water and Health
Prevention & Health Promotion	Social and Cultural Psychiatry	Wellbeing & Burnout
Primary Care	Social Determinants of Health	Women Mental Health
Protein and Proteomics	Social Epidemiology	Women's Health
Psychotherapy	Sosio-budaya dan Isu Isu Keagamaan Dalam Kesihatan	Women's Health Imaging
Public Health & Epidemiology, Control of Diarrhoea Diseases, Health Effects of Pesticides Among Tobacco Planters	Speech Sciences	
	Spine and Spinal Cord Injury	
	Sport Orthopaedics	

School of Pharmaceutical Sciences

Bioinformatics and Molecular Modeling	Methods Of Drugs Analysis & Synthesis	Pharmacoepidemiology
Biopharmaceutics	Microbiology	Pharmacoinformatics
Biotechnology	Neuroscience	Pharmacokinetics
Clinical Pharmacy	Novel Drug Delivery Systems	Pharmacology
Computer-Aided Drug Design	Pharmaceutical Chemistry	Pharmacy Management
Drug Metabolism	Pharmaceutical Financing	Pharmacy Practice
Formulation and Product Development	Pharmaceutical Marketing	Physiology
Health Related Quality of Life Studies	Pharmaceutical Policy	Public Health Pharmacy
Health Systems Research	Pharmaceutical Technology	Social Pharmacy
Industrial Hygiene	Pharmacoeconomics	Traditional Medicine / Herbal Medicine

School of Physics

Astrophysics	Biophysics (Radiation, Cardiovascular, Cellular)	Digital Image Processing (Land Cover Mapping, Water and Air Quality Monitoring)
Atmospheric remote sensing	Computational Condensed Matter Physics	Environmental remote sensing (land and water)
Atmospheric studies	Computer Simulation and Modeling of Solar Energy	Exploration geophysics
Bioenergy		

SCHOOLS/CENTRES/INSTITUTES AND AVAILABLE FIELD

School of Physics

Fuel Cell and Batteries	Photometric and spectroscopic studies	Sensors and Actuators
High Energy Physics (Non-Abelian Gauge Theory, Elementary Particle)	Photonic Devices, System and Applications	Solar Thermal and Photovoltaic
Linear and Nonlinear Optics 02	Photonic Materials and Devices	Studies of Condensed Matter Materials and Devices
Materials Fabrication and Characterization for Electronics, Optoelectronics and Biomedicine	Physical oceanography	Theoretical Condensed Matter Physics (Magnetic, Ferroelectric, Liquid Crystals)
Medical Instrumentation (Laser, Ultrasound, MRI, CT, Nuclear Medicine, Imaging Techniques)	Positional astronomy	Thermal Processes in Device and Packaging
Meteorology	Radiation Dosimetry, Radiation Protection (Monte Carlo Methods, Non-destructive Testing)	X-Ray Structure Determination and Characterization (Organic/Organometallic Compounds, Non-linear Optical Materials, Natural Products)
Modeling and Simulation of Condensed Matter Devices	Radiation Physics	
Optical and Remote Sensing Technology	Radioastronomy	
Ozone studies	Semiconductor Fabrication (Thin film, epitaxy and nano structures)	

School of Social Sciences

Agricultural Economics	Industrialisation & Urbanisation	Politic of Islamic-Based Development
Al-Qur'an & Al-Sunnah for Development Management	Industrialisation & Technology	Political Science
Anthropology and Sociology	International Economics	Political Thoughts
Ar-Rahnu Development Management	International Relations	Population
Community Work	Islamic Accounting	Project Planning
Comparative Politics	Islamic Anthropology	Psychology
Conflict & Peace	Islamic Banking	Public Administration
Counseling	Islamic- Based Development Management Ethics	Public Finance/ Public Sector Economics
Criminology	Islamic Development Management	Public Policy
Cross-cultural Studies	Islamic Economics	Public Sector Management
Development History	Islamic Finance	Religion
Development Issues	Islamic Management	Social Administration
Development Methodology	Islamic Movements	Social Anthropology
Development Planning & Management	Islamic Political Economy	Social Development
Development Theory	Islamic Politics	Social Policy and Social Services
Econometric	Islamic Research Methodology	Social Welfare
Economic Development	Islamic Sociology	Social Work
Economic Theory	Islamic-Based Conflict Management	Social Work Education
Economy	Islamic-Based Development	Social Work Methodology
Education & Development	Islamic-Based Development Institutions	Social Work Research
Environmental Economics	Islamic-Based Poverty Management	Sociology of Work
Environmental Sociology	Islamic-Based Project Management	Sustainable Development
Finance	Islamic-Based Wealth Management	Takaful Development Management
Gender Studies	Islamization of Economic Institutions	Technology Transfer
Globalization Cyber Culture	Japanese Studies	Usul-Fiqh and Fiqhiyyah Methods for Development Management
Halal Products, Services and Issues	Labour Economics	
Health & Development	Leadership Studies	Waqf Development Management
Human Development Management	Local Government	Wills and Faraid Development Management
Human Ecology	Migrant Workers	Women & Work
Industrial Economics	Minorities Studies	Work Organization Corporate Social Responsibility
	Policy & Planning	Zakat Development Management

Women's Development Research Centre

Gender Studies