



## PERSONAL DETAILS

**Name** : ASTUTY BT AMRIN  
**Gender** : Female  
**Date of Birth** : 18<sup>th</sup> JANUARY 1964  
**IC No** : 640118-01-6530  
**Nationality** : Malaysian  
**Marital Status** : Married  
**Permanent Address** : 28, Jalan Suakasih 3/1, Bandar Tun Hussein Onn  
43200 Cheras Selangor  
**Correspondent Address** : Razak Faculty of Technology and Informatics, UTM Kuala Lumpur,  
Jalan Sultan Yahya Petra, 54100 Kuala Lumpur  
**Tel** : (Mobile) : +60-0197318800 (Office): +60-0321805090  
(Fax): +60-0321805180  
**E-mail** : astuty@utm.my  
**Expertise** : Materials Science & Engineering, Corrosion and Corrosion Control,  
High Temperature Oxidation, Materials Characterization and Failure  
Analysis

## ACADEMIC QUALIFICATIONS

2005 : Ph.D. (Mechanical)  
Universiti Teknologi Malaysia (UTM)  
 1999 : M.Sc. (Corrosion Science & Engineering)  
University of Manchester Institute of Science & Technology (UMIST),  
United Kingdom  
 1988 : B. Sc. (Materials Engineering)  
Universiti Sains Malaysia (USM)

## AWARD AND HONORS RECEIVED

2020 : *Anugerah Pentadbir Terbaik*, DVCA Office UTM  
 2019 : *Anugerah Perkhidmatan Cemerlang* UTM  
 2019 : *Anugerah Jasa Setia* UTM  
 2018 : *Anugearah Khas* School of Graduate Studies, UTM  
 2017 : Most Inspiring Lecture, Citra Karisma UTM Razak School of  
Engineering & Technology  
 2012 : *Anugerah Perkhidmatan Cemerlang* UTM  
 2009 : *Sijil Jasa Bakti*, UTM

2006	:	<i>Anugerah Jasa Bakti</i> , Electron Microscopy Society of Malaysia
2005	:	<i>Anugerah Perkhidmatan Cemerlang</i> UTM
1988	:	<i>Anugerah Kepujian Universiti</i> , UTM
2017/18 (Semester 1)	:	Award of Excellence, Active Blended Learning, UTM <ul style="list-style-type: none"> <li>• MRSE- 01 Technology Management</li> <li>• MRSE- 02 Technology Management &amp;</li> <li>• MRSF- 01 Materials Selection &amp; Manufacturing</li> </ul>
2016/17 (Semester 1)	:	Award of Excellence, Active Blended Learning, UTM <ul style="list-style-type: none"> <li>• MRSE -01 Technology Management</li> </ul>
2016/17 (Semester 2)	:	Award of Excellence, Active Blended Learning, UTM <ul style="list-style-type: none"> <li>• MRSE -01 Technology Management</li> </ul>
2015/16	:	Award of Excellence, Active Blended Learning, UTM <ul style="list-style-type: none"> <li>• URSP 0013-01 Research Methodology</li> </ul>
2002	:	First Prize Winner, Poster Competition, 11 <sup>th</sup> Scientific Conf. Electron Microscopy Society Malaysia, Johor Bahru

## PROFESSIONAL MEMBERSHIP / QUALIFICATIONS / RECOGNITION

2019- Present	:	Director (Malaysia), Asia Professional Education Network
2016 – present	:	Member, Malaysia Council of Engineering Deans (MCED)
1992- present	:	Member, Swiss- ASEAN Learning & Teaching Association
1998- present	:	Life Member, Electron Microscopy Society of Malaysia
1997 - Present	:	Member, Institute of Materials Malaysia (IMM)
1997 - Present	:	Certificate in Radiation Protection (RPO), Atomic Energy Licensing Board Malaysia,
1988 - Present	:	Member, Board of Engineers Malaysia (Membership No: 17490)
2012 - present	:	Certified Practitioner The Malaysia TRIZ Innovation Association
2000-present	:	Certified Trainer on Metallography & Specimen Preparation- Buehler International

## ADMINISTRATIVE EXPERIENCE

### Faculty Level

2012-2014	:	<b>Programme Coordinator,</b> Double Masters Programme UTM-Meiji University, Japan
2012-2014	:	<b>Programme Coordinator</b> MSc (Engineering Business Management)
2010-2012	:	<b>Programme Coordinator (MEng (Mechanical-Materials))-Offshore</b> Faculty of Mechanical, UTM Skudai
2009-2012	:	<b>Programme Coordinator-Executive Diploma in Manufacturing Systems Engineering (Collaboration with PROTON)</b> Business & Advanced Technology Malaysia (BATC) UTM International Campus, Kuala Lumpur
2010-2012	:	<b>Programme Coordinator-Executive Diploma (Operations)</b> UTM Razak School of Engineering and Advanced Technology

2008-2010	:	<b>Programme Manager (Operations)- Executive Diploma &amp; Regeneration Unit</b> Business & Advanced Technology Malaysia (BATC) UTM International Campus, Kuala Lumpur
2006-2008	:	<b>Programme Coordinator (MEng (Mechanical-Materials)-Developed Curriculum MEng (Mech-Materials)</b> Faculty of Mechanical, UTM Skudai
2005 - 2007	:	<b>Head, Materials Science Laboratory</b> Faculty of Mechanical Engineering, UTM, Skudai
1996 - 2001	:	<b>Head, Materials Science Laboratory</b> Faculty of Mechanical Engineering, UTM, Skudai
1988 -1991	:	<b>Head of Foundry</b> Faculty of Mechanical Engineering, UTM, Skudai

### University Level

Aug 2019 - Present	:	<b>Dean</b> Razak Faculty of Technology and Informatics, UTM Kuala Lumpur
2018- Aug 2019	:	<b>Associate Chair (Deputy Dean)</b> School of Graduate Studies, UTM Kuala Lumpur
2017-2018	:	<b>Academic Manager (Corporate Relations)</b> School of Graduate Studies, UTM Kuala Lumpur
2015- 2017	:	<b>Academic Manager (Graduate Studies)</b> Razak School of Eng. & Advanced Technology, UTM Kuala Lumpur
1993 -1995	:	<b>Fellow (Student Residential College)</b> Kampung Belian, UTM Skudai

### NATIONAL LEVEL

2020	:	<b>Member</b> , Board of Studies, Bachelor of Materials Engineering (Hons) Kulliyah of Engineering, IIUM.
2018-2019	:	<b>Secretary</b> , Malaysia Postgraduate Dean Council (MDPS), Ministry of Education, Malaysia
2017 -2020	:	<b>Assessor for Programme Accreditation</b> Universiti Teknologi Petronas
2017-present	:	<b>Panel of Expert</b> Curriculum Development MSc in Corrosion Engineering Universiti Teknologi Petronas
2012-2014	:	<b>Education Committee</b> Institute of Materials Malaysia (IMM)
1998 - 2008	:	<b>Committee Member</b> Institute of Materials Malaysia (IMM) Southern Region

## OTHERS EXPERIENCE

### UNIVERSITY LEVEL

14 Aug 2019- 18 Okt 2020	:	<b>Senate Member,</b> UTM
2017-present	:	<b>Ahli,</b> Jawatan Kuasa Pengurusan, UTMKL
2019 -2020	:	<b>Member,</b> Jawatan kuasa Pemilihan Felo Pasca Doktoral (Pembelajaran & Pengajaran), UTM
2019	:	<b>Panel Penilai</b> Anugerah Kualiti Akademik 2019, UTM
2019	:	<b>Jury</b> 3 Minute Thesis (Semi-Finals) UTM
2018	:	<b>Committee Member (Biro Akademik)</b> Advisory Visit, Board of Architect Malaysia UTM Kuala Lumpur
2018-present	:	<b>Ahli Task Force</b> Program Khas dan Jarak Jauh Secara Terbuka (ODL), UTM
2018	:	<b>Panel</b> Temubual Biasiswa UTM Zamalah Sesi 2017/2018
2018	:	<b>Ahli</b> Jawatankuasa UTM Pesisir
2017	:	<b>Panel</b> Temubual Biasiswa UTM Zamalah Sesi 2017/2018
2016 -2018	:	<b>Member,</b> Technical Specifications Committee, MJIIT, UTM
2016 -2018	:	<b>Member,</b> Technical Evaluation Committee, MJIIT, UTM
2018 -present	:	<b>Ahli,</b> Jawatankuasa Eksekutif Timb Naib Canselor Akademik & Antarabanga, (JE TNCAA) UTM
2017-present	:	<b>Ahli,</b> Jawatankuasa Akademik Pengajian Siswazah Universiti (JAPSU), UTM
2017	:	<b>Advisor,</b> Postgraduate Student Society, UTM Kuala Lumpur
2016-2017	:	<b>Ahli,</b> Jawatankuasa Akademik Pengajian Siswazah Universiti (JAPSU), UTM
2016	:	<b>Academic Advisor/Supervisor (Florian Kaiser)</b> Mobility Program – Student Exchange Hamburg University of Applied Science, Germany – UTM Razak School, UTM KL
2016	:	<b>Jury</b> 3 Minute Thesis, UTM Kuala Lumpur
2015	:	<b>Panel Penilai</b> Proposal Geran Penyelidikan (GUP-Tier 1), UTM
2012	:	<b>Panel Penilai</b> Anugerah Kualiti Akademik UTM (Citra Karisma 2013)
2011	:	<b>Panel Penilai</b> Proposal Geran Penyelidikan (GUP), UTM
2010	:	<b>Deputy Chairman</b> Majlis Penyampaian Ijazah/Diploma Program Eksekutif UTM 2010
2010	:	<b>Panel Penilai</b> Anugerah Kualiti Akademik UTM (Citra Karisma 2011)

- 2009 : **Committee Member**  
*Majllis Konvokesyen BATC-UTMSPACE & University of Warwick*  
UTM International Campus
- 2008 : **Deputy Chairman**  
*Majllis Konvokesyen BATC-UTMSPACE & University of Warwick*  
UTM International Campus
- 2010 -2103 : **Committee Member (Biro Akademik)**  
Wanita Teknologi (WANGI)  
UTM Kuala Lumpur
- 2001-2002 : **Ahli**  
*Kumpulan Proses Akreditatsi Makmal*  
*Majlis Kualiti UTM*
- 1996 - 2001 : **Penyelia Sinaran**  
*Unit Perlindungan Sinaran UTM*
- 1999 - 2001 : **Setiausaha Badan Kebajikan**  
Faculty of Mechanical Engineering, UTM, Skudai
- 1994 - 1996 : **Committee Member**  
*Jawatan Kuasa Penyelaran Pengajaran & Pembelajaran*  
Faculty of Mechanical Engineering, UTM, Skudai
- 1993 -1999 : **Committee Member**  
*Jawatan Kuasa Latihan Industri*  
Faculty of Mechanical Engineering, UTM, Skudai

#### **NATIONAL APPOINTMENT/COMMITTEE**

- 10<sup>th</sup> March 2020 : **Judge**, Materials Lecture Competition (MLC)-Final, IIUM
- 21<sup>st</sup> Feb 2019 : **Judge**, Materials Lecture Competition (MLC)-Final, IIUM
- 2018 : **Panel Temuduga Penajaan Biasiswa**  
*Kementerian Pengajian Tinggi Malaysia*
- 2017 : **Committee Member**  
4<sup>th</sup> Workshop on sample Preparation and Microstructural Analysis (WSPMA 217)
- 2016 : **Committee Member**  
2<sup>nd</sup> Composite Materials & Manufacturing Symposium (CMMS 2014)
- 2014 : **Co-Chairman of Organising Committee**  
Seminar on Principles and Applications of Electrochemistry
- 2014 : **Deputy Chairman of Organising Committee**  
Seminar on Principles & application of Scanning Probe Microscopy (27<sup>th</sup> May 2015)
- 2007 : **Deputy Chairman of Organising Committee**,  
National Metallurgical Conference (NMC 2007)
- 2007 : **Chairman of Organising Committee**  
NMC 2017 Post-Conference Workshop on FESEM, UTM Skudai
- 2006 : **Chairman of Organising Committee**  
8<sup>th</sup> National Short Course on Advanced Metallography and Microstructural Analysis, Faculty of Mechanical Engineering, UTM, Skudai

