



## MOHD SHAM BIN MOHAMAD

### OFFICE ADDRESS :

CENTRE FOR MATHEMATICAL SCIENCES,  
UNIVERSITI MALAYSIA PAHANG,  
LEBUHRAYA TUN RAZAK,  
26300 GAMBANG, KUANTAN,  
PAHANG DARUL MAKMUR.

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### EDUCATION

- December 2008- March 2012      Universiti Teknologi Malaysia, Skudai, Johor  
Doctor of Philosophy (**Ph.D**), Mathematics  
Research Title: *Compatibility Conditions and Nonabelian Tensor Products of Finite Cyclic Groups of p-Power Order*
- June 2004- November 2005      Universiti Teknologi Malaysia, Skudai, Johor  
Master of Science (**M.Sc.**), Mathematics  
Dissertation Title: *The Probability That Two Elements Commute in Some 2- Generator 2- Groups of Nilpotency Class 2.*
- January 2001- April 2004      Universiti Teknologi Malaysia, Skudai, Johor  
Bachelor of Science (**B.Sc.**) (Hons) Industrial Mathematics with 2<sup>nd</sup> Class Upper  
Final Year Project Title: *Rationalization of Molecular Vibrations of Water (H<sub>2</sub>O) Molecule Via Group Theory*
- 1999-2000      SPM- MARA Junior Science College (MRSM) Muadzam Shah, Pahang  
1996-1998      PMR- Kluang High School (Sekolah Tinggi Kluang), Johor

### EXPERIENCE

- Since 15 September 2019  
Associate Professor in Mathematics
- Since 15 August 2019  
**Lecturer** at Center for Mathematical Sciences (PSM), Universiti Malaysia Pahang (UMP), Gambang, Kuantan.
- 15 May 2008 – 15 September 2019  
**Lecturer** at Faculty of Industrial Sciences & Technology (FIST), Universiti Malaysia Pahang (UMP), Gambang, Kuantan.
- 30 January 2010 – 15 April 2010  
**Part time lecturer** at Open University Malaysia (OUM), Johor Baharu Centre, Johor  
Subject: Numerical Methods
- 15 September 2009 – 30 December 2009  
**Part time lecturer** at Open University Malaysia (OUM), Johor Baharu Centre, Johor  
Subject: Advanced Mathematical Methods
- 18 January 2009 – 30 April 2009  
**Part time lecturer** at Open University Malaysia (OUM), Johor Baharu Centre, Johor  
Subject: Mathematical Methods
- 6 September 2008 – 16 December 2008  
**Part time lecturer** at Open University Malaysia (OUM), Kuantan Centre, Pahang  
Subject: Mathematical Analysis
- 1 February 2007 – 14 May 2008  
**Lecturer** at Faculty of Civil Engineering & Earth Resources (FKASA), Universiti Malaysia Pahang (UMP), Gambang, Kuantan.
- 18 June 2007 – 12 October 2007  
**Part time lecturer** at Islamic College Sultan Haji Ahmad Shah (KIPSAS), Kuantan, Pahang  
Subject: Discreet Mathematics

2 March 2006 – 31 January 2007

**Lecturer** at Faculty of Civil & Environmental Engineering (FKASA), University College of Engineering & Technology Malaysia (KUKTEM), Gambang, Kuantan

28 December 2005 – 1 March 2006

**Part time lecturer** at Faculty of Civil & Environmental Engineering (FKASA), University College of Engineering & Technology Malaysia (KUKTEM), Gambang, Kuantan.

1 September 2003 – 31 October 2005

**Part-time Research Assistant** in Mathematics Department, UTM, Skudai.

10 March -18 May 2003

**Trainee** at Guocera Tiles Industries (Kluang Operations), Kluang, Johor.

## EXPERIENCE JOB POSITION

(20 August 2019 – 19 August 2021) **Deputy Dean (Academic & Students Affairs)**

Centre for Mathematical Sciences

Universiti Malaysia Pahang.

