



## CURRICULUM VITAE

### **Rosmamuhamadani bin Ramli**

Materials Technology Programme,  
Department of Physic and Materials Studies,  
Faculty of Applied Sciences,  
Universiti Teknologi MARA,  
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### **Educations**

1. PhD- Material Engineering, Universiti Putra Malaysia
2. M.Sc-Material Sciences, Universiti Kebangsaan Malaysia
3. B.Sc-Material Sciences, Universiti Kebangsaan Malaysia

### **Area of Interests**

Metallurgy (Metal Matrix Composites), bio-materials (hydroxyapatites)

### **Academic Appointments**

1. July 2013- Current: Senior Lecturer, DM52  
Universiti Teknologi MARA (UiTM) Shah Alam, Selangor
2. April 2008- Lecturer, DM45  
Universiti Teknologi MARA (UiTM), Shah Alam, Selangor

### **Other Appointments/Responsibilities**

1. May 2005- Mac 2008 : Research Officer, Q41 (Tyre Testing Laboratory, Technical Manager), Malaysia Rubber Board (LGM) Sg Buloh, Selangor
2. Mac 2003-May 2005 : Matriculation Lecturer, DC41, Kolej Matrikulasi Pahang, 26000, Gambang Pahang.
3. April 2000-Feb 2003: QA/QC Executive, Today's Plastic (M). Sdn. Bhd., Lot 22, Rawang Industrial Estate, 48000 Rawang, Selangor.

### **Papers Published**

1. N.H. Mustafa, N.N.A. Basir, R.E. Ibrahim, **R.Rosmamuhamadani**, M.M.Mahat, N.N. Bonnia, Sabrina, M. Yahaya, M.K. Talari (2018). Characterization of in-situ zirconium diboride ( $ZrB_2$ ) reinforced by aluminium-copper (Al-Cu) alloy Metal Matrix Composite. Waiting for publish in International Journal of Engineering and Technology.
2. N.N.A. Basir, N.H. Mustafa, R.E. Ibrahim, **R.Rosmamuhamadani**, M.M.Mahat., Sabrina, M. Yahaya, M.K. Talari (2018). Mechanical Characterization of aluminium-silicon-titanium diboride (Al-Si-TiB<sub>2</sub>) reinforced by scandium (Sc) and stronthium (Sr). Waiting for publish in International Journal of Engineering and Technology.
3. R.E. Ibrahim, **R. Rosmamuhamadani**, M.K.Talari, Sabrina, M.Yahaya, S.Sulaiman and M.I.S, Ismail (2018). Journal of Engineering and Science Research 2(2), pp. 1-8

4. **R. Rosmamuhamadani**, R.E.Ibrahim, M.K.Talari, Sabrina, M.Yahaya (2018). Characterization of Aluminium-Silicon (Al-Si) cast alloy refined with Titanium Diboride (TiB<sub>2</sub>) and Scandium (Sc). Journal of Mechanical Engineering Vol 5(1), pp. 62-67.
5. R.E.Ibrahim, **R. Rosmamuhamadani**, M.K.Talari, Sabrina M.Yahaya, S. Sulaiman, M.I.S. Ismail (2017). Preliminary Study on Properties of Aluminium-Silicon (Al-Si) Alloys Reinforced by *In Situ* Titanium Diboride (TiB<sub>2</sub>). Key Engineering Materials 737, pp.11-15.
6. **R. Rosmamuhamadani**, S. Sulaiman, M.I.S., Ismail, M.A., Azmah Hanim, M.K. Talari (2015). Mechanical and Microstructure Characterization of Aluminium-Copper (Al-Cu) Reinforced with *in-situ* Titanium Diboride (TiB<sub>2</sub>). Key Engineering Material, Vol 673, pp.117-125
7. **R.Rosmamuhamadani**, S. Sulaiman, M.I.S., Ismail, M.A., Azmah Hanim, M.K. Talari (2014). Wear Properties of Metal Matrix Composite Al-Cu and Al-Cu-TiB<sub>2</sub>. Materials Science Forum. Vol 819 pp. 268-273.
8. Nurul Humaira Azhar, Mahesh Kumar Talari, **Rosmamuhamadani Ramli**, Cheu Chee Koong (2014). Characterization of Thermal Sprayed Titanium/hydroxyapatite Composite Coating on Stainless Steel. Advanced Materials Research Vol. 974. Pp. 152-156
9. Siti Sarah Mohd Pauzi, Widyani Darham, **Rosmamuhamadani Ramli**, M.K.Harun, Mahesh Kumar Talari. (2013). Effect of Zr Addition on Microstructure and Properties of Fe-Cr-Ni-Mn-Co-Zr<sub>x</sub> and Al-0.5Fe-Cr-Ni-Mn-Co-Zr<sub>x</sub> High Entropy Alloys. Metallurgy Materials Engineering 66(4), pp. 305-308
10. Ainaa Zafirah Omar Arawi, **Rosmamuhamadani Ramli**, Mahesh Kumar Talari (2012). Study of Sintering Temperature for Nano-Hydroxyapatite with Addition of Titanium. Advanced Materials Research 538. Pp. 2392-2395