2005	: <b>Treasurer/Facilitator</b> 7 <sup>th</sup> National Short Course on Advanced Metallography and Microstructural Analysis, Faculty of Mechanical Engineering, UTM, Skudai
2004	: <b>Committee Member</b> 5 <sup>th</sup> National Short Course on Advanced Metallography and Microstructural Analysis, Faculty of Mechanical Engineering, UTM, Skudai
2003	: <b>Committee Member</b> 4 <sup>th</sup> National Short Course on Advanced Metallography and Microstructural Analysis, Faculty of Mechanical Engineering, UTM, Skudai
2002	: <b>Committee Member</b> 11 <sup>th</sup> Scientific Conference of Electron Microscopy Society Malaysia, 17 – 18 December, Johor Baharu
2001	: <b>Secretary</b> 2 <sup>nd</sup> National Short Course on Advanced Metallography and Microstructural Analysis, Faculty of Mechanical Engineering, UTM, Skudai
2001	: <b>Committee Member</b> National Conference on Advanced Materials Development in Malaysia 2001, 15 <sup>th</sup> –16 <sup>th</sup> May 2001, Johor Bahru
2000	: <b>Chairman</b> 1 <sup>st</sup> National Short Course on Advanced Metallography and Microstructural Analysis, Faculty of Mechanical Engineering, UTM, Skudai

#### **INTERNATIONAL APPOINTMENT/COMMITTEE**

2020	: <b>International Committee Member</b> , Int. Conference on Materials Sc. & Nanotechnology, 21-22 Sept., London, UK
2020	: <b>Organising Committee</b> , Euro Materials Science 2020, 1-2 Sept. Paris, France
2020	: <b>Technical Committee</b> , 5 <sup>th</sup> International Conference on Advanced Functional Materials, ICAFM 2020, 13-15 Aug. Hawaii USA
2019	: <b>Chairman, Organising Committee</b> 1 <sup>st</sup> International Profesional Doctorate Symposium (IPDocS 2019)
2019	: <b>Committee Member</b> 3 <sup>rd</sup> International Conference on Material Science & Nanomaterials, United Kingdom, ICSMN 2019
2018	: <b>Chairman, Organising Committee</b> , Materials Lecture Competition, Institute of Materials Malaysia-Institute of Materials, Minerals & Mining (IOM3), United Kingdom
2017	: <b>International Advisory Committee</b> The 7 <sup>th</sup> International Thai Institute of Chemical Engineering and Applied Chemistry Conference (ITIChe 2017)
2017	: <b>Working Committee</b> International Corrosion Prevention Symposium For Research Scholars (CORSYM 2017)

3 <sup>rd</sup> – 5 <sup>th</sup> May 2017	:	<b>Event Coordinator</b> International Corrosion Prevention Symposium For Research Scholars (CORSYM 2017)
2015	:	<b>Advisor</b> International Conference on Engineering Business Management (ICEBM 2015)
2014	:	<b>Chairman, Organising Committee</b> International Conference on Engineering Business Management (ICEBM 2014)
2013	:	<b>Co-Chairman, Organising Committee</b> International Conference on Engineering Business Management (ICEBM 2013)
2013	:	<b>Co-Chairman, Organising Committee,</b> Symposium on Structural Materials, International Conference on Advancement of Materials and Nanotechnology, USM (ICAMN 2013)
2012	:	<b>Secretary,</b> Masterclass “Microbial Induced Corrosion” in conjunction with International Materials Technology Conference and Exhibition 2012
2011	:	<b>Committee Member</b> Regional Conference on Engineering Education (RCEE 2012)
2006	:	<b>Committee Member</b> International Conference on X-ray and related Industries (ICXRI 2006)
1994	:	<b>Committee Member</b> International Conference on Advanced Manufacturing Technology

## RESEARCH ACTIVITIES

### RESEARCH PROJECT UNDERTAKEN (Total Amount: RM1,742,300.00)

2019 - 2021	:	<b>GUP TIER 1:</b> Connecting Academic Entrepreneurs' Self-directed Learning to their Entrepreneurial Performance <b>(RM10,000.00)</b>
2019-2022	:	<b>GUP TIER 2:</b> Security and Risk Based models of Contingent Threat at Seaport in Malaysia <b>(RM30,000.00)</b>
2018-2020	:	<b>GUP TIER 1:</b> Low Cycle Fatigue Life Evaluation Thin walled Bend Pipe Under Static Load <b>(RM50,000.00)</b>
2017-2019	:	<b>GUP TIER 1:</b> Risk Assessment Frameworks Of Handling And Storage Of Cargo At Malaysia Ports. <b>(RM40,000.00)</b>
2017-2019	:	Safety Security Management Plan to Curb Football Fans Hooliganism at Stadium <b>(Dana Razak: RM32,000)</b>
2016-2018	:	<b>GUP TIER 1:</b> Enhancement of Mahalanobis Taguchi System Based on Swarm Intelligence for Multivariate Pattern Recognition, <b>(Vote 06355:RM40,000.00)</b>
2016-2018	:	<b>GUP TIER 1:</b> Closure Effect of Welding Residual Stresses on Penetration Nozzle of Pressure Vessels, <b>(Vote 06390:RM40,000.00)</b>
2016-2017	:	<b>GUP TIER 2:</b> Acoustical Performance Of Kenaf/Polypropylene Composite As A High Acoustic Absorber At Aircraft Hangar <b>(RM20,000.00)</b>

2014-2015	:	<b>PAS Grant:</b> Optimization of Heat Treatment on Microstructure effect of Ti-6Al (1-3%)Fe alloy for Aerospace Applications <b>(RM20,000)</b>
2012-2014	:	<b>GUP TIER 1:</b> High Temperature Oxidation And Creep Properties Of Fe-Ni-Cr Alloy For Steam Generator Application <b>(RM100,000.00)</b>
2012-2013 <b>(Project Leader)</b>	:	<b>GUP Tier 2:</b> Corrosion Behaviour of Zinc Coatings Fasteners for Automotive Applications, <b>(Vot 09J30: RM50,000)</b>
2011-2013	:	<b>GUP Tier 1:</b> High Temperature Oxidation of Fe-Ni-Cr Alloy for Nuclear Reaction Application, <b>(Vot 06415:100,000.00 )</b>
2002 -2005	:	<b>IRPA Grant,</b> High Temperature Performance of Titanium Aluminides for Aerospace and Automotive Applications <b>(Vot74009: RM294,000.00)</b>
2008 -2011	:	<b>INTEL,</b> Intermetallic Compound Formation on Immersion Silver Finish, <b>(Vot 68710:RM97,000.00)</b>
2007-2009	:	<b>Escience,</b> New Substrate Solder Finish for Lead-free Soldering <b>(Vot 79184:RM168,000.00)</b>
2005 - 2007	:	<b>IRPA Grant,</b> Bio-corrosion and Biofouling Control on Steel Surface, <b>(Vot 73202: RM100.000.00)</b>
1996-1999	:	Application of Locally Produced Steel Slag for Building and Roadwork Construction <b>(Vote 72259: RM152,000.00)</b>
1996 -1997	:	Potential Applications of Biofilm in Diverse Industrial Waters <b>(Vote: 71652: RM20,000.00)</b>

#### **FUNDAMENTAL RESEARCH GRANT SCHEME (FRGS FUND)**

2019 – 2021 <b>(Project Leader)</b>	:	<b>FRGS,</b> Investigation of Microstructure and Fatigue Behaviour on Newly Developed Ti-Al-Fe Alloys with Addition of Mo and Cu as Quaternary Elements. <b>(RM94,200.00) approved by KPM –August 2019</b>
2007-2009 <b>(Project Leader)</b>	:	<b>FRGS,</b> Oxidation on Ti-Al based Intermetallics with addition of alumina-forming elements, <b>(Vot 78056:RM106,100.00)</b>
2018-2020	:	<b>FRGS,</b> Photochemical Texturing Of Carbon Steel Cylindrical Surface For Tribological Optimization <b>(RM109,000.00)</b>
2016 - 2018	:	<b>FRGS,</b> Fatigue Effect on Impact Loaded Pipes with Flowing Liquid and Gas, <b>(Vot 07177: RM70,000.00)</b>

#### **CONSULTANCY/INDUSTRIAL NETWORKING**

2015 - 2017 <b>(Project Leader)</b>	:	Service of Material Testing and Technical Consultation, TNB Research <b>(RM 130,000.00)</b>
2006	:	Intel Penang: Short Course on Plating Process & Technology <b>(RM6,500.00)</b>
2006 <b>(Project Leader)</b>	:	Short Course on Engineering Materials & Manufacturing Technology <b>(RM 22,000.00)</b>
2005 -2008	:	Antara Steel, Pasir Gudang <b>(RM50,000.00)</b>
2005 -2008	:	KOMAG USA, Pasir Gudang <b>(RM 35,000.00)</b>
2005	:	TQR Engineering, Pasir Gudang <b>(RM5,000.00)</b>
2005 -2007	:	Hitachi Cable, Senai,Johor <b>(RM60,000)</b>



2006	:	Grand Batteries, Tampoi, Johor <b>(RM20,000.00)</b>
2006	:	MEM Engineering, Senai, Johor <b>(RM5,000.00)</b>
2005-2006	:	Reliance Precision Machining <b>(RM3,500.00)</b>
2005	:	Universal Cable, Tampoi, Johor <b>(RM20,000.00)</b>
2002	:	Shimano Components (M) Sdn. Bhd., Pontian <b>(RM10,000.00)</b>
2002	:	Tenaga Nasional Power Generation, Pasir Gudang <b>(RM3,500.00)</b>
2000	:	Perodua Manufacturing Sdn Bhd <b>(RM4,500.00)</b>
1999	:	Matsushita Precision Industrial Co <b>(RM5,000.00)</b>
1999	:	Epson Precision (M) Sdn Bhd <b>(RM5,000.00)</b>
1998	:	Stesen Janakuasa Sultan Iskandar Pasir Gudang <b>(RM6,500.00)</b>
1998	:	Outokumpu Copper Products, Pasir Gudang <b>(RM5,000.00)</b>
1997	:	Syarikat Perstima Pasir Gudang <b>(RM3,500.00)</b>
1997	:	PETFAR, Senai, Johor <b>(RM 2,500.00)</b>

## TEACHING ACTIVITIES

Year	Sem	Subject Code	Subject	Level	Credit
2019/2020	2	URSP 0013	Research Methodology	Masters	3
2019/2020	2	MRSE 2593	Technology Management	Masters	3
2019/2020	2	MRSE 1243	Materials Selection & Manufacturing Process	Masters	3
2019/2020	2	MRSE 2593	Technology Management	Masters	3
2019/2020	1	MRSP 1703	Creativity & Problem Solving	Masters	3
2018/2019	1	URSP 0013	Research Methodology	Masters	3
2018/2019	2	URSP 0013	Research Methodology	Masters	3
2017/2018	2	MRSE 2593	Technology Management	Masters	3
2018/2019	1	MRSE 1243	Materials Selection & Manufacturing Process	Masters	3
2018/2019	1	FRSB 2153	Maintenance Management	Diploma	3
2018/2019	2	FRSI 2153	Maintenance Management	Diploma	3
2017/2018	2	MRSE 1243	Materials Selection & Manufacturing Process	Masters	3
2017/2018	1	URSP 0013	Research Methodology	Masters	3
2017/2018	1	FRSB 2153 (P.u Pinang)	Maintenance Management	Executive Diploma	3
2017/2018	1	FRSB 2153 (KL)	Maintenance Management	Executive Diploma	3
2016/2017	2	URSP 0013	Research Methodology	Masters	3
2016/2017	1	MRSQ 2103	Materials Science	Masters	3
2015/2016	2	MRSE 2563	Creativity and Innovation	Masters	3

