



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

CURRICULUM VITAE



Name : SHAMSUL BIN SARIP
Date of Birth : 21 JANUARY 1974
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Marital Status : MARRIED

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JALAN SULTAN YAHYA PETRA, 54100 KUALA LUMPUR

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ACADEMIC QUALIFICATION

2008-2011 : Ph.D. Mechanical Engineering
University of Bradford, United Kingdom

2000-2002 : M.Eng. (Mechanical Engineering)
Universiti Teknologi Malaysia

1996-1998 : B. Eng. (Mechanical Engineering)
Universiti Teknologi Malaysia

1993-1995 : Diploma in Mechanical Engineering
Universiti Teknologi Malaysia

1991-1992 : SPM (Mechanical Engineering)
Sekolah Teknik Tuanku Ja'afar Seremban, N. Sembilan

AWARDS AND HONORS RECEIVED

Awards/Achievement

- Disember 2018 : High Achievement on Industrial Research Award
UTM Razak Faculty Citra Karisma 2018
- 2018 : International University Carnival on E-Learning 2018
Silver Medal
Invention, Innovation & Design on E-Learning (IIDEL) – Pico Hydro
Turbine
: New Academia Learning Innovation 2018
Bronze Medal
Pico Hydro Turbine
- December 2017 : Hari Inovasi Nuklear Malaysia 2017
Bronze Medal
Micro Hydro Turbine Prototype
- 16 May 2017 : Original Book Publication Award
Shamsul Sarip (2016). *The Future of Braking: Lightweight Friction Brake
for Green Vehicles*. Penerbit UTM
UTM Citra Karisma Excellence Service Award 2017
- December 2017 : Community Social Responsibility Award
UTM Razak School Citra Karisma 2016
- 31 May 2016 : UTM Citra Karisma Excellence Service Award 2016

PROFESSIONAL EXPERIENCES

Positions / Employer

- October 2017 – Present : Director
ARUS Infiniti Sdn Bhd
UTM Spin Off Company
- May 2014 – April 2015 : Industrial Attachment (Practical Engineering Experience)
DFRAN Research Technologies Sdn. Bhd, Kajang
- 2012 – Present : Senior Lecturer
UTM Razak School of Engineering and Advanced Technology
Universiti Teknologi Malaysia Kuala Lumpur
- 2002 – 2012 : Lecturer

		Kolej Sains dan Teknologi Universiti Teknologi Malaysia Kuala Lumpur
2000 – 2002	:	Tutor Program Pengajian Diploma Universiti Teknologi Malaysia Kuala Lumpur
1999-2000	:	Lecturer L&G Twintech, Bandar Sri Damansara Kuala Lumpur
1998	:	Practical Training Department of Mechanical Engineering, Amsteel Mill Bukit Raja Klang
1997	:	Technician 3 in Samsung Industries Taman Tuanku Jaafar Seremban
1995	:	Technical Assistant Alpha Industries Sdn Bhd (Malaysia), Kangkar Tebrau, Johor
1994	:	Technician in Hualon Corporation Sdn. Bhd., Nilai
1993	:	Lab assistant in Wembley Rubber Product Sdn. Bhd. Salak Tinggi
1992	:	General Worker in Wembley Rubber Product Sdn. Bhd. Salak Tinggi

JOURNAL EDITOR/EDITORIAL/ADVISORY PANEL

- i) Editorial Proceeding of the 2st Master Project Symposium, 2018
- ii) Editorial Original Book, Pendidikan STEM Tenaga Boleh Diperbaharui. Jan 2018
- iii) Editorial Proceeding of the 1st Master Project Symposium on Engineering Business Management, 2017
- iv) Editorial Book Chapter, Materials and Testing of Mechanical Engineering Jan 2016 – 6 Sept 2016
- v) Editorial Journal of Automobile Engineering Part D reviewer. Experimental investigation of the brake system's efficiency for commercial vehicles equipped with disc brakes. Dzmitry Tretsiak. 2014
- vi) Associate Editor of International Conference on Robust Quality Engineering (ICRQE2013) Proceeding, 2013
- vii) Associate Editor of International Conference in Engineering Business Management (ICEBM 2013) Proceeding
- viii) Editor Board *Jurnal Teknologi* – Special Edition (1st International Robust Quality Engineering Conference). 2013

ADMINISTRATIVE EXPERIENCES

Faculty Level

July 2018 – Present	Director of Engineering and Technology Razak Faculty of Technology and Informatics UTM Kuala Lumpur
April 2017 – Jun 2018	Head of Engineering Department UTM Razak School of Engineering and Advanced Technology UTM Kuala Lumpur
January 2018 – Sept 2018	Race Director STEM Explore Run 2018 @ Putrajaya Wilayah Persekutuan
January 2018 – Dec 2018	Student Formula Japan Advisor Student Formula SAE Competition of JAPAN 2018
August 2017 – May 2018	Project Leader Oil Palm Fruit Loading using Automatic Loader
April 2016 – April 2017	Project Leader Micro Hydro Turbine Development in Royal Belum
August 2016 – August 2017	Project Member Gravitational water vortex power plant in Pos Lemoi Cameron Highlands
January 2015 – April 2017	Coordinator Master of Science (Engineering Design) UTM Razak School of Engineering and Advanced Technology
Januari 2017	UTP Innovation Competition 2017 Product / Invention / Innovation Title: Low Cost Micro Hydro Power Generation: A Cross-Flow Turbine Development Task Force Hubungan Kerjasama antara UTM Dan ITB Program Coordinator For Master of Science (Engineering Design) Master's Project Symposium Committee Secretary of R10 Archery Club Kuala Lumpur 2nd National Workshop & Training Course on Ocean Energy Master Project Symposium
2016	

Adopt A Kampung, 3rd Project

Master Project Committee

Pemasaran Program Utm Razak

Team Manager UTM Razak School Racing Team for EIMARace 2015

ProQ_RS lecture on Practical Experience, UTM Razak School of Engineering and Advanced Technology. 11 Mac 2015

2015

Reviewed two papers of 2nd International Conference on Engineering Business Management (ICEBM 2015)

Reviewed a paper of 4th International Conference on Agriculture, biotechnology, Science and Engineering 2015

A Member of University Social Responsibility (USR), 'Adopt a Kampung'

Team Manager UTM Razak School Racing Team (Formula SAE Japan 2014)

ECOPA (Ogasayama Sports Park, Shizuoka-ken)

2 - 6 Sept 2014

Organized APEL Assessment at UniKL MIAT

2014

Special Program Coordinator MEBM UniKL MIAT

Editor Board *Jurnal Teknologi* – Special Edition (1st International Robust Quality Engineering Conference)

Reviewed International Journal of Materials, Mechanics and Manufacturing (IJMMM) - CFD Analysis on MAV NACA 2412 Wing In High Lift Take-off Configuration

In charge as Head of Engineering Department UTM Razak school

Assistant Team Manager UTM Razak School Racing Team (EIMARACE 2013)

Panel Assessor for Presentation of Project 1 & 2 Master Program of EMOSHM in UTM Razak School