### Conference Proceeding

1. N.N.A Basir, R.E. Ibrahim, N H Mustafa, **R. Rosmamuhamadani**, M.K.Talari, Sabrina, M.M.Mahat, N.N. Bonnia, S. M.Yahaya. Microstructure Phase Distribution Analysis of Al-Si-TiB<sub>2</sub>-Sr-Sc Composite Fabricated by Casting Technique. 4<sup>th</sup> International Conference on Green Design Manufacture (ICoNGDM 2018), 29-30 April 2018, Ho Chi Minh, Vietnam.(Waiting for publication in AIP Conf Series).
2. **R. Rosmamuhamadani**, A.Z.O. Arawi, M.K.Talari, M.M.Mahat, N.N. Bonnia, Sabrina, M.Yahaya. S.Sulaiman, M.I.S Ismail. Wear Characterization of Nano-Hydroxyapatite With Addition of Titanium (HA-Ti). IOP Conf Series: Materials Science and Engineering 348 (2018). International Conference on Materials Engineering and Applications (ICMEA) 2018, Bali, Indonesia, 14-16 Jan 2018.
3. Sabrina M.Yahaya, M.K. Harun, **R.Rosmamuhamadani**, N.N. Bonnia, S. Ratim (2018). IOP Conference Series: Materials Science and Engineering 290 (2018). International Conference in Advance in Manufacturing and Material Engineering ( ICAMME 2017), 8-9 August 2017, Universiti Islam Antarabangsa, Malaysia.
4. **R. Rosmamuhamadani**, N.H.Azhar, M.K.Talari, Sabrina, M.Yahaya, S.Sulaiman, M.I.S Ismail. Mechanical Properties of Titanium-Hydroxyapatite (Ti-HA) Composite Coating on Stainless Steel by Thermal Spraying. AIP Conference Proceeding 1885. 3<sup>rd</sup>.International Conference on Green Design Manufacture (ICoNGDM 2017), 28-30 April 2017, Krabi, Thailand.
5. Zakaria, M.N., Sukirah, A.R., Maizatunisa, O., Ayuni, J., Khalisanni, K., **R. Rosmamuhamadani**,Effect of Growth Times on the Physical and Mechanical Properties of Hydrophobic and Oleophilic Silylated Bacterial Cellulose Membranes. AIP Conference Proceeding 1885. 3<sup>rd</sup>.International Conference on Green Design Manufacture (ICoNGDM 2017), 28-30 April 2017, Krabi, Thailand.

