

Curriculum Vitae



DR. M.MARSALINE BENO

Personal data

Born : at Nagercoil, Tamilnadu, India on July 29, 1977 , Married
Spouse : **Er. M.CIBA THERASE, M.E** , Computer Science Professor

Contacts

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Mobile: Personal +91 9443993659

Permanent Address: 'MARIA COTTAGE', 17/218, Tharavilai,
Thickanamcode, Post KK Dist, TamilNadu, India.
& Pincode - 629 804.

Present Address

Education

Ph.D (Electrical and Electronics Engineering Engineering),
Anna University Chennai 2009

M.Tech (Electrical MACHines), First Class with Distinction
College of Engineering, Thiruvananthapuram, Kerala ,2000

B.E (Electrical and Electronics Engineering), First Class
Govt. College of Engineering Thirunelveli, 1998

Research Guidance

Ph. D Degree Awarded : 4
Thesis submitted : 2
Undergone : 10

Experience

20 Years

- **Vice Principal & Professor EEE**, St Xavier's Catholic College of Engineering, Nagercoil , Since January 2019.

- **Professor and Head** Dept. of Electrical and Electronics Engineering, St Xavier's Catholic College of Engineering, 2011-2018.
- **Assistant Professor**, Dept. of Electrical and Electronics Engineering, St Xavier's Catholic College of Engineering, 2009-2011.
- **Senior Lecturer**, Dept. of Electrical and Electronics Engineering St Xavier's Catholic College of Engineering, 2006 -2009.
- **Lecturer**, Dept. of Electrical and Electronics Engineering, St Xavier's Catholic College of Engineering, 2000-2006.

Affiliation and Organizations

- Fellow Member - **IE(I)** Institution of Engineer (India)
- Life Member - **ISTE** Indian Society for Technical Education
 - **Society of EMC Engineers**
 - **Solar Energy Society of India (SESI)**
 - **International Society for Research & Development (ISRDI)**
- Member - **IET(UK)** Institution of Engineering Technology
 - **IAENG** International Association of Engineers, Hong Kong
- Senior Member - Institution of Electrical and Electronics Engineering (USA)
- Vice President , **IGEN** –Institution of Green Engineers , 2017-2021
- Honorary Secretary ,**IET(UK)** – Kanyakumari Local Networks, 2020-2021
- Exe Com Member , **IE(I)** – Kanyakumari Local Centre , (2016-2021)
- Former **Council Member** - **IET(UK)** 2013-2016
- Former YP Chairman ,**IET(UK)** – Kanyakumari Local Networks, 2014-16
- Former Treasurer ,**IET(UK)** – Kanyakumari Local Networks, 2017-19
- Former Vice Chairman, **IET Young Member Section of Chennai LN 2011-14**
- Former Chairman, **IET-Young Member Section of South Asia Region 2012-14**

Publications

Journal Papers

Sl.No	Author(s)	Title	Name of Journal	Volume	Page	Year
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1.	SM.Swamy & MarsalineBeno	Predicting Solar Power Potential via Refurbished ANN in Associated with Artificial Fish Swarm Optimization (AFSO)	International Journal of Advanced Science and Technology, IJAST	Vol. 29, No. 5		Jan 2020
2.	SM.Swamy & MarsalineBeno	Effective utilization of cascade H-bridge multilevel inverter integrate social spider optimization for reduced total harmonics distortion	International Journal of Manufacturing Technology and Management, Inderscience	Vol. 33, Nos. 1		Sep 2019
3.	MarsalineBeno & Femila	Optimizing Transmission Power and Energy Efficient Routing Protocol in MANETs	Wireless Personal Communications, Springer			Feb 2019
4.	Edwin Selva Rex, Marsaline Beno M	Optimal Power Flow-Based Combined Economic and Emission Dispatch Problems Using Hybrid PSGWO Algorithm	Journal of Circuits, Systems and Computers, World scientific Publications			Jan 2019
5.	Marsaline Beno M , Alwin S	Analysis of Active Power Filter For Harmonic Voltage Resonance Suppression in Distribution System	Journal of Adv Research in Dynamical & Control Systems,	Vol. 10, 02-Special Issue	921-928	2018
6.	Nirmal Raja, Marsaline Beno	Secure data aggregation in WSN Fujisaki Okamoto authentication scheme against sybil attack.	Journal of medical systems, Springer	41, No 7	1-5	2017
7.	Edwin Selva Rex, Marsaline Beno M	State of Art In Combined Economic And Emission Dispatch	Middle-East Journal of Scientific Research	25 (1)	56-64	2017
8.	Alwin S, Marsaline Beno M ,	Design of Hybrid Active Filter for Harmonic Reduction	Journal of Adv Research in Dynamical & Control	Vol. 9, No. 7,	106-112	2017