Panel Assessor for Research Proposal Defence of Project 2 Master Program of Engineering Business Management in UTM Razak School

Committee of Panel Assessor for Research Proposal Defence of PhD Program in UTM Razak School UTM Razak School

Khartoun Exhibition for Learning and Employment in Sudan Jun 2013

Panel Assessor for Research Proposal Defence of PhD Program in UTM Razak School May 2013

2013

Joint Researcher for High Impact in Hutan Simpan Royal Belum Perak

Panel Assessor for First Stage Assessment of Master and PhD Program Semester 2 in MJIT May 2013

Panel Assessor for Research Proposal Defence of PhD Program in UTM Razak School

International Construction Week in KL Convention Centre 26-28 Mac 2013

Committee of Sudanese Project UTM Razak School

Panel Assessor for Proposal Defence Presentation Engineering Doctorate UTM Razak School

Committee of Master Science in (Risk and Reliability Engineering) Curriculum UTM Razak School

Committee of Seminar on Advanced Active Remote Sensing (SAARS 2013)

Assessor Chair Person for Presentation Project 1 Master in Engineering Business Management UTM Razak School

Associate Editor of International Conference in Engineering Business Management (ICEBM 2013) Proceeding

Committee of International Conference in Engineering Business Management (ICEBM 2013)

Associate Editor of International Conference on Robust Quality Engineering (ICRQE2013) Proceeding

Committee of International Conference on Robust Quality Engineering (ICRQE2013)

Panel Assessor for First Stage Assessment of Master and PhD Program Semester 2 in MJIT

Head of Technical and Logistic, UTM Razak School Convocation 2012

Coordinator for Summer Training Program Taibah University
 Madina Al- Munawwarah Kingdom of Saudi Arabia
 Sirim, IC Microsystem and KLIA Premium as a Fasilitator for Summer Training Programme Taibah University Madina Al- Munawwarah Kingdom of Saudi Arabia

In charge as Head of Mechanical Department UTM Razak school

In charge as IT Manager UTM Razak School

Team Manager UTM Razak School Racing Team (EIMARACE)

Lead Project Unconventional Human Powered Vehicle (UHPV)
 UTM Razak School (Race for Bosses 2012)

Academic Research for Proton Satellite Research Laboratory (PSRL)

2012

2011

Head of Mechanical Laboratory UTM Razak School
 MQA 03 Preparation report to Quality Management UTM Razak

	School Committee for UTMOST Festival Program
2008	Head of Air Cond and Refrigerant Workshop, Department of Mechanical Engineering
2007	Course Facilitator for UTM KL Staff Website Valuation Panel for Industrial Training Project Presentation Head of Air Cond and Refrigerant Workshop, Department of Mechanical Engineering
2006	Supervisor Projek Sarjana Muda Kejuruteraan Mekanikal (SZM) Universiti Pertahanan Nasional Malaysia. Committee of Industrial Training Head of AutoCAD Lab, Department of Mechanical engineering Coordinator of Fluid Mechanics II subject Committee of Student Development Centre Facilitator of Second College Programs, Gunung Lambak, Johor Facilitator of Second College Programs, Cherating, Pahang
2005	Head of AutoCAD Lab, Department of Mechanical engineering Fellow of Second College UTMKL Committee of Safety and Health for KST Committee of Majlis Bulan Kemerdekaan Ke-48
2004	Head of AutoCAD Lab, Department of Mechanical engineering Committee of IT Management Committee of Technical Value of IDB Tender. Committee of Hari Keluarga KST, Peringkat UTMKL
2003	Coordinator of Technical Drawing subject Head of Thermodynamics Lab, Department of Mechanical Engineering
2002	Head of Thermodynamics Lab, Department of Mechanical Engineering Coordinator of Fluid Power subject
2000-2008	Academic Advisor

University Level

July 2017 – July 2020 :

- Positions/Committee**
- i) Research Fellowship
UTM OTEC, Universiti Teknologi Malaysia

- January – December 2017 : **Positions/Committee**
 ii) Academic Fellowship
 Office of Asset and Development, Universiti Teknologi Malaysia
- April 2016 – July 2017 : **Positions/Committee**
 iii) Project Leader
 Micro hydro turbine (8 kW) development in Kampung Sungai Kejar Royal Belum State Park, Gerik, Perak
- Nov 2016 – Oct 2017 : **Positions/Committee**
 iv) Mechanical Expert
 Vortex Turbine (5 kW) development in Pos Lemoi Cameron Highland

NATIONAL COMMITTEE

- i) Deputy Chair Kumpulan Latihan Kelanasiswa Malaysia (KLKM) 2019
- ii) AJK PIBG SEK. MEN AGAMA MAJLIS AGAMA ISLAM W. PERSEKUTUAN 2019
- iii) Appoint as Secretary for R10 Archery Club (2016 – 2018)
- iv) Appoint as AJK of Persatuan Memanah Wilayah Persekutuan Kuala Lumpur (2017-2018)
- v) AJK PIBG Sek. Keb. Wangsa Maju Zon R10 Kuala Lumpur (2016-2018)

INTERNATIONAL APPOINTMENT/COMMITTEE

- i) Internship Program from IUT France (April – June 2018). UTM SMART-ENERGY Module
 - a. Valentin Connan (connanvalentin@gmail.com)
 - b. Thibault Laurent (thibaultlaurent50@gmail.com)
- ii) Team Manager UTM Razak School Racing Team (Formula SAE Japan 2014) ECOPA (Ogasayama Sports Park, Shizuoka-ken) 2 - 6 Sept 2014
- iii) Committee of International Conference on Robust Quality Engineering (ICRQE2013)
- iv) Committee of International Conference in Engineering Business Management (ICEBM 2013)
- v) Coordinator for Summer Training Program Taibah University Madina Al- Munawwarah Kingdom of Saudi Arabia, April-Sept 2012

PROFESSIONAL MEMBERSHIP AND RECOGNITION

2018	:	Member of The Institution of Engineers Malaysia (104601)
2018	:	Full Member of Ocean Thermal Energy Centre (OTEC) Universiti Teknologi Malaysia
2017	:	IEEE MEMBERSHIP (170614-000002)
2017	:	Full Member Royal Belum Research Group UTM Razak School of Engineering and Advanced Technology
2013	:	Affiliate Member of Ocean Thermal Energy Centre (OTEC) Universiti Teknologi Malaysia
2012	:	Associate Members of Wind Engineering for (Urban, Artificial, Manmade) Environment Research MJIT UTM Kuala Lumpur
2012	:	International Association of Computer Science and Information Technology (IACSIT)
2012	:	Registered as Graduate Member (Mechanical Engineering) with the Board of Engineers, Malaysia (BEM)
2012	:	SAE International
2012	:	International Association of Engineers, Malaysia

