

**A MEMORANDUM OF UNDERSTANDING
FOR ACADEMIC COOPERATION
BETWEEN
UNIVERSITY OF MALAYA
AND
VEL TECH RANGARAJAN Dr.SUGUNTHALA R&D
INSTITUTE OF SCIENCE AND TECHNOLOGY**

Whereas the **UNIVERSITY OF MALAYA**, a university established under the laws of Malaysia and having an address at Lembah Pantai, 50603 Kuala Lumpur, Malaysia (hereinafter referred to as "**UM**")

and

The **VEL TECH RANGARAJAN DR.SUGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY**, a deemed university established u/s 3 OF UGC Act,1956 and having an address at No.42,Avadi-Vel Tech Road, Avadi, Chennai-600062, Tamil Nadu, India (hereinafter referred to as "**VelTech**") seeking to improve understanding between their respective academic institution and to establish mutually beneficial collaborations benefiting their students, have agreed to sign this Memorandum of Understanding (hereinafter referred to as the "**MoU**") as a first step toward achieving these shared goals.

NOW THEREFORE PURSUANT THERETO, the Parties hereby agree as follows:

1. SCOPE AND FIELDS OF ACADEMIC COOPERATIONS

- (1) The Parties hereby agree to implement within the framework of the rules and regulations applicable in each of the institutions and subject to availability of funds and resources, the following programmes and activities, which may include, but not limited to:
 - (a) student and/or academic and administrative staff exchanges;
 - (b) joint research activities;
 - (c) exchange of publications, reports and other academic materials and information; and
 - (d) sharing of other activities and programmes in areas of mutual interest, where such sharing shall result in benefit to both Parties.
- (2) It is agreed that the terms and conditions of any agreed programme and activity contemplated in this MoU shall be the subject matter of separate written

agreements to be negotiated and agreed upon by both Parties and/or any third parties, wherever applicable. PROVIDED ALWAYS the decision whether to initiate and/or implement any programme or activity shall be at the sole discretion of each Party.

- (3) The Parties agree to designate, on behalf of each institution, a coordinator whose responsibility will be to supervise the execution of this MoU and to draw up a programmes or activities to be implemented under this MoU, setting out specific provisions concerning the exchange programmes, budget requirements and details of funding. For this purpose, the coordinator for UM is the Faculty of Computer Science and Information Technology and for VelTech is Mr. S.Ramkumar.

2. FINANCIAL ARRANGEMENTS

- (1) The Parties acknowledge that in the absence of any specific agreement in writing to the contrary, each Party will be responsible for its own costs and expenses in establishing and conducting programmes and activities contemplated under this MoU, including without limitation its own costs and expenses in travel and accommodation.

3. JOINT PROPERTY

- (1) The Parties agree that any intellectual property rights arising from or in connection with any programme or activity under this MoU, through and by the joint and collaborative efforts of both Parties shall be jointly owned and subject to any other terms and conditions as may be agreed upon in writing.
- (2) Both Parties shall acknowledge one another in any form of writing, publication or presentation based on research derived from the cooperative efforts of both Parties under this MoU, unless otherwise mutually agreed upon in writing by the Parties.

4. CONFIDENTIALITY

- (1) The Parties agree and undertake to keep confidential at all times any information or data that may be exchanged, acquired or shared in connection with any programme or activity conducted pursuant to this MoU save where the same is already in public domain.

5. DURATION AND TERMINATION

- (1) This MoU shall take effect on and from the date of execution of this MoU and shall continue to be effective for a period of five (5) years and may be extended for such further period as may be agreed by the Parties in writing.
- (2) Notwithstanding clause 5 (1) above, this MoU may be terminated by either Party giving written notice to the other at least six (6) months prior to the proposed date of termination.

- (3) Notwithstanding clause 5 (2) above, the provisions of this MoU or any other written agreement in respect of any on-going exchange programme or any other form of cooperative activity under this MoU shall continue to apply until their completion unless both Parties mutually agree in writing to the earlier termination of the programme or cooperative activity.

6. NOTICE

- (1) Every notice, request or any other communication required or permitted to be given pursuant to this MoU shall be in writing, in English and delivered personally or sent by registered or certified post via air mail or by courier or facsimile (which shall be acknowledged by the other Party) to the Parties at the address and facsimile number as stated below:

(a) If to UM: Faculty of Computer Science & Information Technology
University of Malaya
Lembah Pantai
50603 Kuala Lumpur, MALAYSIA
Attention: Dean
Fax no.: +603-7957 9249
Email: dekan_fsktm@um.edu.my

(b) If to VelTech : Vel Tech Rangarajan Dr.Sagunthala
R&D Institute of Science and Technology
No.42, Avadi-Vel Tech Road,
Chennai, Tamil Nadu, India
Attention: Vice-President
Fax no.: +91-44-2680262/044-26840605
Email: veltech@vsnl.com

7. MISCELLANEOUS

- (1) This MoU may be modified, varied or amended at any time after due consultation and with the written agreement of both Parties.
- (2) The Parties acknowledge that all visits or exchange of staff, students or administrators will be subject to compliance with the entry and visa regulations of Malaysia and India and with the respective Party's requirements with respect to staff and student visits.
- (3) This MoU is not intended to be legally binding. It merely expresses the intentions and understanding of the Parties which will form the basis of any legally binding agreement to be drafted and executed in the future.
- (4) The Parties hereby agree that they are not bound exclusively by this MoU and shall be at liberty to enter into any separate agreements or arrangements with any third party without reference to the other Party.

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IN WITNESS THEREOF, the Parties have caused this MoU to be executed by their duly authorized representatives.