			Systems,			
9.	S.Selva Pradeep, M.Marsaline Beno	PI Controller Based Commutation Tuning On Sensorless BLDC Motor	INTERNATI ONAL JOURNAL OF CURRENT ENGINEERI NG AND SCIENTIFIC RESEARCH (IJCESR)	VOLU ME-4, ISSUE- 12	43- 47	2017
10.	MarsalineBeno & Femila	Incremental relay selection with reduced power consumption and jamming for secure cooperative network	Rev.Tec.Ing. Univ. Zulia	. Vol 39, No.10	13- 28	2016
11.	Nirmal Raja, M.Marsaline Beno,	Energy aware mac protocols for wireless Sensor networks,	Journal on Wireless Communicati on Networks,	Vol.42	13- 20.,	2015
12.	Maria Jim stony, Marsaline Beno M	Simulation of a zero voltage transition synchronous buck converter for portable applications,	Journal of Chemical and Pharmaceutic al Sciences, SPB Pharma Society ISSN: 09742115	Issue 11	8-12,	2015
13.	Alwin S, Marsaline Beno M,	Power Quality Control based on parallel power processing scheme,	International Journal of Applied Engineering Research, , Research ISSN:097345 62,	Volume 10, Number 16	3661 8- 3662 1	2015
14.	Alwin S, Marsaline Beno M	Fuzzy Logic Controller Based THD Reduction in Non- Linear Load Using	, Paripex - Indian Journal Of Research.	Volume : 4 Issue : 7		July 2015

		Shunt Active Filter	ISSN:22501991			
15.	Nirmal Raja & M. MarsalineBeno,	On securing Wireless Sensor Network-Novel authentication scheme against DOS attacks	Journal of Medical Systems, Kluwer Academic/Plenum Publishers, Springer.	Volume 38, No. 10	1–5	2014
16.	MarsalineBeno M, Valarmathi I. R, Swamy S. M, B. R. Rajakumar	Optimal Threshold Prediction for Detecting Brain Tumor AQ1 from MRI Scans Using Support Vector Machine,	International Journal of Imaging Systems & Technology, John Wiley & Sons Inc. ,Wiley-Blackwell	25 and 2, May 2014,	129–137	2014
17.	Marsaline Beno M, Valarmathi I. R, Swamy S. M, B. R. Rajakumar.	Hybrid Optimization Model Of Video Steganography Technique With The Aid Of Biorthogonal Wavelet Transform	Journal of Theoretical and Applied Information Technology, , Little Lion Scientific	Vol :63, issue 1	190-199	2014
18.	Dayana.V. John and M.Marsaline Beno	Battery Energy Storage Station Based Smoothing Control of Wind and Photovoltaic Power Generation Fluctuations Using SOC Control Strategy”,	Asian Journal	Vol 3.No 1	18-22,	2014
19.	Devipriya., Jerlina P Malhija, M. Marsaline Beno	Online Condition Monitoring and Torque Control of VSI Fed PMSM Drive	<i>Applied Mechanics and Materials, Trans Tech Publications, Switzerland</i>	<i>Vol. 626</i>	<i>234 - 240</i>	<i>2014</i>
20.	M.Marsaline Beno, S N Kumar	Segmentation Lung lobes and fissures for	International Journal of	Vol 51 Issue 9	12-16	2012