6. **R. Rosmamuhamadani**, M.K.Talari, Sabrina, M.Yahaya, S. Sulaiman, M.I.S., Ismail, M.A., Azmah Hanim. Corrosion Characterization of *In-Situ* Titanium Diboride (TiB<sub>2</sub>) Reinforced Aluminium-Copper (Al-Cu) Alloy by Two Methods: Salt spray Fog and Linear Polarization Resistance (LPR) technique. 8<sup>th</sup>. International Conference on nanoscience and Nanotechnology 2017 (Nano-SciTech 2017). 24-27 February 2017, Universiti Teknologi MARA, Shah Alam, Malaysia.
7. **R. Rosmamuhamadani**, S. Sulaiman, M.I.S., Ismail, M.A., Azmah Hanim, Talari, M.K, S.M Yahaya. Corrosion Characterization of Al-Cu Reinforced *In-Situ* TiB<sub>2</sub>. MATEC Web of Conferences 78, (2016). 2<sup>nd</sup>. International Conference on Green Design Manufacture (ICoNGDM 2016), 1-2 May 2016, Phuket, Thailand.
8. Ahmad Lutfi Anis, Rosmamuhamadani Ramli, Widayani Darham, Azlan Zakaria and Mahesh Kumar Talari. Microstructure and mechanical properties investigation of in-situ TiB<sub>2</sub> and ZrBr<sub>2</sub> reinforced Al-4Cu composites. IOP Conference Series: Materials Science and Engineering 114 (2016).
9. Ainaa Zafirah Omar Arawi, **Rosmamuhamadani Ramli**, Mohd. Muzamir Mahat, Mahesh Kumar Talari. Synthesis of nano-hydroxyapatite from mussel shell via microwave technique with addition of argentums. AIP proceedings in International Conference for Nanomaterials Synthesis and Characterization (INSC 2011). 4-5<sup>th</sup> July 2011, Mines Wellness Hotel Seri Kembangan, Selangor.
10. Nurul Syahidah Sabri, Azlan Zakaria, **Rosmamuhamadani Ramli**, Mahesh Kumar Talari. Effect of doping on structural and optical properties of SnO<sub>2</sub> nanoparticles prepared by mechanochemical. AIP proceedings in International Conference for Nanomaterials Synthesis and Characterization (INSC 2011). 4-5<sup>th</sup>. July 2011, Mines Wellness Hotel Seri Kembangan, Selangor.
11. **Rosmamuhamadani Ramli**, Ainaa Zafirah Omar Arawi, Mohd. Muzamir Mahat, Mohd Fakharul Zaman Raja Yahya, Ahmad Faiza Mohd. *Effect of silver (Ag) substitution nano-hydroxyapatite synthesis by microwave processing*. Proceedings in 2011 International Conference on Business, Engineering and Industrial Applications, Hotel Renaissance Kuala Lumpur. June 5-8, 2011. **pp. 186-189** [IEEE/ISI/SCOPUS].
12. Munirah Maulad Nagteni, Ahmad Faiza Mohd., **Rosmamuhamadani Ramli**. *Synthesis of polyurethane using soybean oil based polyol and characterization of their coating properties*. Proceedings in 2011 International Conference on Business, Engineering and Industrial Applications, Hotel Renaissance Kuala Lumpur. June 5-8, 2011. **pp.190-193**. [IEEE/ISI/SCOPUS].
13. Mohd. Fakharul Zaman Raja Yahya, Mohd Muzamir Mahat, **Rosmamuhamadani Ramli** and Ahmad Mohamed Aris (2011). Computational analysis on oxidoreductase of sulfate reducing bacteria: towards understanding biofilm-metal interaction. Proceedings in 2011 International Symposium on Humanities, Science and Engineering Research, Hotel Renaissance Kuala Lumpur. June 5-8, 2011. **pp 66-71** [IEEE/ISI/SCOPUS].
14. Mohd. Muzamir Mahat, Ahmad Mohamed Aris, Mohd Fakharul Zaman Raja Yahya and **Rosmamuhamadani Ramli (2011)**. Infinite Focus Microscope (IFM): Microbiologically Influenced Corrosion (MIC) behavior on Mild Steel by Pseudomonas aeruginosa. Proceedings in 2011 International Symposium on Humanities, Science and Engineering Research, Hotel Renaissance Kuala Lumpur. June 5-8, 2011. **pp 111-115** [IEEE/ISI/SCOPUS].
15. **Rosmamuhamadani Ramli**, Ainaa Zafirah Omar Arawi, Mohd Muzamir Mahat, Minaketan Tripathy, Mahesh Kumar Talari, Umi Sarah Jais. *Synthesis and Structural Characterization of nano-Hydroxyapatite Biomaterials Prepared by Microwave Processing*. Accepted in AIP proceedings for 2<sup>nd</sup>. ASEAN-APCTP Workshop on Advanced Materials Science and Nanotechnology (AMSN-2010). Disember 2010, Flamingo Hotel, Penang.