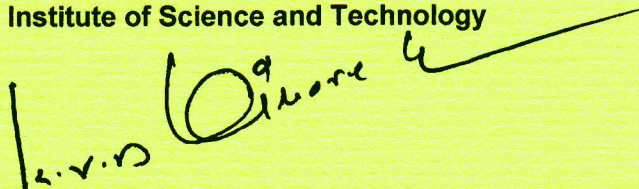
For and on behalf of
UNIVERSITY OF MALAYA



.....
ASSOC. PROF. DR. ABDULLAH GANI
Dean,
Faculty of Computer Science &
Information Technology

Date: 18 August 2014

For and on behalf of
**Vel Tech Rangarajan Dr.Sugunthala R&D
Institute of Science and Technology**



.....
MR. K.V.D KISHORE KUMAR
Vice-President

Date: 18 August 2014

In the presence of



.....
ASSOC. PROF. DR. ROSLI SALLEH
Deputy Dean (Research),
Faculty of Computer Science &
Information Technology

In the presence of



.....
MR. S.RAMKUMAR
Deputy Proctor

MEMORANDUM OF UNDERSTANDING

BETWEEN

UNIVERSITI MALAYA

AND

**VEL TECH RANGARAJAN DR.SAGUNTHALA
R&D INSTITUTE OF SCIENCE AND TECHNOLOGY**

MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (hereinafter referred to as MoU) is made on this 11 day of JANUARY 2020

BETWEEN

UNIVERSITI MALAYA (hereinafter referred to as “UM”), an institution of higher learning established under the Universities and University Colleges Act 1971 whose address is at Lembah Pantai, 50603, Kuala Lumpur, Malaysia and shall include its lawful representatives and permitted assigns;

AND

The **VEL TECH RANGARAJAN DR.SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY** (hereinafter referred to as “Vel Tech”), an institution of higher learning whose address is at 400 feet Outer Ring Road, Avadi, Chennai – 600 062, India and shall include its lawful representatives and permitted assigns;

Reference to “the Party” shall refer to “Vel Tech” or “UM” and collectively as “the Parties”.

THE PARTIES HEREBY AGREE TO AS FOLLOWS:

1. OBJECTIVE

- 1.1 The Parties, subject to the terms of this MoU and the laws, rules, regulations and national policies from time to time in force, will endeavour to strengthen, promote and develop collaboration between the Parties on the basis of equality and mutual benefit.
- 1.2 The Parties hereto now desire to outline the general points of arrangements between themselves in relation to the collaboration and subject to separate written agreement(s) to set forth the details of the collaborations.

WHEREAS

- A. UM is an established University which strives to enhance and strengthen its research and has taken various initiatives to complement its educational excellence and has entered into various collaborative arrangements with other parties.
- B. Vel Tech is a multi-disciplinary teaching and research institute located in the southern part of India near the Chennai city. Vel Tech was born as an Engineering college in 1997, affiliated to Madras University and later to Anna University, Chennai. Vel Tech has laid importance on outcome oriented teaching-learning practices that resulted in NBA Tier – 1 (Washington Accord Signatory) accreditation for six of its undergraduate engineering programmes and NAAC “A” for the entire institution. In Times Higher education (THE) Asia Rankings 2017; Vel Tech was ranked first among the Indian private institutions, third among the Indian institutions and 43rd among the Top Asian Institutions and also Ranked 74th in THE Young University ranking 2017.

- C. The Parties are desirous of entering into this MoU to declare their respective intentions and to establish a basis of co-operation and collaboration between the Parties upon the terms as contained herein.

NOW THE PARTIES HEREBY AGREE TO AS FOLLOWS:

1. AREAS OF CO-OPERATION

- 1.1 The Parties agree to collaborate efforts in the areas of:
- a) Development of collaborative research
 - b) Organization of seminars, workshops, and other meetings on specific topics
 - c) Exchange of students
 - d) Exchange of research scholars
 - e) Exchange of faculty members
 - f) Any other areas of co-operation as agreed to by the Parties from time to time.
- 1.2 The Parties to this MoU agree to continue discussions and communication on the areas as identified in sub-clause 1.1 in respect of their implementation and in identifying each Party's function.
- 1.3 In the event the Parties so desire, they may enter into a separate legally binding agreement in respect of any area in sub-clause 1.1 subject to terms and conditions as mutually agreed to by both Parties.

2. DURATION AND TERMINATION

- 2.1 This MoU shall remain in effect for five (5) years from the last signing date by the Parties or until terminated by either party with thirty (30) days written notice.
- 2.2 This MoU may be extended for a further period as may be agreed in writing by the Parties.

3. FINANCIAL ARRANGEMENTS

- 3.1 This MoU shall not give rise to any financial obligation by one Party to the other.
- 3.2 Each party shall bear its own cost and expenses in the implementation of this MoU.

4. CONFIDENTIALITY

- 4.1 Each Party shall undertake to observe the secrecy of confidential information received from or supplied to the other Party during the period of implementation of this MoU or other agreements made pursuant to this MoU.

- 4.2 For purposes of this MoU, "confidential information" means any information whether prior to or hereinafter disclosed by a Party (the Disclosing Party) to the other Party (the Receiving Party) of this MoU involving technical, business, marketing, policy, know-how, planning, project management and other information, data and/or solutions in any form, including but not limited to any information which is designated in writing to be confidential or by its nature intended to be for the knowledge of the Receiving Party or if orally given, is given in the circumstances of confidence.
- 4.3 Both Parties agree that the provisions of this Clause shall continue to be binding between the Parties notwithstanding the termination of this MoU.

5. SETTLEMENT OF DISPUTES

- 5.1 Any difference or dispute between the Parties concerning the interpretation and/or implementation and/or application of any of the provisions of this MoU shall first be settled amicably through mutual consultation and/or negotiations between the Parties.
- 5.2 In the event of non-resolution, reference shall be made to a mediator jointly appointed by the Parties who shall mediate the dispute or difference in question.