TEACHING EXPERIENCES

2012-2018

Sem 2 20122013

1. DDJ3303 MEKANIK BENDALIR II
2. SRI3025 REKABENTUK INDUSTRI 06

Sem 1 20132014

1. DDPJ3303 MEKANIK BENDALIR 2
2. SRI3025 REKABENTUK INDUSTRI 06

Sem 2 20142015

1. DDPJ2312 KUASA BENDALIR
2. DDPJ2911 MAKMAL KEJURUTERAAN 1
3. SRSI2013 SAINS KEJURUTERAAN

Sem 2 20142015

1. DDKM2901 MAKMAL KEJURUTERAAN
2. DDKM2901 MAKMAL KEJURUTERAAN
3. DDPJ2312 KUASA BENDALIR

Sem 1 20152016

1. DDPJ3322 KUASA BENDALIR
2. DDPJ3504 PROJEK REKABENTUK MEKANIKAL
3. DDPJ3532 REKABENTUK KEJURUTERAAN MEKANIKAL
4. SRSD2103 SAINS KEJURUTERAAN

Sem 2 20152016

1. DDPJ2312 KUASA BENDALIR
2. DDPJ2911 MAKMAL KEJURUTERAAN 1

Sem 1 20162017

1. DDPJ3322 KUASA BENDALIR
2. DDPJ3504 PROJEK REKABENTUK MEKANIKAL

Sem 2 20162017

1. ERSA 1123 Current Topics in Technology Management

Sem 3 20162017

1. MRSF 2233 Fluid Power

Sem 1 20172018

1. ERSA 1123 Current Topics in Technology Management
2. MRSE 2573 Integrated Occupational Safety, Health and Environmental Management
3. MRSF 1233 Engineering Design Process & Methodology

Sem 2 20172018

1. SMJP2131 LABORATORY I
2. MRSE 2553 Logistics Management

Sem 1 20182019

2. MRSE 2573 Integrated Occupational Safety, Health and Environmental Management
3. MRSF 2233 Fluid Power

Sem 2 20182019

1. MRSE 2573 Integrated Occupational Safety, Health and Environmental Management
2. MRSF 1233 Engineering Design Process & Methodology
3. UKQS 2092 Archery

Total credit = 79

UNDERGRADUATE COURSES

SME2123	Mechanics of Solid II
SME2921	Laboratory II
DDJ3312	Fluid Power
SRI3025	Industrial Design 06
DDJ3303	Fluid Mechanics II
DDPJ3303	Fluid Mechanics II
SRI3025	Industrial Design 06
SRSI2013	Engineering Science
DDPJ2911	Engineering Laboratory I
DDPJ2312	Fluid Power
DDKM2901	Engineering Laboratory
DDPJ3532	Mechanical Engineering Design
DDPJ3504	Mechanical Design Project
SRSD2103	Engineering Science
DDPJ3322	Fluid Power
DDPJ2911	Engineering Laboratory 1
DDPJ3504	Mechanical Design Project

UKQS 2092 Archery

POSTGRADUATE COURSE TAUGHT

MRSF1213	Engineering Design Optimization
ERSA1123	Current Topics in Technology Management
MRSE2573	Intergrated Occupational Safety, Health and Environment Man
MDE2623	Simulation of System
MRSE2623	Simulation of Systems
MRSE1914	Master Project 1
MRSE2926	Master Project 2
UDP0010	Research Methodology
MRSF2233	Fluid Power
MRSE2553	Logistics Management

RESEARCH PROJECT UNDERTAKEN

Project Leader

1	Q.K130000.3556.07G32	RM37,000	ACTIVE	UTM-TDR 24.2 (T2): COMPUTATIONAL AND EXPERIMENTAL ANALYSIS OF VERTICAL AXIS MARINE CURRENT TURBINE DESIGN FOR SMART-ENERGY MODULE	UTM TDR
2	S.K130000.0856.4Y138	RM4000	ACTIVE	SROI:SUSTAINABILITY OF MICRO HYDRO CROSS-FLOW TURBINE FUTURE AND DEVELOPMENT IN ROYAL BELUM	BE
3	R.K130000.7840.4L425	RM47,800	ACTIVE	Oil Palm Fruit Loading using Automatic Loader	PPRN
4	Q.K130000.2540.17H56	RM40,000	ACTIVE	INVESTIGATE OF SUSTAINABILITY HYBRID RENEWABLE ENERGY SYSTEM: OCEAN CURRENT TURBINE & SOLAR POWER SYSTEM ELECTRIFICATION ON ONE FATHOM BANK MALAYSIA	TIER 1
5	Q.K130000.2540.15H31	RM40,000	COMPLETED	FEASIBILITY STUDY AIMING AT IDENTIFYING THE POTENTIAL OPPORTUNITIES OF DEVELOPING A PIONEER UNDERWATER OCEAN TURBINES POWER PLANT ON THE ONE FATHOM BANK	TIER 1
6	R.K130000.7840.4L192	RM100,000	COMPLETED	MEMBANGUNKAN MIKRO TURBIN BANKI SECARA LESTARI BAGI MEMPERTINGKATKAN TARAF HIDUP SERTA EKO-PELANCONGAN DIKAMPUNG SUNGAI	CCIN

TIANG, TAMAN NEGERI ROYAL BELUM

7	R.K130000.7740.4J079	RM50,000	COMPLETED	EXPERIMENTAL INVESTIGATION OF LIGHTWEIGHT BRAKE ROTOR FOR A ROAD VEHICLE WITH REGENERATIVE BRAKING	UTMF
8	Q.K130000.2540.03H57	RM103,000	COMPLETED	INVESTIGATION OF HEAT TRANSFER CHARACTERISTIC FOR LIGHTWEIGHT DISC BRAKE ON REGENERATIVE BRAKING SYSTEM FOR ELECTRIC VEHICLE.	TIER 1
9	75112	RM20,000	COMPLETED	STRESS ANALYSIS OF LAMINATED COMPOSITE PLATES WITH EMBEDDED SHAPE MEMORY ALLOY (SMA) USING FINITE ELEMENT METHOD	ST

Project Member

1	R.K130000.7740.4J315	ACTIVE RM65,000	RESOURCE SUSTAINABILITY	SMART WINDOW: THE NEW GENERATION OF CONCENTRATING SOLAR PHOTOVOLTAIC SYSTEM	DPUT MRAZAK
2	R.K130000.7340.4B315	ACTIVE RM11,000	RESOURCE SUSTAINABILITY	Conceptual Design of Fixed Ocean Thermal Energy Conversion (OTEC) Offshore PowerPlant	OTR
3	Q.K130000.2440.04G02	ACTIVE RM65,000	RESOURCE SUSTAINABILITY	Conceptual Design of Fixed Ocean Thermal Energy Conversion (OTEC) Offshore Power Plant in Malaysia	COE
4	S.K130000.0440.4Y105	ACTIVE RM19,000	RESOURCE SUSTAINABILITY	SEAWATER BARRIER FOR MUDDY COASTAL AREA	BE
5	Q.J130000.2533.19H96	ACTIVE RM30,000	RESOURCE SUSTAINABILITY	PEMBANGUNAN REKABENTUK MISWAK SUGI	Tier 1
6	Q.K130000.2640.15J44	ACTIVE RM20,000	RESOURCE SUSTAINABILITY	INCREASING THE PERFORMANCE OF MAGNETORHEOLOGICAL VALVE USING MULTIPLE FLOW CHANNEL CONFIGURATIONS	Tier 2
7	R.K130000.7740.4J292	ACTIVE RM32,000	RESOURCE SUSTAINABILITY	Lifestyles of Underprivileged People towards Sustainable Surroundings	DPUT MRAZAK
8	R.K130000.7740.4J297	ACTIVE RM32,000	RESOURCE SUSTAINABILITY	Safety Security Management Plan to Curb Football Fans Hooliganism at Stadium	DPUT MRAZAK
9	R.K130000.7740.4J299	ACTIVE RM32,000	RESOURCE SUSTAINABILITY	DESIGN, FABRICATION AND INSTALLATION OF RAM-PUMP TO BE USED BY ORANG ASLI IN REMOTE AREA	DPUT MRAZAK