Management					
2015/16	2	URSP 0013	Research Methodology	Masters	3
2015/2016	1	URSP 0013	Research Methodology	Masters	3
2015/2016	1	MRSE 2563	Creativity and Innovation Management	Masters	3
2015/2016	1	FRSJ 1113 (P. Pinang)	Conventional Manufacturing Process	Executive Diploma	3
2015/2016	2	FRSB 2153	Maintenance Management	Executive Diploma	3
2014/2015	2	MDE 2563	Maintenance Management	Masters	3
2014/2015	2	SRSI 2803	Innovation & New Product Development	Bachelor	3
2014/2015	2	SRSI 2702	Materials for Design	Bachelor	3
2014/2015	1	SRSI 1203	Materials & Manufacturing Process	Bachelor	3
2014/2015	1	MDE 2563	Maintenance Management	Masters	3
2014/2015	2	UDP0010	Research Methodology	Masters	3
2014/2015	1	UDP0010	Research Methodology	Masters	3
2013/2014	2	UDP0010	Research Methodology	Masters	3
2013/2014	1	UDP0010	Research Methodology	Masters	3
2009/2010	2	DJJ 3703	Manufacturing Process	Diploma	3
2009/2010	1	DDJ 3603	Materials Science	Diploma	3
2008/2009	2	DDJ 3603	Materials Science	Diploma	3
2008/2009	1	MMB 1703	Advanced Materials Characterisation	Masters	3
2008/2009	1	MMB 1713	Corrosion I	Masters	3
2008/2009	1	SMU 3612	Materials Science	Bachelor	3
2007/2008	2	MMB 2713	Corrosion 2	Masters	3
2007/2008	2	SMM 4602	Materials Engineering	Bachelor	3
2007/2008	1	MMB 1713	Corrosion I	Masters	3
2007/2008	1	SMU 3612	Materials Science	Bachelor	3
2006/2007	2	SMB 5632	Corrosion & Quality Control	Bachelor	3
2006/2007	2	SMB 4643/ SMH3643	Materials Characterisation & Quality Control	Bachelor	3
2006/2007	1	SMB4653/ SMH 4653	Corrosion & Surface Protection	Bachelor	3
2006/2007	1	SMJ 4303	Non-destructive Test Technology	Bachelor	3
2005/2006	2	SMM 4951	Materials Sc. Lab (Modules)	Bachelor	3
2005/2006	2	SMM 2921	Materials Science Lab	Bachelor	1
2005/2006	1	SMM 2603	Materials Science	Bachelor	3
2005/2006	1	SME 1613	Materials Science	Bachelor	3
2005/2006	1	SME 3623	Materials Engineering	Bachelor	3
2005/2006	2	SME 1901	Engineering Lab 1	Bachelor	1

2005/2006	2	SME 2921	Engineering Lab 2	Bachelor	1
2005/2006	1	SRSI 1203	Materials & Manufacturing Process	Bachelor	3
2004/2005	2	SMU 3612	Materials Science	Bachelor	2
2000/2001	2	SMM 2921	Materials Science Lab	Bachelor	1
2000/2001	2	SMU 3612	Materials Science	Bachelor	3
2000/2001	2	SMJ 3931	Materials Science Lab 2	Bachelor	1
1999/2000	2	SMB 3623	Mechanical Properties of Materials	Bachelor	3
1999/2000	2	SME 2921	Engineering Lab 2	Bachelor	1
1999/2000	1	SMJ 3603	Materials Science	Bachelor	3
1999/2000	1	SMJ 3931	Materials Science Lab 2	Bachelor	1
1996/1997	2	DJJ 3171	Materials Science Lab	Diploma	3
1996/1997	2	SJJ 3603	Materials Science	Bachelor	3
1996/1997	1	DJJ 3602	Materials Science	Diploma	3
1996/1997	1	DJJ 3703	Manufacturing Process	Diploma	3
2017/2018	2	FRSB 2153	Maintenance Management	Executive Diploma	3
2017/2018	2	FRSH 1513	Materials Technology	Executive Diploma	3
2017/2018	2	FRSH 1113	Conventional Manufacturing Process	Executive Diploma	3
<b>TOTAL</b>					<b>189hrs</b>

## SUPERVISION

### PhD/Doctoral Student

Year	Name	Status	Title	Role
2019	Zati Hazira Ismail	Ongoing	Smell Dimension for Sustainable Material Products in Industrial Design	Main Supervisor
2019	Ghada Nabil Goher	Ongoing	The Moderating Role of Advanced Technology Factors on Skill Mismatch in United Arab Emirates	Co-Supervisor
2018	Franka Hendra Sukma	Ongoing	Risk Assessment Model for Train Industry in Indonesia	Co-Supervisor
2018	Huzaini Mohd Noor (Eng. Doc)	Ongoing	Critical Success Factor if Implementing A Computerized Maintenance Management System in Managing Facilities	Co-Supervisor
2018	Nur Suaili Ismail	Ongoing	Wear & Corrosion Resistance Coatings onto Steel Wire Ropes for Offshore Applications	Co-Supervisor
2017	Syahril bin Sudirman	Ongoing	Effect of Beta-stabilizer Quaternary Elements Addition in Ti-Al-Fe Alloy	Main Supervisor
2017	Siti Noryasmin Jaafar	Ongoing	Characteristics Nanofilm Formation Yttria Stabilized Zirconia Thin Films by Radio Frequency Magnetron	Main Supervisor

## Sputtering

2017	Mohamad Khairool Fahmy	Ongoing	Performance of Combined Ultraviolet and Ultrasound towards Microbially-Induced Corrosion of Mild Steels	Co-Supervisor
2016	Haryanti Yahya	Ongoing	Conversion of Palm Oil empty Fruit Bunch using Fast-pyrolysis Process for Production of Aviation Kerosene	Co-Supervisor
2015	Mohamed Hassan Salih Nouredin	Graduated	Performance Indicators For Heating, Ventilating and Air Conditioning (Hvac) System Maintenance	Co-Supervisor
2015	Suraya Mohd Nadzir ( <b>Best Postgraduate Award Recipient</b> )	Graduated ( <b>GOT-6 semester</b> )	Life Assessment Guideline for Oxidized T91 Superhetaer Tubes in Subcritical and Supercritical Boilers for Power Genaration Plant	Main Supervisor
2015	Nabiha Hashiim (Eng.Doc)	Ongoing	Service Quality of High Speed Broadband based Copper Cable Network in Telekom Malaysia	Co-Supervisor
2014	Noor Azam Md Saad	Ongoing	Strategic Business Transformation in a Power Generation Organization Using Lean Six Sigma	Main Supervisor
2014	Noorlizawati Abdul Rahim ( <b>MTDC Award Recipient</b> )	Graduated ( <b>GOT- 7 semester</b> )	Determinants of Academic Entrepreneurs' Opportunity Recognition Opportunity and Technology Transfer Pursuit	Main Supervisor
2013	Ayad Omran Abdalla	Graduated	Effect of Composition and Heat Treatment on Mechanical Properties of Ti-6Al(1-3%) Fe alloys	Main Supervisor
2011	Liza @ Sri Redzeki binti Mohd Anuar	Graduated	Establishment of Corrosion Test Procedures for Malaysia Climatic Conditions	Main Supervisor
2010	Noraziana bt Parimin	Graduated	High-Temperature Oxidation of Nuclear Reactor Materials	Co-Supervisor
2010	Norlaila bt Ramlee <b>*UiTM</b>	Graduated	Tetradentate Schiff-based As Ionic Scavengers Towards Increasing The Ionic Impedance of Organic Coating	Co-Supervisor
2008	Saliza Azlina bt Osman	Graduated	Interfacial Reactions Between Sn-Ag-Cu Lead-free Solders and Immersion Tin Surface Finish	Co-Supervisor
2010	Siti Rabiattull Aisha bt Idris	Graduated	Study on Interfacial Reactions between Pb-free Solder and alternative Surface Finishes	Co-Supervisor

**MSc. Student (Masters of Philosophy)**

Year	Name	Status	Title	Role
2018	Mohd Aezal Faim	Ongoing	Effect of Fe compositions on High Temperature Oxidation of Ti-6Al-(1-3%Fe)	Main Supervisor
2016	Nurfatin Liyana Mohd Amin	Graduated	Interfacial Reaction between Silicon wafer, Nickel Underlayer and Cu-Intermetallic Filler	Co-Supervisor
2014	Nuzul Haswani M Hanafi	Graduated (GOT)	Effect of Heat Treatment on Microstructure and Mechanical Properties on Service-Exposed Ni-Cr Superalloys Turbine Blade	Main Supervisor
2014	Yusli Mohd Junus	Ongoing	Effect of Sintering and annealing Temperatures on Metal Injection Moulding of Ti-6Al-4V Alloy	Co-Supervisor
2011	Dalila Syairah bt Mohamad Zubir	Graduated 2011-2015	Corrosion Performance of Zinc Coated Underhood Automotive Fasteners For Proton Models	Main Supervisor
2006	Siti Rabiattul Aisha bt Idris	Graduated 2006-2007	Interfacial reactions During Soldering of Sn-Ag-Cu Pb-free Solders on Immersion Ag and Electroless Ni immersion Gold Surface Finish	Main Supervisor
1999	Caroljit Kaur	Graduated 1999-2000	Biofouling Corrosion on Mild Steel	Co-Supervisor

**MSc. Taught Course (Masters Project Supervision)**

Year	Name	Status	Title	Roles
2020	Nur Balqis Rosli	On-going	Corrosion Mitigation Plan Management On The Refinery Reformer Unit	Main Supervisor
2020	Mohd Solleh Jamal	On-going	Occupational Stress Among Infantry Personnel In 2nd Royal Malay Regiment Battalion	Co-Supervisor
2019	Vivaganath Santharasilan	Graduated 2018-2019	The Challenges in Implementation of Industrial Revolution 4.0 at Electronic Industry In Seremban Malaysia	Main Supervisor
2018	Nanthakumaran Thulasy	Graduated 2018-2019	Ergonomic Risks on Musculoskeletal Disorder of Technical Staff at RMAF Gong Kedak Based	Main Supervisor
2017	Yoichi Matsuura	Graduated 2017-2018	Labour Protection on Social Insurance Coverage in Multilayer System of Japan Construction Industries	Main Supervisor
2017	K.Gangeswaran	Graduated 2017-2018	Visual Inspection Guidelines to Improve Optical (Ocular) Health of Visual Inspectors at Sandisk	Main Supervisor

