



UTM
UNIVERSITI TEKNOLOGI MALAYSIA

www.utm.my

UNIVERSITI TEKNOLOGI MALAYSIA (UTM)

马来西亚工艺大学(工大)

**Main Campus: Skudai, Johor Bahru
International Campus: Kuala Lumpur**

INSPIRING CREATIVE AND INNOVATIVE MINDS





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Vision & Mission

- **Our vision**

- To be recognised as a world-class centre of academia and technological excellence.

- **Our Mission**

- To be a leader in the development of human capital and innovative technologies that will contribute to the nation's wealth creation.

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Emblem & Motto

The Emblem

The colors of the emblem, maroon and gold are also the official colors of the university. Maroon symbolises not only the essential traits of the Malay race maturity, but also the fundamental characteristics of the nation. Gold symbolises high standards as well as the noble values.

The Golden Circle symbolises the magnificent universe entrusted upon mankind.



The Open Book in gold symbolises the Holy Quran, the source of knowledge.

The Crescent is the symbol of Islam.

The Round-Bottom Flask is a symbol of science which forms the basis of technology.

The Motto

"KERANA TUHAN UNTUK MANUSIA"
In the Name of God for Mankind.

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Institutional Goals

Goal 1 : Enhance Quality Education

**Goal 2 : Promote Excellence in Research,
Innovation and Graduate Education**

**Goal 3 : Enhance Professional Training and
Lifelong Learning**

Goal 4 : Enhance International Standing

Goal 5 : Strengthen Community Outreach

**Goal 6 : Provide Quality Management and
Effective Risk Management**

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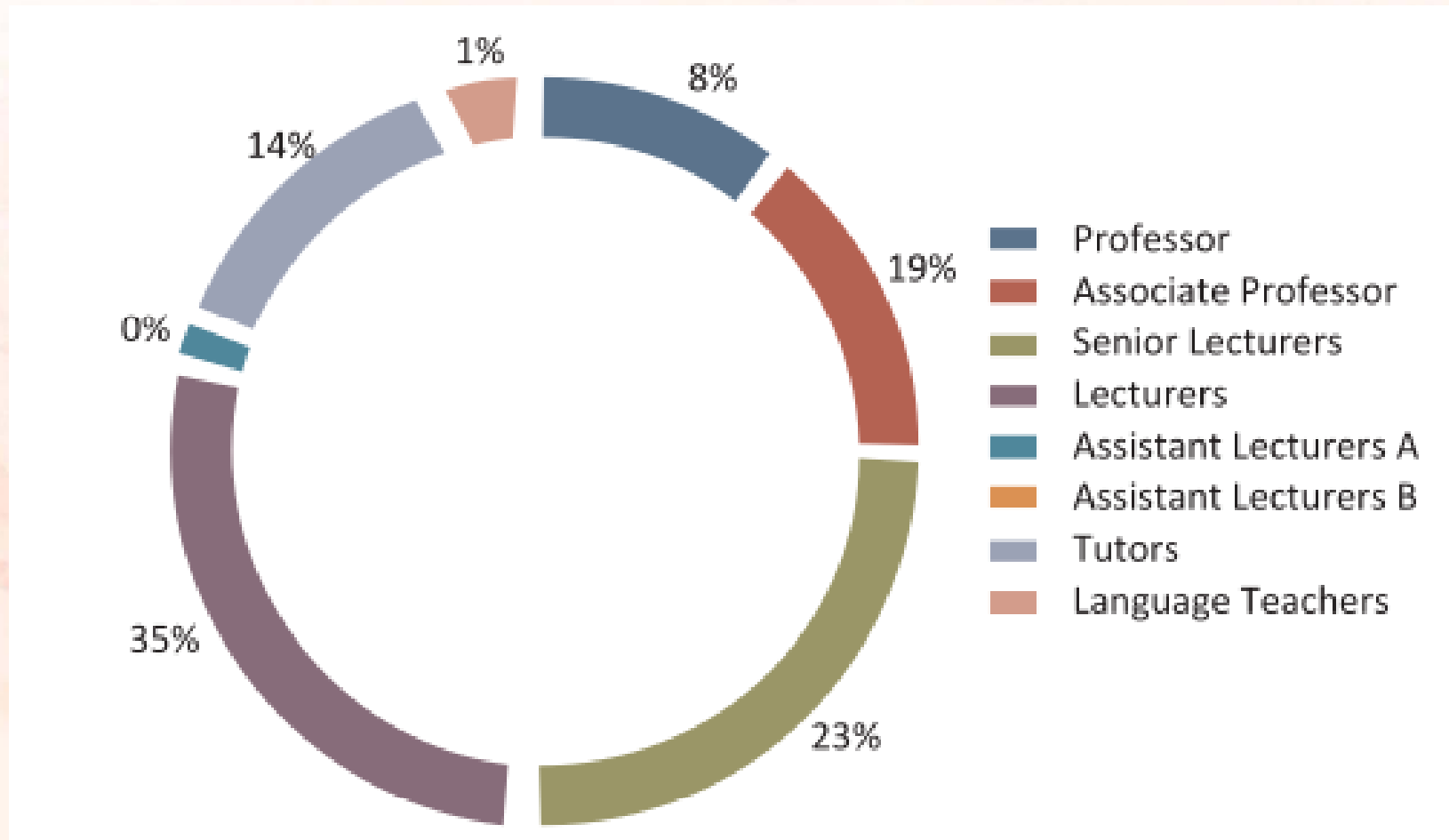