16. Mohd Muzamir Mahat, Ahmad Hisyam Aris, Mohd. Fakrulzaman Raja Yahya, **Rosmamuhamadani Ramli**. *Microbiologically-Influenced Corrosion of Mild Steel by Pseudomonas Aeruginosa bacteria*. Accepted in AIP proceedings for 2<sup>nd</sup>. ASEAN-APCTP Workshop on Advanced Materials Science and Nanotechnology (AMSN-2010). Disember 2010, Flamingo Hotel, Penang.
17. **Rosmamuhamadani Ramli**, Mohd.Nor Berhan, Mahesh Kumar Talari. *Grain refinement of Al-Si cast alloys by combined addition of TiBAl and Sc inoculants*. 4<sup>th</sup>. Malaysian Metallurgical Conference 2010. 22-23 November 2010, Parkroyal Hotel, Penang.
18. Ahmad Faiza, **Rosmamuhamadani Ramli**, Mohd. Azlan Zakaria, Rahmah Mohamed. 2009. Synthesis of polyurethane using soybean oil based polyol and characterization of their coating properties. MPIC 2009, 21<sup>st</sup>.–22<sup>nd</sup>. October 2009, Palm Garden Hotel IOI, Resort, Putrajaya.

## Research Grant

### 1. FRGS Grant

TITLE	SPONSORED	AMAUNT (RM)	LIST OF MEMBERS, POST& INSTITUTION	DATE STARTED	DATE OF FINISHED
In-situ Titanium Diboride Reinforced by Aluminium Hybrid Metal Matrix Composites	FRGS 2/2015	104,000	1. Shamsuddin Sulaiman (UPM-P.I) 2. Mohd Idris Shah Ismail (UPM) 3. <b>Rosmamuhamadani Ramli (UiTM Member)</b>	2 Nov 2015-1 Nov 2017	In-progress
Study on bonding mechanime between titanium (Ti) powder and nano-hydroxyapatite (HA)-Ti Metal Matrix composite (MMC) bio implant material	FRGS 2/2010	68,000	1. <b>Rosmamuhamadani Ramli -P.I</b> 2. Umi Sarah Jais, 3. Mahesh Kumar Talari 4. Mohd Muzamir Mahat (UiTM Shah Alam)	27 Dec 2010-26 Dec 2012	Completed 2013
Microbiologically-influence Corrosion (MIC) Study of Stainless Steel and Mild Steels by Pseudomonas Aeruginosa	FRGS 148/2010	65,800	1. Mohd Muzamir Mahat, 2. Mohd Fakhruzaman Raja Yahya 3. <b>Rosmamuhamadani Ramli-(Member)</b>	1 Dec 2010-30 Nov 2011	Completed 2012

### 2. Internal Grant

TITLE	SPONSORED	AMAUNT (RM)	LIST OF MEMBERS, POST& INSTITUTION	DATE STARTED	DATE OF FINISHED
Characterization of in-Situ Zirconium Diboride (ZrB <sub>2</sub> ) Reinforced by Aluminium-Copper (Al-Cu) Alloy Metal Matrix composites	GIP Lestari UiTM (49/2018)	20,000	1. <b>Rosmamuhamadani Ramli (P.I)</b> 2. Mohd. Muzamir Mahat 3. Sabrina M. Yahaya	1 Sept 2018	31 August 2019