6. NON CONTRACTUAL NATURE OF RELATIONSHIP

- 6.1 Save for Clause 4, the Parties agree that this MoU represents the mutual understanding of the Parties and is not intended nor shall be deemed to be a contract and shall not give rise to any rights and liabilities under a contract.
- 6.2 Nothing contained herein shall be construed so as to constitute a joint venture partnership or formal business organisation of any kind between the Parties or so to constitute either Party as the agent of the other.
- 6.3 The Parties acknowledge that this MoU does not in any way give rise to any right or permission to use or to be associated with each Party's intellectual property.

7. REVISION, VARIATION AND AMENDMENT

- 7.1 Either Party may request in writing a revision, variation or amendment of this MoU.
- 7.2 Any such revision, variation or amendment agreed to by the Parties shall be in writing and shall form part of this MoU.
- 7.3 Such revision, variation or amendment shall come into force on such date as may be determined by the Parties.

- 7.4 Any revision, variation or amendment shall not prejudice the implementation of any project, activity or co-operation arising from or based on this MoU before or up to the date of such revision, variation or amendment.

8. SUPERVENING EVENTS

- 8.1 Each Party reserves the right for reasons of national security, national interests, public order or public health to suspend temporarily, either in whole or in part, the implementation of this MoU which suspension shall take effect immediately after notification has been given to the other Party.
- 8.2 Notwithstanding sub-clause 8.1, should any other event occur which hinders or restricts the implementation of this MoU, the Parties shall use their best endeavour to agree upon such action, as may be necessary and equitable, to remove the cause of such event.

9. NOTICES

Every notice, request or any other communication required or permitted to be given pursuant to this MoU shall be in writing and delivered personally or sent by registered or certified post or via air mail or via courier or facsimile or by e-mail (which shall be acknowledged by the other Party) to the Parties at their address and facsimile number as stated below:

To : Faculty of Engineering
Address : Universiti Malaya, Lembah Pantai, 50603, Kuala Lumpur, Malaysia
Attn. to : Prof. Dr. Saad Mekhilef, Dean
Tel no. : +603-7967 6851
E-mail : saad@um.edu.my

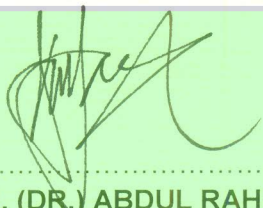
To : Directorate of International Relations
Address : Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science & Technology, 400 Feet Outer Ring Road, Avadi, Chennai – 600062
Attn to : Dr. S. Sivaperumal, Director for International Relations
Tel no. : +91 96000 40255
Fax no. : +044 2684 0262
E-mail : dint@veltech.edu.in

****(end of MoU)****

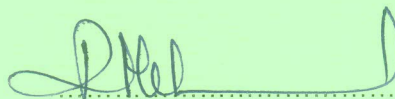
IN WITNESS THEREOF, the Parties have caused this MoU to be executed by their duly authorized representatives.

For and on behalf of
UNIVERSITY OF MALAYA

For and on behalf of
VEL TECH RANGARAJAN
DR. SAGUNTHALA R&D INSTITUTE OF
SCIENCE AND TECHNOLOGY



.....
DATUK IR. (DR.) ABDUL RAHIM HASHIM
Vice-Chancellor



.....
PROF. DR. R. RANGARAJAN
Founder - President

Date: 2 DEC 2019

Date: 11 JAN 2020

In the presence of

In the presence of



.....
PROF. DR. SAAD MEKHILEF
Dean, Faculty of Engineering



.....
DR. S. SIVAPERUMAL
Director for International Relations



Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

School of Electrical & Communication

Department of Electrical and Electronics Engineering

Specialized one credit course on

“Power Electronics Applications”

(1157EE907)

by

Prof. Dr. Saad Mekhilef

University of Malaya, Malaysia



UNIVERSITI
MALAYA
K U A L A L U M P U R

Held

on

Date: January 9 to 11, 2019

CV SUMMARY

Mekhilef Saad



BIOGRAPHY

Prof. Dr. Saad Mekhilef is an IET Fellow and IEEE senior member. He is the associate editor of IEEE Transaction on Power Electronics and Journal of Power Electronics. He is a Professor at the Department of Electrical Engineering, University of Malaya since June 1999. He has been the **Head of Department** of Electrical Engineering, the **Deputy Dean** of Postgraduate studies and the **Acting Dean** for the faculty of Engineering. He is currently the **Director of Power Electronics** and Renewable Energy Research Laboratory-PEARL- He is the author and coauthor of more than 300 publications in international journals and proceedings (184 ISI journal papers) and **5 books** with more than **13000 citations** and **57 H-index**, **114 Ph.D. and master students have graduated under his supervision**. **He has 6 patents**. He frequently invited to give keynote lectures at international conferences. **Prof. Saad listed by Thomson Reuters (Clarivate Analytics) as one of the Highly Cited (Hi Ci) engineering researcher in the world, and included in the Thomson Reuters' The World's Most Influential Scientific Minds: 2018**. He is actively involved in industrial consultancy for major corporations in the power electronics projects. His research interests include power conversion techniques, control of power converters, renewable energy, and energy efficiency.