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Facts & Figures

Profile of Faculty Members and Staff



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UTM Faculties & Schools

Faculties & School

Faculty of Built Environment (FAB)

Faculty of Science (FS)

Faculty of Biosciences and
Bioengineering (FBB)

Faculty of Islamic Civilization

Faculty of Civil Engineering (FKA)

Faculty of Petroleum and Renewable
Energy Engineering (FPREE)

Faculty of Biomedical Engineering and
Health Science (FKBSK)

Faculty of Geoinformation and Real
Estate (FKSG)

Faculty of Electrical Engineering (FKE)

Faculty of Education (FP)

Faculty of Computer Science and
Information System (FSKSM)

Faculty of Management and Human
Resource Development (FPPSM)

Faculty of Chemical Engineering
(FChE)

Language Academy

Faculty of Mechanical Engineering
(FKM)

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UTM Faculties & Schools

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Graduate Studies

School of Graduate Studies (SPS)

UTM International Business School (IBS)

Advanced Informatics School (AIS)

Razak School of Engineering and Technology

UTM Perdana School of Science Technology and
Innovation Policy

Continuing Education

School of Professional and Continuing Education
(SPACE)

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Postgraduate Enrolment by Faculties / Schools

| Faculties / Schools | Local | | International | | Total |
|---|--------------|--------------|---------------|------------|--------------|
| | PhD | Master | Master | PhD | |
| Built Environment | 311 | 70 | 127 | 76 | 584 |
| Bioscience & Bioengineering | 114 | 20 | 58 | 7 | 199 |
| Civil Engineering | 482 | 117 | 182 | 80 | 861 |
| Biomedical Engineering & Health Science | 18 | 18 | 3 | 3 | 42 |
| Electrical Engineering | 570 | 147 | 230 | 123 | 1,070 |
| Chemical Engineering | 331 | 67 | 96 | 42 | 536 |
| Mechanical Engineering | 363 | 70 | 196 | 76 | 705 |
| Geoinformation & Real Estate | 271 | 113 | 36 | 26 | 446 |
| Education | 1,112 | 254 | 114 | 69 | 1,549 |
| Management & Human Resource | 332 | 100 | 63 | 122 | 617 |
| Petroleum Engineering | 24 | 10 | 16 | 12 | 62 |
| Science | 533 | 136 | 48 | 57 | 774 |
| Computer Science & Information System | 362 | 133 | 336 | 187 | 1,018 |
| Islamic Civilisation | 19 | 5 | - | - | 24 |
| International Business School | 264 | - | 152 | - | 416 |
| Graduate Studies | 16 | 20 | 1 | - | 37 |
| Advanced Informatics School | 17 | - | 22 | 2 | 41 |
| UTM Perdana | - | 6 | - | 1 | 7 |
| UTM Razak | 88 | 28 | - | 3 | 119 |
| Total | 5,227 | 1,314 | 1,680 | 886 | 9,107 |

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Research Alliances

SUSTAINABILITY

BIO-TECH

NANOTECHNOLOGY

WATER

INFOCOMM

K-ECONOMY

**TRANSPORTATION
TECHNOLOGY**

**MATERIALS &
MANUFACTURING**

ENERGY

CONSTRUCTION

**AUTOMATION
CYBERNETICS &
ENGINEERING**

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Centres of Excellence

Advanced Information Technology Institute (AITT)