Aluminium-Hybrid Metal Matrix Composites Cast Alloys Combined of Titanium-Boron (Ti-B) and Scandium (Sc) Inoculations Release to improve Mechanical Properties	Geran Penyelidikan Lestari UiTM (148/2017)	20,000	4. <b>Rosmamuhamadani Ramli (P.I)</b> 5. Mohd. Muzamir Mahat 6. Sabrina M. Yahaya	1 July 2017	30 June 2019
Surface Chemistry and Biocompatibility Studies of 2D Polyaniline Films Doped by Phosphoric Acid	Geran Penyelidikan Lestari UiTM (51/2017)	20,000	1. Mohd Muzamir Mahat (P.I) 2. Rosmamuhamadani Ramli 3. Che Norlida binti Kamarulzaman	1 July 2017	30 June 2019
Polypyrrole and Poly(M-Aminophenol) Films as Pre-Coating for Corrosion Protection on Mild Steel	Geran Penyelidikan Lestari UiTM (46/2017)	20,000	1. Sabrina M. Yahaya 2. Rosmamuhamadani Ramli 3. Nurul Izza Taib 4. Noor Najmi Bonnia 5. Suzana Ratim	1 July 2017	30 June 2019
Biosynthesis of Zinc Oxide Nanoparticles From Native Plant (Panasus Amarylifolius) and Its Corrosion Inhibition Efficiency	Geran Penyelidikan Lestari UiTM (221/2017)	20,000	1. Rabiatuladawiyah binti Mohd Akhir (P.I) 2. Rosmamuhamadani Ramli 3. Mohd Muzamir bin Mahat 4. Che Puteh binti Othman	1 July 2017	30 June 2019
Microstructure and Oxidation Properties of Nb and V Added Fe-Ni-Cu-Zn-Al High Entropy Alloy	Dana Kecemerlangan (Dst 429/2011)	10,000	1. <b>Rosmamuhamadani bin Ramli -P.I</b> 2. Mahesh Kumar Talari (UiTM Shah Alam)	1 Oct 2011-30 Sept 2013	Completed 2014
Grain Refinement Mechanism in Fine Grain Al-Si Cast Alloys Refined by Titanium-Boron-Aluminium (Al-TiB) and Scandium (Sc)	Dana Kecemerlangan (Dst 430/2011)	8,000	1. <b>Rosmamuhamadani bin Ramli -P.I</b> 2. Mahesh Kumar Talari (UiTM Shah Alam)	1 Oct 2011-30 Sept 2013	Completed 2014
Microbiologically-influence Corrosion (MIC) Study of Stainless Steel and Mild Steels by Pseudomonas Aeruginosa	Dana Kecemerlangan (Dst 108/2010)	7,000	1. Mohd Muzamir Mahat, 2. Mohd Fakhrulzaman Raja Yahya 3. <b>Rosmamuhamadani Ramli (Member)</b>	1 Dec 2010-30 Nov 2011	Completed 2012
Synthesis and Characterization Polyurethane Using Soybean Oil-Polyoil Onto Coating Properties	Dana Kecemerlangan (Dst 250/2009)	8,000	1. <b>Rosmamuhamadani bin Ramli (P.I- UiTM)</b> 2. Ahmad Faiza Mohd. 3. Azlan Zakaria	1 Jan 2010-31 Dec 2010	Completed 2010

### **Award/Recognition**

1. Bronze medal in IIDEX 2018, Dewan Seri Agong, UiTM Shah Alam, Selangor
2. Bronze medal in IIDEX 2017, Dewan Seri Agong, UiTM Shah Alam, Selangor
3. Silver medal in SRICC 2017, Dewan Seri Budiman, UiTM Shah Alam, Selangor
4. Best Oral Presentation Award (Nano SciTech 2017), organized by Institute of Science, Universiti Teknologi MARA, Shah Alam, Selangor.
5. Silver Medal in Festival Sains, Teknologi & Inovasi (FESTASI II 2016), Tanjung Karang, organized by Faculty of Applied Sciences, UiTM, Shah Alam, Selangor.
6. Graduated on Time (PhD studied), awarded from Universiti Putra Malaysia
7. Staff scholarship sponsored by UiTM/KPT for PhD studied (Sept 2012-Feb 2016)
8. Anugerah Perkhidmatan Cemerlang 2012-Awarded from Universiti Teknologi MARA
9. Certificate of Award, Best Poster Presenter. The International Conference for Nano-Materials Synthesis and Characterization 2011.

### **Professional Services**

1. Elsevier Reviewer (Nov 2018- Current) : References Modul in Materials Science and Material Engineering
2. Elsevier Reviewer (Nov 2016- Oct 2018) : References Modul in Materials Science and Material Engineering