Address: Department of Electrical Engineering
University of Malaya
Kuala Lumpur, Malaysia

Phone: +6 (03) 79676851

Fax: +6 (03) 79675316

Mobile : +6 0129138237

E-mail: saad@um.edu.my Or mekhilef@yahoo.com

PROFESSIONAL EXPERIENCE

09/2010-Now	Professor , EE Dept., University of Malaya, Malaysia
10/2018 –Now	Distinguished Adjunct Professor , King Abdulaziz University, Saudi Arabia
05/2016-04/2018	Adjunct Professor , VIT, Vellore Institute of Technology, India
11/2015-01/2016	Visiting Professor , NCKU, National Cheng Kung University, Taiwan
03/2007-08/2010	Associate Professor , EE Dept., University of Malaya, Malaysia
05/2008-8/2008	Visiting Professor , ECE Dept., Concordia University, Montreal, Canada.
07/2005-02/2007	Senior Lecturer , EE Dept., University of Malaya, Malaysia
06/1999-06/2005	Lecturer , EE Dept., University of Malaya, Malaysia
05/1997-05/1999	Research Assistant , EE Dept., University of Malaya, Malaysia
05/1996-05/1999	Tutor/ Demonstrator , EE Dept., University of Malaya, Malaysia

LANGUAGES

English:	spoken and written (Excellent)
French:	spoken and written (Excellent)
Bahasa Malaysia:	spoken and written (Good)
Arabic:	(Mother tongue)

FIELD OF SPECIALISATION

Power Electronics, Renewable Energy Systems and Energy efficiency

1. TEACHING

Teaching Experience	No. of courses taught in Degree level	No. of courses taught in Master level	No. of new courses introduced	No. of Elective courses
19 years	12	4	4	2

2. RESEARCH

a. Publications

Books	ISI Journals	SCOPUS Journals	Other International Journals	International Conferences	Workshops	Tech. Reports	Invited Speaker
5	184	12	10	157	2	8	13

b. Citations

The summary of my citations as of May. 7th 2018

	Citation	H-Index
Web of Science (RID: B-9652-2010)	6,775	42
Scopus (ID: 6603317449) http://orcid.org/0000-0001-8544-8995	8,839	47
Google Scholar	13,240	57

c. Patents

- | | |
|--|----------------|
| i. Electromechanical Level Detector (Silometer) : | PI 2010 700014 |
| ii. Multistage inverter control by polynomial identifiers: | PI 2010 700025 |
| iii. Inverter for solar generator: | PI 2014 703839 |
| iv. Transformer-Less Inverter System: | PI 2015 700154 |
| v. Nanofluid Based Solar Energy Harvester | PI 2016 701779 |
| vi. Transformerless Online Uninterruptible Power Supply | PI 2018701502 |

d. Research Grants

Individual Funds (Principal Investigator)	Team Funds (Co-investigator)	Industrial Funds (Consultant)
RM 9,782,170.00 (USD 2,794,905.71)	RM 4,482,400.00 (USD 1,280,685.71)	RM 1,041,400.00 (USD 297,542.85)

3. TRAINING OF HIGHLY QUALIFIED PERSONNEL

	PhD	M. Eng.Sc (by research)	M.Eng. (by course)	B.Eng.
Supervising (Ongoing)	14	6	1	3
Graduated	33	31	50	123

4. CONTRIBUTION TO SOCIETY (University, National and International)

International Advisory Board	National Committees/ Evaluator/Assessor	Journal/Conference Reviewer	Conference Chairman/session chair	Honors and Awards
22	51	48	17	25

