

CURRICULUM VITAE



Hanifah binti Jambari

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Academic Qualifications

1. Doctor of Philosophy in Electrical Engineering
Universiti Teknologi Malaysia(UTM), Skudai, Julai 2009-2014
Title of Thesis: Pulsed Electric Field by Cascaded H-Bridge Multilevel Inverter to Inactivation of *Saccharomyces Cerevisiae* in Orange Juice
2. Master of Education (Technical)
Universiti Teknologi Malaysia (UTM), 1999-2001 (By Course)
Title of Thesis: Tinjauan Ke atas Aplikasi Pengajaran Kemahiran Pekerjaan Dalam Program Diploma Kejuruteraan Di Institut Teknologi Tun Hussein Onn
3. Bachelor of Electrical Eng. (Advanced Diploma)
Universiti Teknologi Mara(UiTM), 1993-1996
Title of Project: Ultrasonic Listening Device to detect partial discharge

Field of Interest

- Non Thermal Food Sterilization
- Technical and Engineering Education
- Power Electronics
- Pulsed Electric Field

Working Experiences

No	Employers	Designation	Year
1	PNB PCB Sdn. Bhd, Perindustrian Teberau, Johor	Technican	1992
2	Johor Coporation, Johor Bahru	Engineer	1996
3	Politeknik Ibrahim Sultan (PIS) Department of Electrical Engineering	Lecturer	2001 –13 January 2016
4	Universiti Teknologi Malaysia, Department of Technical and Engineering Education, Faculty of Education	Senior Lecturer	14 January 2016-until now

Teaching Experiences and Administrative Responsibilities

No	Teaching & Responsibilities	Notes
1	E4140 Industrial Electronics	DJK (Diploma of Electrical Engineering (Control) 5B (PIS)
2	ET 502 Power Electronics	DJK 6A
3	E5143 Motor Control	DJK 6
4	ET 201 Electrical Circuits	DEE (Diploma of Electrical Engineering (Electronic) 2B
5	E4821 Circuits Theory	DJK 6
2	E2004 Computer Aided Design 1	DJK 2
4	E4006/E5006 Project	DJK 5/DJK 6
5	E2003 Engineering Laboratory	SKE 2A/SKE 2C/DJK5/DJK6/DEE 2
6	Head of Supervisor Electronics Laboratory & Technology Electric	Electronics Laboratory & Technology Electric
7	Head of Industrial Electronics and Power Electronics Course	Department of Electrical Engineering
8	Member of Publication and Co-Curriculum Committee	Department of Electrical Engineering
9	Advisor of DKE 4A and DJK 3 programmed	Department of Electrical Engineering
10	Advisor of DJK 1A programmed year 2013	Department of Electrical Engineering
11	AJK Pameran & Galeria Konvo ke4	Politeknik Johor Bahru (PJB)
12	AJK Pendaftaran & Pemandu Graduan ke 5	PJB
13	AJK Pengurusan Graduan Konvo ke 11	PJB
14	Jawatankuasa Hubungan luar, Industri dan Masyarakat, Jabatan Pendidikan Teknikal dan Kejuruteraan (2016)	Universiti Teknologi Malaysia (UTM)

15	Ketua Bengkel Elektrik Jabatan Pendidikan Teknikal dan Kejuruteraan (2016)	UTM
16	Jawatankuasa Latihan Praktikal, Jabatan Pendidikan Teknikal dan Kejuruteraan (2016)	UTM
17	Jawatankuasa Pasca Siswazah(Post Graduate) , Jabatan Pendidikan Teknikal dan Kejuruteraan (2016)	UTM
18	Jawatankuasa Pasca Siswazah (Undergraduate), Jabatan Pendidikan Teknikal dan Kejuruteraan (2016)	UTM
19	Jawatankuasa Persidangan Antarabangsa dan Kebangsaan Pendidikan Teknikal dan Vokasional (2016)	UTM