### **Other membership**

2016-Current: Malaysian Nuclear Sciences (MNS)-Member

### **Professional, Extension and Public Services**

1. Inviter speaker in International on Conference Green Design Manufacturing (ICONGDM 2017), Krabi, Thailand (28-30 April 2017)
2. Referee in Innovation Design Research International Symposium (IDRIS 2017), organized by Malaysia Research & Innovation Society (MyRIS)/ Centre of Excellent Geopolymer & Green Technology (CEGeoGTech)/ Universiti Malaysia, Perlis
3. AIP 2017, ICONGDM 2017 Krabi, Thailand-Technical Committee
4. Referee in Festival Sains dan Teknologi dan Inovasi Kebangsaan (FESTASI) II 2016, Tanjung Karang, Selangor.
5. Asean Smart Grid Conference (ASG2 2016), UiTM Shah Alam (Committee member)
6. Secretary Jawatankuasa Semakan Rekabentuk Kursus dan Kurikulum (JSRKK) Bagi Ijazah Sarjana Muda Teknologi Bahan (AS230) Bagi Memenuhi Keperluan ICGPA.
7. Advisor of Materials Technology Programme (Matech), Faculty of Applied Sciences, UiTM, Shah Alam, Selangor(2016-Current).
8. International Nuclear Science, Technology and Engineering Conference 2016 (NUSTEC) -8-10 August 2016 as Committee member
7. Perlantikan jawatankuasa semakan kurikulum program ijazah sarjana (Kepujian) Teknologi Bahan (AS230) 1 Mac 2016
8. 8<sup>th</sup> Coloqium Series presenter organised by FSG, UiTM Shah Alam (27 Apr 2016).
9. Advisor of Materials Technology Programme (Matech), Faculty of Applied Sciences, UiTM, Shah Alam, Selangor.

10. Seminar on Current Development and Future Trends on Coating Industry 20-21 August, Blue Wave Hotel, Shah Alam.
11. Seminar Bio-Material 2009, 6-7 Januari 2009 as treasury
12. IID Invention, Innovation, and Design 2009 14 October 2009 Committee member

## Postgraduate Supervision

### PhD Supervision

Name	Title	Status
1. Rose Elina Ibrahim (Main SV)	Mechanical and Microstructure of aluminium-silicon (Al-Si) Alloy Reinforced by titanium diboride (TiB <sub>2</sub> ) and Scandium (Sc).	On-going (2016-Current)
2. Zatil Aqmar Zulkifli (PhD Co SV di UPM)	Mechanical properties of Titanium carbide reinforced Al-Cu composites using dynamic casting	On-going (2015-Current)
3. Izzul Adli Mohd Arif (Co-SV)	Effect of boron and carbon-added titanium filler on microstructure and mechanical properties of $\beta$ -titanium alloy weldments	On-going (2014-Current)
4. Siti Sarah Mohd Pauzi (Co-SV)	Microstructural evaluation and corrosion behaviour of Fe-Cr-Ni-Mn-Co and Al0.5 Fe-Cr-Ni-Mn-Co HEA with elements additions	Graduated/.Completed

### MSc Supervision

Name	Title	Status
1. Nurul Hidayah binti Mustafa	Characterization of <i>in-situ</i> Zirconium Bromide (ZrBr <sub>2</sub> ) Reinforced by Aluminium-Copper (Al-Cu) Alloy Metal Matrix Composites	On-going (2017-Current)
2. Mohd Rafee bin Jaffri	Characterization and Mechanical Properties of Aluminium-Magnesium (Al-Mg) Cast Alloy Combine with Titanium Diboride (TiB <sub>2</sub> ) and Strontium (Sr)	On-going (2017-Current)
4. Nurul Humaira binti Ahmad Azhar (Co-sv)	Thermal Sprayed Hydroxyapatite-Titanium (HA-Ti) Composite Coatings on Stainless Steel Substrate	Completed 17.7.17 (2012-2017)
5. Ainaa Zafirah Omar Arawi	Synthesis and mechanical properties of nano hydroxyapatite from egg shells reinforced with titanium by microwave synthesis.	Completed (2011-2015).

### Undergraduate

**Sept 2017-June 2018**

<b>Students</b>	<b>Title</b>	<b>STATUS</b>
Umi Sakinah Khorani	Mechanical Properties of Cement Reinforced with Calcium Carbonate From Mussel Shell	Completed
Nur Athikah Mohamad Mustafa	Mechanical Properties of Al-Cu Alloy Reinforced with ZrB <sub>2</sub>	Completed
Ku Nur Amerlia Syahirah Ku Adzhar	Microstructure of in-situ 3wt% and 6wt%ZrB <sub>2</sub> reinforced with Al-Cu	Completed
Khairunnisa binti Abd Razak	Microstructure and hardness Characterization of Mg-10Al-6Ca-1Sn and Mg-17Al-4Zn-3Ca-1Sn.	Completed