10	Q.K130000.2640.14J05	ACTIVE RM20,000	RESOURCE SUSTAINABILITY	Modelling of interface particle bonding on End of Life (EoL) vehicle parts substrate using HVOF thermal spray coating	Tier 2
11	Q.K130000.2540.16H95	ACTIVE RM40,000	RESOURCE SUSTAINABILITY	FUNDAMENTAL DEVELOPMENT OF LOW COST HIGHLY EFFICIENT SOLAR PHOTOVOLTAIC SYSTEM VIA MATHEMATICAL SIMULATION OF NEWLY DESIGNED SOLAR CONCENTRATOR	Tier 1
12	Q.K130000.2540.17H87	ACTIVE RM40,000	RESOURCE SUSTAINABILITY	RISK ASSESSMENT FRAMEWORKS OF HANDLING AND STORAGE OF CARGO AT MALAYSIA PORTS.	Tier 1
13	Q.K130000.2540.17H99	ACTIVE RM40,000	RESOURCE SUSTAINABILITY	EFFICIENT DERIVATION OF THE 100-YEAR EXTREME STRUCTURAL RESPONSES FOR FIXED OFFSHORE STRUCTURES	Tier 1
14	R.K130000.7863.4L206	ACTIVE RM92,850	INNOVATIVE ENGINEERING	Integrasi Pico Hidro Elektrik dan Aktiviti Ekonomi Masyarakat Orang Asli	CCIN
15	R.K130000.7840.4L201	ACTIVE RM64,000	INNOVATIVE ENGINEERING	Kelestarian Transformasi Pembangunan Sosio-Ekonomi Penduduk Kampung Sg. Tiang, Hutan Simpan Royal Belum	CCIN
16	Q.K130000.2640.12J12	ACTIVE RM20,000	INNOVATIVE ENGINEERING	ACOUSTICAL PERFORMANCE OF KENAF/POLYPROPELENE COMPOSITE AS A HIGH ACOUSTIC ABSORBER AT AIRCRAFT HANGAR	Tier 2
17	Q.K130000.2640.12J01	ACTIVE RM20,000	INNOVATIVE ENGINEERING	INVESTIGATION OF BEST PARAMETERS TO OBTAIN OPTIMAL PERFORMANCE OF FULLY FUNCTIONED CROSSFLOW MICRO-TURBINE TO BE USED BY ORANG ASLI IN REMOTE AREA	Tier 2
18	R.K130000.7840.4F850	ACTIVE RM114,740	INNOVATIVE ENGINEERING	Investigation of heat thermal performance of optimized integrated piezoelectric and magnetic fans for microelectronics cooling system	FRGS
19	R.K130000.7840.4F880	ACTIVE RM88,000	INNOVATIVE ENGINEERING	Mercerisation Treatment Enhancement of Kenaf Fiber/Polypropyelene Composites using Box- Behnken Design	FRGS
20	Q.K130000.2540.15H36	ACTIVE RM40,000	INNOVATIVE ENGINEERING	CLOSURE EFFECT OF WELDING RESIDUAL STRESS IN PENETRATION NOZZLES OF PRESSURE VESSEL	Tier 1
21	Q.K130000.2540.15H70	ACTIVE RM50,000	INNOVATIVE ENGINEERING	IMPROVEMENT OF CHANGEOVER TIMES THROUGH INTEGRATING OF SMED METHOD WITH QFD TECHNIQUES FOR SEMICONDUCTOR INDUSTRY	Tier 1
22	Q.K130000.2540.12H04	ACTIVE RM50,000	INNOVATIVE ENGINEERING	Prediction of Extreme Offshore Structural Response from Various Methods of Simulating Wave Kinematics	Tier 1

23	Q.K130000.2540.11H30	ACTIVE RM50,000	INNOVATIVE ENGINEERING	EXTREME RESPONSE PREDICTION FOR LINEAR FIXED OFFSHORE STRUCTURES BY EFFICIENT TIME SIMULATION APPROACH	Tier 1
24	S.K130000.7340.4X175	COMPLETED RM3,000	INNOVATIVE ENGINEERING	Development of STEM Fun Learning Toy Library for Sek. Keb. Kuala Geris Dabong Kelantan	NG
25	Q.K130000.2640.10J96	COMPLETED RM20,000	INNOVATIVE ENGINEERING	KINESTHETIC APPROACH TO VALIDATE WORK MOVEMENT TASK ANALYSIS OBSERVATIONAL TOOL	Tier 2 E
26	Q.K130000.2539.10H75	COMPLETED RM49,650	INNOVATIVE ENGINEERING	Solar Thermal Chilled Water Systems for Temperate Agriculture	Tier 1
27	R.K130000.7940.4F584	COMPLETED RM109,200	INNOVATIVE ENGINEERING	Efficient Derivation of the Probability Distribution of Extreme Responses Accounting for the Nonlinearities of Random Wave Filed and Wave Load Mechanism	FRGS
28	Q.K130000.2740.01K15	COMPLETED RM20,000	INNOVATIVE ENGINEERING	LOW VELOCITY IMPACT RESPONSE OF KENAF/EPOXY CORRUGATED SANDWICH STRUCTURES	PAS
29	Q.K130000.2540.09H39	COMPLETED RM20,000	INNOVATIVE ENGINEERING	EFFICIENT DERIVATION OF THE PROBABILITY DISTRIBUTION OF THE EXTREME VALUES OF OFFSHORE STRUCTURAL RESPONSE	Tier 1
30	Q.K130000.2740.00K44	COMPLETED RM20,000	INNOVATIVE ENGINEERING	The effectiveness of superimposed ultrasonic excitation on sheet metal forming.	PAS
31	R.K130000.7840.4L033	COMPLETED RM50,000	INNOVATIVE ENGINEERING	VIRTUAL STEERING FEEDBACK FORCE FOR VEHICLE STEER-BY-WIRE SYSTEM USING ARTIFICIAL INTELLIGENT APPROACH	ERGS
32	R.J130000.7743.4P050	COMPLETED RM20,000	INNOVATIVE ENGINEERING	Aerodynamic Parameters of urban building arrays with high aspect ratio	NAS
33	Q.K130000.2640.11J01	END RM32,000	INNOVATIVE ENGINEERING	INDENTATION RESPONSE OF KENAF/POLYPROPYLENE CORRUGATED SANDWICH STRUCTURES SUBJECTED TO QUASI-STATIC AND DYNAMIC LOADING	Tier 2 E