2016	Ithnaini Muhammed Kamil	Graduated 2016-2017	Synthesis and Structural Characterisation of Zinc Oxide Thin Film by Thermal Evaporation of Zinc Powder	Main Supervisor
2016	Mohd Nizam Mahsan	Graduated 2016-2017	Integrated Contract Performance Monitoring at Crude Oil Terminal	Main Supervisor
2016	Han Xioaxia	Graduated 2016-2017	Success Factors of Japanese Hit Product Development Based on Process and Consumers Involvement	Main Supervisor
2016	Siti Nadirah Shamsudin	Graduated 2016-2017	Corrosion Prevention and Control Program Management for Royal Malaysian Air Force Aircraft	Main Supervisor
2015	Mohd Faiz bin Itam	Graduated 2015-2016	Risk of Insecticides Exposure on Foggers in Jabatan Kesihatan Negeri Kedah	Main Supervisor
2015	Md Khairul Amiza Hairudin	Graduated 2015-2016	Service Quality and Customer Satisfaction Index For Non- Destructive Testing Vendor	Main Supervisor
2015	Mat Azlan bin Shafie	Graduated 2015-2016	Quality Assessment of Locally Supplied Composite Materials For Aircraft Radome	Main Supervisor
2015	Rajkumar a/ Kaderasan	Graduated 2015-2016	Risk Assessment of Working in Confine Space of Ready Mixed Concrete Mixer	Main Supervisor
2014	Mohd Rosidi bin Romli	Graduated 2014-2015	Improvement of Employee Performance through Program for Associates Career Enhancement (PACE) in First Solar Malaysia	Main Supervisor
2015	Masafumi Todo	Graduated 2014-2015	Real Activities Manipulation in Japanese Construction Industry	Main Supervisor
2015	Nordeman Desa	Graduated 2014-2015	Improvement of Waste Reduction System for Dispenser Machine In Semiconductor Industry	Main Supervisor
2015	Azhar bin Kasim	Graduated 2014-2015	Functional Testing Improvement at Control System Unit in A Semiconductor Industry	Main Supervisor
2015	Mohd Arham Amirudin	Graduated 2014-2015	The V-Model System Engineering for the Development of Armoured Vehicle Electronic System	Main Supervisor
2013	Mohd Hafiz Baharudin	Graduated 2013-2014	Breakthrough Improvement of direct Material Waste Reduction in Assembly	Main Supervisor
2011	Syed Alwi Allhadas bin Tuan Zuber	Graduated 2011-2012	Improvement of Safety Culture among Contract workers at Gas Processing Plant Kerteh	Main Supervisor

2011	Lau Min Yit <b>(Merit)</b>	Graduated 2011-2012	Lean Manufacturing in PG7 INTEL Penang	Main Supervisor
2010	Khew Khak Keong	Graduated 2010-2011	Process Improvement of Construction Industries through TQM	Main Supervisor
2010	Lim Jin Keat	Graduated 2010-2011	INTEL BIOS Development Efficiency and Process Quality Improvement	Main Supervisor
2010	Hun Wah	Graduated 2010-2011	Business Improvement and Growth Strategy for Intel PDC Mask Layout Design House	Main Supervisor
2009	Tan Boon Meng	Graduated 2009-2010	Improvement of Product Heating Performance Using Design for Six Sigma	Main Supervisor
2009	Nur Shyhada Mohd Rodzi	Graduated 2009-2010	Breakthrough Improvement of direct Material Waste Reduction in Assembly Operation Using Lean Manufacturing	Main Supervisor
2009	Chandra Sekharan Ganapathy	Graduated 2009-2010	Improvement of the Effectiveness of Customer Service Support on CDSEM (Critical Dimension Scanning Electron Microscope) product	Main Supervisor
2009	Chan Hoe Kok	Graduated 2009-2010	Improvement of Gold Plate Assembly Productivity through Automation	Main Supervisor
2008	Mohamed Assnousi Ali	Graduated 2008-2009	Corrosion Behaviour of Austempered Grey Cast Iron (AGCI)	Main Supervisor
2007	Norlaila Ramlee	Graduated 2007-2008	Effect of pH, Temperature and Chloride Concentrations on the Corrosion of Welded 316L Stainless Steel	Main Supervisor
2007	Mohd Fauzi bin Abd Karim	Graduated 2007-2008	Corrosion Behaviour of Deformed Steel for Automobile Parts in Various Environments	Main Supervisor
2007	Tan Ming Jiun	Graduated 2007-2008	Effect of Alumina-Formers Addition on the Isothermal Oxidation of Ti-Al Based Intermetallics	Main Supervisor
2005	Abdul Shukur	Graduated 2005-2006	Electrical Discharge Machining of Ti-Al based Intermetallics	Co-supervisor
2007	Mustafa Bakri	Graduated 2005-2006	Ultrasonic Machining of Ti-Al Based Intermetallics	Co-supervisor

## **POSTGRADUATE EXAMINATION/VIVA-VOCE**

### **UTM STUDENTS/VIVA**

<b>Year</b>	<b>PhD/ MSc</b>	<b>Role Examiner/Chairman</b>	<b>Title</b>	<b>Name</b>
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2020	MPhil	Examiner	Effects Of Graphite Flakes And Graphene Oxide Reinforcement on Biotribological and Mechanical Properties of UHMW Polyethylene	Nurhidayah Shahemi
2019	PhD	Examiner	Rheological and Resistivity Properties of Gr-based Magnetorheological Elastomer For Sensor Applications	Muhammad Kashfi Sahbdin
2018	PhD	Examiner	Porous Stainless Steel 316L For Biomedical Applicatons Prepared by Foam Replication Method	Fazimah Mohd Noor
2018	PhD	Examiner	Laser Welding of Ti-51at%Ni, Ti-23at%Nb, Ti-35%Ta Shape Memory Alloys Produced by Powder Metallurgy	Abdollah Bahador
2017	PhD	Examiner	Microstructure and Properties of Ti-51at%Ni, Ti-23at%Nb and Ti-30at%Ta Shape Memory Alloys Fabricated using Microwave Sintering for Biomedical Applications	Mustafa Khaleel Ibrahim
2017	PhD	Examiner	The Behaviour of Magnetorheological Fluid Under combination of Flow and Shear Stress	Mohd Jamalullail Ahmad Mughni
2016	PhD	Examiner	Effect of Addition Elements and Superheating Melt Treatment on the Primary Mg <sub>2</sub> Si Morphology and Hardness of Al-Mg <sub>2</sub> Si-Cu Metal Matrix Composite	Nurazmah Nordin
2016	PhD	Examiner	Waste Tire Rubber Based Magnetorheological Elastomers	Ubaidillah
2016	PhD	Examiner	Performnce of Self Healing and Silicone Oxide Coatings on mild Steel Towards Microbially Induced Corrosion in Marine Environment	Abdel Salam Ibrahim Salem Ahdash
2016	PhD	Examiner	Fabrication and Annalysis of Ceramic Coated Material for Applicaton as An Automotive Turbocharger Turbine Volute Casing	Muhammad Rabiul Abbas
2015	PhD	Examiner	Application of Environmentally Friendly Conductive Polymer Coatings Towards Microbially Influenced Corrosion Inhibition of Mild Steels	Ahmad Abdolahi



2018	MPhil	Viva Chairman	Statistical Downscaling Modeling Of Rainfall Series Using Advanced Weather Generator In Peninsular Malaysia	Noor Shazwani binti Osman
2017	MPhil	Examiner	Enhancement of Chemical Treatment for Bamboo Using Box-Behken Design	Siti Amni Husna Roslan
2017	MPhil	Examiner	Synthesis and Characterization of Yttria and Stabilized Zirconia Nanofilms by Radio Frequency Magnetron Sputtering	Siti Noryasmin Jaafar
2017	MPhil	Viva Chairman	Key Success Measures Between Private Finance Initiative and Privatisation in The Malaysian Infrastructure Projects	Eza Azwa binti Razali
2016	MPhil	Examiner	Dynamic Rheological Properties of Carbonyl-Iron Particle Based Magnetorheological Grease	Norlizawati Mohamad
2015	MPhil	Examiner	A Novel Magnetorheological Elastomer Isolator with Engine Mounting Concept	Khairunnisa Mohd Hairuddin
2015	MPhil	Examiner	Effectiveness of Hybrid Soliwave Technique for Mitigating Risk of Microbially-Influenced Corrosion in Steel Pipelines	Muhammad Khairool Fahmy Mohd Ali
2015	MPhil	Examiner	Microbially-Influenced Corrosion of API X70 Carbon Steel Pipelines on Desulfovibro Vulgaris	Mardhiah Ismail

#### **PhD: EXTERNAL EXAMINER**

<b>Year</b>	<b>Name</b>	<b>Title</b>	<b>University</b>
2019	Farg Ibrahim Mohamed Haider	Investigation Copper Plating on Stainless Steel type 304L and 316L Against Metal Dusting Corrosion	IIUM
2018	Maisarah Binti Tajudin	Investigation on Properties and Failure Mechanisms of Developed Rattan Waste Binderless Board	IIUM
2016	Siti Khadijah Binti Alias	Remaining Life Estimation of T91 Steels Utilized in Power Plant Microstructural and Wear Characterization of Surface Attrited Boronized 304 Stainless Steel	UiTM
2015	Mohd Zamani Hamzah	Remaining Life Estimation of T91 Steels Utilized in Power Plants	UniTen
2013	Kee Chia Ching	Development of Carbonated Hydroxyapatite/Poly-L/Polyvinyl Alcohol Biocomposites	USM

**MSc: EXTERNAL EXAMINER**

Year	Name	Title	University
2019	Nor Shahida Kader Bashah	Development and Characterizations Of Silica-Biphasic Calcium Phosphate Coating Produced By Plasma Spray	USM
2019	Chayanutch Setajit	Development of Grease Resistant Packaging Paper	KMUTT Thailand
2018	Prema Sivanathan	A Study on the Effect of Leachable Chloride on Pitting Initiation of Austenitic Stainless Steel Under Thermal Insulation	UTP
2018	Nurhafizi Bin Zakaria	Reliability Study on The Effectiveness Of Sacrificial Anode Cathodic Protection On Corrosion Protection For Royal Malaysia Navy Ships	USM
2018	Nur Adriana Nazifa Binti Abu Bakar	The Effect of Grain Refinement to the Corrosion Behaviour of SAC 305 Solder	USM
2017	Harmiza Zainudin	Development of Magnesium-Silicon Substituted Carbonated Hydroxyapatite (Mg-Si CHA)	USM
2017	Ahmad Kamil Fakhruddin Bin Mohd Mokhtar	Fabrication of 3-D Porous Cordierite For Air Filter Application	USM
2016	Nurul Nadia Binti Mohd Salim	The Effect Of Sr and Sn Dopants on The Dielectric Properties of NiO	USM
2016	Zaw Lin Htun	Y <sub>2</sub> O <sub>3</sub> and CaO Zirconia as Reinforcement Hydroxyapatite Biocomposite	USM
2015	Nor Suhaida Binti Shahabudin	Optimization of Alumina Coated Scaffold Properties And Its Biocompatibility Assessment	USM
2014	Ahmad Hisham Bin Mohamed Aris	Microbially Influenced Corrosion of Mild and Stainless Steels in Pseudomonas Aeruginosa Enriched Artificial Seawater	UiTM
2014	Ooi Chee Heong	Urea Adsorption By Nanoporous Activated Carbon Derived From Empty Fruit Bunch And Palm Kernel Shell	USM
2013	Nur Hidayanti Binti Ahmad Barudin	Antibacterial And Cell Interaction Studies Of TiO <sub>2</sub> -Based Nanoparticles And Nanotubes	USM
2012	Chong Wee Loon		USM
2011	Abdul Rashid Jamaludin		USM
2010	Norarney Ahmad		USM