Professional Memberships

No	Qualification Obtained	Year	Membership Number	Institution
1	Graduate Engineer	1997 –until now	26263	Board of Engineer(BEM)
2	Graduate Engineer	2010 – until now	43170	Institution of Engineer(IEM)
3.	Member	2009 - until now	90940350	Institute of Electrical and Electronics Engineer (IEEE)
4.	Membership	2012 - until now	120540	International Association of Engineer (IAENG)

Honorary And Awards

No	Items	Venue	Year
1	Awards of Excellent Services	PJB	2007
2	Silver Medal Award in 15 th Industrial Art and Technology Exhibition (INATEX)	UTM Skudai	2013
3	Bronze Award in Program Kolokium Penyelidikan dan Inovasi Peringkat Zon Selatan: Valid-8 Teaching and Learning.	Politeknik Ibrahim Sultan (PIS)	2013

Community Service / Consultancy

No	Items	Venue	Year
1.	Instructor for Autocad Level 1	PJB	2008
2.	Instructor for Student Training Program from UTHM	PJB	2008, 2014
3.	Lecturer for program “Executive Diploma in Electrical & Electronics Technology	UTM, Skudai	2008

4.	International Reviewer of ISIEA Conferences	Organiser : UiTM	2011-2012
5.	International Reviewer of PECON Conferences	Organiser: UiTM	2012
6.	International Reviewer of IAPEC Conferences	Organiser: UTM	2012
7.	International Reviewer of Indonesian Journal of Electrical Engineering Universitas Ahmad Dahlan	Organiser: Universitas Ahmad Dahlan, Indonesia	2009 until Now
8.	International Reviewer of World Applied Science Journal	Organiser: Noshirvani University Technology, Babol Iran	2013 until Now
9.	Panel For Colloquium on Research and Innovation PIS South Zone	Politeknik Sultan Ibrahim (PIS)	2013
10	Panel of Assessor for National Conference of Research and Innovation (NCORI)	PIS	2015
11	Speaker for Bengkel Penulisan Ilmiah	PIS	2015
12	Reveiwler for National ENVIROPOLY Research Seminar	Politeknik Sultan Idris Shah (PSIS)	2015
13	Speaker for 'MYGRANTS' JKE	PIS	2015
14	Reviewer for International Conference on Electrical and Electronic Engineering (IC3E)	UTHM	2015
15	Review Panel for Draft and Final Examination Scoring Rules JKE	PIS	2015
16	Reviewer for PSP's <i>Research Digest</i> ,	Politeknik Seberang Perai (PSP)	2015
17	Reviewer for Liga Ilmu Serantau	Politeknik Mersing Johor (PMJ)	2015
18	External Panel for Bengkel Penilaian dan Pemurnian Item, Program Diploma	Unit Latihan dan Pendidikan Lanjutan PIS	2016
19	Presenter for 'Bengkel Penulisan Ilmiah PIS	Bilik Seminar JKE	2016
20	Reviewer for Politeknik Ungku Omar (PUO) conference	PUO	2016
21	Reviewer for RCEE UTM conference	Kuala Lumpur	2016
22	Chairperson for AREITIC 2016 conference	Bandung	2016
23	Hakim Program Inovasi Fakulti Pendidikan UTM	Fakulti Bioscience dan Kejuruteraan UTM	2016

24	Editor Jurnal Persatuan Pendidikan Teknik Dan Vokasional Malaysia	Organiser: Persatuan Pendidik Teknik dan Vokasional Malaysia	2016
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Publications

JOURNALS

1. Hanifah Jambari, Naziha Ahmad Azli Mohamed Afendi Mohamed Piah. 'Comparison Of Pulsed Electric Field Generation Techniques For Microbial Inactivation Application'. Journal of Theoretical and Applied Information Technology 15th November 2011. Vol. 33 No.1
2. Hanifah Jambari, Naziha A. Azli, M. Afendi M. Piah: Bipolar Square Wave Pulses for Liquid Food Sterilization using Cascaded H-Bridge Multilevel Inverter. International Science Index. 2011, 59(53):266-272.
3. Hanifah Jambari, Naziha Ahmad Azli, Zaidah Rahmat, Mohamed Afendi Mohamed Piah, Yahya Buntat and Nur Huda Ramlan: Non Thermal Pasteurization for Orange Juice Using Pulsed Electric Field (In Progress: Advanced Science Letter) , 2016.