	,	surgical preplanning	Computer Applications			
21.	Marsaline Beno M. & Marimuthu N.S.,	A low cost digital measurement system for SRM drives	International journal of Power Electronics, Inderscience Publishers, UK	Vol.1, No.4.	381 – 396	2009
22.	M.Marsaline Beno, Dr.N.S.Marimuthu	AI Based Rotor Position Estimation Techniques for SRM Drives	I-Manger's Journal on Electrical Engineering	Vol 1, No 3,	58-63	2008
23.	Marsaline Beno M. and Marimuthu N.S	Optimal turn on and turn off angle control of SRM using adaptive neuro-fuzzy controller	International journal of Electric Circuit Analysis, IETECH Publications	Vol.2, No.4..	224 – 228	2008
24.	M. Marsaline Beno, Dr.N.S.Marimuthu, N.Albert Singh	<i>Non Linear Modelling of SRM using Soft Computing Techniques</i>	International Journal of Electrical and Power Engineering,	Vol 1, No.2,	215-224	2007.
25.	M. Marsaline Beno, Dr.N.S.Marimuthu, N.Albert Singh	<i>Non Linear Modelling of SRM using Fuzzy and NeuroFuzzy Logic Techniques</i>	Nice Journal of Emerging Technologies	Vol 2, No.1, July	72 - 78	2007

Books

S.No	Title	Author's Name	Publisher	Year of Publication
1	Special Electrical Machines	Marsaline Beno. M & Leon Bosco.J	Sri Krishna Publications	2019
2	Electromagnetic Field Theory	MarsalineBeno.M&V. Jesus Bobin, V	EEE Dept.,SXCCE	2016

3	Circuit Theory	Marsaline Beno& Arthi Janni A	Charulatha Publications	2016
4	Basic Electrical and Electronics Engineering”	Marsaline Beno.M & Abragam Siyon Sing.M	Charulatha Publications	2016
5	ICEETS	Marsaline Beno.M & Carolin Mabel	Transtech. International Publication	2014

Papers in Conference Proceedings

- ✚ **M.Marsaline Beno**, N.Albert Singh, “*An Intelligent controller for a non linear power electronic converter*” PEITISCON-2005,IEE Inter National Conference Proceeding ,pp.(232-235).
- ✚ **M.Marsaline Beno**, Dr.N.S.Marimuthu, “*Non Linear Modelling of SRM using Fuzzy logic Techniques*”,ICMCS-07, IIT Sponsored Inter National Conference Proceeding pp.(40-46)
- ✚ **M.Marsaline Beno**, Dr.N.S.Marimuthu, “*Non Linear Modelling of SRM using a novel Neural network*”,ICACC 2007, IEEE Sponsored Inter National Conference Proceeding pp.(421-427).
- ✚ **M.Marsaline Beno**, Dr.N.S.Marimuthu, “*Switching angle Optimization of SRM using Neuro Fuzzy*”, ICTES -2007, IET Inter National Conference Proceeding.Dec 20-22 2007.
- ✚ **Marsaline Beno M.** and Marimuthu N.S. (2008), ‘Improving Power Factor in Switched Reluctance Motor Drive System By Optimising the Switching Angles’, TENCON-2008, IEEE International Conference.
- ✚ S Ibrahim, **Marsaline Beno M.**, “ Biometric authentication for secured transaction using finger vein technology”IET Third International Conference on Sustainable Energy and Intelligent Systems(**SEISCON 12**) , November. 2012
- ✚ **Marsaline Beno M.** et.al., “A New Improved Cultural Algorithm Approach For Multiobjective Reactive Power Planning Problem”IET Fourth International Conference on Sustainable Power And Energy Systems(**SEISCON 13**) .,December 2013
- ✚ Devipriya., **M. Marsaline Beno**, “Online Condition Monitoring of Rotor flux linkage and sensorless control of VSI Fed PMSM Drive” National Conference on Emerging Technologies in computing Control and Communications at Arunachala college of engineering, 21 feb 2014

