

# CURRICULUM VITAE



## **NAJUA BINTI TULOS**

Senior Lecturer

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## **QUALIFICATIONS**

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Sept 2007 – Sept 2008

**MSc Clothing Management with Intelligent Textile**

Heriot-Watt University, United Kingdom

Master's Dissertation: *Advances Protective Clothing for Firefighters* (Supervised by Prof. Roger Wardman)

Jun 2004 – May 2007

**BSc (Hons.) Textile Technology**

Universiti Teknologi MARA, Malaysia

Final Year Project: *Seam Slippage of Different Seam Types using 100% Woven Polyester Fabric* (Supervised by Dr Suzaini Ab Ghani)

Final grade: First class, CGPA 3.50

## **PUBLICATIONS/ CONFERENCES**

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Nasa'ie Zainuddin, Asliza Aris, **Najua Tulos**, Muhammad Hisyam Zakaria (2020) The Evolution of Malay Bride's Traditional Wedding Attire in Peninsular Malaysia, *Environment-Behaviour Proceedings Journal*, 239-247.

**Najua Tulos**, David Harbottle, Andrew Hebden, Parikshit Goswami and Richard S. Blackburn (2019), Kinetic Analysis of Cellulose Acetate/Cellulose II Hybrid Fiber Formation by Alkaline Hydrolysis, *ACS Omega* 2019 4 (3), 4936-4942.

**Najua Tulos**, David Harbottle, Parikshit Goswami, Richard S. Blackburn. *Synthesis and Microencapsulation of Poly (N-Isopropylacrylamide) (PNIPAM) Microgels on Cellulose/Cellulose Acetate Hybrid Fibres: Effect of Deacetylation on Fibre Property*. In: Textile Institute World Conference 2018, 23rd-26th July 2018, Leeds UK.

**Najua Tulos**, David Harbottle, Parikshit Goswami, Richard S. Blackburn. *Characterisation and Differential Cross Section Study on Cellulose II/Cellulose Acetate Hybrid Fibres as a Potential for Controlled Drug Delivery*. In: Green Chemistry and Engineering Conference, 18th-20th June 2018 Portland, Oregon, USA.

Noraqilah Mohd Azis, Siti Farhanim Sarani, Eryna Nasir, **Najua Tulos** (2018), Effect of Launderings on the Pilling Properties of Cotton and Polyester Weft Knitted Fabrics, *Journal of Academia UiTM Negeri Sembilan*, Vol.6(2), 38-45.

Atiyyah Musa, Rong Hugh Gong, Eryna Nasir, Aznin Baharudin, **Najua Tulos** (2016), Analysis on Fibre Orientation of Thermal Bonded Nonwoven, *American Institute of Physics (AIP) Conference Proceedings 2016*.

Eryna Nasir, **Najua Tulos**, Syarina Ashikin Mohamad Zamri (2015), Gluta Aptera Dyeing on Surface Treated Knit Cotton Structure, *Advanced Research in Material Sciences, Manufacturing, Mechanical and Mechatronics Engineering Technology International Conference (AR4MET'2015)*.

Abu Bakar Mahamad Dom, Najua Tulos, Wan Yunus Wan Ahmad, Ahmad Faiza Mohd, Mohd Faizul Yahya (2015) Thermal Conductivity of Paraffin Wax as Microencapsulated Phase Change Material (PCM) Coated on Polyester Fabric. In: *International Conference on Advanced Computer Science and Information Technology (ICASIT-2015)*.

Eryna Nasir, Mohamad Sabree Reeza Mohd Khair, **Najua Tulos**, Atiyyah Musa, Aznin Baharudin, Suzaini Ab. Ghani (2014), Surface Appearance Changes of Bio-Finished Knitted Fabric. In: *International Colloquium on Textile Engineering, Fashion, Apparel and Design (ICTEFAD 2014)*.

Abu Bakar Mahamad Dom, Ahmad Faiza Mohd, **Najua Tulos**, Eryna Nasir & Wan Yunus Wan Ahmad (2014), Thermal Energy Storage of Polyester Fabric Coated with Paraffin Liquid as Microencapsulated Phase Change Material (PCM). In: *International Colloquium on Textile Engineering, Fashion, Apparel and Design (ICTEFAD 2014)*.

Eryna Nasir, **Najua Tulos**, Atiyyah Musa, Aznin Baharudin & Wan Syazehan Ruznan (2013), Dimensional Stability of Cotton/ Acrylic Plain Knitted Structure Produced with Flat-Bed Knitting, *Journal of Academia, UiTM Negeri Sembilan*.

Eryna Nasir, **Najua Tulos** & Siti Marsinah Tumin (2011), Dimensional Stability of Treated Cotton Knitted Fabric. In: *UiTM Sarawak Conference*.

**Najua Tulos**, Eryna Nasir & Wan Yunus Wan Ahmad (2011), *Colourfastness Properties of Treated Polyester Fabric*. In: National Academic Conference.