Ibnu Sina Institute for Fundamental Science Studies (IIS)

Advanced Membrane Technology Research Centre (AMTEC)

Gas Technology Centre (GASTEG)

Advanced Photonic Science Institute (APSI)

Geo-Spatial Science and Technology Institute (INSTEG)

Centre of Advanced Software Engineering (CASE)

Institute of High Voltage and High Current (IVAT)

Centre of Artificial Intelligence and Robotics (CAIRO)

Centre of Lipids Engineering Applied Research (CLEAR)

Centre of Automotive Development (ADC)

Marine Technology Centre (MTC)

Centre of the Study Built Environment in the Malay World (KALAM)

Institute of Noise & Vibration (INV)

Chemical Engineering Pilot Plant (CEPP)

Photonics Technology Centre (PTC)

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Centres of Excellence

Coastal and Offshore Engineering Institute (COEI)

Centre for Real Estate Studies (CRES)

Centre of Composite (CC)

Steel Technology Centre (STC)

Centre of Electrical Energy System (CEES)

Centre for Technology Policy and International Studies (CENTEPIS)

Centre of Construction Technology & Management (CTMC)

Wireless Communication Centre (WCC)

Environmental & Water Resource Management Institute (IPASA)

Process Systems Engineering Centre (PROSPECT)

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Dewan Sultan Iskandar (DSI)



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UTM Library



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Faculty of Science (FS)

Department of Physics

Department of Chemistry

Department of Mathematics

**Ibnu Sina Institute for Fundamental
Science Studies (IIS)**

**Advanced Photonic Science Institute
(APSI)**

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Department of Mathematics
Faculty of Science
Universiti Teknologi Malaysia