- ✚ Devipriya., **M. Marsaline Beno**, “Online Condition Monitoring of Rotor flux linkage and VSI non linearity of PMSM Drive” inter National Conference on Intelligent Engineering Systems at EASA college of engineering, 03 April 2014
- ✚ Nisha, **M. Marsaline Beno**, “Single phase seven level cascade inverter for Photovoltaic systems” inter National Conference on Computing & Communication Technology at Immanuel Araser JJ College of engineering, 02 March 2013.
- ✚ Devipriya D, **M. Marsaline Beno**, “Online Condition Monitoring and Torque Control of Sensor less VSI Fed PMSM Drive” **ICEETS 14 at SXCCE**
- ✚ Dayana.V.John, **M. Marsaline Beno**, “Battery energy storage station based smoothing control of photovoltaic and wind power generation fluctuations” **ICEETS 14 at SXCCE**
- ✚ Jerlina.P.Malhija, **M. Marsaline Beno** ,”Efficiency Improvement of SCIG based WECS using MOL and MPPT Controller” **ICEETS 14 at SXCCE**
- ✚ Femila.L, **M. Marsaline Beno**, “Link stability and Energy Efficient Broadcasting in MANETs Using Multipoint Relay Nodes” **ICCCAN 2015**, at Chennai Institute of Technology
- ✚ **M. Marsaline Beno** , S. Fathima Surumy, P. C. Murugan, S. Joseph Sekhar, “Numerical Simulation on the Heat Transfer of Electronic Components inside the System Unit of a Personal Computer” **ICMOC ,14** at NI University
- ✚ Femila.L, Dr. M. MarsalineBeno “Link stability and Energy Efficient Broadcasting in MANETs Using Multipoint Relay Nodes “ **ICCCAN'15** on 2015 at Chennai Institute of Technology
- ✚ Vanish, Swamy, Dr. M. MarsalineBeno, “Design of an artificial intelligence model for predicting solar photovoltaic cells potential“ International Conference on Energy Efficient Technologies for Sustainability (ICEETS '16) on 2016 at SXCCE
- ✚ Dr.M.MarsalineBeno “Power Quality Enhancement Using Cascaded ESL QUASI 2-Source Multilevel Inverter” International Conference on Computing, Electronics and Electrical Technologies(ICETET 2K16) on 9th and 10th December 2016 at Arunachala College of Engineering, vellichanthai
- ✚ Dr. M. Marsaline Beno ”State Of Art In Combined Economic And Emission Dispatch” International conference on 9th and 10th December 2016 at Arunachala College of Engineering, vellichanthai
- ✚ Dr.Marsaline Beno, Bibin, “Fuzzy controller based design and implementation of energy management for microgrid system”, CONFERENCE on Trends in Energy Management (TEMCON' 17) on 23rd March 2017 at St.Xavier's Catholic College of Engineering, Nagercoil

- ✚ Abin K. Baby, Dr.M.MarsalineBeno,“Control strategy for distributed integration of photovoltaic and energy storage systems in microgrids “,CONFERENCE on Trends in Energy Management (TEMCON’ 17) on 23rd March 2017 at St.Xavier’s Catholic College of Engineering, Nagercoil
- ✚ Alwin S, Dr. M. MarsalineBeno, “Power Quality issues and impact in Smart Grid Environment” National Conference on Green Initiatives and Smart Grid”, CONFERENCE on Green Initiative and Smart grid (GISCON’16) on March 2016 at St. Xavier’s Catholic College of Engineering, Nagercoil
- ✚ Reshmi R J, Dr. M. MarsalineBeno, “Performance of BLDC motor using Adaptive Fuzzy PID controller”, Conference on Green Initiative and Smart grid (GISCON’16)on March 2016 at St. Xavier’s Catholic College of Engineering
- ✚ Mary Stafe M, Dr. M. MarsalineBeno, “Analogy of Various Intelligent Soft Starting techniques of Induction Motor”, CONFERENCE on Green Initiative and Smart grid(GISCON’16)on March 2016 at St. Xavier’s Catholic College of Engineering
- ✚ Devipriya, Dr. M. Marsaline Beno, “Online Condition Monitoring of Rotor flux linkage and sensorless control of VSI Fed PMSM Drive “,NCETCCC on 2015 at Arunachala college of engineering

Detail of patents.

S.No	Patent Title	Name of Applicant	Patent No.	Awar d Date (s)	Agency/Co untry	Status
1	Self-Powered Communication Tower with Multiple Transmission systems	M.Marsalin e Beno et al.	20164104 1443	Dec 2016	Allinov Research / India	Filed & Published
2	A Portable Heating Article	M.Marsalin e Beno et al.	20174101 6846	May 2017	Allinov Research / India	Filed & Published

Professional Service

Funded Conferences and Workshops Organized

FDP Organized

- ✚ Seven Day Anna University approved FDP on Electromagnetic Field theory during summer 2014
- ✚ Seven Day Anna University approved FDP on Power Systems Protection & Switch Gear during summer 2017
- ✚ Seven Day Anna University approved FDP on Circuit theory during Winter 2017
- ✚ Seven Day Anna University approved FDP on Special Electrical Machines during summer 2018