Detailed CV can be found at: <http://umexpert.um.edu.my/saad>

5. Selected Publications

No	Publications
1.	S. S. Sebtahmadi, H. B. Azad, S. H. A. Kaboli, M. D. Islam, and S. Mekhilef, "A PSO-DQ Current Control Scheme for Performance Enhancement of Z-source Matrix Converter to Drive IM Fed by Abnormal Voltage," IEEE Transactions on Power Electronics ,vol.33, No.2, pp.0885-8993, 2018.
2.	L. M. Halabi, S. Mekhilef and M. Hossain, "Performance evaluation of hybrid adaptive neuro-fuzzy inference system models for predicting monthly global solar radiation," Applied Energy, pp. 247-261, 2018
3.	U. K. Das, K. S. Tey, M. Seyedmahmoudian, S. Mekhilef, M. Y. I. Idris, W. V. Deventer, B. Horan, A. Stojcevski, "Forecasting of photovoltaic power generation and model optimization: A review" Renewable and Sustainable Energy Reviews vol.81, no.1, pp. 912-928, 2018
4.	W. U. K. Tareen and S. Mekhilef, "Three-Phase Transformerless Shunt Active Power Filter With Reduced Switch Count for Harmonic Compensation in Grid-Connected Applications," IEEE Transactions on Power Electronics, vol. 33, no. 6, pp. 4868-4881, 6 2018
5.	Mehdi Seyedmahmoudian, Tey Kok Soon, Elmira Jamei, Gokul Sidarth Thirunavukkarasu, Ben Horan, Saad Mekhilef, Alex Stojcevski "Maximum Power Point Tracking for Photovoltaic Systems under Partial Shading Conditions Using Bat Algorithm" Sustainability, Vol. 10, 5, pp.1-19, 2018
6.	B. Talbi, F. Krim, T. Rekioua, S. Mekhilef, A. Laib, A. Belaout, "A high-performance control scheme for photovoltaic pumping system under sudden irradiance and load changes" Solar Energy vol. 159, no. 1, pp. 353-368, 2018.
7.	N. Sabeur, S. Mekhilef and A. Masaoud, "A Simplified Time-Domain Modulation Scheme-Based Maximum Boost Control for Three-Phase Quasi-Z Source Inverters," IEEE Journal of Emerging and Selected Topics in Power Electronics, pp. 760-769, 2018
8.	T. K. Soon, S. Mekhilef, M. Seyedmahmoudian, B. Horan, A. M. T. Oo and A. Stojcevski, "Improved Differential Evolution-based MPPT Algorithm using SEPIC for PV Systems under Partial Shading Conditions and Load Variation," IEEE Transactions on Industrial Informatics, pp 863-878, 2018
9.	S. M. S. I. Shakib and S. Mekhilef, "A Frequency Adaptive Phase Shift Modulation Control Based LLC Series Resonant Converter for Wide Input Voltage Applications," IEEE Transactions on Power Electronics, vol. 32, pp. 8360-8370, 2017.
10.	M. Hossain, S. Mekhilef, and L. Olatomiwa, "Performance evaluation of a stand-alone PV-wind-diesel-battery hybrid system feasible for a large resort center in South China Sea, Malaysia", Sustainable Cities and Society, vol. 28, pp. 358-66, 2017
11.	FM Albatsh, S Mekhilef, S Ahmad, H Mokhlis, "Fuzzy logic based UPFC and laboratory prototype validation for dynamic power flow control in transmission lines" IEEE Transactions on Industrial Electronics, vol.64, no.12,pp.9538-9548, 2017
12.	L. M. Halabi, S. Mekhilef, L. Olatomiwa, and J. Hazelton, "Performance analysis of hybrid PV/diesel/battery system using HOMER: A case study Sabah, Malaysia", Energy Conversion and Management, vol. 144, pp. 322-339, 2017
13.	M. Aamir and S. Mekhilef, "An Online Transformerless Uninterruptible Power Supply (UPS) System With a Smaller Battery Bank for Low-Power Applications," IEEE Transactions on Power Electronics, vol. 32, pp. 233-247, 2017
14.	A. Shayestehfard, S. Mekhilef, and H. Mokhlis, "IZDPWM-Based Feedforward Controller for Grid-Connected Inverters under Unbalanced and Distorted Conditions", IEEE Transactions on Industrial Electronics, vol. 64, pp. 14-21, 2017.
15.	M. Islam, N. Afrin, and S. Mekhilef, "Efficient Single Phase Transformerless Inverter for Grid-Tied PVG System With Reactive Power Control," IEEE Transactions on Sustainable Energy, 2016.
16.	M. Parvez Akter, S. Mekhilef, N. Mei Lin Tan and H. Akagi, "Modified Model Predictive Control of a Bidirectional AC DC Converter Based on Lyapunov Function for Energy Storage Systems," in IEEE Transactions on Industrial Electronics, vol. 63, no. 2, pp. 704-715, Feb. 2016.
17.	M. Islam and S. Mekhilef, "Efficient Transformerless MOSFET Inverter for a Grid-Tied Photovoltaic System," IEEE Transactions on Power Electronics, vol. 31, pp. 6305-6316, 2016.
18.	S. Hassani, R. A. Taylor, S. Mekhilef, and R. Saidur, "A cascade nanofluid-based PV/T system with optimized optical and thermal properties," Energy, vol. 112, pp. 963-975, 2016.
19.	P. Dey and S. Mekhilef, "Shunt Hybrid Active Power Filter under Non ideal Voltage Based on Fuzzy Logic Controller," International Journal of Electronics, 2016.
20.	M. Aamir, S. Mekhilef, and K. Hee-Jun, "High-Gain Zero-Voltage Switching Bidirectional Converter With a Reduced Number of Switches," IEEE Transactions on Circuits and Systems II: Express Briefs, vol. 62, no. 8, pp. 816-820, 2015

21.	M. Seyedmahmoudian, R. Rahmani, S. Mekhilef, A. Maung Than Oo, A. Stojcevski, T. K. Soon, et al., "Simulation and hardware implementation of new maximum power point tracking technique for partially shaded PV system using hybrid DEPSO method," IEEE Transactions on Sustainable Energy, vol. 6, pp. 850-862, 2015.
22.	P. Akter, N. M. L. Tan, S. Mekhilef, and H. Akagi, "Model Predictive Control of Bidirectional Isolated DC-DC Converter for Energy Conversion System," International Journal of Electronics, 2015
23.	M. Islam and S. Mekhilef, "H6-type transformerless single-phase inverter for grid-tied photovoltaic system," IET Power Electronics, vol. 8, pp. 636-644, 2015.
24.	A. Shayestehfard, S. Mekhilef, and H. Mokhlis, "Modified scalar discontinuous pulse-width modulation method for two-level three-wire voltage source inverters under unbalanced and distorted conditions," IET Power Electronics, vol. 8, pp. 1339-1348, 2015
25.	N. Sabeur, S. Mekhilef, and A. Masaoud, "Extended maximum boost control scheme based on single-phase modulator for three-phase Z-source inverter," IET Power Electronics, Vol. 9, pp. 669-679, 2015
26.	P. Dey and S. Mekhilef, "Current harmonics compensation with three-phase four-wire shunt hybrid active power filter based on modified D Q theory," IET Power Electronics, vol. 8, pp. 2265-2280, 2015
27.	M. P. Akter, S. Mekhilef, N. M. L. Tan, and H. Akagi, "Stability and Performance Investigations of Model Predictive Controlled Active-Front-End (AFE) Rectifiers for Energy Storage Systems," Journal of Power Electronics, vol. 15, pp. 202-215, 2015
28.	K. S. Tey and S. Mekhilef, "A Fast-converging MPPT Technique for Photovoltaic System under Fast Varying Solar Irradiation and Load Resistance," IEEE Transactions on Industrial Informatics, vol. PP, pp. 1-1, 2014.
29.	S. Sebtahmadi, P. Hossein, A. Seyed Hamid Reza, A. Radan, and S. Mekhilef, "A 12-Sector Space Vector Switching Scheme for Performance Improvement of Matrix Converter Based DTC of IM Drive," IEEE Transactions on Power Electronics, vol. PP, pp. 1-1, 2014.
30.	A. Masaoud, P. Hew Wooi, S. Mekhilef, and A. S. Taallah, "New Three-Phase Multilevel Inverter With Reduced Number of Power Electronic Components," IEEE Transactions on Power Electronics, vol. 29, pp. 6018- 6029, 2014.
31.	T. Kok Soon and S. Mekhilef, "Modified Incremental Conductance Algorithm for Photovoltaic System Under Partial Shading Conditions and Load Variation," IEEE Transactions on Industrial Electronics, vol. 61, pp. 5384-5392, 2014.
32.	H. B. Azad, S. Mekhilef, and V. G. Ganapathy, "Long- Term Wind Speed Forecasting and General Pattern Recognition Using Neural Networks," IEEE Transactions on Sustainable Energy, vol. 5, pp. 546-553, 2014.
33.	A. Taallah and S. Mekhilef, "Active neutral point clamped converter for equal loss distribution," IET Power Electronics, vol. 7, pp. 1859-1867, 2014.
34.	M. Uddin, S. Mekhilef, and M. Rivera, "Experimental validation of minimum cost function-based model predictive converter control with efficient reference tracking," IET Power Electronics, vol. 8, pp. 278-287, 2014.
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Course contents