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About Us

Department Structure

Staff Statistics

Academic Programs

Facilities

Research

Research Groups/Activities

Internationalization-

Network/ Global Outreach Program/ International Students

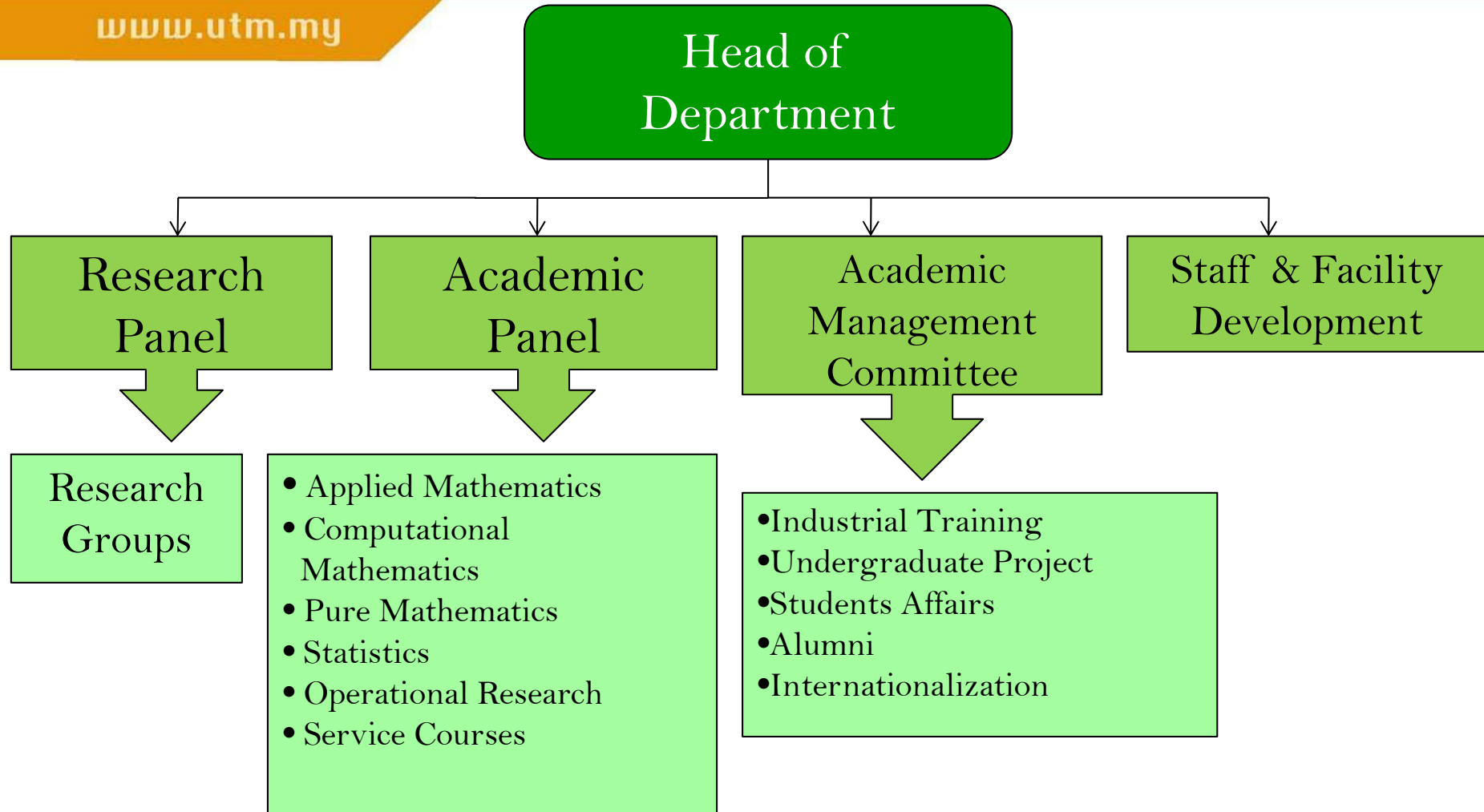
Industrial Linkages

Mathematics Industrial Study Group @ UTM





Department Structure





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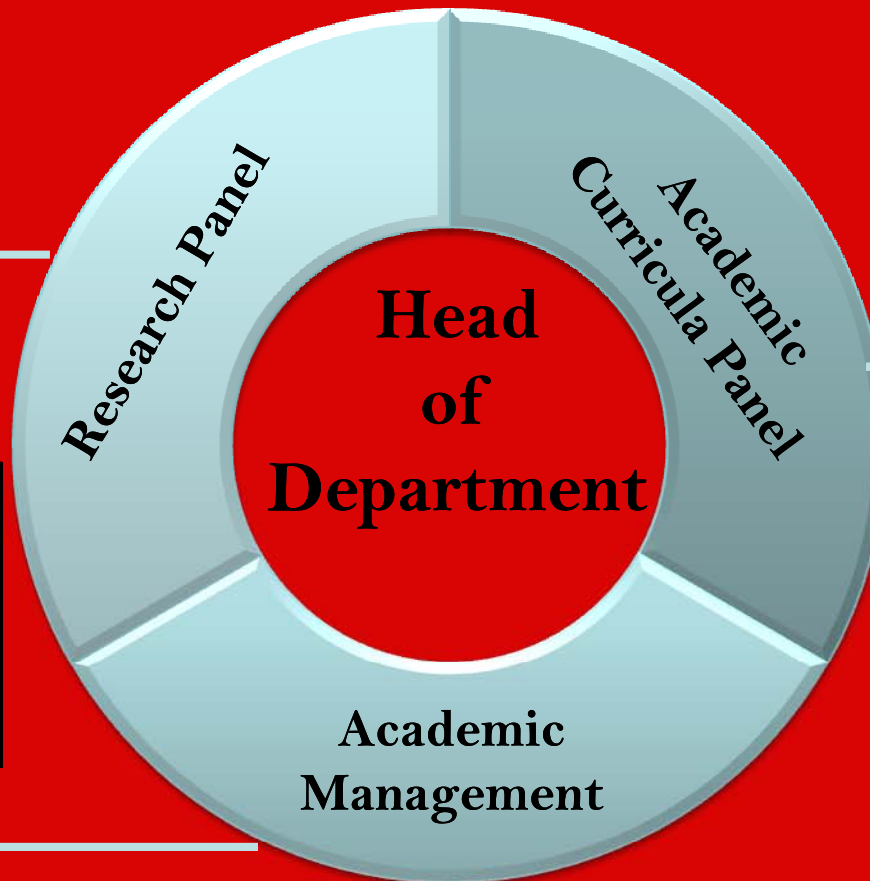
Department Structure



Head of Dept.
Assoc. Prof. Dr.
Zainal Abdul Aziz

Research
Groups

- Industrial Training
- Undergraduate Project
- Students Affairs
- Alumni
- Internationalization
- Facilities