Organized Conferences

- ✚ National Conference GNEESIC '12 as Organizing secretary
- ✚ National Conference GNEESIC '13 as Organizing secretary
- ✚ International Conference ICEETS '14 as Organizing secretary
- ✚ National Conference GNEESIC '15 as Organizing secretary
- ✚ National Conference GISCON '16 as Convener
- ✚ National Conference TEMCON '17 as Convener
- ✚ International Conference MEETCON'17 as Convener
- ✚ International Conference ICEETS '18 as Organizing secretary










Representing in the Board of study meeting

- ✚ Member of Anna University Syllabus Committee, period 2017-2018
- ✚ Member of Anna University Chennai EEE Board, period 2012-2015
- ✚ Member of NEC Kovilpati EEE Board , period 2012-2014
- ✚ Member of. PSN College of Engg. EIE Dept. , period 2012-2014
- ✚ Member of. PSN College of Engg. EEE Dept. , period 2014-2016

Acted as a Chief Guest

-  International conference at CAPE Institute of Tech during 2013
-  International conference at Maria college of Engg. During 2013
-  International conference “Icon ETES 14” at Rajas College of Engineering on 27 march 2014
-  National conference, “Emerging Technologies in computing Control and Communications” at Arunachala Coll of Engg. On 21 feb 2014
-  International conference at SCAD College of engg., on April 14, 2015
-  National conference at PSN college of Engg & Tech on 1st April 2016
-  International conference at Arunachala College of Engineering for women 9th December 2016
-  National conference at Ponjesly College of Engg on 11th March 2017

Seminar given in various Colleges

-  A lecture session on Power Electronics handled in the NI University FDP in the month of Nov. 2012
-  A Seminar on Smart Grid given in the IPv6 Research Center of University Sains Malaysia, in 2012.
-  A Seminar on Electrical Safety systems and Smart Grid given in Pon Jesly College, on 24th SEP 2013.
-  A Seminar on recent trends in Electrical engineering given in Annai Velankanni college during September 2013
-  A lecture session on Measurements & instrumentation handled in Arunachala College of Engg. On Nov 2014
-  A workshop on Power System Analysis using ETAP given to CSI College Ooty
-  A Seminar on Smart Grid at Sun College
-  A Motivation seminar given to Jeyamatha Engg.College
-  A motivation seminar given to NSS students of SXCCE

- ✚ A lecture session on Control Systems handled in the Sri Krishna College, Chennai FDP in the month of Dec. 2013
- ✚ A lecture session on Electrical Machines handled in Arunachala College of Engineering for women on 22-11-2016
- ✚ A seminar on Energy Efficiency and Smart Grid Vidhya Academy of Science & technology on 08-12-2016
- ✚ A seminar on M Health Technologies delivered at Annammal College of Nursing on 02-01-2017

Certificate courses completed

- ✚ EMC²
- ✚ Data Protection Act 2014.
- ✚ Energy Efficiency Home Auditor Licence from Energy Audit Institute, USA

Attended Workshop/FDP/Seminars

- ✚ Participated in the ICT Academy Bridge programmes held at Madurai Coimbatore, Tirunelveli, Nagercoil and Chennai (Roughly 7 Events).
- ✚ Participated in TCE 5 Days Accreditation Program workshop
- ✚ ISTE workshop on “**Aakash for Education**”, Conducted by National Mission on Education through ICT (MHRD, Govt. of India) and IIT Bombay on November 10th & 11th, 2012
- ✚ ISTE workshop on “**Research Methodologies**”, Conducted by National Mission on Education through ICT (MHRD, Govt. of India) and IIT Bombay
- ✚ ISTE workshop on “**Analog Electronics**”, Conducted by National Mission on Education through ICT (MHRD, Govt. of India) and IIT Kharagpur on 4/6/2013 to 14/6/2013
- ✚ ISTE workshop on “**Control Systems**”, Conducted by National Mission on Education through ICT (MHRD, Govt. of India) and IIT Kharagpur
- ✚ ISTE workshop on “**Green Building Awareness**”, Conducted by National Mission on Education through ICT (MHRD, Govt. of India) and IIT Bombay on 24th August 2014
- ✚ Participated in cloud infrastructure & Services FDP by ICT Academy during 20/1/2014 to 24/1/2014
- ✚ Participated in Ubuntu desktop course on 7/5/14