1. Power Electronics and its Role in Providing a Sustainable Energy Supply (4 hours)

- Energy & Environment
- Challenges in Sustainable Energy
- Challenges in Energy Conservation

2. Maximum Power Point Tracking (MPPT) Controller for Photovoltaic (PV) System (4 hours)

- Photovoltaic (PV) System
 - Maximum Power Point Tracking Algorithms
 - Fractional Open Circuit Voltage
 - Fractional Short Circuit Current
 - Perturbation and Observation (P&O)
 - Incremental Conductance
 - Fuzzy Logic
 - Neural Network
 - Particle Swarm Optimization
 - Differential Evolution
 - Dividing Rectangles (DIRECT)
 - Modified P&O, Modified Incremental Conductance
 - Partial Shading Condition
 - Effect of Bypass Diodes
 - Differential Evolution
 - Initialization, Mutation, Crossover, Selection, and Termination
 - Simulation and Experimental Work
 - Conclusion

3. Wireless Power transfer for Electric Vehicle (4 hours)

- Background of Electric Vehicle
- Types of EV charging
- Coil design for EV charging
- Safety issues
- Limitations of current wireless EV charging
- Our current research
- Prospective interoperable WEV
- Further works on wireless EV charging
- Conclusion

4. Soft-switching Active-clamp Flyback Microinverter For PV Applications (4 hours)

- Background

- State-of-the-art
- Objectives
- Design and Analysis of the Proposed Flyback Microinverter
- Simulation Results
- Experimental Validation
- Conclusions and Future Works

5. Transformer-less Online Uninterruptible power supply (UPS) system (4 hours)

- Types of UPS system
- Topology based classification of UPS system
- Battery bank (Series or Parallel)
- State of the Art work
- Proposed Project
- Rectifier
- Bidirectional battery charger/discharger
- UPS control
- Comparison
- Conclusion

6. Power-Electronic Systems for the Grid Integration of Renewable Energy Sources (4 hours)

- New trends in power electronics for the integration of wind and photovoltaic
- Review of the appropriate storage-system technology
- Future trends in renewable energy systems based on reliability and maturity



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Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Directorate of International Relations

Visiting Professor Programmes

Details of Professor & Course:

Name of the Professor	Prof. Dr. Saad Mekhilef (CV Attached)
University & Country	University of Malaya, Malaysia
Title of the Course	Power Electronics Applications
Department	Electrical and Electronics Engineering
Dates of the Course	January 9-11, 2019
Total No. of Hours	15
Course Category	~~Programme Elective~~ / One Credit Course
No. of Credits	1
Course Content	Attached

Prepared by: *[Signature]*

Coordinator – Directorate of Intl. Relations

Forwarded by: *[Signature]* 05/12/18

Director – Directorate of Intl. Relations

[Signature]
28.12.18
HoD

Dr. P. Chandrasekar
Head of the Department
Electrical and Electronics Engineering

[Signature]
Dean

Prof. Dr. V. Jayasankar
Dean SoEC

[Signature]
Director (Academic)

Prof. Dr. techn. Koteswara Rao Anne
Director Academics

[Signature]
31/12/19
Vice Chancellor

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S No	Stu_Id	Stu_Name	Stu_Degree	Stu_Branch	Course Code	Course Name	Stu_Subject_PassFail	Stu_Grade
1	VTU8501	SUBASH DAS	B.Tech	EEE	1157EE907	Power Electronics Applications	RA	RA
2	VTU8507	NIKITA SHANKER	B.Tech	EEE	1157EE907	Power Electronics Applications	Pass	D
3	VTU8529	VINOTH KUMAR M	B.Tech	EEE	1157EE907	Power Electronics Applications	NE	NE
4	VTU8530	SIVA KUMAR S	B.Tech	EEE	1157EE907	Power Electronics Applications	NE	NE
5	VtU7490	VALLEPU BHASKAR	B.Tech	EEE	1157EE907	Power Electronics Applications	Pass	D
6	VtU7495	MAGESH S	B.Tech	EEE	1157EE907	Power Electronics Applications	NE	NE
7	VtU7500	VEGILSETTY VENKATA SUNIL KUMAR	B.Tech	EEE	1157EE907	Power Electronics Applications	Pass	B
8	VtU7501	SIDDHARTH S	B.Tech	EEE	1157EE907	Power Electronics Applications	NE	NE
9	VtU7502	RAMPALLI YASWANTH	B.Tech	EEE	1157EE907	Power Electronics Applications	Pass	C
10	VtU8024	INDULEKHA K	B.Tech	EEE	1157EE907	Power Electronics Applications	NE	NE
11	VtU8169	TELLAKULA VEERA DESHIK CHARAN	B.Tech	EEE	1157EE907	Power Electronics Applications	Pass	B
12	VtU8278	NELATURI ABHISHEK VIJAY RAJ	B.Tech	EEE	1157EE907	Power Electronics Applications	RA	RA
13	VtU8393	MD IRFAN ALI	B.Tech	EEE	1157EE907	Power Electronics Applications	Pass	C
14	VTU5923	PREM KUMAR M	B.Tech	EEE	1157EE907	Power Electronics Applications	Pass	D
15	VTU8137	KISHORE KUMAR R	B.Tech	EEE	1157EE907	Power Electronics Applications	Pass	D
16	VTU8138	SIVAHARI S	B.Tech	EEE	1157EE907	Power Electronics Applications	Pass	B
17	VTU8543	SHRIKANT KUMAR SINGH	B.Tech	EEE	1157EE907	Power Electronics Applications	Pass	B