PATENT FILED/DISCLOSURE

- i) Shamsul Sarip, M. A. Suhot, M. Z. Hassan, H. M. Kaidi, M. Y. M. Daud. **Solar Mud-Mobile** (IP/PT/2018/0296) Submitted
- ii) Shamsul Sarip, M. A. Suhot, M. Z. Hassan, M. K. B. Husain, H. M. Kaidi, M. Y. M. Daud, **Lightweight Micro hydro Cross-flow Turbine** (IP/PT/2016/2273) Approved

- iii) Saiful Amri, Hairi Zamzuri and Shamsul Sarip, **A Magnetorheological Brake Disc** (P1 2015000119) Approved

UTILITY INNOVATION FILED

- i) Shamsul Sarip and N.A Bani. **IRITS Pico hydro turbine kit for STEM and remote area** (IP/UI/2017/1085) Recommended

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- i) Shamsul Sarip and Robiah Ahmad. **UTM SMART-ENERGY Module**. (IP/CR/2018/0272) Submitted
- ii) Shamsul Sarip, M. A. Suhot, M. Z. Hassan, H. M. Kaidi, M. Y. M. Daud. **Micro hydro turbine design** (LY2016003890) Approved
- iii) Shamsul Sarip and Zurina. **Safety Data Sheet and Labeling Users Guide** (IP/CR/2018/0050) Approved
- iv) Shamsul Sarip, M. A. Suhot, M. Z. Hassan, H. M. Kaidi, M. Y. M. Daud. **Pendidikan STEM Tenaga Boleh Diperbaharui** (IP/CR/2018/0176) Reviewed

POSTGRADUATE SUPERVISION

PhD Student

Year	No.	Name	Status	Title	Roles of supervisor
2018	1	Lim Yee Kai	Active	Blade Design and Performance Analysis on tidal current turbine	Main Supervisor
2018	2	Dzul Hafez Yacob	Active	SMART renewable Energy	Main Supervisor
2015	2	Mahmudin Saleh	Active Submit Thesis on Sept 2018	Sustainable processing of lignocellulosic fibres from oil palm biomass for pulp and paper manufacture	Main Supervisor
2015	3	Mohammed Hassan Salih Nor Eldien	Graduated	Performance indicators for Heating , ventilating air-conditioning systems	Main Supervisor
2012	4	Azah Binti Abdul Kadir	Graduated	Design of Project Integrated Quality and HSE Management System for Epcic Oil and Gas Marine Contractors	Main Supervisor
2015	5	Olabomi Rasaq Adekunle	Graduated	Solar-Powered Organic Rankine and Absorption Refrigeration	Co-Supervisor

				Cycle Chilled Water Production for Radiant Soil Cooling	
2013	6	Sumitra Muniandy	Active	A Strategy for Optimal Fiscal Regime to Unlock Potential Stranded Shallow Water Oil and Gas Fields in Malaysia	Co-Supervisor
2013	7	Lailatul Hamidah Binti Mohd Hamdan	Active	A Novel Of Magnetorheological Brake Using Combination Of Shear And Squeeze Mode In Different Gap	Co-Supervisor
2014	8	Aminuddin Bin Seth	Active	Augmented Reality Virtual Laboratory for Enhancement of Psychomotor Learning in Distance Education	Co-Supervisor
2015	9	Fadhilah Binti Abdul Razak	Active	Optimization of Integrated Radial Piezoelectric Fan with Magnetic Fan for Electronic Cooling System	Co-Supervisor
2014	10	Tan Hong Wai	Active	Lean Management System for Improving the Inventory Turnover at New Edge	Co-Supervisor

MSc. Student

<i>Year</i>	<i>No</i>	<i>Name</i>	<i>Status</i>	<i>Title</i>	<i>Roles of supervisor</i>
2017	1	Cassandra Gail R Al Gopera Full Research	Active	Hybrid Renewable Energy System: Ocean Current Turbine and Solar Power System Electrification on One Fathom Bank	Main Supervisor
2017	6	Law Jieh Full Research	Graduated	Design of Mold Runner System for Relay Components via Plastic Injection	Main Supervisor
2017	13	Mohd Akhir Bin Aman Shah Full Research	Graduated	Experiment of Lightweight Brake Disc Rotor for Road Vehicle	Main Supervisor
2017	2	Mohd Adib Mazlan	Active	Work Stress among Security Guards in Lumut Naval Provost	Main Supervisor
2017	3	Dzul Hafez Yacob	Active	Critical Design Factors on Performance of Car Jack Lifting Operations	Main Supervisor
2017	4	Hanis Syafiqah Izzati Mohd Hanapi	Active	Evaluate of Turbine Flowmeter and Ultrasonic flowmeter Application in Gas Sales	Main Supervisor

2017	5	Mohd Firdaus Mohd Noor	Active	Analysis of Turbine Runner for Vortex Hydro Plant System for Rural Electrification	Main Supervisor
2017	7	Jivan Rao A/L Suri Narayanan	Graduated	Standard Driven System for Productivity of Pendulum Roller Mill	Main Supervisor
2016	8	Zuriana Binti Zainal	Graduated	Level of workers awareness on the Globally Harmonize System of labelling and SDS at workplace	Main Supervisor
2017	9	Amizah Binti Mohd Taffy Gan	Graduated	Leadership Style and Employee Performance in the Malaysian Manufacturing Industry	Main Supervisor
2017	10	Farah Bazilah Binti Baidilleh	Graduated	Prevalence of Computer Visual Syndrome Among Employee in Malaysian Software Testing Board (Mstb)	Main Supervisor
2017	11	Zul Fazlizan Bin Saidin	Graduated	Manual Material Handling in Proton Testing	Main Supervisor
2017	12	Loh Chin Koon	Graduated	Semiconductor Industries Assembly Equipment Spare Part Cost Reduction through Effective Inventory Maintenance Management	Main Supervisor
2016	14	Hadey Madera Bin A. Khamid	Graduated	Job Satisfaction among Simulation Operators at Malaysian Armed Forces Wargaming Simulation Centre: An Occupational Health Survey	Main Supervisor
2016	18	Salleh Bin Misjin	Graduated	Kecederaan Tercucuk Jarum pada Perkhidmatan Sokongan dan Anggota Hospital, Hospital Likas, Kota Kinabalu	Main Supervisor
2016	21	Muhammad Hazim Bin Ali	Graduated	Operation Strategies for New Aircraft Arrival	Main Supervisor
2016	22	Nur Hollis Bin Sam	Graduated	The Potential of Sustainable Renewable Energy for Orang Asli Communities in Royal Belum State Park	Main Supervisor
2016	24	Mohd Faizul Bin Mohamad Ramlan	Graduated	Ergonomic Awareness towards Safe Manual Handling at Avon Cosmetics	Main Supervisor
2016	25	Imran Bin Mohd Salleh	Graduated	Engine Maintenance, Repair and Overhaul Business model Framework for Wing in Ground Effect Craft	Main Supervisor