2010	Nguyen Xuan Thanh Tram	USM
2010	Hamisah Bt Ismail	USM
2008	Firmandika Harda	USM
2008	Mohd Fadley Bin Zakaria	USM

## PUBLICATIONS

### JOURNALS

#### ISI/WEB OF SCIENCE JOURNAL

1. Meysam Toozandehjani, Farhad Ostovan, Khairur Rijal Jamaludin, Astuty Amrin, Khamirul Amin Matori, Ehsan Shafiei (2020). Process–Microstructure–Properties Relationship in Al–CNTs–Al<sub>2</sub>O<sub>3</sub> Nanocomposites Manufactured by Hybrid Powder Metallurgy And Microwave Sintering Process, Transactions Of Nonferrous Metals Society Of China, 30(2020) 2339–2354, **Q1, IF: 2.615**.
2. Meysam Toozandehjani, Khamirul Amin Matori, Farhad Ostovan, Khairur Rijal Jamaludin, **Astuty Amrin**, Ehsan Shafiei (2020). The Effect of the Addition of CNTs on the Microstructure, Densification and Mechanical Behavior In Al-Cnt-Al<sub>2</sub>O<sub>3</sub> Hybrid Nanocomposites, The Minerals, Metals & Materials Society, 72, 2283-2294, **Q1, IF: 2.305**.
3. Zuritah A. Kadir, Roslina Mohammad, Norazli Othman, **Astuty Amrin**, Mohd Nabil Muhtazaruddin, Siti Hawa Abu-Bakar, Firdaus Muhammad-Sukki (2020). Risk Management Framework for Handling and Storage of Cargo at Major Ports in Malaysia towards Port Sustainability, Sustainability 2020, 12, 516. **Q2, IF: 2.592**.
4. M. Toozandehjani, F. Ostovan, E. Shafiei, K. R. Jamaludin, A. Amrin, E. Hasanzadeh (2020). Surface Treatment Of Al7075 Matrix By Tic Particles Via Hybrid Ball Milling And Tungsten Inert Gas Cladding, La Metallurgia Italiana International Journal Of The Italian Association For Metallurgy, 6, 21-30, **Q4, IF:0.452**.
5. Yusoff, Y., Mohd Zain, A. **Amrin, A.**, Sharif, S. Abdalla, Haron, H. and Sallehudin, R (2019). Orthogonal Based ANN and MultiGA For Optimization on WEDM of Ti–48Al Intermetallic Alloys, Artificial Intelligence Review. 52 (1), 671-706, **Q1, IF: 3.81**.
6. L. Anuar, **A. Amrin**, R. Mohammad, S. A. Aziz and M. Toozandehjani (2019). Development of Proving Ground Field Test for Establishment of Vehicle Accelerated Corrosion Test Procedure in Malaysia, International Journal of Automotive and Mechanical Engineering. 16 (1): 6348-6356, **Q4 IF: 0.32**.
7. Farhad Ostovan, Ehsan Hasanzadeh, Meysam Toozandehjani, Ehsan Shafiei, Khairur Rijal Jamaludin, **Astuty Amrin** (2019). A combined friction stir processing and ball milling route for fabrication Al5083-Al<sub>2</sub>O<sub>3</sub> nanocomposite, Materials Research Express 6 (6), 065012, **Q4, IF: 1.15**.

8. Rahim, N A, Mohamed, R B, Masrom and **Amrin, A** (2018). Construct Validity in Pilot Study: Application in Academic Entrepreneur Research. *Advanced Science Letter*. Vol. 24(5): 3224-3228.
9. Noraziana Parimin, Esah Hamzah and **Astuty Amrin** (2018). Effect of Exposure Time on the Oxide Growth of Fe-40Ni-24Cr, *Proceedings of Mechanical Engineering Research Day 2018 (MERD)*, 220-221.
10. Abdalla, A. O., **Amrin, A.**, Muhammad, S. and Hanim, M.A. (2017). Effect of heat treatment parameters on the microstructure and microhardness of Ti-6Al-4V alloy. In *AIP Conference Proceedings* (Vol. 1865, No. 1, p. 030001). AIP Publishing.
11. Liza Anuar, **Astuty Amrin**, Roslina Mohammad and Ali Ourdjini, Vehicle Accelerated Corrosion Test Procedures For Automotive In Malaysia, *MATEC Web of Conferences* 90 01040 (2017).
12. Roslina Mohammad, **Astuty Amrin** and Sallehuddin Muhamad (2015). Theoretical of Dynamic Loading Against Water-filled Simply Supported Pipes. *Jurnal Teknologi*, Vol. :85-91.
13. Noorlizawati Abd Rahim, Zainai B. Mohamed, **Astuty Amrin**. Commercialization of Emerging Technology: The Role of Academic Entrepreneur, *Proceedings of The 6th Indonesia International Conference on Innovation, Entrepreneurship, and Small Business (IICIES 2014)*, Bali , 12-14 August, 2014.

#### **SCOPUS INDEXED JOURNALS**

1. Noor Azam Md Saad, **Astuty Amrin**, Khairur Rijal Jamaludin (2019). Deployment of Lean Six Sigma in Practice, Challenges and Critical Success Factors. *Open International Journal of Informatics Special Session on Informatics in Industry*, 7 (1) 123-134.
2. Suraya Mohd Nadzir, **Astuty Amrin** (2019) Reduction of Creep Strength in T91 Superheater Tubes due to Thickening of Steam Oxide Scale on Internal Tube Surface, *Open International Journal of Informatics Special Session on Informatics in Industry*, 7 (1) 92-97.
3. **Astuty Amrin**, Aezal Muhammad Faim (2019) High Temperature Oxidation Behaviour of Substitution Vanadium with Iron in Ti-6Al-4V Metal Alloy: A Review, *Open International Journal of Informatics Special Session on Informatics in Industry*, 7 (1) 84-91.
4. **Astuty Amrin**, Ayad Omran Abdalla, Meysam Toozandehjani, Noorlizawati Abdul Rahim (2019) Microstructural Transformation by Compositional Modification of Ti-6Al-4V Alloy for Aerospace Applications, *Open International Journal of Informatics Special Session on Informatics in Industry*, 7 (1) 67-73.
5. Rahim, N. A., Mohamed, Z. B., **Amrin, A.**, Masrom, M. and Shariff, S. A., (2019). Conceptualization and Measurement of University Technology Transfer Office Efficiency As A Formative Construct. *International Journal of Engineering and Advanced Technology*, 8 (5c), 191-197.
6. F. Ostovan, E. Hasanzadeh, M. Toozandehjani, E. Shafiei, K. R. Jamaluddin, **A. Amrin** (2020) Microstructure, Hardness and Corrosion Behavior of GTAW Cladded Inconel 625 Super Alloy over A517 Carbon Steel Using ERNiCrMo3 Filler Metal, *Journal of Materials Engineering and Performance* (Accepted) **IF 1.476**.

7. M. Toozandehjani, F. Ostovan, K.R. Jamaludin, **A. Amrin**, K.A. Matori (2019), Non-destructive characterization of Al-Al<sub>2</sub>O<sub>3</sub> Nanocomposites Using Ultrasonic Velocity And Attenuation Measurements. Nondestructive Testing and Evaluation (Under review) **IF 1.735**
8. M. Toozandehjani, F. Ostovan, K.R. Jamaludin, **A. Amrin**, K.A. Matori, (2020), A Comprehensive Study on The Process-Microstructure-Properties Relationships In Hybrid Al-CNT-Al<sub>2</sub>O<sub>3</sub> Nanocomposites, Transactions of Nonferrous Metals Society of China (Accepted) **IF 2.338**
9. NA Rahim, ZB Mohamed, **A Amrin**, R Mohammad (2019) Women's Dual Roles and Career Growth: A Preliminary Study of Malaysian Female Talents in Science, Engineering and Technology (SET). Journal of Physics: Conference Series 1174 (1), 012013
10. N. Parimin, E. Hamzah and **A. Amrin**. Influence of the Heat Treatment on the isothermal oxidation of Fe-40Ni-24Cr Alloy (2018). Journal of Advanced Research in Fluid Mechanics and Thermal Science. Volume 49 (1): 69-76.
11. Amin, Z., Mohammad, R., Othman, N., Chelliapan, S., Aziz, S. A. and **Amrin, A.** (2018). Recent Review on Legislations Related to Risk Assessment for Confined Space. International Journal of Mechanical Engineering and Technology (IJMET), 9(1), 934-949.
12. Amin, Z., Mohammad, R., Othman, N., Chelliapan, S., Aziz, S. A. and **Amrin, A.** (2018). Recent Review on Standards Related to Risk Assessment for Confined Space. International Journal of Mechanical Engineering and Technology (IJMET), 9(1), 950-969.
13. Noor Azam M.S, **Astuty A**, and Khairur R. J. (2018). Strategic Business Transformation through Lean Six Sigma, International Journal of Industrial Engineering and Operations Management (IJIEOM) Volume 1, No. 1.
14. Abdalla, A. O., **Amrin, A.**, Muhamad, S. and Hanim, M. A. (2017). Development of Iron (Fe) Additions Approach for Cost Reduction in Ti-Alloy-A Review. International Journal of Materials and Product Technology, 55(1-3), pp.56-73.
15. Abdalla, A. O., **Amrin, A.**, Muhammad, S., and Hanim, M. A. (2017). Microstructures and Hardness of Newly Designed Ti-6Al-(1-3) Fe Alloys. Applied Mechanics and Materials, Vol. 864, pp. 142-146.
16. Abdalla, A. O., **Amrin, A.**, Muhammad, S., and Hanim, M. A. (2017). Iron as a Promising Alloying Element for the Cost Reduction of Titanium Alloys: A Review. Applied Mechanics and Materials (Vol. 864, pp. 147-153).
17. Abdalla, A. O., **Amrin, A.**, Mohammad, R and Hanim, M. A. (2017). Microstructural Study of Newly Designed Ti-6Al-1Fe Alloy through Deformation. Solid State Phenomena. (Vol. 264, pp 54-57).
18. Suraya M.N.; **Astuty. A.**; Badrol. A. and Roslina.M. (2017). Quantification of Creep Damage by Atomic Force Microscopy. Procedia Engineering, Vol. 184: 390-398.
19. Harun, M. F., Mohammad, R., Othman, N., Chelliapan, S. and **Amrin, A.** (2017). Methods for Estimating the Fatigue Properties of UNS C70600 Copper-Nickel 90/10. International Journal of Mechanical Engineering and Technology (IJMET), 8(11), 510-527.