CONFERENCES

1. Hanifah Jambari, Naziha A. Azli, M.Afendi M. Piah: Cascaded H-bridge Multilevel Inverter Based Pulsed Power Supply for Liquid Food Sterilization. In: IEEE 4th International Power Engineering and Optimization Conf. (PEOCO2010), 23-24 June 2010; Shah Alam, Selangor, MALAYSIA; 2010.
2. Hanifah Jambari, Mohamed Afendi Mohamed Piah, Naziha Ahmad Azli: Simulation of Cascaded H-bridge Multilevel Inverter for Liquid Food Sterilization with Various Distance of the Electrodes Gap. In: IEEE Symposium on Industrial Electronics and Applications (ISIEA2011), 25-28 September 2011; Langkawi, Malaysia; 2011.
3. Hanifah Jambari, Naziha A. Azli, M. Afendi M. Piah: Bipolar Square Wave Pulses for Liquid Food Sterilization using Cascaded H-Bridge Multilevel Inverter. International Conference on Electrical, Computer, Electronics and Communication Engineering. ICECECE Paris, France. Nov 14-16. 2011.
4. Ishak Taman dan Hanifah Jambari: Pembangunan Penyelidikan Pelatih Pembelajaran (Educational Trainer Research Centre. In: Seminar Pendidikan Kebangsaan Pendidikan Teknikal dan Kerjaya. 21 Mei 2011.
5. Hanifah Jambari and Ishak Taman: Perbandingan Kaedah Pengajaran secara teori menggunakan Perisian Matlab/Simulink bagi topik Penerus Terkawal Elektronik Kuasa di Politeknik Johor Bahru. In: Seminar Penyelidikan dan Inovasi JKE. 13 Julai 2011.
6. Ishak Taman and Hanifah Jambari. Awareness of Engineering Lecturer In Southern Zone Polytechnic Malaysia to develop Educational Trainer Research Centre. International Conferences On Human Sustainability (INSAN 2014). UTHM. 9-10 April 2014.
7. Naziha Ahmad Azli; Hanifah Jambari. M. Afendi M. Piah; Nur Huda Ramlan.: Implementation of Cascaded H-bridge Multilevel Inverter for Liquid Food Sterilization using Pulsed Electric Field; IEEE Conference on Energy Conversion, CENCON 2014. 13-14 October 2014:316-320.
8. Nur Huda, Ramlan and Naziha, Ahmad Azli and Hanifah, Jambari : A Single Phase Hybrid Active Power Filter Using Unified Constant-Frequency Integration Control In: 2014 IEEE Conference on Energy Conversion (CENCON), 13-14 October 2014, Johor Bahru.

9. Hanifah Jambari, Naziha Ahmad Azli, Zaidah Rahmat, Mohamed Afendi Mohamed Piah, Yahya Buntat and Nur Huda Ramlan: Non Thermal Pasteurization for Orange Juice Using Pulsed Electric Field In: Advanced Research in Engineering and Information Technology International Conference (AREITIC), 31 May – 2 June 2016, Bandung Indonesia.

EXHIBITION

1. 15th Industrial Art and Technology Exhibition (INATEX) 2013: Cascaded Multilevel Inverter Pulsed Power Generator for Liquid Food Sterilization. Dewan Iskandar, UTM Johor Bahru. 2-4 October 2013.
2. Program Kolokium Penyelidikan dan Inovasi Peringkat Zon Selatan: Valid-8 Teaching and Learning. Centre of Technology, Politeknik Ibrahim Sultan. Pasir Gudang Johor. 12 December 2013.
3. Program Kolokium Penyelidikan dan Inovasi Peringkat Zon Selatan: PIC-SURE Teaching and Learning. Centre of Technology, Politeknik Ibrahim Sultan. Pasir Gudang Johor. 12 December 2013.
4. Malaysian Technology Expo 2014. PWTC Kuala Lumpur. 20-22 February 2014.