विजया बैंक
VIJAYA BANK

वेलटेक इंजीनियरिंग कालेज शाखा, तमिलनाडु - 600062
VEL-TECH ENGINEERING COLLEGE, BRANCH, TAMILNADU - 600062
IFSC: VIJB0003802

A/c Payee

VALID FOR 3 MONTHS ONLY FROM THE DATE OF ISSUE

3 1 0 1 2 0 1 9
D D M M Y Y Y Y

SAAD MEKHILEF

Pay

या धारक को or Bearer

Fifty Five Thousand Only

रुपये Rupees

अदा करें

₹

**55,000.00

A/c. No.

380206021000008

VEL TECH RANGARAJAN DR. SAGUNTHALA AND D
INSTITUTE OF SCIENCE AND TECHNOLOGY

AUTHORIZED SIGNATORIES

44

07/12/2018

Payable at all our branches for transfer and clearing

Please sign above

808931 600029026 380275 11

FORM A2

(To be completed by the applicant)

FORM A2

AD Code No. _____

Form No. _____

(To be filled in by the Authorised Dealer)

(For payments other than imports and remittances covering intermediary trade)

Currency _____ Amount _____ Equivalent to Rs. _____

(To be completed by the Authorised Dealer)

**Application for
Remittance Abroad**I/We Vell Tech Rangarajan Dr. Sagunthala R & D Institute of Science & Technology.
(Name of applicant remitter)

PAN No. _____

(For remittances exceeding USD 25,000 and for all capital account transactions)

Address 400 feet, outer Ring Road, Avadi, Chennai - 62.

authorize _____

(Name of AD branch)

To debit my Savings Bank/ Current/ RFC/ EEFC A/c. No. 380200301000191
together with their charges and* a) Issue a draft : Beneficiary's Name _____
Address _____

* b) Effect the foreign exchange remittance directly –

1) Beneficiary's Name Saad Mekhilef2) Name and address of the bank MALAYAN BANKING BERHAD (MAYBANK)3) Account No. 464315306129Branch:- 92, Jalan Tun H3 kee, 50000 Kuala Lumpur, W.P, Malaysia.* c) ~~Issue travelers cheques for~~swift code:-MBBEHYKL* d) ~~Issue foreign currency notes for~~

Amount (specify currency) _____

* (Strike out whichever is not applicable) for the purpose/s indicated below

Sr. No.	Whether under LRS (Yes/No)	Purpose Code	Description
			As per the Annex

(Remitter should put a tick (✓) against an appropriate purpose code. In case of doubt/ difficulty, the AD bank should be consulted).

Declaration**(Under FEMA 1999)**

1. # I, Dr. R. Rangarajan (Name), hereby declare that the total amount of foreign exchange purchased from or remitted through, all sources in India during the financial year including this application is within the overall limit of the Liberalised Remittance Scheme prescribed by the Reserve Bank of India and certify that the source of funds for making the said remittance belongs to me and the foreign exchange will not be used for prohibited purposes.

Details of the remittances made/transactions effected under the Liberalised Remittance Scheme in the current financial year (April- March) 2018-19

Sl. No	Date	Amount	Name and address of AD branch/FFMC through which the transaction has been effected

2. # The total amount of foreign exchange purchased from or remitted through, all sources in India during this calendar year including this application is within ~~USD~~ MYR three thousand one hundred eighty nine (USD MYR 3189) ✓ the annual limit prescribed by Reserve Bank of India for the said purpose. Malaysian Ringgit.
3. # Foreign exchange purchased from you is for the purpose indicated above.
- # (Strike out whichever is not applicable)

Signature of the applicant

**For Vel Tech Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology**

(Name)

Date: 12/2/2019


Managing Trustee

Certificate by the Authorised Dealer

This is to certify that the remittance is not being made by/ to ineligible entities and that the remittance is in conformity with the instructions issued by the Reserve Bank from time to time under the Scheme.

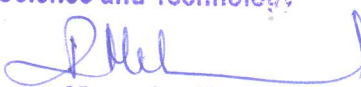
Name and designation of the authorised official:
Stamp and seal

Signature:

Date:

Place: 12/2/2019

**For Vel Tech Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology**


Managing Trustee

FORM NO. 15CA

[See rule 37BB]

Information to be furnished for payments, to a non-resident not being a company, or to a foreign company

Acknowledgement
Number

418398011070219

PART A - To be filled up if the remittance is chargeable to tax under the provisions of the Income-tax Act, 1961 and the remittance or the aggregate of such remittances, as the case may be, does not exceed five lakh rupees during the financial year.

PART B - To be filled up if the remittance is chargeable to tax under the provisions of the Income-tax Act, 1961 and the remittance or the aggregate of such remittances, as the case may be, exceeds five lakh rupees during the financial year and an order/ certificate u/s 195(2)/ 195(3)/ 197 of Income-tax Act has been obtained from the Assessing Officer.