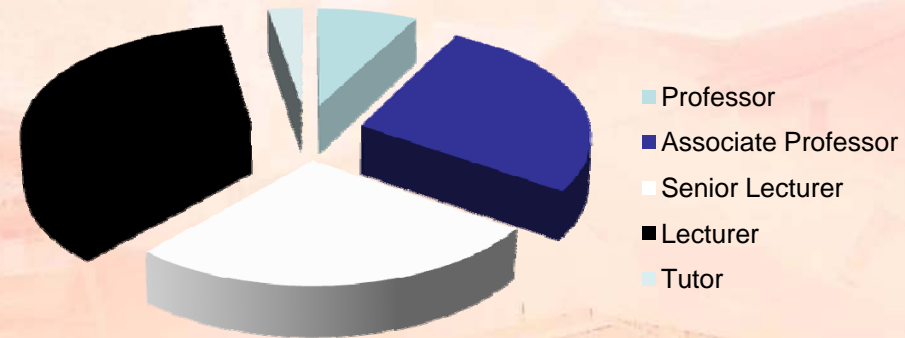


- Applied Mathematics
- Computational Mathematics
- Pure Mathematics
- Statistics
- Operational Research
- Service Courses



Academic Staff (72)

- Professors (5)
 Contract Professor (1)
- Associate Professors (21)
- Senior Lecturers (21)
- Lecturers (28)
- Tutors (2)



- **International Academic Staff (2)**
- **Support Staff (3)**
 IT Officer (1)
 Laboratory Assistants (2)

* Updated Oct 2010



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Academic Programmes



- **Undergraduate**
 - Bachelor of Science (Industrial Mathematics)
 - Bachelor of Science (Mathematics)
- **Postgraduate**
 - Taught Course & Research**
 - Masters of Science (Mathematics)
 - By Research**
 - Masters of Science (Mathematics)
 - Doctor of Philosophy (Mathematics)



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Students: 2010

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Postgraduate Program

| COURSE | |
|---------------|---------------------------------|
| Taught Course | M.Sc. (Mathematics) |
| | M.Sc. (Engineering Mathematics) |
| Research | M.Sc. (Mathematics) |
| | Ph.D. (Mathematics) |



Undergraduate Program

| COURSE |
|--------------------------------|
| B.Sc. (Industrial Mathematics) |
| B.Sc. (Mathematics) |
| |





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Facilities

- **Space - Block C10, C17, C22**
 - Computer Laboratories (3)
 - Postgraduate Room (1)
 - Computer Labs (3)
 - Thesis Room (1)
 - Presentation/Meeting Room (3)
 - Seminar Room (1)
 - Reading Room (1)



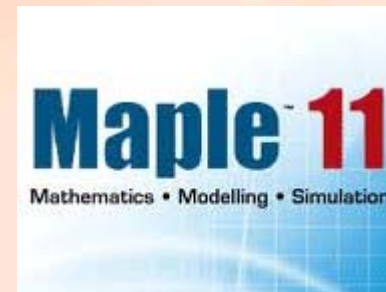
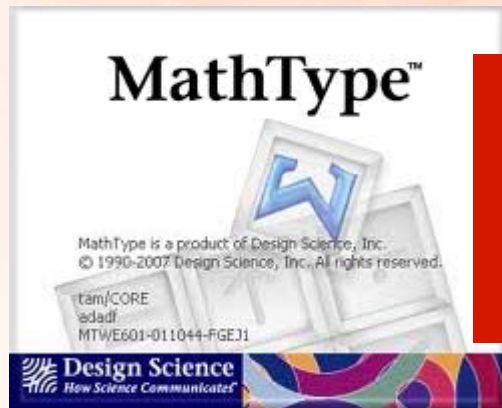
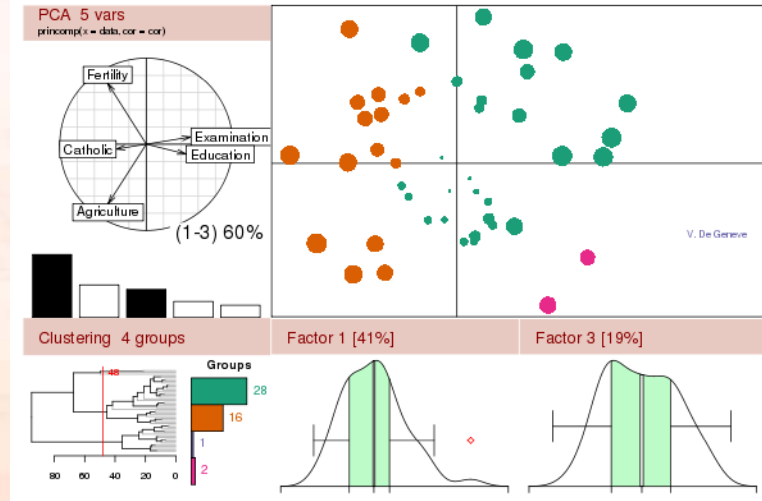
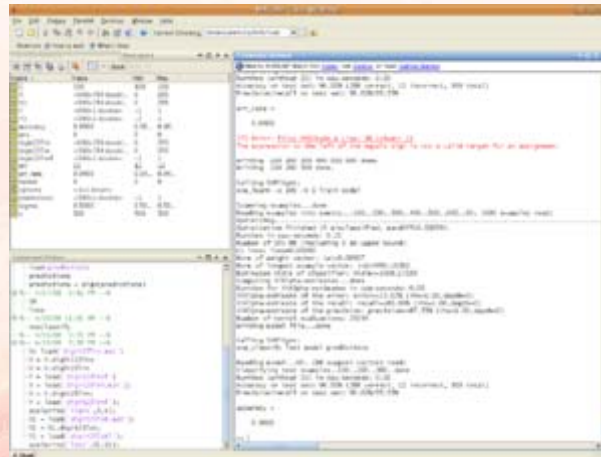
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Computing Facilities