(1 June 2008 – 31 October 2008) **Deputy Dean**

Faculty of Industrial Sciences & Technology (FIST)

Universiti Malaysia Pahang.

(1 July 2006 – 1 June 2008)

**Academic Advisor** of 20 Diploma of Civil Engineering Students  
Faculty of Civil Engineering & Earth Resources (FKASA), UMP

(1 July 2008 – 31 October 2008)

**Academic Advisor** of 3 Bachelor of Applied Science (Industrial Chemistry) Students  
Faculty of Industrial Sciences & Technology (FIST), UMP

## PROFESSIONAL MEMBER

Lifetime Member – National Level

Malaysian Mathematical Sciences Society (PERSAMA)

## RESEARCH GRANTS

Title : Determination of Nonabelian Tensor Products of Nontrivial  
Actions for Finite Cyclic 2-Groups  
Date of Research : 15/03/2019 - 14/03/2021  
Sponsor : UMP - RDU190308  
Amount : RM 22,800.00  
Researchers : Intan Sabariah Binti Sabri, **Mohd Sham Bin Mohamad**, Ku Muhammad Na'im  
Bin Ku Khalif

Title : Hesitant Linguistic Z-Numbers for Group Decision Making  
Date of Research : 15/03/2019 - 14/03/2021  
Sponsor : UMP - RDU190306  
Amount : RM 23,000.00  
Researchers : Ku Muhammad Na'im Bin Ku Khalif, Adam Shariff Bin Adli Aminuddin, **Mohd  
Sham Bin Mohamad**, Mohd Khairul Bazli Bin Mohd Aziz

Title : Enhancing Security of Cryptosystem using Automorphism of  
Cyclic Groups of p-Power Order  
Date of Research : 30/06/2017 - 29/06/2019  
Sponsor : UMP - RDU1703265  
Amount : RM 20,000.00  
Researchers : **Mohd Sham Bin Mohamad**, Mohd Khairul Bazli Bin Mohd Aziz, Adam  
Bin Samsudin, Adam Shariff Bin Adli Aminuddin, Yuhani Binti Yusof

Title : Topological Description of Epileptic Seizure Via Flat EEG  
Date of Research : 01/02/2014 – 31/2/2016  
Sponsor : RACE UMP - RDU141307  
Amount : RM 43,000.00  
Researchers : **Mohd Sham Mohamad** (Head Researcher), Yuhani Yusof, Tan Lit Ken,  
Tahir Ahmad

Title : Characteristics of First Stage DNA Splicing Languages via Yusof-Goode Approach  
Date of Research : 17/09/2013 – 16/9/2015  
Sponsor : UMP- RDU131404  
Amount : RM 56,342.00  
Researchers : Yuhani Yusof, **Mohd Sham Mohamad**, Mohd Fariduddin Mukhtar, Nor Haniza Sarmin, Mohd Firdaus Wahab

Title : Persistent and Permanent Properties of First Stage DNA Splicing Languages via Yusof-Goode Approach  
Date of Research : 25/06/2013 – 24/6/2015  
Sponsor : UMP - RDU130354  
Amount : RM 32,000.00  
Researchers : Yuhani Yusof, Nadirah Mohd Nasir, Norhayati Rosli, **Mohd Sham Mohamad**, Nor Haniza Sarmin

Title : Homological Functors of 2-Generator 2-Groups of Class Two  
Date of Research : 1 April 2009 – 31 March 2010.  
Sponsor : UTM. Vote No. 77922  
Amount : RM 10 000.00.  
Researchers : Nor Muhainiah Mohd Ali (Head Researcher), PM Dr Nor Haniza Sarmin, Ghazali Ismail@Semil and **Mohd Sham Mohamad**.

