

OFFER OF THE UNIVERSITY OF MALAYA BRIGHT SPARKS SCHEME (SBSUM)

SEMESTER 2, SESSION 2016/2017

FACULTY OF ENGINEERING			
No.	Department	Research Field	Recommended Supervisor
1	Department of Civil Engineering, Faculty of Engineering	<ul style="list-style-type: none"> • Civil and Structural Engineering • Concrete technology • Green Concrete • Structural modeling 	Dr. Yap Soon Poh
2		Concrete Materials, Cement-less Concrete, Cement Chemistry, Structural Engineering	Dr. Mo Kim Hung
3	Department of Electrical Engineering, Faculty of Engineering	<ul style="list-style-type: none"> • Electronics • Bio-medical • Power system and Control 	Prof. Dr Mahmoud Moghavvemi
4		<ul style="list-style-type: none"> • Cognitive radio • 5G Networks • Device-to-Device (D2D) Communications • Internet-of-Things (IoT) 	Dr. Effariza Hanafi
5		<ul style="list-style-type: none"> • RFIC & Analog IC Design • RF Energy Harvesting (RFEH) • Low Power CMOS IC Design • RFIC for IoT Solution 	Assoc. Prof. Ir. Dr. Harikrishnan Ramiah
6		<ul style="list-style-type: none"> • Instrumentation and Control • Fluid Flow, Natural Gas, Hydrogen Technology • Robotics, Automation System 	Assoc. Prof. Dr. Mahidzal Dahari
7		Power Systems, Renewable Energy	Assoc. Prof. Ir. Dr. Hazlie Mokhlis
8		Image processing, human-machine interface, brain-computer interface, signals processing, artificial intelligence	Dr. Norrima Mokhtar

9		<ul style="list-style-type: none"> • Power Electronics • Renewable Energy and energy efficiency • Motor Drive 	Prof. Dr. Saad Mekhilef
10		<ul style="list-style-type: none"> • Photonics • Optical Devices • Optical Communications 	Prof. Dr. Sulaiman Wadi Harun
11		<ul style="list-style-type: none"> • High Voltage Engineering: • Partial discharge • Optimisation technique • Artificial Intelligence 	Dr. Hazlee Azil Illias
12		<ul style="list-style-type: none"> • Optical fibre • Optical waveguide • Sensor • Biophotonics 	Wong Wei Ru
13	Department of Mechanical Engineering, Faculty of Engineering	<ul style="list-style-type: none"> • Energy Materials • Energy Harvesting Technology • Nanocomposite • Electronics materials 	Dr. Shaifulazuar Rozali
14		<ul style="list-style-type: none"> • Renewable Energy System • Biofuel 	Dr. Ong Hwai Chyuan
15		<ul style="list-style-type: none"> • Engineering Ceramics • Advanced Ceramics • Processing <ul style="list-style-type: none"> - Bioceramics - Failure Analysis - Material Characterization & Mechanical Properties Evaluation 	Prof. Ir. Dr. Ramesh Singh
16		<ul style="list-style-type: none"> • M&E Engineering • Green Building Services Study in the Tropics • Energy Savings in Buildings 	Professor Ir. Dr. Yau Yat Huang

FACULTY OF SCIENCE			
No	Department	Research Field	Recommended Supervisor
1.	Chemistry	<ul style="list-style-type: none"> Bioinorganic Chemistry Inorganic Chemistry (Macro cyclic Dye-synthesised/Solar Cell / Liquid Crystal Properties) 	Prof. Dr. Hapipah Mohd Ali
2.	Physic	Organic Synthesis	Prof. Madya Dr. Azhar Ariffin
		High Energy Physics	Prof. Wan Ahmad Tajuddin Wan Abdullah
		Radiation Physics	Prof. Yusoff Mohd Amin
		Materials Science	Prof. Dr. Ramesh T. Subramaniam
		Theoretical Nuclear Physics	Prof. Hasan Abu Kassim
		Experimental Nuclear Physics	Prof. Madya Mayeen Uddin Khandaker
3.	ISM	Partial Differential Equation	Prof. Dr. Mohd bin Omar

FACULTY OF MEDICINE			
No	Department	Research Field	Recommended Supervisor
1.	Medical Microbiology	Molecular genomic in Diagnostics	Prof. Dr. Ng Kee Peng