PART C - To be filled up if the remittance is chargeable to tax under the provisions of Income-tax Act, 1961 and the remittance or the aggregate of such remittances, as the case may be, exceeds five lakh rupees during the financial year and a certificate in Form No. 15CB from an accountant as defined in the Explanation below sub-section (2) of section 288 has been obtained.

PART D - To be filled up if the remittance is not chargeable to tax under the provisions of the Income-tax Act, 1961 [other than payments referred to in rule 37BB(3)] by the person referred to in rule 37BB(2).

Please select the relevant part from the drop down. **PART - A**

PART - A

To be filled up if the remittance is chargeable to tax under the provisions of the Income-tax Act, 1961 and the remittance or the aggregate of such remittances, as the case may be, does not exceed five lakh rupees during the financial year

REMITTER	
Name of Remitter	VELTECH RANGARAJAN DR SAGUNTHALA RANDD INSTITUTE OF SCIENCE AND TECHNOLOGY TRUST
PAN of the Remitter (if available)	AABTV8852A
TAN of the Remitter (if available)	CHEV13129E
ADDRESS OF THE REMITTER	
Flat/ Door/ Block No	NO.42
Name of premises/ Building/ Village	VEL TECH
Road/ Street	ALAMATHI ROAD
Area/ Locality	AVADI
Town/ City / District	TIRUVALLUR
State	TAMIL NADU
Country	INDIA
Pin Code	600062
Email ID	NOORJAHAN_1969@YAHOO.COM
Phone Number	9940380986
Status	OTHERS
Residential status of remitter	Resident
REMITTEE	
Name of recipient of remittance	SAAD MEKHILEF
PAN of the recipient of remittance, if available	
ADDRESS OF THE REMITTER	
Flat/ Door/ Block No	SAAD MEKHILEF
Name of premises/ Building/ Village	UNIVERSITY OF MALAYA
Road/ Street	
Area/ Locality	KUALA LUMPUR
Town/ City / District	KUALA LUMPUR
State	W.P
Country	MALAYSIA
ZIP Code	50603
Email ID of the recipient of remittance	SAAD@UM.EDU.MY
Phone Number of the recipient of remittance	6129138237
Country to which remittance is made	MALAYSIA
Name of Country if selected as Others	
REMITTANCE	
Amount payable before TDS, (In Indian Currency)	56818

Aggregate amount of remittances made during the financial year including this proposed remittance	45000
Name of bank	Vijaya Bank
Name of Bank if selected as Other Bank	
Name of the branch of the bank	VELTECH
Proposed date of remittance (DD/MM/YYYY)	07/02/2019
Nature of remittance	PAYMENTS TO PROFESSORS, TEACHERS OR RESEARCH SCHOLARS
Nature of remittance if selected as Others	-
Relevant purpose code as per RBI	Other Business Services
	S1008 - Research and Development services
Tax Deducted :	
(a) Amount of TDS	11818
(b) Rate of TDS	20
(c) Date of deduction (DD/MM/YYYY)	06/02/2019

PART-A VERIFICATION

I, **MR. R. RANGARAJAN** (Name in full and in block letters) son/daughter **MR. RANGASWAMY** in the capacity of **PRESIDENT** (designation) solemnly declare that the information given above is true to the best of my knowledge and belief and no relevant information has been concealed. I further undertake to submit the requisite documents for enabling the income-tax authorities to determine the nature and amount of income of the recipient of the above remittance as well as documents required for determining my liability under the Income-tax Act as a person responsible for deduction of tax at source.

Date (DD/MM/YYYY): **07/02/2019**

Name of the person responsible for paying to non-resident **MR. R. RANGARAJAN**

Place **CHENNAI**

Designation of the person responsible for paying to non-resident **PRESIDENT**

This form has been digitally signed by **RANGASWAMY RANGARAJAN** having PAN **AADPR7092J** from IP Address **118.185.184.34** on **2019-02-07 16:58:17.0**.
Dsc Sl No and issuer **15020923CN=eMudhra Sub CA for Class 2 Individual 2014,OU=Certifying Authority,O=eMudhra Consumer Services Limited,C=IN**



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R&D Institute of Science and Technology

(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

Dr. S. Sivaperumal
Director International Relations

Date: 08 FEB 2019

Our Ref. No: 2017/VF 159	Your Ref. No:
--------------------------	---------------

Name of the Professor: Prof. Dr. Saad Mekhilef

University & Country: University of Malaya, Malaysia

Course Title : Power Electronics Applications

Department : Electrical and Electronics Engineering

Students : 2017-2021, 12 Students

Training Program date: January 9 to 11, 2019

Sl. No	Description	Amount in INR	Amount in MYR
1	Course Honorarium (Rs.3000 * 15 Hrs) (Net Amount & Tax Free)	45000	2613
2	Travel Expenses (Partial)	10000	576
	Total	55000	3189

In this regard, I request you to transfer the amount in MYR to the following Account,

Account Holder Name: Saad Mekhilef

Bank Name: MALAYAN BANKING BERHAD (MAYBANK)

Acc. No: 164315306129

Branch: 92, Jalan Tun H S Lee, 50000 Kuala Lumpur, WP, Kuala Lumpur, Malaysia

SWIFT Code: MBBEMYKL

Thank You,

S. Sivaperumal

Dr. S. Sivaperumal
Director International Relations

Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
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No.42, Avadi - Vel Tech Road, Avadi,
Chennai, Tamil Nadu, Pincode - 600 062.
Landline : +91 44 2684 0262
Mobile : +91 96000 40255
Tollfree : 1800 3070 6949
Email : dint@veltech.edu.in
Website: www.veltech.edu.in