Title : Progress Score Card Application in Constaruction Industries  
Date of research : 1 September 2007 – 31 August 2008  
Sponsor : University Research Grant, RMC,  
UMP Amount : RM20 000.00  
Researchers : Yusof Hashim (Head Researcher), Mohd Rashid Ab Hamid, **Mohd Sham Mohamad**, Wan Azlee Wan Abdullah, Wafty Abd Rahman

## **SUPERVISION EXPERIENCES- FINAL YEAR PROJECT**

Ahmad Al-Bakri Ahmad Bistari, 2007  
TRIP GENERATION STUDY AT UMP

Nadjua Hanim Ismail, 2007 (Special Award from REM for degree academic writing)  
SPEED LIMITS DESIGN FOR THE ACCESS ROAD FROM FEDERAL ROUTE 2 TO EAST COAST EXPRESSWAY VIA GAMBANG TOLL

Zaidi Mohamad Nor, 2007  
DECISION MAKING USING ARTIFICIAL INTELLIGENT SYSTEM TO DETERMINE WATER QUALITY

## **AWARDS**

1. **Bronze Medal** in *Creation, Innovation, Technology & Research Exposition (CITReX 2014)*. Universiti Malaysia Pahang: 5-6 March

Project: DNA Splicing System Predictor.

Mohammad Hassan Mudaber, Yuhani Yusof and **Mohd Sham Mohamad**

2. **Best Presenter** in National Science Postgraduate Conference 2011 (NSPC 2011), Ibnu Sina Institute for Fundamental Science Studies, Universiti Teknologi Malaysia, Johor Bharu, Johor, Malaysia. 16-17 November 2011.

Research Title: The Computation of The Nonabelian Tensor Product of Cyclic Groups of  $p$ -Power Order.

3. **Silver Medal**, 19<sup>th</sup> International Invention, Innovation & Technology Exhibition, ITEX 2008, Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur Malaysia, 9<sup>th</sup>-11<sup>th</sup> May 2008.

Project: Development of Industrial Chemical Wastewater Treatment Facility Via LESTARI.

Abdul Syukor bin. Abd. Razak, Suryati biti Sulaiman, Nadiatul Adilah bt. Ahmad Abdul Ghani, Hasmanie bt. Abdul Halim, **Mohd. Sham bin Mohamad**, Aimi Ilmar bin Ramli

4. **Gold Medal**, in Pertandingan Rekacipta & Inovasi UMP 2008 for Konvokesyen Ke-3 UMP. Kuantan Prade, Kuantan, Malaysia, 22<sup>nd</sup> – 24<sup>th</sup> August 2008.

Project: Water Supply for Rural Area (WASRA)

Abdul Syukor bin. Abd. Razak, Assoc. Prof. Dr. Abdullah Ibrahim, Dr. Zulharisam bin Ab. Wahid, Suryati biti Sulaiman, Zahrizan bin Zakaria, Aimi Ilmar bin Ramli, Norasman bin Othman, Shairul Rohaziawati bt. Samad, Mohd. Rashid b Ab Hamid, **Mohd. Sham bin Mohamad**, Hasmanie bt Abd. Halim.

5. **First Winner**, in Pertandingan Rekacipta & Inovasi UMP 2008. Sempena Konvokesyen Ke-3 UMP. Kuantan Prade, Kuantan, Malaysia, 22<sup>nd</sup> – 24<sup>th</sup> August 2008.

Project: Water Supply for Rural Area (WASRA)

Abdul Syukor bin. Abd. Razak, Assoc. Prof. Dr. Abdullah Ibrahim, Dr. Zulharisam bin Ab. Wahid, Suryati biti Sulaiman, Zahrizan bin Zakaria, Aimi Ilmar bin Ramli, Norasman bin Othman, Shairul Rohaziawati bt. Samad, Mohd. Rashid b Ab Hamid, **Mohd. Sham bin Mohamad**, Hasmanie bt Abd. Halim.

6. **Special Award (Research & Development)** from FPG Oleochemical Sdn. Bhd., in Pertandingan Rekacipta & Inovasi UMP 2008. Sempena Konvokesyen Ke-3 UMP. Kuantan Prade, Kuantan, Malaysia, 22-24 August 2008.