FACULTY OF COMPUTER SCIENCE & INFORMATION TECHNOLOGY

No	Department	Research Field	Recommended Supervisor
1.	Software Engineering	<ul style="list-style-type: none"> • Medical Image Processing • Medical Machine Learning • Biomedical Informatics 	Prof. Madya Datin Dr. Sameem Abdul Kareem
		Biometric	Dr. Woo Chaw Seng
		<ul style="list-style-type: none"> • Deep learning • Cognitive Robotics 	Prof. Dr. Loo Chu Kiong
		Software Traceability	Prof. Dr. Lee Sai Peck
		Human Computer Interaction	Prof. Dr. Siti Salwah Salim
2.	Library & Information Science	<ul style="list-style-type: none"> • Information need and behavior • Digital Library 	Prof. Madya Dr. Noorhidawati Abdullah
3.	Computer System & Technology	<ul style="list-style-type: none"> • Mobile Cloud Computing • Cloud Computing • Big Data • Internet of Things 	Prof. Dr. Abdullah Gani
		<ul style="list-style-type: none"> • Security Protocols (Group Communication, Key Management, Wireless Mobile Environments) • Communication Protocols (Wireless Security, Ad-hoc Network Security, Mobile Communication Security) • Information Security (Applied Cryptography, Applied Steganography) 	Prof. Dr. Miss Laiha Binti Mat Kiah
		<ul style="list-style-type: none"> • Video and Image Processing • Pattern Recognition 	Dr. Shivakumara Palaiahnakote

		Image Processing, Computer Vision, Information Security	Dr. Hamid Abdalla Jalib Al-Tulea
Computer System & Technology	<ul style="list-style-type: none"> • Intrusion Detection System (Intrusion Detection Systems, Intrusion Response Systems, Security Event and Incident Management, Digital Forensic, Network Security) • High Speed Network (Switching, Routing, IPv6, Multicast) • Management Information System (E-thesis, Library Systems, Online Systems) 		Dr. Nor Badrul Anuar Bin Juma'at
	Mobile Network Technologies (Network Mobility, Quality of Service, Quality of Experience, Vehicular Ad Hoc Networks)		Dr. Rafidah Binti Md Noor
	<ul style="list-style-type: none"> • Adaptive Multimedia • Image Processing 		Prof. Madya Dr. Nor Aniza Abdullah
	Big Data Analytics in Malware Detection		Prof. Madya Dr. Rosli Salleh
	Data hiding, Multimedia encryption, Multimedia compression		Dr. Wong Kok Sheik
	<ul style="list-style-type: none"> • Distributed Systems • Pervasive Computing • Ad Hoc And Sensor Wireless Networks 		Dr. Mohammad Hussien Anisi
	Security Services Sn: Digital Forensic, Steganography, Network Security, Public Key Infrastructure And Biometrics (Information Hiding, Steganography)		Dr. Por Lip Yee @ Por Khoo Sun
	Mobile Network Technologies (mobile computing, pervasive		Prof. Madya Dr. Mazliza Binti Othman

		computing, ubiquitous computing)	
4.	FSKTM (Smart Advisors)	<ul style="list-style-type: none"> Adaptive Multimedia Retrieval User Modelling and Profiling Context-Aware Recommender System Medical Image Processing and Diagnosis 	Prof. Madya Dr. Nor Aniza Abdullah

INSTITUTE OF GRADUATE STUDIES			
No	Department	Research Field	Recommended Supervisor
1.	IPS- Nanotechnology & Catalysis Research Centre (NANOCAT)	Catalysis, Nanotechnology: Energy Catalysis, Environment Catalysis, Chemical Synthesis, Biomass, Nanomaterial	Prof. Dr. Sharifah Bee Abd Hamid
		Power Electronics and Solar PV Technology	Prof. Dr. Nasrudin Abd Rahim
		Biochemistry, Molecular Biology, Food Science and Technology, Environmental Sciences, Nanotechnology	Dr. Md Eaqub Ali
		Nanotechnology and catalysis: Energy application	Dr. Samira Bagheri
		Photocatalysis / solar renewable energy / nano-materials / Environmental Pollution Management	Dr. Lai Chin Wei
		Chemical Catalysis, Biofuel, Wastewater Treatment, Battery, Energy, Environment Catalysis	Assoc. Prof. Dr. Juan Joon Ching
		Organic synthesis and nanocompounds	Dr. Wageeh Abdulhadi Yehya
		Nanomaterials and Nanodevices, Nanofabrication and Nanocharacterization	Assoc. Prof. Dr. Ong Boon Hoong

		Nanocomposites catalyst	Dr. Nurhidayatullaili Muhd Julkapli
		Catalysis in energy, Biomass to advance material	Dr. Lee Hwei Voon
2.	IPS - UM Power Energy Dedicated Advanced Centre (UMPEDAC)	Machine and Drives	Prof. Dr. Hew Wooi Ping
		Power System	Dr. Ab Halim bin Abu Bakar
		Energy Policy	Dr. Md. Hasanuzzaman
		Power Electronics	Dr. Jeyraj a/I Selvaraj