20. Harun, M. F., Mohammad, R., Othman, N., Chelliapan, S. and **Amrin, A.** (2017). Recent Advancements in Investigations of Elbow Pipe Fatigue under Various Loading Conditions. *International Journal of Mechanical Engineering and Technology*.
21. Amin, Z., Mohammad, R., Othman, N., Chelliapan, S., Aziz, S. A. and **Amrin, A.** (2017). A Review on Guidelines Related to The Risk Assessment of a Confined Space. *International Journal of Mechanical Engineering and Technology (IJMET)*, 8(11),423-448.
22. Kadir, Z. A., Mohammad, R., Othman, N., Chelliapan, S. and **Amrin, A.** (2017). Review on Risk, Risk Assessment Techniques, Guidelines and Framework in Port Safety. *International Journal of Mechanical Engineering and Technology (IJMET)*, 8(11), 812-838.
23. Kadir, Z. A., Mohammad, R., Othman, N., Chelliapan, S. and **Amrin, A.** (2017). Risk Assessment of Human Risk Factors in Port Accidents. *International Journal of Mechanical Engineering and Technology (IJMET)*, 8(11), 535-551.
24. Noorlizawati Abd Rahim, Zainai Mohamed, **Astuty Amrin** (2016). Stimulating Technology-Based Start-Ups: Entrepreneurship Initiatives by University, *Journal of International Business and Marketing*, Vol. 1(6): 12-16.
25. Noureldin, M.H.S., **Amrin, A.**, Sarip, S., Khawaja, G.Y. and Mahmoud, A.G. (2017) Factors Affecting HVAC System Maintenance - Abu Dhabi – UAE. *International Journal of Electrical and Electronics Research ISSN 2348-6988 (online)* Vol. 5, Issue 4, pp 1-34.
26. Salih M.H, **Astuty Amrin**, Shamsul Sarip and Abdel Gadir (2016). Simulation of Operational Faults on Heating, Ventilation, Air-conditioning Systems Comprising Energy Consumption of Abu Dhabi Future Schools. Vol. 4: 97-106.
27. **Astuty Amrin**, Dalila Syaira M.Z., Liza M.A and Aezal M.F (2015). Evaluation of Corrosion Performance of Zinc-Plated Underhood Automotive Fasteners Using Salt Spray Test, *Key Engineering Materials*, Vol.659: 560-564.
28. **Astuty Amrin** and Nuzul Hazwani (2015), Microstructural and Phases Analyses of Service-exposed Ni-Cr Superalloy Turbine Blades, *Key Engineering Materials*, 659: 340-344.
29. Noraziana Parimin, Esah Hamzah and **Astuty Amrin** (2015). Grain Size Effect on the Oxidation of Fe-33Ni-19Cr at 700°C, *Applied Mechanics and Materials* Vol. 699:151-156.
30. Noorlizawati Abd Rahim\*, Zainai B. Mohamed, **Astuty Amrin** (2014) Commercialization of Emerging Technology: The Role of Academic Entrepreneur, *The Asian Journal of Technology Management*. Vol. 7(2): 22-26.
31. Noraziana Parimin, Esah Hamzah, **Astuty Amrin** (2014). Effect of Grain Size on the Isothermal Oxidation of Superalloys, *Advanced Materials Research*, Vol. 845: 56-60.
32. Noraziana Parimin, Esah Hamzah and **Astuty Amrin** (2013). Effect of Grain Size on the Isothermal Oxidation of Superalloys. *Advances in Environmental Biology*, Vol. 7(12) October Special Issue: 3720-3725.
33. Saliza Azlina Osman, Ali Ourdjini, **Astuty Amrin** and Siti Rabiattul Aisha Idris (2014). Effect of Solder Volume on Interfacial Reaction Between SAC405 Solders And EN(B) Epig Surface Finish, *Advanced Materials Research*, Vol. 84: 78-80

34. O. Saliza Azlina, A. Ourdjini, **A. Astuty** and I. Siti Rabiattul Aisha (2012). Effect of Nickel Doping on Interfacial Reaction between Lead-free Solder and Ni-P Substrate, *International Journal Advanced Material Research*, Vol. 488-489:1375-1379.
35. O. Saliza Azlina, A. Ourdjini, **A. Astuty**, I. Siti Rabiattul Aisha and M.A. Azmah Hanim (2012). Effect of Different Aging Temperature on Interfacial Reaction between SAC305 and ENEPIG Surface Finish, *International Journal Advanced Material Research*, Vol. 415-417:1181-1185
36. Ayad Omran Abdalla, **Astuty Amrin** and Mohamed Abdel-Hady Gepreel (2014). Microstructural Analysis of Different Solution Treatment of Ti-6Al-4V alloys, *Jurnal Teknologi*, Vol 58: 114-119
37. Rozzeta Dolah, Hamidon Musa, **Astuty Amrin** (2011). Etching Performance Improvement on Semiconductor Surfaces, *Jurnal Teknologi*. Vol. 55:53-65.
38. Siti Rabiattul Aisha, A. Ourdjini, **Astuty Amrin** and O. Safoura (2010). Effect of Doping in Sn-Ag-Cu solders on Intermetallic Compound Formation with Silver and Bare Copper Surface Finish, *International Journal of Modern Engineering, IJME*, Vol. 20: 70-76
39. **A. Amrin**, E. Hamzah, M.N Tamin, F.H Stott and G.C Wood (2004). Influence of Oxidizing Environment to the Scale Formation of Ti-Al Based Intermetallics. *Journals Institute of Materials, Malaysia*, Vol 5: 89-95.
40. **A. Amrin**, E. Hamzah, M.N Tamin, F.H Stott and G.C. Wood (2002). Surface Morphology of Ti-Al Based Intermetallics Oxidised Between 700oC to 1100oC for 150 hours. *Journals Institute of Materials Malaysia*, Vol. 3: 25-30
41. Noor Azam M.S, **Astuty A**, and Khairur R. J. (2019). Strategic Deployment of Lean Six Sigma in Managing Escalating Inventory Issue. *Journal of Advanced Research in Applied Science and Engineering Technology* (under review)
42. Amin, Z, Mohammad, R, Othman, N, **Amrin**, A, Chelliapan, S, Aziz, S.A, Maarop, N. (2017) A review on guidelines related to the risk assessment of a confined space, *International Journal of Mechanical Engineering and Technology*, 8 (11), 423-448.

#### **NON-INDEXED:PROCEEDINGS/CONFERENCE/ SEMINARS/WORKSHOPS**

1. Mohd Amin, Nurfatina Liyana; Rahim, Muhamad Khairudin; Fadil, Nor Akmal; **Amrin, Astuty**. (2020). The Effect of Temperature on Nickel Deposited as an Underlayer Between Copper Filler and Silicon Wafer, *Journal of Computational and Theoretical Nanoscience*, Volume 17, Number 2-3, February 2020, pp. 1271-1274(4).
2. Suraya MN, **Astuty A**. (2020) Condition Monitoring of T91 Superheater Tubes Through Measurement of Internal Oxide Scale Thickness, *Test Engineering & Management*, May to June 2020 ISSN: 0193-4120 Page No. 1193 – 1197.
3. Rahim, N. A., Mohamed, Z. B., **Amrin, A.**, Masrom, M. (2019). The Significance of Professional, Personal and Business Networks to Academic Entrepreneurs. *Innovation and Technology Management Conference (ITMC)*. 21-22 September. Johor, Malaysia.
4. Rahim, N. A., Mohamed, Z. B., Amrin, A., Masrom, M. (2019). From Lab to Market: Challenges Faced by Academic Entrepreneurs. *International Conference of Industrial*

*Engineering, Technology Management and Knowledge Science (IETechS)*. 29-30 September. Melaka, Malaysia.

5. M. K. Fahmy. M. A, Norazilan M. N., **Astuty A.**, Nordin Y., Shamila A. and Akrima A.B., Ultrasound As A Pre-Treatment Technique To Ultraviolet Disinfection For Microbial Corrosion Control: An Overview, *Proceedings 7<sup>th</sup> International Graduate Conference on Engineering, Technology, Social Science and Humanities*, 13-15<sup>th</sup> August 2018, UTM, Johor Bahru.
6. Noorlizawati A.R, Zainai M., **Astuty A.** and Roslina M., Women's Dual Roles and Career Growth: A Preliminary Study of Malaysian Female Talents in Science, Engineering and Technology (SET), *2<sup>nd</sup> International Conference for Women in Science, Engineering & Technology (WISSET 2018)*, 17-19 July 2018, KLCC.
7. Noor Azam M.S, **Astuty A.**, and Khairur R. J., Deployment of Lean Six Sigma in Business Process Transformation, *8<sup>th</sup> International Conference on Industrial Engineering and Operations Management (IEOM 2018)*, March 6-8, 2018, Hilton Hotel, Bandung, Indonesia.
8. Suraya M.N.; **Astuty. A.**, Busroh. H. and Roslina.M., Effect of Steam Oxidation on Creep Strength of T91 Superheater Tube, *3<sup>rd</sup> International Materials, Industrial and Manufacturing Conference (MIMEC 2017)*, 6-8 December 2017, Meritz Hotel, Miri, Sarawak, Malaysia.
9. Noraziana Parimin, Esah Hamzah and **Astuty Amrin**. Influence of Grain Size on the Isothermal Oxidation of Fe–40Ni–24Cr Alloy, *Proceedings of the Second International Conference on the Future of ASEAN (ICoFA) Univerisiti Teknologi MARA, Arau Perlis, 2017 – Volume 2: 777-786*
10. **Astuty Amrin**, Ayad Omran Abdalla, Salehuddin Muhammad and M.A. Azmah Hanim. Effect of Heat treatment and Parameters on The Microstructure Microhardness of Ti-6Al-4V Alloy, *The 3<sup>rd</sup> International Conference of Global Network for Innovative Technology (IGNITE)*, 27-29 January 2016, Evergreen Laurel Hotel, Penang, Malaysia.
11. **Astuty Amrin**, Ayad Omran Abdalla, Salehuddin Muhammad and M.A. Azmah Hanim. Microstructures and Hardness of Newly Designed Ti-6Al-(1-3)Fe Alloys, *2<sup>nd</sup> International Conference on Advanced Material and Engineering Structural Technology*, 18-20 November 2016, Ramada Plaza Hotel, Jeju Island, Korea
12. **Astuty Amrin**, Ayad Omran Abdalla, Salehuddin Muhammad and M.A. Azmah Hanim. Iron as a Promising Alloying Element for the Cost Reduction of Titanium Alloys: A Review, *2<sup>nd</sup> International Conference on Advanced Material and Engineering Structural Technology*, 18-20 November 2016, Ramada Plaza Hotel, Jeju Island, Korea
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14. Suraya M.N.; **Astuty. A.**; Badrol. A. and Roslina.M., Quantification of Creep Damage by Atomic Force Microscopy, *Advances in Materials & Processing Technologies Conference (AMPT)*, 8-11 November, 2016, Pullman Hotel, Bangsar, Kuala Lumpur.
15. Suraya M.N.; **Astuty. A.**, Badrol. A. and Roslina. M., Development of Oxide Scale Formation on grade T91 steel at 540°C for Different Exposure Time. *25<sup>th</sup> Scientific Conference Microscopy Society Malaysia (25SCMSM)*, 7-9 December 2016, Hotel Bangi-Putrajaya, Selangor, Malaysia.



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17. Suraya M.N.; **Astuty. A.**, Badrol. A. and Roslina.M., Creep Behaviour Of P91 Steel At Different Working Pressures, IMTCE 2016, *10<sup>TH</sup> International Material Technology Conference & Exhibition*, 16-18 May 2016, PWTC, Kuala Lumpur.
18. Suraya M.N.; **Astuty. A.**, Badrol. A. and Roslina.M., Isothermal and Steam Oxidation Behavior of T91 Steel, IMTCE 2016, *10<sup>th</sup> International Material Technology Conference & Exhibition*, 16-18 May 2016, PWTC, Kuala Lumpur
19. **Astuty Amrin**, Nuzul Hazwani and (2015), Effect of Heat Treatment cycle on the Microstructure of Service-exposed Ni-Cr Superalloy Turbine Blades, *10<sup>th</sup> South East Asia Technical University Consortium (SEATUC) Symposium*, 22-24 Feb 2016, Shibaura Technology University, Japan.
20. Ayad Omran Abdalla, **Astuty Amrin** and Mohamed Abdel-Hady Gepreel. Microstructural analysis of Different Solution Treatment Temperatures for Ti-6Al-4V, *Proceedings International Conference on International Conference On Engineering, Technology And Applied Business 2014 (ICETAB 2014)*, 4 December 2014, Batam Indonesia
21. Nuzul Hazwani Mohamad Hanafi, **Astuty Amrin**. Microstructural and Phase Analysis of Service-Exposed Ni-Cr Alloy Turbine Blade. *Proceedings 8<sup>th</sup> International Conference on Materials and Technology (MSAT)*, 15-16 December, Bangkok Thailand
22. **Astuty Amrin**, Dalila Syairah Mohamad Zubir, Liza Mohd Anuar and Abdul Rahim Ishak. Corrosion Evaluation Of Zinc-Plated Underhood Automotive Fasteners Using Salt Spray Test., *Proceedings 8<sup>th</sup> International Conference on Materials and Technology (MSAT)*, 15-16 December, Bangkok Thailand.
23. Noorlizawati Abd Rahim, Zainai B. Mohamed, **Astuty Amrin**. Commercialization of Emerging Technology: The Role of Academic Entrepreneur, *Proceedings of The 6th Indonesia International Conference on Innovation, Entrepreneurship, and Small Business (IICIES 2014)*, Bali , 12-14 August, 2014
24. Noraziana Parimin, Esah Hamzah and **Astuty Amrin**. Influence of Solution Treatment on The Oxidation Behaviour of Fe-Ni-Cr alloy. *Proceedings of 9<sup>th</sup> International Materials Technology Conference and Exhibition (IMTCE2014)*.
25. **Astuty Amrin**, Ayad Omran Abdalla, Roslina Mohammad and Shamsul Sarip. Review on the Effect of Alloying Elements on Ti-6Al-4V for Structural Materials. *Proceedings International Conference on Advancement of Materials and Nanotechnology (ICAMNN II)*, 19-22 November 2013, Penang-Invited Speaker
26. Saliza Azlina Osman, Ali Ourdjini, **Astuty Amrin** and Siti Rabiattul Aisha Idris. Effect of Solder Volume On Interfacial Reaction Between SAC405 Solders And EN(B) Epig Surface Finish, *Proceedings 1st International Materials, Industrial, and Manufacturing Engineering Conference (MIMEC2013)*., 4-6 December 2013, Johor Bahru.
27. Noraziana Parimin, Esah Hamzah and **Astuty Amrin**, Effect of Grain Size on the Isothermal Oxidation of Superalloys, *Proceedings International Conference on Advanced Materials Engineering and Technology (ICAMET 2013)*, 28-29 November, Bandung Indonesia.