Project: Water Supply for Rural Area (WASRA)

Abdul Syukor bin. Abd. Razak, Assoc. Prof. Dr. Abdullah Ibrahim, Dr. Zulharisam bin Ab. Wahid, Suryati biti Sulaiman, Zahrizan bin Zakaria, Aimi Ilmar bin Ramli, Norasman bin Othman, Shairul Rohaziawati bt. Samad, Mohd. Rashid b Ab Hamid, **Mohd. Sham bin Mohamad**, Hasmanie bt Abd. Halim.

7. **Silver Medal**, in BioInno Awards 2008. Held Alongside Bio-Malaysia Exhibition 2008. Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur Malaysia, 6-10 October 2010.

Project: LESTARI: Utilizing Natural Driven Process For Industrial Wastewater Treatment Towards an Environmental – Friendly Sustainable Development.

Abdul Syukor bin. Abd. Razak, Suryati biti Sulaiman, Dr. Zulharisam bin Ab. Wahid, Aimi Ilmar bin Ramli, Hasmanie bt. Abdul Halim, Kamariah bt. Mat Peah, **Mohd. Sham bin Mohamad**, Khairul Hasrul b. Abd. Razak.

8. **Bronze Medal**, in BioInno Awards 2008. Held Alongside Bio-Malaysia Exhibition 2008. Kuala Lumpur Convention Centre (KLCC), Kuala Lumpur Malaysia, 6<sup>th</sup> – 10<sup>th</sup> October 2008.

Project: Integrated Rainwater and Groundwater Harvesting via WASRA in Rural Area.

Abdul Syukor bin. Abd. Razak, Suryati binti Sulaiman, Dr. Zulharisam bin Ab. Wahid, Zahrizan bin Zakaria, Mohd. Rashid b Ab Hamid, Aimi Ilmar bin Ramli, Norasman bin Othman, Shairul Rohaziawati bt. Samad, Hasmanie bt Abd. Halim, **Mohd. Sham bin Mohamad**, Assoc. Prof. Dr. Abdullah Ibrahim.

9. **Silver Medal**, International Exhibition of Ideas-Inventions-New Products (IENA) 2008, Nuremberg, Germany, 30<sup>th</sup> October – 3<sup>th</sup> November, 2008.

Project: LESTARI: Utilizing Natural Driven Process For Industrial Wastewater Treatment Towards an Environmental - Friendly Sustainable Development.

Abdul Syukor bin. Abd. Razak, Suryati bitu Sulaiman, Dr. Zulharisam bin Ab. Wahid, Aimi Ilmar bin Ramli, Hasmanie bt. Abdul Halim, Kamariah bt. Mat Peah, **Mohd. Sham bin Mohamad**.

10. **Gold Medal**, in Seoul International Invention Fair 2008 (SIIF' 2008). COEX Pacific Hall, World Trade Centre, Seoul Korea, 11<sup>th</sup>-15<sup>th</sup> December 2008

Project: Integrated Rainwater and Groundwater Harvesting Via WASRA in Rural Area.

Abdul Syukor bin. Abd. Razak, Suryati binti Sulaiman, Dr. Zulharisam bin Ab. Wahid, Assoc. Prof. Dr. Abdullah Ibrahim. Zahrizan bin Zakaria, Hasmanie bt Abd. Halim, Norasman bin Othman, Shairul Rohaziawati bt. Samad, Aimi Ilmar bin Ramli, Kamariah bt Mat. Peah, **Mohd. Sham bin Mohamad**, Mohd. Rashid b Ab Hamid.

11. **Special Award** from President Korea Institute of Patent Information (KIPI) in Seoul International Invention Fair 2008 (SIIF' 2008). COEX Pacific Hall, World Trade Centre, Seoul Korea. 11<sup>th</sup> – 15<sup>th</sup> December 2008.