2014	26	Jamaizonkefli Bin Lazim	Graduated	Energy Management Strategies at Emergency Department Block C Hospital Sungai Buloh, Malaysia	Main Supervisor
2013	27	Azmi Bin Mohd Nawawi	Graduated	Observation on Safety Awareness among Malaysia High-Speed Train Passengers	Main Supervisor
2013	28	Mohamad Khir Bin Abdul Latif	Graduated	Product Realization and Development Application of Advanced Product Quality Planning (APQP) in Malaysia Automotive Supplies	Main Supervisor
2013	29	Affandy Bin Md Ali	Graduated	Effectiveness of ISO/TS to Reduce Incoming Quality Process Defects of Components in Production Life Cycle Quality from Vendors	Main Supervisor

POSTGRADUATE EXAMINATION /VIVA

UTM STUDENTS/VIVA

- i) First Stage Examination (MSc) for the thesis entitled “Bemban Product Development Through Kansei Engineering” by Ain Syafiqah Binti Abu Bakar
- ii) Panel Assessor for First Stage Assessment of Master and PhD Program Semester 2 in MJIIT
- iii) Panel Assessor for Research Proposal Defence of PhD Program in UTM Razak School May 2017
- iv) Panel Assessor for Research Proposal Defence of PhD Program in UTM Razak School May 2016
- v) Panel Assessor for Research Proposal Defence of PhD Program in UTM Razak School May 2015
- vi) Panel Assessor for Proposal Defence Presentation Engineering Doctorate UTM Razak School 2014
- vii) Panel Assessor for Research Proposal Defence of PhD Program in UTM Razak School May 2013
- viii) Panel Assessor for Presentation of Project 1 & 2 Master Program of EMOSH in UTM Razak School (2013-2017)
- ix) Panel Assessor for Presentation of Project 1 & 2 Master Program of EBM in UTM Razak School (2013-2017)

MSc INTERNAL EXAMINER

- i) Nur Amanina Damira Bt Muhalim, Reduction of Membrane Fouling Using Helical Baffles for Crossflow Microfiltration, USM, 2017

PUBLICATIONS AND PAPER PRESENTED

THESIS

2011	PhD	Shamsul Sarip, Andrew J. Day, Peter Olley, Hong Sheng Qi (2011) Lightweight Friction Brakes for a Road Vehicle with Regenerative Braking. University of Bradford, United Kingdom
2003	Master	Prediction of air flow and comfort in large space. Universiti Teknologi Malaysia
1998	FYP	Rekabentuk dan fabrikasi mesin 'Shredder' dalam proses menghancurkan sisa pepejal. Universiti Teknologi Malaysia

ORIGINAL BOOK

- i) Shamsul Sarip. Pendidikan STEM Tenaga Boleh Diperbaharui. Penerbit UTM Razak School, (February 2018).
- ii) Shamsul Sarip. The Future of Braking: Lightweight Friction Brake for Green Vehicles, UTM Press, (December 2016).
- iii) Aminudin Abu, Sheikh Ahmad Zaki Sheikh Salim, Shamsul Sarip. (2008) Asas Lukisan Kejuruteraan dan Berbantu Komputer. Pearson Malaysia

BOOK CHAPTER

- i) M. Z. Hassan, Shamsul Sarip, S. A. Aziz, M. Y. M. Daud, M. A. Suhot, R. Mohamad, Materials And Testing Mechanical Engineering, UTM Press, 2016
- ii) Shamsul Sarip, Engineering Business and Management: Exploring Issues and Challenges. 2016
- iii) Shamsul Sarip, Aircraft Management from Engineering Safety Perspective. 2016
- iv) Shamsul Sarip, Occupational Safety and Health Practices: The Way Forward. 2016

EXPERT REPORT

- i) Shamsul Sarip and Mohamad Zaki Hassan, Tank #09 Jacking for PETRON Malaysia, Final Report submitted to PETRON Malaysia, August 2016.
- ii) ShamsulSarip, Renewable Energy in Royal Belum, Report submitted to Jabatan Kemajuan Orang Asli, 2017
- iii) Shamsul Sarip, M. Z. Hassan, H. N. Haron, R. Mumamad, FUN LEARNING TOY LIBRARY, Report submitted to Sek. Keb. Kuala Geris Dabong Kelantan, 2016.

CONSULTATIONS

1. Shamsul Sarip and Mohamad Zaki Hassan, Tank #09 Jacking Structure Analysis for PETRON Malaysia, FinalPETRON Malaysia, August 2016 **(RM20,000)**
2. Shamsul Sarip. 2018. Low Cost Technology for Rural Area. Institut Kemajuan Desa. **(RM5,000)**
3. Shamsul Sarip and Adopt a Kampung. 2018. Fun Learning Toy Library Development in Bachuk Kelantan. **(RM20,000)**
4. Shamsul Sarip and Asan Ali Golam Asan. 2018. Projek Inisiatif Kerjasama Universiti Program Transformasi Luar Bandar Strategi Lautan Biru Kenagsaan. **(RM35,000)**

PUBLICATION

Journals

- i) Bani, Nurul Aini; Hassan, Mohamad Zaki; Kaidi, Hazilah Mad; Sarip, Shamsul; et al. 2018, "Feasibility Study of a Low Cost Saltwater Lamp for Rural Area" International Journal Of Integrated Engineering Volume: 10 Issue: 7 Special Issue: SI Pages: 167-176 Published: 2018
- ii) Hamdan, L. H., Mazlan, S. A., Imaduddin, F., Sarip, S., Yusop, A. 2018, "Simulation Studies of a New Magnetorheological Brake with Difference Gap Size Using Combination of Shear and Squeeze Mode", Engineering Applications for New Materials and Technologies, 85, 413-424.
- iii) Abadi, S., Huda, M., Teh, K.S.M., Haroon, Z., Ripin, M.N., Hehsan, A., Sarip, S., Hehsan, M.R., Amrullah, M. & Maselena, A. 2018, "Hazard level of vehicle smoke by fuzzy multiple attribute decision making with simple additive weighting method", International Journal of Pharmaceutical Research, vol. 10, no. 4, pp. 58-67.
- iv) Habibah @ Norehan Haron*, Noor Hamizah Hussain, Roslina Mohammad, Norulhusna Ahmad, Hayati @ Habibah Abdul Talib, Mohammad Zaki Hassan, Rasheed Mohamed Kutty, Shamsul Sarip Grooming Future Scientists and Engineers from the Root through Fun Learning Concept. Journal of Physics: Conference Series: Journal of Physics: Conf. Series 180 (2017) 012003 doi :10.1088/1742-6596/1174/1/01200
- v) Abdul Razak, F., Ahmad, R. & Sarip, S. 2018, "Investigation of Radial Piezoelectric-Magnetic Fan for Electronic Cooling System", 2018 2nd International Conference on Smart Sensors and Application, ICSSA 2018, pp. 116.
- vi) Bani, N.A., Hassan, M.Z., Kaidi, H.M., Muhtazaruddin, M.N., Sarip, S., Izhar, M.A.M., Aris, S.A.M., Jalil, S.Z.A., Saleh, S. & Rashidi, A.H.M. 2018, "Harvesting Sustainable