### June 2016-May 2017

<b>Students</b>	<b>Title</b>	<b>STATUS</b>
Nur Syazleena Sherina binti Mohd Sabri	Preliminary Study on Mechanical and Microstructure Properties of Aluminium-Silicon (Al-Si) and Aluminium-Copper (Al-Cu)	On-going
Farah Zahidah binti Ab. Ghani	Tensile and Hardness of of Al-Si /TiB <sub>2</sub> composites	On-going
Rabiatul Adawiyah binti Abdul Rashid	XRD and Microstructure of Al-Si /TiB <sub>2</sub> composites	On-going
Fatihin binti Tahiran	Effect of ageing on properties of Al-Si /TiB <sub>2</sub> composites	On-going
Syaza Nasuha binti Abd. Rahman	Tensile and Hardness of of Al-Si /TiB <sub>2</sub> /Sthrontium (Sr) composites	On-going
Nur Asyiqin binti Ismail	XRD and Microstructure of Al-Si /TiB <sub>2</sub> /Sr composites	On-going
Nik Nadia binti Nik Mat	Effect of ageing on properties of Al-Si /TiB <sub>2</sub> /Sr composites	On-going
Nur Farhanah binti Mohamad Helmi	Tensile and Hardness of of Al-Si /TiB <sub>2</sub> /Sr/Scandium (Sc) composites	On-going
Nabila Nujaimi binti Ab Basir	XRD and Microstructure of Al-Si /TiB <sub>2</sub> /Sr/Sc composites	On-going
Nurul Hidayah bt Mustafa	Effect of ageing on properties of Al-Si /TiB <sub>2</sub> /Sr/Sc composites	On-going
Muhamad Firdaus bin Musthafaruddin	Corrosion behaviour of Al-Si-TiB <sub>2</sub> -Sr-Sc composites	On-going
Siti Nazwa binti Khairuddin	Corrosion behaviour of Al-Si-TiB <sub>2</sub> -Sr-Sc composites immersed in diffrent concentration of acidic solution	On-going
Norelyna Norzali	The Effect of 0.25% Tri-Calcium Phosphate (TCP) to the Properties of Polylactic Acid (PLLA) Fibre Prepared by Electrospinning	On-going



Nurafiqah Samakun	The Effect of 0.5% Tri-Calcium Phosphate (TCP) to the Properties of Polylactic Acid (PLLA) Fibre Prepared by Electrospinning	On-going
Nur Hanim Hayati Muhd. Suhaimi	The Effect of 0.75% Tri-Calcium Phosphate (TCP) to the Properties of Polylactic Acid (PLLA) Fibre Prepared by Electrospinning	On-going
<b>Sept 2011-Aug 2012</b>		
<b>Students</b>	<b>Title</b>	<b>STATUS</b>
Muhamad Kharuman bin Othman	Study the microstructure and XRD analysis of in-situ fabrication of Al-6wt.% Si-0.5 wt.% Mg reinforced TiB <sub>2</sub> by salt route	Completed
Ahmad Farid bin Ngah	Study on microstructure of in-situ process of Al-6wt.%Cu reinforced with TiB <sub>2</sub> particulate composites	Completed
Cik Siti Norhidayah binti Rahim	Preparation and characterization of in-situ Al-4wt.% reinforced with TiB <sub>2</sub> by salts route	Completed
Muhamad Kharuman bin Othman	Study the microstructure and XRD analysis of in-situ fabrication of Al-4wt.% Cu reinforced TiB <sub>2</sub> by salt route	Completed
Ahmad Khairul bin Mohd. Nor	Preparation and characterization of in-situ Al-6wt.%Si-0.5wt.%Mg reinforced with TiB <sub>2</sub> by salt route	Completed
<b>May 2011-April 2012</b>		
<b>Students</b>	<b>Title</b>	<b>STATUS</b>
Ahmad Razali Abas	Study the microstructure and oxidation properties of Nb and V added Fe-Ni-Cu-Zn-Al High Entropy Alloy	Completed
Mohd. Azmi bin Aziz	Study the effect of scandium addition on microstructure and grain size of cast Al-Si alloy grain refined by Ti-B-Al and Sthrontium	Completed
Mohd. Khairi bin Omar	Study the microstructure and mechanical properties of the Cu and Al addition in FeCoNiCr- High Entropy Alloy High Entropy Alloybase	Completed
Nurul Hanin binti Shariff	Mechanical properties and microstructure study of sintered HA-Ti pellet composite with microwave technique	Completed

Nurul Farahin	Study the microwave power on synthesis of nano-hydroxyapatite using calcium hydroxide extracted from egg shells	Completed
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Rafidah binti Razuan	Study the hardness and corrosion properties of Ti and Nb addition to FeNiCuCrTi <sub>x</sub> Nb <sub>y</sub> with arc remelting technique	Completed
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**May 2010- April 2011**