Project: Integrated Rainwater and Groundwater Harvesting Via WASRA in Rural Area.

Abdul Syukor bin. Abd. Razak, Suryati binti Sulaiman, Dr. Zulharisam bin Ab. Wahid, Assoc. Prof. Dr. Abdullah Ibrahim. Zahrizan bin Zakaria, Hasmanie bt Abd. Halim, Norasman bin Othman, Shairul Rohaziawati bt. Samad, Aimi Ilmar bin Ramli, Kamariah bt Mat. Peah, **Mohd. Sham bin Mohamad**, Mohd. Rashid b Ab Hamid.

12. **Silver Medal** in Seoul International Invention Fair 2008 (SIIF' 2008). COEX Pacific Hall, World Trade Centre, Seoul Korea. 11<sup>th</sup> – 15<sup>th</sup> December 2008.

Project: LESTARI: Utilizing Natural Driven Process For Industrial Wastewater Treatment Towards an Environmental – Friendly Sustainable Development.

Abdul Syukor bin. Abd. Razak, Suryati bitu Sulaiman, Dr. Zulharisam bin Ab. Wahid, Aimi Ilmar bin Ramli, Hasmanie bt. Abdul Halim, Kamariah bt. Mat Peah, **Mohd. Sham bin Mohamad**.

#### INDEXED PUBLICATION (ISI)

1. WH Azmi, KV Sharma, R Mamat, G Najafi, MS Mohamad. The enhancement of effective thermal conductivity and effective dynamic viscosity of nanofluids–A review. *Renewable and Sustainable Energy Reviews* 53, 1046-1058.
2. W. H., Azmi and Khamisah, Abdul Hamid and Usri, N. A. and R., Mamat and Mohd Sham, Mohamad (2016) *Heat Transfer and Friction Factor of Water and Ethylene Glycol Mixture Based TiO<sub>2</sub> and Al<sub>2</sub>O<sub>3</sub> Nanofluids Under Turbulent Flow*. *International Communications in Heat and Mass Transfer*, 76 . pp. 24-32. ISSN 0735-1933
3. W. H., Azmi and Khamisah, Abdul Hamid and R., Mamat and K. V., Sharma and Mohd Sham, Mohamad (2016) *Effects of Working Temperature on Thermo-Physical Properties and Forced Convection Heat Transfer of TiO<sub>2</sub> Nanofluids in Water–Ethylene Glycol Mixture*. *Applied Thermal Engineering*, 106 . pp. 1190-1199. ISSN 1359-4311

#### INDEXED PUBLICATION (SCOPUS)

1. Tan Lit Ken, Tahir bin Ahmad, Mohd Sham bin Mohd, Su Kong Ngien, Tohru Suwa, and Ong Sie Meng. Topological properties of flat electroencephalography's state space.. *AIP Conference Proceedings* 1705, 020016 (2016)
2. Tan Lit Ken, Tahir bin Ahmad, Mohd Sham bin Mohd, Lee Kee Quen. Topological Properties on the Space of Diffeomorphism of Dynamical Systems of Flat Electroencephalography. *International Journal Series in Multidisciplinary Research (IJSMR)*, Vol. 2, No. 2, 2016, pp. 14-26