- Energy from Salt Water: Part i - Effect of Types of Electrodes", 2018 2nd International Conference on Smart Sensors and Application, ICSSA 2018, pp. 84.
- vii) Sarip, S., Abdullah, C.G., Shafie, N., Mahadzir, N.A.N., Yakob, F. & Hassan, M.Z. 2018, "Hybrid renewable energy power system model based on electrification requirements of one Fathom bank Malaysia", Indonesian Journal of Electrical Engineering and Computer Science, vol. 12, no. 2, pp. 513-520.
 - viii) Yacob, D.H., Sarip, S., Suhot, M.A., Hassan, M.Z., Aziz, S.A., Daud, M.Y., Bani, N.A. & Muhtazaruddin, M.N. 2018, "Critical design factors on performance of car jack lifting operations", Indonesian Journal of Electrical Engineering and Computer Science, vol. 12, no. 2, pp. 521-526.
 - ix) Abadi, S., Huda, M., Teh, K.S.M., Haroon, Z., Ripin, M.N., Hehsan, A., Sarip, S., Hehsan, M.R., Amrullah, M. & Maseleno, A. 2018, "Hazard level of vehicle smoke by fuzzy multiple attribute decision making with simple additive weighting method", International Journal of Pharmaceutical Research, vol. 10, no. 4, pp. 58-67.
 - x) Razak, F.A., Ahmad, R., Sarip, S. High potential of magnet on the performance of dual piezoelectric fans in electronics cooling system (2018) Indonesian Journal of Electrical Engineering and Computer Science, 10 (2), pp. 469-479.
 - xi) Hamdan, L. H., Mazlan, S. A., Imaduddin, F., Sarip, S., & Yusop, A. (2018). Simulation studies of a new magnetorheological brake with difference gap size using combination of shear and squeeze mode doi:10.1007/978-3-319-72697-7_33
 - xii) Yakub, F., Sarip, S., Wijaya, A. A., & Mori, Y. (2017). Enhancing of nominal characteristic trajectory following control for motion systems. Journal of Systems Engineering and Electronics, 28(6), 1221-1235. doi:10.21629/JSEE.2017.06.20
 - xiii) Yakub, F., Muhamad, P., Toh, H. T., Fawazi, N., Sarip, S., Ali, M. S. M., & Zaki, S. A. (2017). Enhancing vehicle ride comfort through intelligent based control. Paper presented at the Proceedings - 2016 IEEE International Conference on Automatic Control and Intelligent Systems, I2CACIS 2016, 66-71. doi:10.1109/I2CACIS.2016.7885291
 - xiv) Rasaq Adekunle Olabomi, A. Bakar Jaafar, Md Nor Musa, Shamsul Sarip, Azrin Ariffin: *Techno-economic analysis of innovative production and application of solar thermal chilled water for agricultural soil cooling*. Renewable and Sustainable Energy Reviews 06/2017; 73:215-224., DOI:10.1016/j.rser.2017.01.104
 - xv) M.S. Abu Bakar, M.Z. Hassan, S. Bakhori, M.Y.M. Daud, S. Sarip, Z. Ismail: *Improvement of universal parts for pick and place machine in semiconductor industry using QFD approach*.
 - xvi) Y. Daud, M.Z. Hassan, S. Sarip, S.A. Aziz, N.A.D. Muhalim, N.A. Raman, K.R. Jamaludin: *Mechanical properties of quasi-static and ultrasonic compaction of stainless steel powder metallurgy*.
 - xvii) Mohamed Hassan, Astuty Amrin, Shamsul Sarip, Ghalib Y Khawaja, Abdul Grader: *Simulation of Operational Faults of Heating, Ventilation and Air Conditioning Systems Compromising Energy Consumption for Abu Dhabi Future Schools (ADFS)*.
 - xviii) Fitri Yakub, Aminudin Abu, Shamsul Sarip, Yasuchika Mori: *Study of Model Predictive Control for Path-Following Autonomous Ground Vehicle Control under Crosswind*

- Effect*. Journal of Control Science and Engineering 01/2016; 2016(5):1-18., DOI:10.1155/2016/6752671
- xix) S Bakhori, M Z Hassan, Y Daud, S Sarip, N Rahman, Z Ismail, S A Aziz: *Mechanical behavior of Kenaf/Epoxy corrugated sandwich structures*. 12/2015; 100(1):012011., DOI:10.1088/1757-899X/100/1/012011
- xx) Mohd Alshafiq Tambi Chik, Nor 'azizi Othman, Shamsul Sarip, Yasuyuki Ikegami, Amyra MY, Norazli Othman, Ridzuan Yacob, Hirofumi Hara, Zuriati Zakaria, Harmi Izzuan: *Design optimization of power generation and desalination application in Malaysia utilizing ocean thermal energy*. 10/2015; 77(1)., DOI:10.11113/jt.v77.4144
- xxi) Amyra MY, Nor'azizi Othman, Shamsul Sarip, Yasuyuki Ikegami, Mohd Alshafiq Tambi Chik, Norazli Othman, Ridzuan Yacob, Hirofumi Hara, Zuriati Zakaria: *Simulation study on enhancing hydrogen production in an ocean thermal energy (OTEC) system utilizing a solar collector*. 10/2015; 77(1)., DOI:10.11113/jt.v77.4145
- xxii) Shamsul Sarip, J. Day Andrew: *An Experimental Study on Prototype Lightweight Brake Disc for Regenerative Braking*. 04/2015; 74(1)., DOI:10.11113/jt.v74.2722
- xxiii) Jamaizonkefli Lazim, Shamsul Sarip, A.R.A. Rahman, M.Z. Hassan, S.A. Aziz: *Energy Management Strategies at Emergency Department Block C Hospital Sungai Buloh, Malaysia*. 02/2015; 735:243-246., DOI:10.4028/www.scientific.net/AMM.735.243
- xxiv) S.A.H. Roslan, M.Z. Hassan, Z.A. Rasid, S.A. Zaki, Y. Daud, S. Aziz, S. Sarip, Z. Ismail: *Mechanical properties of bamboo reinforced epoxy sandwich structure composites*. DOI:10.15282/ijame.12.2015.7.0242
- xxv) Lailatul Hamidah Hamdan, Saiful Amri Mazlan, Shamsul Sarip, Hairi Zamzuri, Mohd Azizi Abdul Rahman: *Selection of Materials in Designing Magnetorheological Brake*. Applied Mechanics and Materials 10/2014; 663(2014):700-704., DOI:10.4028/www.scientific.net/AMM.663.700
- xxvi) Shamsul Sarip, Mat Nawati Wan Hassan: *Meramal Aliran Udara dan Keselesaan di dalam Masjid Sultan Salahuddin Abdul Aziz Shah Menggunakan Simulasi Komputer*. Jurnal Teknologi 06/2014; 69(1)., DOI:10.11113/jt.v69.1612
- xxvii) L.H. Hamdan, Saiful Amri Mazlan, S. Sarip, H. Zamzuri: *A New Concept of Multimode Magnetorheological Brake Design*. Key Engineering Materials 04/2014; 605:271-274., DOI:10.4028/www.scientific.net/KEM.605.271
- xxviii) Shamsul Sarip, A.J. Day, P. Olley, H.S. Qi: *Analysis of the Transient Thermomechanical Behaviour of a Lightweight Brake Disc for a Regenerative Braking System*. Lecture Notes in Electrical Engineering 02/2013; 196 LNEE(8):1075-1088., DOI:10.1007/978-3-642-33738-3_12
- xxix) S. Sarip: *Design Development of Lightweight Disc Brake for Regenerative Braking – Finite Element Analysis*. 01/2013;, DOI:10.7763/IJAPM.2013.V3.173