<b>Students</b>	<b>Title</b>	<b>STATUS</b>
Mohamad Shahril bin Mohamad Arifin	Study the grain refinement onto microstructure and mechanical properties of Al-Si cast alloy reinforce with Ti-B-Al and Sthrontium	Completed
Mohd. Noorasyraf bn Che Saadon	Study the effect of scandium addition on microstructure and grain size of cast Al-Si alloy grain refined by Ti-B-Al and Sthrontium	Completed
Mohamad Fauzi Hamdi bin Ramli	Study the effect onto heat treatment and mechanical properties of cast Al-Si alloy grain refined by Ti-B-Al and Scandium	Completed
Noor Adilah bt. Mohd. Shawari	Study the microstructure and mechanical properties of sintered pellet composite nano-hydroxyapatite with different sintered temperature	Completed
Siti Jasmiza binti Jamil	Study the microwave power on synthesis of nano-hydroxyapatite using calcium hydroxide extracted from egg shells	Completed
Nurul Humaira binti Azhar	Study the microstructure and mechanical properties of sintered pellet composite nano-hydroxyapatite reinforced with different titanium contents	Completed
Siti Sarah binti Mohd. Pauzi	Study the effect of different sintering temperatures of sintered pellet composite nano-hydroxyapatite reinforced with titanium	Completed
Abu Suffian bin Abd Rahman	Study the effect of heat treatment on microstructure and mechanical properties of Al-Si-Ti-B alloy	Completed

**December 2009-November 2010**

<b>Students</b>	<b>Title</b>	<b>STATUS</b>
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Tunku Mohd hafiz bin Tunku Kamaruzaman	Study the effect of addition 0.02wt%/Stronthium (Sr) modifier on tensile and microstructure properties of pure Al-Si alloy casting	Completed
Unaizah binti Muslini	Study the effect of Sr and TiB addition on grain refinement of Al-Si cast alloy	Completed
Noranizah binti Awang	Study the effect of Sc addition on tensile properties of Al-Si-Sr cast alloy	Completed
Mohd Rosnizan Hanabi bin Mohamed	Study the effect of Ti-B addition on tensile properties and microstructure of Al-Si alloys	Completed
Raja Abdul Afif bin Raja Abdullah	Study the effect of 0.05 wt.% Ti-B on tensile properties and microstructure of Al-Si cast alloy	Completed
Nurul Ain binti Mohd Nor	Study the effect of different percentage in scandium addition on microstructure and hardness of Al-Si-Sr-TiBAl alloy	Completed

**May 2009-April 2010**

<b>Students</b>	<b>Title</b>	<b>STATUS</b>
Noraisy Salma binti Ismail	Study the effect of cooling rate between sand casting and stainless steel block casting on microstructure and properties of pure Aluminium	Completed
Mohammad Noor Hafiz bin Ramli	Study the effect of 0.02 wt.%Sr/5wt.% Ti/B on tensile properties and microstructure Of Al-Si alloy casting	Completed
Hasnul Abdul Halim bin Hasnul Hadi	Study the effect of 0.05wt.% Ti/B addition on the microstructure and hardness of Al-Si alloy	Completed
Mohd Nazri bin Abdul Hamed	Study the effect of 0.02 wt.% Strontium (Sr) modifier on hardness and microstructure of Al-Si alloy casting	Completed

**December 2008-November 2009.**

Ainaa Zafirah Omar Arawi	The study of calcination of mussel shells for hydroxyapatite synthesis	Completed
Amaliza binti Ismail	Effect of sintering temperature on mechanical properties of hydroxyapatite pallets synthesized by microwave processing	Completed
Mohd. Zaidi Mohd. Noor	Study the effect of silver (Ag) substitution nano-hydroxyapatite synthesis by microwave processing	Completed

Hasbullah Azlan bin Abdul Halim	Study the effect of microwave power on microwave synthesis of nanostructure hydroxyapatite synthesized from $\text{Ca}(\text{OH})_2$ extracted from mussel shells.	Completed
Nurhaslina binti Abu Samah	The effect of irradiation time on microwave synthesis of nano HA using calcium hydroxide, extracted from mussel shell	Completed