3. Mohammad Hassan, Mudaber and Yuhani, Yusof and Mohd Sham, Mohamad and Aizi Nor Mazila, Ramli and Wen, Li Lim (2016) Modelling of Two Stages DNA Splicing Languages on De Bruijn Graph. *Jurnal Teknologi (Sciences and Engineering)*, 78 (1). pp. 73-78.
4. Mohammad Hassan Mudaber, Yuhani Yusof and **Mohd Sham Mohamad**. 2014. Some relations between two stages DNA splicing languages. *AIP Proceeding of the 3<sup>rd</sup> International Conference on Mathematical Sciences (ICMS3)*. **1602**: 254-259. ISI indexed.
5. Mohammad Hassan Mudaber, Yuhani Yusof, **Mohd Sham Mohamad** and Lim Wen Li. 2014. Persistency and permanency of two stages DNA splicing languages with respect to one initial string and two rules via Yusof-Goode (Y-G) approach. *AIP Proceeding of the 2<sup>nd</sup> ISM International Statistical Conference 2014 with Applications in Sciences and Engineering (ISM-II)*. MS Garden Hotel, Kuantan, Pahang, Malaysia: 12-14 Agust 2014. (In press)
6. Sahimel Azwal Sulaiman, **Mohd Sham Mohamad**, Yuhani Yusof, Tan Lit Ken, Tahir Ahmad, 2014. Compatible pair of non-trivial actions for some cyclic groups of 2-power order. *AIP Proceeding of The 2<sup>nd</sup> ISM International Statistical Conference 2014 with Applications in Sciences and Engineering (ISM-II)*. MS Garden Hotel, Kuantan, Pahang, Malaysia: 12-14 Agust 2014. (In press)
7. **Mohd Sham Mohamad**, Nor Haniza Sarmin, Nor Muhainiah Mohd Ali and Luise-Charlotte Kappe, "The Computation of the Nonabelian Tensor Product of Cyclic Groups of Order  $p^2$ ", *Jurnal Teknologi Special Edition (Sciences)*, Vol 57, No 1, pp 35-44.

#### NON-INDEXED PUBLICATIONS (JOURNAL)

1. Hazzirah Izzati Mat Hassim, Nor Haniza Sarmin, Nor Muhainiah Mohd Ali & **Mohd Sham Mohamad**, "On The Computations of Some Homological Functors of 2-Engel Groups of Order At Most 16", *Journal of Quality Measurement and Analysis*. 7(1) (2011), 153-159.
2. Abdulqader Mohammed bin Basri, Nor Haniza Sarmin, Nor Muhainiah Mohd Ali & **Mohd Sham Mohamad**, "Capability of Some Finite Metacyclic Groups", Laporan Teknik Jabatan Matematik, Fakulti Sains, Universiti Teknologi Malaysia, Technical Report of Department of Mathematics, Universiti Teknologi Malaysia. LT/M Bil.4/2011.
3. Mardziah Mohd Lokoman, Zaitul Marlizawati and **Mohd Sham Mohamad** (2008) Solving Obnoxious Facility Location Problem using Simulated Annealing. *KALAM*, Vol. 1 No. 1 (2008) pp 127-137.
4. Nor Haniza Sarmin and **Mohd Sham Mohamad** (2006) "The Probability That Two Elements Commute in Some 2-Generator 2-Groups of Nilpotency Class 2" Laporan Teknik Jabatan Matematik, Fakulti Sains, Universiti Teknologi Malaysia, Technical Report of Department of Mathematics, Universiti Teknologi Malaysia. LT/M Bil. /2006.
5. Nor Haniza Sarmin and **Mohd Sham Mohamad** (2004) -National Journal. *Teori Kumpulan Dan Getaran Molekul Air*. *Discovering Mathematics*, Vol. 26 Number 1 (2004) pp 26-35.