## RESEARCH GRANTS

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*Bio-Finish Treatment Parametric Structural Analysis* (2012-2014), **Research Acculturation Grant Scheme (RAGS)** of RM80,000.00 (Co-Researcher).

*Thermal Properties of Polyester Microencapsulated Phase Change Materials Coated Yarn* (2011-2013), **Fundamental Research Grant Scheme (FRGS)** of RM66,000 (Principal Researcher).

*The Application of Chitosan as An Anti-Shrinkage Treatment* (2010-2011), **Excellence Trust Fund (e-DANA, UiTM)** of RM7,000.00 (Co-Researcher).

*Application of Reactive Dyes on Polyester Fabric Using Nano-Particle Surface Coating and Surface Treatment Method* (2010-2011), **Excellence Trust Fund (e-DANA, UiTM)** of RM10,000.00 (Principle Researcher).

## SUPERVISIONS

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2019-2020	<i>Jeans Disposal Behaviour and Upcycling Product Acceptance Among UiTM Students</i> – Nur Shamirah Abd. Rahim
2019-2020	<i>Brand Perception: Price vs. Quality on Hijab</i> – Nur Syakirah Mohammad Tamizi
2019-2020	<i>Natural Colorant from 'Vitis Diffusa' Fruit</i> – Wan Nor Azian Mohd Rosli
2019-2020	Study on Dyeing Cotton Fabric with Spent Coffee – Mirrah Hani Shuhada
2019-2020	<i>Study on Fabric Bleaching by Natural Agents</i> – Farah Izzati Mohd Shuhairi
2014-2015	Effect of Laundering on Pilling Properties on Cotton and Polyester Weft Knitted Fabric Structure – Noraqilah Mohd Azis & Siti Nur Farhanim Sarani
2014-2015	Brand Perception: Comparison of Mechanical Properties for Boys School Uniform From different Types of Brands – Mohd Kanzairi Jamhari & Mohd Fahmie Mokhtar
2014-2015	The Effect of Weft Density and Draw-In Plan on the Permeability Performance of Fabric – Muhammad Naim Mohamed Khairi
2014-2015	Comparison of Pilling Properties on Cotton and Polyester Knitted Fabric by Human Analysis and Pill Grade Machine – Atherah Amalina Zubir

2014-2015	Baby's Detergent vs. Commercial Detergents: Effect on Physical Properties of 100% Cotton Napkins – Zulaika Mamat
2013-2014	The Dimensional Stability and Crease Recovery of Viscose Rayon Woven Fabric after Repeated Laundering – Farah Nabila Hamdar
2013-2014	The Effect of Softener on Drapability, Stiffness and Crease Recovery Angle on 'Tudung Bawal' – Effira Liza Razani
2013-2014	A Repeated Laundering Process of Knitted Cotton and Soy Fabric Affected on Physical Properties of Fabric – Siti Ruzianafiza Mohd Zin
2013-2014	Image Analysis of Pilling Properties on Polyester Fabric – Tunku Nazatul Syamim Tunku zainol rashid
2012-2013	The Development of Patient Clothing (IV Line) – Izzat Azizi bin Abdul Hamid
2012-2013	Consumer Buying Behaviour on Malaysian Batik – Muhammad Arif Mustaqim bin Mokhtar
2011-2012	A New Design of Clothing for Cerebral Palsy Children – Fatimah Jinlapudin
2011-2012	The Effect of Laundering Process on The Improved Underwire Bra – Siti Norsheda binti Zainuddin
2010-2011	Mangosteen Pericarp Dye for Printing Activity on Cotton Fabric using Natural and Synthetic Mordants – Fatin Fakhira Anuar
2010-2011	Natural Fabric Softeners from Citrus Fruits Fabric – Muna Mumtaz binti Abdul Muid
2009-2010	Construction of Conductive Wire into Woven Structure for Smart Textile Application – Nor Asmanizah binti Jalarludin
2008-2009	Development of Enzymatic Retting on Pineapple Leaf Fibres – Siti Hajar Mohd Zaki

## **CONSULTANCIES**

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2020	Kursus Pengenalan Kepada Fabrik (Kementerian Pertahanan Malaysia)
2012	Textile Testing (JAKEL TRADING)
2010	Textile Testing (KASTAM DIRAJA)
2009	Textile Testing (KASTAM DIRAJA)

## AWARDS

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2015-2019	Staff Academic Scholarship (awarded by Ministry of Higher Education, Malaysia)
2015	Excellent Service Award (awarded by UiTM)
2009	Bronze Award: Innovation, Invention, Design 2009, UiTM Shah Alam Treatment to Improve Dimensional Stability of Cotton Knitted Fabric
2007-2008	Young Lecturer Scheme Scholarship/ <i>Biasiswa Tenaga Pengajar Muda</i> (awarded by Government of Malaysia/ UiTM)