Languages Spoken/ Written

Bahasa Malaysia and English

Subject Teach in UTM

Autocad and Engineering Drawing

Previous Subjects teach in Polytechnic

Power Electronics, Principle Electric, Electric Circuits, Industrial Electronics, Analogue and Digital Electronics, Electronic control of Motor, Autocad 1, Circuit Analysis, Basic Programmable Logic Controller (PLC), Process Control.

Supervision Of Final Project In Polytechnic

1. Lourie Binti Ibrahim and Nazatul Hikmar Binti Mohamed. *Electronic Security Scooter*. Diploma In Electrical Engineering (Control). June 2002.
2. Tuan Fadli Effendy Bin Tuan Zainal Abidin and Syed Mohd Naqib Bin Syed Ahmad. *Sistem Pencegahan Kecurian dan Rompakan Kenderaan*. Diploma In Electrical Engineering (Communication). December 2002.
3. Azliyana Binti Ngadiman and Noraini Binti Sharan. *Unit Kawalan Jauh*. Diploma In Electrical Engineering (Communication). June 2003.
4. Zubaidah Binti Abdul Rahman and Chee Lee Yen. *Auto Flush Seated Water Closet*. Diploma In Electrical Engineering (Control). January 2004.
5. Fauziah Binti Jamaluddin and Fatimah Binti Puad. *Mesin Pengering Koko*. Diploma In Electrical Engineering (Electronics). January 2006.

6. Razman Bin Mohd Maulot and Muhamad Fitri Amir Bin Ramli. *Blower Fan Automatic*. Diploma In Electrical Engineering (Electronics). July 2006.
7. Zamri Bin Kassim and Zulkarnain Bin Abd, Rahim. *Tadahan Automatik*. Diploma In Electrical Engineering (Electronics). July 2006.
8. Mohd Nazmi and Mohamad Faris. *Smart Table Application*. Diploma In Electrical Engineering (Control). June 2008.
9. Mohd Nazir and Mohd Nazirul. *Electric Circuit Trainer Kits*. Diploma In Electrical Engineering (Control). December 2013.
10. Shahril and Virawan. *Portable Power Electronics Trainer*. Diploma In Electrical Engineering (Control). December 2013.
11. Mohd Azrin bin Arifin and Ummi Najwa binti Mohd Bakri. *Vibration Machine Grading sizes of 'Perna Viridis'*. Diploma In Electrical and Electronics. December 2015.

References

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Relevant Courses

A. Phd in Electrical Engineering

Doing research in power electronics circuit to generate pulses with suitable characteristics for liquid food sterilization using pulsed electric field to extend the shelf life of food.

B. Masters of (Technical) Education

Introduction to Education Research, Educational Psychology, Philosophy Education, Educational Technology, Introduction of Pedagogy, Philosophy Science & Social Development, Assessment in Education, Teaching Method, Human Resource Development in Education, Safety Practices at Work Place, Curriculum Development, Educational Sociology, Research in Education, Case Study in Education, Practical Teaching.

C. Bachelor in Electrical Engineering (Advanced Diploma) (Power Engineering)

Solid State Devices, Computing and Simulation, Circuit Theory III, Engineering Laboratory, Material Science, Series, Matrices and Vector Algebra, Linear System I, Linear System II, Digital System and Microprocessor, Electromagnetic Theory, Communication Engineering, Heat and Fluid, Numerical Analysis, Electronic III, Advanced Electrical Machine, Control System II, Statistics & Calculus, Business Organisation & Management, Engineer In Society, Power System II, High Voltage Engineering, Power Electronic II, Selected Topic (PLC & C++), Industrial Project.

D. Diploma in Electrical Engineering (Power)

Circuit Theory, Introduction to programming, Wave Heat, Sound & Optics, Practical Physics, Algebra 1&II, Electrical & Electronic Workshop, Electrical Technology, Electrical Engineering Laboratory, Electricity & Magnetism, Pure Mathematics, Statics & Dynamic, English, Islamic Education, Thermodynamics, Calculus, Instrumentation, Mini Project, Network Analysis, Electrical Machines, Power System, Electronics, Control System, Electrical Engineering Practise