#### NON-INDEXED PUBLICATIONS (INTERNATIONAL PROCEEDING)

1. Sahimel Azwal Sulaiman, Mohd Sham Mohamad, Yuhani Yusof, Mohammed Khalid Shahoodh, 2016. *Number of Compatible Pair for Nontrivial Actions for Finite Cyclic 2-Groups*. Proceedings of 4th International Science Postgraduate Conference 2016 (ISPC2016). pp. 161-165
2. Mohammad Hassan Mudaber, **Yuhani Yusof** and Mohd Sham Mohamad. 2014. *Predicting the persistency and permanency as well as relations between two stages DNA splicing languages*. Proceedings of the 10<sup>th</sup> IMT-GT CMSA2014, pp. 199-206.
3. Nor Haniza Sarmin, **Mohd Sham Mohamad**, Nor Muhainiah Mohd Ali & Luise-Charlotte Kappe. 2011. Compatible Actions of Cyclic Groups of  $p$ -Power Order. Proceedings of The First Biennial International Group Theory Conference 2011 (BIGTC 2011), pp 53-54. ISBN: 978-967-0194-01-1.
4. Azrul Azim Mohd Yunus, Nor Haniza Sarmin, Nor Muhainiah Mohd Ali, **Mohd Sham Mohamad** and Hazzirah Izzati Mat Hassim. 2010. *The Homological Functors of Some Quaternion Groups*, Proceedings of The 2<sup>nd</sup> International Conference On Mathematical Sciences 2010.
5. Hazzirah Izzati Mat Hassim, Nor Haniza Sarmin, Nor Muhainiah Mohd Ali and **Mohd Sham Mohamad**. 2010.

*The Nonabelian Tensor Squares of Some 2-Engel Groups and Their Homological Functors*, Proceedings of The 2<sup>nd</sup> International Conference On Mathematical Sciences 2010.

6. Abdul Syukor bin. Abd. Razak, Assoc. Prof. Dr. Abdullah Ibrahim, Suryati binti Sulaiman, Zahrizan bin Zakaria, Yusof bin Hashim, Norasman bin Othman, Shairul Rohaziawati bt. Samad, Mohd. Rashid b Ab Hamid, **Mohd Sham bin Mohamad** (2008) Water Supply and Sanitation Programmes to Enhance the Quality of Life for Rural Population. International Conference on Civil Engineering 2008 (ICCE '08) Proceeding.
7. Yusof Hashim, Wan Azlee Wan Abdullah, Mohd Rashid Ab Hamid, **Mohd Sham Mohamad** and Wafty Abdul Rahman (2008) Perceptions of Progress Scorecard Applications in the Construction Industry. International Conference on Civil Engineering 2008 (ICCE '08) Proceeding.
8. Abdul Syukor bin. Abd. Razak., Suryati binti Sulaiman, Aimi Ilmar bin Ramli, Nadiatul Adilah Binti Abdul Ghani, Hasmanie binti Abdul Halim, **Mohd Sham bin Mohamad**, Lim Bee Tee (2008) Removal of Heavy Metals from Petrochemical Wastewater by using Phytoremediation at Gebeng, Kuantan. International Conference on Civil Engineering 2008 (ICCE '08) Proceeding.