FACULTY OF ECONOMICS & ADMINISTRATION			
No	Department	Research Field	Recommended Supervisor
1.	Economics	<ul style="list-style-type: none"> • Macromodelling • Macroeconomics • Input - Output Analysis • Information Economics 	Prof. Madya Dr. Yap Su Fei
		<ul style="list-style-type: none"> • International Trade and Environmental • Resource and Environmental Economics • Macroeconomics/ Microeconomics 	Prof. Madya Dr. Fatimah Kari
		<ul style="list-style-type: none"> • International Trade • Regional Integration 	Prof. Madya Dr. Evelyn S. Devadason
		<ul style="list-style-type: none"> • Monetary Economics • International Trade • Development Economics 	Prof. Dr. Tan Eu Chye

2.	Development Studies	Technology & Innovation	Prof. Dr. Rajah Rasiah
		<ul style="list-style-type: none"> • Industrial Development • Innovation Economics 	Prof. Madya Dr. VGR Chandran Govindaraju
3.	Applied Statistics	<ul style="list-style-type: none"> • Financial Econometrics • Applied Econometrics • Applied Statistics • Finance • Portfolio Management 	Dr. Lau Wee Yeap
		<ul style="list-style-type: none"> • Multivariate Techniques • Medical Statistics • Health Information System • Mathematics of Education • Applied Statistics • Structural Equation Modeling • Mixture Model 	Prof. Dr. Noor Azina Ismail
		<ul style="list-style-type: none"> • Econometrics • Financial Time Series Analysis 	Prof. Dr. Goh Kim Leng
		<ul style="list-style-type: none"> • Operations Research/ Management Science • Survey Research • Organization Performance Measurement 	Prof. Dr. Susila Munisamy
4.	Administrative Studies and Politics	<ul style="list-style-type: none"> • Malaysian Politics • Political Economic • Ethnic Business 	Prof. Dr. Edmund Terence Gomez
		<ul style="list-style-type: none"> • Organizational and Human Resource Management • Public Administration • Political Economy 	Prof. Madya Dr. Beh Loo See
		<ul style="list-style-type: none"> • Civil Society • Theory and Political Thought 	Prof. Madya Dr. Makmor Tumin

FACULTY OF BUSINESS AND ACCOUNTANCY

No	Department	Research Field	Recommended Supervisor
1.	Accounting	<ul style="list-style-type: none"> • Management Accounting (SMEs Accounting, Budgeting Process Reform) • Philosophy of Science in Management (Philosophy of science in management, areas of Action research) • Service Innovation and Information Management (Service Innovation of SMEs) • Governance And Management Control Systems (Corporate Governance, Control systems, Fraud, Forensic Management) 	Prof. Madya Dr. Edward Wong Sek Khin
		<ul style="list-style-type: none"> • Management Accounting (Management accounting, control system) • Behavioural Accounting (Accounting change) • Management Accounting (Accounting for SMEs) 	Prof. Dr. Che Ruhana Isa
		<ul style="list-style-type: none"> • Management Accounting • Management Control Systems • Performance Measurement Systems 	Prof. Madya Dr. Ruzita Jusoh
		<ul style="list-style-type: none"> • Financial Accounting And Reporting • Islamic Accounting • Corporate Social Responsibility (CSR) • Religiosity And Ethics • Internal Auditing And Governance • Islamic Banking And Finance 	Prof. Madya Datin Dr. Rusnah Muhamad
2.	Operations And Management Information Systems	<ul style="list-style-type: none"> • Logistics (Supply Chain) • Operation Management 	Prof. Dr. Suhaiza Hanim Dato' Mohamad Zailani
		<ul style="list-style-type: none"> • Technology Management (technology adoption, technology management, digital divide) • Information, Computer And Communication Technology 	Prof. Dr. Ainin Sulaiman

		<ul style="list-style-type: none"> • Accounting Information Systems • Information Technology Management • Information Technology Governance 	Prof. Madya Noor Ismawati Jaafar
3.	Business Policy & Strategy	Tourism Management (e.g. Scuba Diving Tourism, Health Tourism, Tourism and The Disabled Community, Tourism and Elderly, Socio Cultural Impacts Of Tourism etc.) Consumer Behavior, Services Marketing (Tourism)	Prof. Dr. Ghazali Musa
		<ul style="list-style-type: none"> • International Business • Strategic Management • Islamic Perspectives On Business And Management 	Prof. Dr. Mohd Nazari Ismail
		<ul style="list-style-type: none"> • Entrepreneurial Studies (innovation, social entrepreneurship) • Development (SME development) 	Prof. Madya Dr. Aida Idris
4.	Finance & Banking	<ul style="list-style-type: none"> • Banking Performance & Regulation • Corporate Finance • Risk Management 	Prof. Madya Dr. Rubi Ahmad