28. Zalina Mohd Daud, Sabariyah Din, Roselainy Abdul Rahman and **Astuty Amrin**, Human Resource Development through Industry-focused Executive Education, *Proceedings 2<sup>nd</sup> International Engineering and Technology Education Conference (IETEC)*, Ho Chin Mih City Vietnam, 2-6 November 2013.
29. N. Parimin, E. Hamzah and **A. Amrin**. Effect of grain size on the isothermal oxidation of Fe-33Ni-19Cr Alloys at 700 °C. *Proceedings of 1st International Materials, Industrial, and Manufacturing Engineering Conference (MIMEC 2013)*. 4-6 December, 2013, Johor Bahru
30. Mohd Faiz bin Abdul Razak, **Astuty Amrin**, and Shamsul Sarip, Maritime Enforcement Agencies Maintenance Management of Ship through Reliability Centered Maintenance. *Proceedings, 2nd International Conference on EBM 2013*, 27-28 August 2013, Hotel Istana Kuala Lumpur.
31. Noraziana Parimin, Esah Hamzah and **Astuty Amrin**. Grain Size Effects on the Oxidation of Fe-33Ni-19Cr Alloy at 700 °C. *Proceedings of 3rd International Conference and Exhibition on Sustainable Energy And Advanced Material (ICE-SEAM 2013)*. Accepted for publication in Applied Mechanics and Materials.
32. Noraziana Parimin, Esah Hamzah, **Astuty Amrin** and Maureen Mudang. Effect of solution treatment temperature on the microstructure of Fe-Ni-Cr alloy. *The 8<sup>th</sup> International Materials Technology Conference and Exhibition (IMTCE2012)*, 9-12 July 2012, unway Resort & Spa, Kuala Lumpur, Malaysia.
33. Norlaila Ramlee, Siti Najihah Abu Bakar, Mohamad Kamal Harun, Hadariah Bahron, Muhd Zu Azhan Yahya and **Astuty Amrin**. Application of Novel Schiff Bases as Corrosion Inhibitors for Mild Steel in 1 M Hydrochloric Acid. *Proceedings International Conference on Advanced Material and Manufacturing Science (ICAMMS 2012)*, 20-21 December 2012, Beijing, China.
34. Rozzeta Dolah, Hamidon Musa, **Astuty Amrin**. Optimization of an Isotropic Etching Process on silicon Wafers, *Proceedings 34<sup>th</sup> International Electronics Manufacturing Technology Conference (IEMMT 2010)*, 30 Nov -2 Dec 2010, Melaka, Malaysia.
35. E. Hamzah, M. Kanniah and **A. Amrin**, Influence of Chromium on Creep and Oxidation Behaviour of Gamma Titanium Aluminide, *International Conference on Materials and Metallurgical Technology (ICOMMET 2009)*, Surabaya, Indonesia, **Keynote Paper**
36. Nor Akmal Fadil, K. Noda, Muhammad Zaimi and **Astuty Amrin**, Corrosion Behavior of Electroless Ni-Co-P Thin Film on Fe Substrate in Different Plating Bath Conditions, *Proceedings of 120th Surface Technology Society Conference*, Tokyo, September, 2009
37. Siti Rabiatal Aisha, A. Ourdjini and **A. Amrin**, Effect of Bismuth Percentage on Intermetallic Compound Formation with Immersion Ag and Cu Substrate, *Proceedings of International Conference on Electronics Materials and Packaging (EMAP)*, 2009.
38. Nor Akmal Fadil, K. Noda, Muhammad Zaimi and **Astuty Amrin**. Corrosion Behavior of Electroless Ni-Co-P Thin Film, *Proceedings of 17<sup>th</sup> International Conference on Composites or Nano Engineering*, Hawaii, July 2009
39. Siti Rabiatal Aisha, A. Ourdjini, **A. Amrin** and O. Saliza Azlina, Effect of Ag Content on Intermetallics Formation on Copper and Immersion Silver Surface Finishes, *Proceedings the 2nd International Conference of Green Technology Conference (ICGTE)*, 2008.

40. **A.Amrin**, E.Hamzah and F.H Stott (2008). Development of Oxides Scale formation on High Temperature Oxidation of Ti-Al based Intermetallics, *Proceedings. 2<sup>nd</sup>. South East Asia Technical University Consortium Conference (SEATUC), Bandung, Indonesia, Feb 2008*.
41. Siti Rabiatal Aisha, A. Ourdjini , **A. Amrin** and O. Saliza Azlina, Effect of Solder Volume and PAD Area on Intermetallilc Compound Formation during Soldering Sn-4Ag-0.5Cu and Immersion Silver Finishes, *International Graduate Conference on Engineering and Science (IGCES)*, 2008
42. **A. Amrin**, E.Hamzah, F.H Stott and G.C Wood, Effect of Chromium on the Oxidation Behaviour of Ti-Al based Intermetallics at 900°C and 1100°C, *Proceedings 2<sup>nd</sup> BSME – ASME International Conference on Thermal Engineering. Dhaka, Bangladesh Jan 2004*.
43. **A.Amrin**, E.Hamzah, M.N Tamin, F.H Stott and G.C. Wood, Oxidation Behaviour of Ti-Al Based Intermetallics at 900°C: Isothermal and Cyclic Conditions, *Proceedings The XXI Regional Conference and Workshop on Solid State and Technology, Kota Kinabalu, Sabah, November 2004*.
44. **A.Amrin**, E.Hamzah, M.N Tamin, F.H Stott and G.C Wood, Influence of Oxidizing Environment to the Scale Formation of Ti-Al Based Intermetallics *Proceedings of 4<sup>th</sup> Int. Materials Technology Conference & Exhibition, Kuala Lumpur, April 2004*.
45. A. Ourdjini, **Astuty Amrin**, and K. T. Wong, Microscopic Investigation of the Intergranular Corrosion of an Al-Mg-Si-Cu Alloy. *Proceedings 4<sup>th</sup> International Conference on Advanced Materials and Processing Technology (AMPT-98)*, p756-761, August 24-28, 1998, Kuala Lumpur, Malaysia
46. Radzali Othman, A. Fauzi Mohd Noor dan **Astuty Amrin**, “Scanning Electron Microscopy of Malaysian Tin-Bearing Ores”, *Proceedings International Symposium on R&D in Extractive Metallurgy of Tin and Related Metals*, Ipoh, Perak, October, 1988.
47. M.N Mahsan and **A. Amrin**, Integrated Contract Performance Monitoring at Crude Oil Terminal, *Proceedings of 2nd Masters Project Symposium in Engineering Business Management, UTM Kuala Lumpur, 22-26 May 2017*
48. M.F. Itam and **A. Amrin**, Risk Of Insecticides Exposure On Foggers In Jabatan Kesihatan Negeri Kedah, *Proceedings of 1s Masters Project Symposium in Occupational, Safety and Health Management, UTM Kuala Lumpur, 13-15 December 2016*.
49. **A. Amrin**, H.Hamzah and Norfasyahidayu, High Temperature Cyclic Oxidation of Ti-Al Based Intermetallic in Static Laboratory Air, *Proceedings 3rd National Metallurgical Conference (NMC), Johor Bahru, November 2007*.
50. E. Hamzah, K. Suardi and **A. Amrin**, High and Low Temperature Corrosion Behaviour of Gamma Titanium Aluminide, *13<sup>th</sup> Scientific Conference on the Electron Microscopy Society of Malaysia*, 13-15 Dec. 2004, Putrajaya, Malaysia.
51. **A.Amrin**, E.Hamzah, M.N Tamin, F.H Stott and G.C. Wood. (2004). Oxidation Behaviour of Ti-Al Based Intermetallics at 900°C: Isothermal and Cyclic Conditions. *Journal of Solid State Science and Technology, Malaysia* pp 204 -209.
52. **A.Amrin**, E.Hamzah, M.N Tamin, F.H Stott and G.C. Wood. (2004). Oxidation Behaviour of Ti-Al Based Intermetallics at 700oC to 900oC in Flowing Dry Air, *Proceedings. 1st National Conference on Engineering & Technology (NACET 2004), Kuala Lumpur*.

53. E. Hamzah, K. Suardi and **A. Amrin**, Applicability of Titanium Aluminide in Oil and Gas Production, International Seminar on Material Selection, Application and Inspection for Upstream Oil and Gas, 28-29 September 2004, Kuala Lumpur, Malaysia (**Invited Paper**)
54. **A. Amrin**, E. Hamzah, M. N. Tamin, F. H. Stott and G. C. Wood. (2002). Surface Morphology of Ti-Al Based Intermetallics Oxidised Between 700°C to 1100°C for 150 hours. Proceedings 11th Scientific Conf. E.M.S of Malaysia, Johor Bahru: 337-340. (**First Prize Winner for Best Poster Competition, Physical Science Category**).
55. **Astuty Amrin**, "Pengacuanan Plastik Termoset", Ensiklopedia Sains dan Teknologi, UTM (2000)
56. **Astuty Amrin**, "Aloi ", Ensiklopedia Sains dan Teknologi, UTM (2000)
57. **Astuty Amrin** and A. Ourdjini (2000), Understanding Boiler Tubes Failure, Proceedings 9<sup>th</sup> Scientific Conference and Annual General Meeting of Electron Microscopy Society, Malaysia.
58. A. Ourdjini, **Astuty Amrin**, and F. H. Stott, (1999), High Temperature Oxidation of Iron-Chromium Alloy, Proceedings 8<sup>th</sup> Scientific Conference and Annual General Meeting of Electron Microscopy Society, Malaysia.
59. **Astuty Amrin**, Yusri Abu Bakar dan A. Ourdjini (1995), Hydrogen Embrittlement on Tempered Carbon Steel, Proceedings 5<sup>th</sup> Scientific Conference and Annual General Meeting of Electron Microscopy Society, Malaysia., Genting Highlan, Pahang
60. Radzali Othman dan Astuty Amrin (1988). Analisis Kimia Untuk Kegunaan Industri Seramik, Proceedings Simposium Kimia Analitis Kebangsaan Kedua, Pulau Pinang, September 1988.
61. Radzali Othman and Astuty Amrin (1988). Pertalian Di antara Analisis Kimia, Struktur dan Sifat bagi Hasil Seramik, Proceedings Simposium Kimia Analitis Kebangsaan Ketiga, UTM Johor Bahru, September 1989.