PLENARY LECTURE/KEYNOTE ADDRESS

- i) Shamsul Sarip, Lecture on Micro Hydro turbine Development in Royal Belum. MJIT 2017

- ii) Shamsul Sarip, "How To Get Yourself Employed, 2CV/Resume Review/ Feedback" Lecture given at Seminar Room Ilmuan, 6 May 2017
- iii) Shamsul Sarip, "Micro Hydro Turbine Pre Launching Talk" UTMRS Research Week and Innovation 2017 on March 14-29, 2017

INVITED/GUEST SPEAKER

- i) Shamsul Sarip, International Training 'Rural Technologies' Micro Hydro Turbine Development in Rural Area, INFRA-CIRDAP-NIRDPR, Kuala Lumpur, 12 – 21 Februari 2017

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- i) Ayesha Cassandra Gail Abdullah, Shamsul Sarip, Noraimie Shafie and Nuramani Natahsa. *Simulating hybrid renewable energy system: ocean current turbine & solar power system electrification on One Fathom Bank*. International Conference on Renewable Energy 2018. Barcelona Spain. <https://icren2018.exordo.com>
- ii) R Rozani, N I Mohd Zaki, S Sarip, M K Abu Husain: *Cost Inflated Enigma in Upstream Petroleum Industry Projects in Malaysia*. International Conference on Ocean, Mechanical and Aerospace for Scientists and Engineers 2016, Terengganu, Malaysia; 11/2016
- iii) Khairul Hisyam Kamarudin, Rozaimi Che Hasan, Khamarrul Azahari Razak, Shamsul Sarip: *Non-Farming Activities among Orang Asli Households in Royal Belum State Park, Perak*. RRPg 7th International Conference and Field Study in Malaysia 2016, UTM Johor Bahru; 08/2016
- iv) Shamsul Sarip, Khairul Hisyam Kamarudin, Khamarrul Azahari Razak, Rozaimi Che Hasan, Mohamad Zaki Hassan, Mohamed Azlan Suhot, Fitri Yakub, Mohd Yusof, Md Daud: *The Potential of Micro-Hydropower Plant for Orang Asli Community in Royal Belum State Park, Perak, Malaysia*. SYMPOSIUM ON THE 4TH ROYAL BELUM SCIENTIFIC EXPEDITION; 05/2016
- v) Rozaimi Che Hasan, Khamarrul Azahari Razak, Khairul Hisyam Kamaruddin, Shamsul Sarip: *Underwater Video Observations At Royal Belum State Park, Perak, Malaysia*. SYMPOSIUM ON THE 4TH ROYAL BELUM SCIENTIFIC EXPEDITION; 05/2016
- vi) Shamsul Sarip, Mohamad Zaki Hassan, Norazmein Abdul Raman, Abdul Sa 'ardin, Aziz, Mohd Yusof, Md Daud, Mohd Azman, Zainul Abidin: *RENEWABLE ENERGY HARNESS TO UPLIFT THE PROSPERITY OF ROYAL BELUM FOREST*. National Conference on Royal Belum 2014, Banding Lakeside Inn Gerik, Perak, Malaysia; 12/2014
- vii) S. Sarip, A.J. Day, P. Olley, H.S. Qi: *Evaluation of a Lightweight Friction Brake Disc Design for a Regenerative Braking System*. 6th European Conference on Braking JEF 2010, Lille, France; 11/2010
- viii) S. Sarip, A. J. Day, P. Olley, H. S. Qi: *Analysis of temperature and pressure distribution in brake disc for regenerative braking*. Flexible Automation & Intelligent Manufacturing – 19th International Conference (FAIM 2009), Middlesbrough, UK; 07/2009

- ix) J Lazim, S Sarip, ARA Rahman, MZ Hassan, SA Aziz. 2015. Energy Management Strategies at Emergency Department Block C Hospital Sungai Buloh, Malaysia. *Applied Mechanics and Materials* 735, 243-246. 2015
- x) Astuty Amrin, Ayad Omran Abdalla, Roslina Mohammad and Shamsul Sarip (2013) Review of the Effect of Alloying Elements and Heat Treatment on the Mechanical Properties of Ti-6Al-4V as Structural Materials. 3rd International Conference on the Advancement of Materials and Nanotechnology 2013.
- xi) Azah Abdul Kadir, Shamsul Sarip, Steve Conroy, Nik Hasnaa Nik Mahmood and Mohd Yusoff Mad Daud. (2013) Integrated Management System: An Insight and Experience of the Oil and Gas Companies. International Conference on Human Capital and Knowledge Management. 2013
- xii) Lailatul Hamidah Hamdan, Saiful Amri Mazlan, Shamsul Sarip, Hairi Zamzuri, Mohd Azizi Abdul Rahman. (2013) Selection of Materials in Designing Magnetorheological Brake. 2nd International Conference on Recent Advances in Automotive Engineering & Mobility Research (ReCAR 2013)
- xiii) Lailatul Hamidah Hamdan, Saiful Amri Mazlan, Shamsul Sarip, Hairi Zamzuri (2013). Hybrid Magnetorheological Brake Disc. Product Competition Abstract (iiNOVA13_PC-177)
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- xvi) Lailatul Hamidah Hamdan, Saiful Amri Mazlan, Shamsul Sarip, Hairi Zamzuri (2013) A New Concept of Multimode Magnetorheological Brake Design. 3rd International Conference on Materials and Applications for Sensors and Transducers, IC-MAST
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- xix) A. M. Ali, S. Sarip and A. Suhot. (2013) Effectiveness of ISO/TS 16949 to Reduce Incoming Quality Process Defects of Components in Product Life Cycle Quality from Vendors. *Proceedings of 2nd International Conference on Engineering Business Management*, 163-170
- xx) Mohd Faiz bin Abdul Razak, Astuty Amrin and Shamsul Sarip. (2013) Maritime Enforcement Agencies Maintenance Management of Ship through Reliability Centred

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- xxi) M. N. Samiran, R. Mohammad, S. Muhamad and S. Sarip. (2013) Develop Improvement Maintenance Management of Agusta A109 Helicopter at Army Aviation Unit to Minimize Outsourcing. Proceedings of 2nd International Conference on Engineering Business Management, 222-228
 - xxii) A. Z. Ishak, S. Muhamad, S. Sarip, R. Mohammad and A. A. Aziz. (2013) Logistic and Maintenance Management to Increase Readiness Army Combat Armoured Vehicle. Proceedings of 2nd International Conference on Engineering Business Management, 229-235
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