#### NON-INDEXED PUBLICATIONS (NATIONAL PROCEEDING)

1. Compatible Pair of Nontrivial Actions for Cyclic Groups of 3-Power Order. Mohammed Khalid, Shahoodh and Mohd Sham, Mohamad and Yuhani, Yusof and Sahimel Azwal, Sulaiman (2016) Compatible Pair of Nontrivial Actions for Cyclic Groups of 3-Power Order. In: National Conference For Postgraduate Research (NCON-PGR 2016), 24-25 September 2016, Universiti Malaysia Pahang, Pekan. pp. 792-797.
2. Sahimel Azwal, Sulaiman and Mohd Sham, Mohamad and Yuhani, Yusof and Mohammed Khalid, Shahoodh (2016). *Compatible Pair Of Nontrivial Action For Finite Cyclic 2-Groups*. Proceedings of The National Conference for Postgraduate Research (NCON-PGR 2016), 24-25 September 2016, Universiti Malaysia Pahang (UMP), Pekan, Pahang. pp. 39-42.
3. Mohammad Hassan Mudaber, **Yuhani Yusof** and Mohd Sham Mohamad. 2014. Some sufficient conditions for persistency and permanency of two stages DNA splicing languages via Yusof-Goode approach. *AIP Proceeding of the 21<sup>st</sup> National Symposium on Mathematical Sciences (SKSM 21)*. **1605**: 591-595. ISI indexed.
4. Mohd Sham Mohamad, Nor Haniza Sarmin, Nor Muhainiah Mohd Ali and Luise-Charlotte Kappe (2011). *The Computation of The Nonabelian Tensor Product of Cyclic Groups of p-Power Order*, National Science Postgraduate Conference 2011 (NSPC 2011) Proceeding
5. Mohd Sham Mohamad, Nor Haniza Sarmin and Nor Muhainiah Mohd Ali (2010). *Compatible Actions Of Cyclic Groups Of 2-Power Order*, Proceedings of Seminar Kebangsaan Aplikasi Sains & Matematik (SKASM 2010) Sempena Simposium Kebangsaan Sains Matematik (SKSM 18).
6. Hazzirah Izzati Mat Hassim, Nor Haniza Sarmin, Nor Muhainiah Mohd Ali and Mohd Sham Mohamad (2010). *The Nonabelian Tensor Squares and Homological Functors of The Dihedral Group of Order Eight*, Proceedings of Seminar Kebangsaan Aplikasi Sains & Matematik (SKASM 2010) Sempena Simposium Kebangsaan Sains Matematik (SKSM 18).
7. Nor Haniza Sarmin, Nor Muhainiah Mohd Ali, Luise-Charlotte Kappe & **Mohd Sham Mohamad** (2009). *Compatible Actions for Cyclic 2-Groups and Their Nonabelian Tensor Product*, Simposium Kebangsaan Sains Matematik 2009 Proceeding.
8. Ghazali [Semil@Ismail](mailto:Semil@Ismail), Nor Haniza Sarmin, Nor Muhainiah Mohd Ali & **Mohd Sham Mohamad** (2009). *The Homological Functors of 2-Generator 2-Groups of Nilpotency Class Two of Type 2*. Simposium Kebangsaan Sains Matematik 2009 Proceeding.
9. Mardziah Mohd Lokoman, Zaitul Marlizawati and **Mohd Sham Mohamad** (2007). *Solving Obnoxious Facility Location Problem using Simulated Annealing*. 1st National Seminar on Numerical Optimization & Operational Research Proceeding.

10. Nor Haniza Sarmin, Hasmawi Mat Yusof and **Mohd Sham Mohamad** (2004). *Rationalization of Molecular Vibrations of Water ( $H_2O$ ) and Ammonia ( $NH_3$ ) Molecules Via Group Theory*. Annual Fundamental Science Seminar 2004 (AFSS 2004) Proceeding, (2004) pp 304-311.
11. Nor Haniza Sarmin and **Mohd Sham Mohamad** (2004). *Satu Aplikasi Teori Kumpulan Dalam Bidang Spektroskopi*. Prosiding Seminar Mengenang Jasa Profesor Dr. Shaharir Mohamad Zain (2004) pp 91-98.

## PATTERN

<i>(Title)</i>	<i>(Registration No.)</i>	<i>(Date/Year of patent)</i>	<i>(Level)</i>
Persistency and Permanency of DNA Splicing System Predictor	(c) <2016> Universiti Malaysia Pahang. 07 September 2016. 397.	07 September 2016	UMP
Computations on Some Characteristics of Finite Nonabelian Metacyclic p-Groups	UTM.J.01.12/27.1 3/1JLD37(100)	22 January 2013	UTM
GAP Algorithms on Some Characteristics of Finite Nonabelian Metacyclic p-Groups for Some Small Primes p (GAP_SSC_M)	UTM.J.01.12/27.1 3/1JLD37(100)	31 Disember 2012	UTM
GAP Algorithms on Finding Homological Functors of 2-Generator 2-Groups of Class 2 (GAP_HF(2G,cl2))	UTM.01.07/27.13/ 1 Jld 84-e (101))	20 April 2010	UTM
GAP Commands on Finding The Probability That Two Elements Commute in Some 2-Generator 2-Groups Of Nilpotency Class 2 (GAP_P(G)2Gcl2)	UTM.01.07/27.13/ 1 Jld 84-e (104)	20 April 2010	UTM