## **BOOK/BOOK CHAPTERS**

1. Huzaini, A. S., Mohammad, R., Othman, N. and **Amrin, A.** (2016). Offshore Medical Emergency Response System Challenges. Risk Management Towards Safe Practices. Pustaka Sistem Pelajaran Sdn. Bhd. 137-162, ISSN :978-967-330-176-8.1.
2. Hairudin, M. K. A. M., **Amrin, A.**, Mohammad, R. and Haron, N. H. (2016). Service Quality And Customer Satisfaction Index For Non-Destructive Testing Vendor. Productivity And Quality In Engineering Business Management, 81-92. Pustaka Sistem Pelajaran Sdn. Bhd. ISSN: 978-967-330-175-1.
3. Shamsudin, S. N., **Amrin, A.**, Hussain, N. H. and Mohammad, R. (2016). Corrosion Prevention And Control Program Management For Royal Malaysian Air Force Aircraft. Aircraft Management from Engineering Safety Perspective. Pustaka Sistem Pelajaran Sdn. Bhd, 14-68. ISSN: 978-967-330-172-0

## **VISITING PROFESSOR/LECTURER**

1. **Visiting Professor:** Sudan University of Science and Technology (5<sup>th</sup> – 15<sup>th</sup> December, 2016)
2. **Visiting Professor:** Sudan University of Science and Technology (14<sup>th</sup> – 18<sup>th</sup> February, 2016)
3. **Guest Lecturer/Visiting Lecturer:** King Mongkut's University Technology Thonburi, Bangkok, Thailand: (5<sup>th</sup> – 23<sup>rd</sup> November 2018)
4. **Guest Lecturer//Visiting Lecturer:** King Mongkut's University Technology Thonburi, Bangkok, Thailand: 3 Oct. 2017-22 October 2017
5. **Guest Lecturer /Visiting Lecturer:** King Mongkut's University Technology Thonburi, Bangkok, Thailand: 15<sup>th</sup> August 2015 – 8<sup>th</sup> September 2015.

## **INVITED/GUEST SPEAKER/ PLENARY LECTURE / KEYNOTE ADDRESS**

1. **Invited Speaker:** Asia Profesional Education Network & Eastern Visayas State University, Philippine Joint Webinar, 12 November 2020.
2. **Plenary Speaker:** 27<sup>th</sup> Scientific Conference of Microscopy Society of Malaysia, 3-4 December 2018, The Mudzaffar Hotel Melaka.
3. **Invited Speaker:** Doctoral (PhD) Preparatory Program for Federal Scholars Recipients, 5/2015 organised by *Institut Tadbiran Awam* (INTAN), 8-26<sup>th</sup> July 2019
4. **Principal Facilitator:** Supervisory Development Programme (AS101) for Junior Lecturer, UTM Kuala Lumpur, March 2019.
5. **Facilitator:** Your Thesis and Your Phd Journey, Supervisory Development Programme (AS102), UTM Kuala Lumpur, April 2019.
6. **Invited Speaker:** 'How to Defend your Viva Presentation' for Postgraduate Structured Course, 30 January 2019.
7. **Speaker:** *Kursus Pembantu Pengerusi Viva-Voce*, UTM Kuala Lumpur, 12 Oktober 2018.
8. **Facilitator:** Doctoral (PhD) Preparatory Program for Federal Scholars Recipients, 4/2018 organised by *Institut Tadbiran Awam* (INTAN), 18-20 July 2018.
9. **Invited Speaker:** How to Become an Inspiring Lecturer for UTMSpace Lecturer, UTMKL, 5<sup>th</sup> June 2018.
10. **Invited Speaker:** *Doctoral (PhD) Preparatory Program for Federal Scholars Recipients*, 3/2017 organised by *Institut Tadbiran Awam* (INTAN), 19-21 July 2017.
11. **Invited Speaker:** *Materials Characterization & Analysis at Workshop on Specimen Preparation and Microstructural Analysis*, jointly organized by Faculty of Mechanical Eng. and Institute of Materials Malaysia, 27 September 2017.
12. **Facilitator:** Supervisory Development Programme (AS101) for Junior Lecturer, UTM Kuala Lumpur, November 2017.
13. **Facilitator:** Supervisory Development Programme (AS102) for Junior Lecturer, UTM Kuala Lumpur, November 2017.
14. **Facilitator:** Supervisory Development Programme (AS101) for Junior Lecturer, UTM Kuala Lumpur, March 2017.
15. **Facilitator:** Supervisory Development Programme (AS102) for Junior Lecturer, UTM Kuala Lumpur, April 2017.

16. **Invited speaker:** '*Perlaksanaan Penilaian Kerja Kursus secara Post Module Assignment*', Bengkel NBOS Politeknik Malaysia, 23 November 2016.
17. **Invited speaker:** '*Kasih Ibu Membawa ke Syurga*', organised by Persatuan Ibu Tunggal Segamat, 31<sup>st</sup> May 2011.
18. **Invited Speaker:** *Keterampilan Diri & Projeksi Diri*, organized by Kolej Kejururawatan Muar, Hospital Fatimah Muar, 17 Disember 2011, Port Dickson, Negeri Sembilan.
19. **Invited speaker:** *Etika Profesional dan sebagai Penjawat Awam*, organised by Nursing Training College, Segamat, Disember 2010.
20. **Invited Speaker:** An Overview on Electrochemistry: Electroplating, Electroless Plating & Immersion Coating, Short Course on Plating Technology organised by INTEL, Penang, “, 31 July- 1 August 2006
21. **Speaker:** An Overview on Engineering Materials, Short Course on Manufacturing Processes and Materials Engineering jointly organised by Faculty of Mechanical Engineering and MARA, 3- July 2006.
22. **Speaker:** Crystal Structure, National Short Course on Manufacturing Processes and Materials Engineering jointly organised by Faculty of Mechanical Engineering and MARA, 3- July 2006.
23. **Speaker:** Non-ferrous Metals and Alloys, National Short Course on Manufacturing Processes and Materials Engineering jointly organised by Faculty of Mechanical Engineering and MARA, 3- July 2006.
24. **Speaker:** Non-metallic Materials, National Short Course on Manufacturing Processes and Materials Engineering jointly organised by Faculty of Mechanical Engineering and MARA, 3- July 2006.
25. **Speker:** Electron Microscopy: SEM & FESEM, National Short Course on Advanced Metallography and Microstructural Analysis organised by Faculty of Mechanical Engineering, UTM, 27-30 June 2006.
26. **Speaker:** *Pencirian Bahan Dengan Kaedah Mikroskopi Elektron, Kursus Teknologi Bahan Logam dan Aloi* organised by Fakulti Sains, UTM, 5-6 November 1997.
27. **Invited speaker:** *Etika Profesional & Nilai-nilai Murni*, organised by Nursing Training College, Segamat, Mei 2007
28. **Invited speaker:** *Wanita Cemerlang: Cabaran & Halangan*, organised by KEMAS, Labis, September 2006
29. **Invited speaker:** *Motivasi Diri*, organised by Puspanita Lembaga Pertubuhan Peladang Negeri Johor, Johor Bahru, Jun 1996

## ARTICLE REVIEWER

1. Article Reviewer: Effect Of ECAP Processing Routes On Corrosion Resistance And Hardness Of Heat Treated A356 Alloy, Journal Sains Malaysiana, Universiti Kebangsaan Malaysia (November 2018):
2. Article Reviewer: An Investigation of 2D simulated Proton Exchange Membrane and Direct Methanol Fuel Cells by Using Taguchi Method, Malaysia-Japan Academic Scholar Conference 2013, Japan
3. Article Reviewer: The Use of Porous Cu Interlayer in Lead-free Solder, Malaysia-Japan Academic Scholar Conference 2013, Japan
4. Article Reviewer: Systematic Problem Identification using Taguchi Method, Malaysia-Japan Academic Scholar Conference 2013, Japan

5. Article Reviewer: Microstructural, Mechanical Characterisation and Fractography of As-cast Ti-Al Alloy, Jurnal Sains Malaysiana-UKM (2012/03/28:44)
6. Article Reviewer: Microstructural, Mechanical Characterisation and Fractography of As-cast Ti-Al Alloy, Jurnal Teknologi-Special Edition, (UTM): January 2008
7. Article Reviewer, Jurnal Teknologi-Special Edition, (UTM): Study on Interfacial Reaction Between Lead-Free Solders and Alternative Surface Finishes, January 2008
8. Article Reviewer, Jurnal Teknologi-Special Edition, (UTM): Effect of Pre-treatment and Deposition Parameters on Diamond Nucleation in CVD, January 2008
9. Article Reviewer: A Study on Workability of Impressed Current Cathodic Protection system on Non-Permanently Submerged /Buried Structures by the Introduction of Conductive Compounds, Jurnal Teknologi-Special Edition, (UTM):, January 2008
10. Abstract Editor-cum-Reviewer: *Applications in Industry and Education*, 21st International Conference on Science and Technology (ICSTIE), Universiti Teknologi Mara 2008
11. *Penilai Makalah Jurnal Mekanikal Universiti Kebangsaan Malaysia: Penentuan Tahap Kakisan Tetulang Keluli Menggunakan kaedah Pengecilan Amplitud*, 2007
12. *Penilai (Pakar Bidang): Kertas Kerja Jurnal Peringkat Antarabangsa Bagi Anugerah Penerbitan Universiti*, 2006
13. Article Reviewer, Jurnal Teknologi (UTM): Wetting Properties and Roughness test for Sn-Pb, Sn-Zn and Sn-Zn-Bi Lead-free Solders, 2006
14. Reviewer: Effect Of Microstructure On The Hydrogen Attack To Gamma Titanium Aluminide At Low Temperature, *Calon bagi Kertas kerja Dalam Jurnal Peringkat Antarabangsa untuk Anugerah Penerbitan UTM*, 2006:
15. Article Reviewer: Wetting Properties and Roughness Test for Sn-Pb, Sn-Zn and Sn-Zn-Bi lead free Solders. Publisher, Proceedings Conf. Manufacturing & Electronic Technology (COMET 2006), UTM
16. Article Reviewer: Effect of Reflow soldering and Isothermal Aging on Interfacial Microstructure Between Lead-free Solder Alloy and Different Surface Finish, Proceedings Conference in Manufacturing & Electronic Technology (COMET 2006), UTM

#### **Memorandum of Understanding (MoU)/Memorandum of Agreement (MoA)**

1. MoU UTM – Redbeat Academy
2. MoU UTM – Safat Academy, Sudan
3. MoA UTM-TNB Research Sdn Bhd: Proposal for Service of Material Testing and Technical Consultation (**RM 130,000.00**)
4. MoA UTM Razak School –University of Meiji Japan: Double Masters Programme
5. MoU UTM – Sudan University of Science & Technolgy
6. MoU UTM- King Mongkut University of Technology Thonburi, Thailand
7. MoA UTM – KLIA Training & Research Sdn Bhd (December 2011)
8. MoA UTM – Integrated Commerce Sdn Bhd (December 2011)
9. MoA UTM – Shah Educational Systems Sdn Bhd (December 2011)
10. MoA UTM – BTC Academy (December 2011)
11. MoA UTM – JAS MARINE Sdn Bhd (December 2011)

12. MoA Business & Advanced Technology Center, UTM – PROTON Berhad (Executive Diploma in Manufacturing Systems Engineering)