- ✚ Participated in Seminar on health care technologies on 25/02/2015 at Institute of Mechanical Engineers, UK
- ✚ Participated in.IET Volunteer Induction on 27/02/2015 at Faradays house steevenage, UK
- ✚ Participated in.IET YP Event at Science Institute, UK on 23/10/2014

Peer reviewer for International Journals

- ✚ [Journal of Electrical and Electronics Engineering Research](http://www.academicjournals.org/journal/JEEER/editors)
(www.academicjournals.org/journal/JEEER/editors JEE)
- ✚ [IJRET Review Board](http://www.ijret.org/Review Board),([www. ijret.org/Review Board](http://www.ijret.org/Review Board))
- ✚ [I Manager Journal of Electrical Engineering](#)

University Services

- Board of Study Member of Anna University,Chennai Tamilnadu during 2013-2016.
- Syllabus Sub Committee Member of Anna University,Chennai Tamilnadu during 2017-2019.
- Question paper setter for B.E/M.C.A/M.Tech in various Universities.
- Examiner, Chief Examiner, CS and Chairman for theory and Practical Examination of Various Universities for 20 Years.
- Board of Study Member of PSN College of Engineering & Technology Tamilnadu during 2012-2015 & 2016 - 2019.

Teaching

- | | |
|------------------------------|------------------------------------|
| - Control Systems | - Power Electronics |
| - Circuit Theory | - Electromagnetic Theory |
| - Electrical Machines I & II | - Electrical Drives |
| - Digital Systems | - Professional Ethics |
| - Solid state Drives | - Utilization of Electrical Energy |

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| - Protection & Switch Gear | - Renewable Energy Resources |
| - Smart Grid | - System Theory |
| - Energy Management & Audit | - Microcontrollers based system design |
| - Microprocessors | - Special Electrical Machines |
| - Computer Networks | - Soft Computing Techniques |
| - Control of Electrical Drives | - Linear Integrated Circuits |
| - Control Systems Design | |

Achievements

1. Established ME Power Electronics & Drives at St Xavier's Catholic College of Engineering , Nagercoil 2012
2. Increased the strength of Department of EEE as 60 at St Xavier's Catholic College of Engineering , Nagercoil 2013
3. Produced Gold Medals and Ranks from Anna University for B.E EEE
4. Obtained NBA accreditation for EEE Department of SXCCE 2018
5. Obtained NAAC accreditation for SXCCE 2017
6. Established Student affairs at St Xavier's Catholic College of Engineering , Nagercoil 2018
7. Established Academic Affairs at St Xavier's Catholic College of Engineering , Nagercoil 2019
8. Established Society of Electrical Engineers at EEE Department,SXCCE 2002
9. Established IET Student Chapter at EEE Department,SXCCE 2006
10. Established EnSav Club at EEE Department,SXCCE 2016
11. Established IEI Student Chapter at EEE Department,SXCCE 2018
12. Established St Xavier's Academy for Career Advancements ,SXCCE 2018
13. Participated in IET UK Council meetings as a Council Member (2013-16)
14. Established IET KKLN 2014
15. Awards

Received Best paper Award at ICMCS-07, International seminar, at PSN college of Engg.& Tech.jan.2007 Received IET-YMSC Challenger 2007 Award

Received 10 times 100% Results Award for various subjects from SXCCE

Received IET-YMSC Young Men Engineer 2008 Award

Received Er.Rajan IET Promotional Award 2014

Received IET Ambition & Achievement Award 2012

Received IET South Asia Volunteer Award 2013

Received IET India Volunteer Award 2013

Received IET India Volunteer Award 2014

Received IET KKLN Outstanding Volunteer Award


Received VISION 2020 ENERGY CONTRIBUTOR AWARD 2018

Received IET KKLN RESEARCH EXCELLENCE AWARD 2016

Received IET KKLN ACADEMIC ACHIEVER AWARD 2016

Received MOTHER THERESA ENERGY AWARENESS AWARD from GREEN 9


International University Visited

 University of Sains Malaysia

 Sultan Qaboos University, Muscat

 Cambridge University, London

 Imperial College, London

 Technology University of PETRONAS, Malaysia