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maple, mathtype, matlab, pcTex, winEdt, microsoftOffice

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RESEARCH ACTIVITIES



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UTM Research Alliances

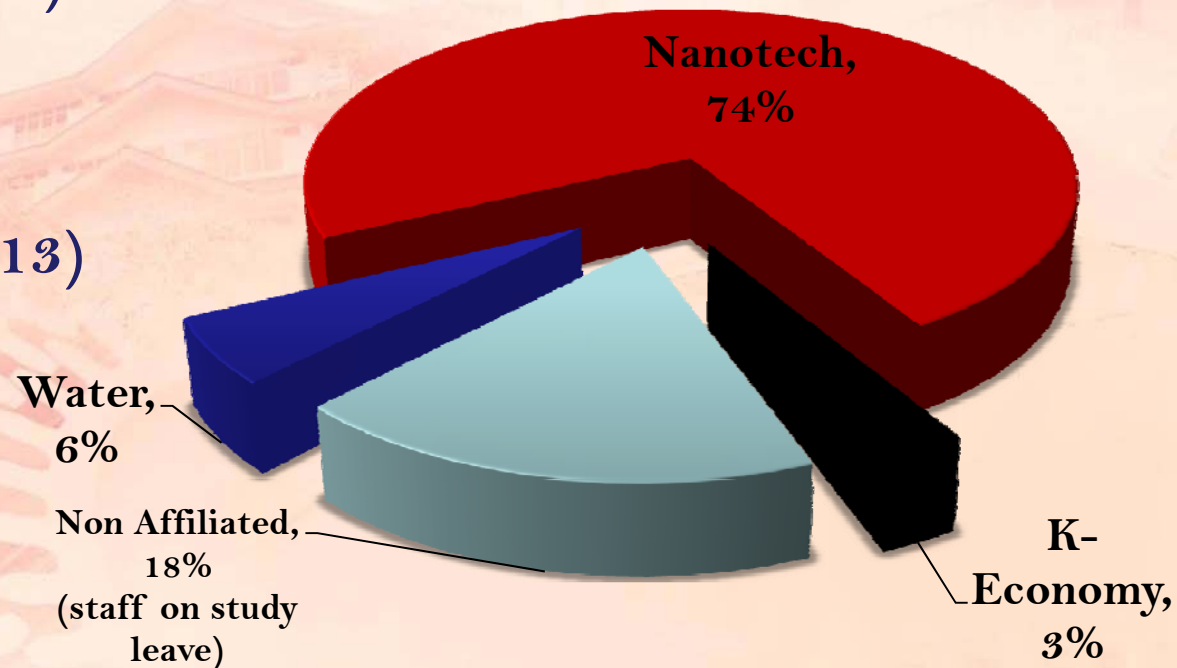
Affiliation Mathematics staff @ UTM Research Alliance

Nanotech RA (53)

Water RA (4)

K-economy (2)

Non-affiliated (13)





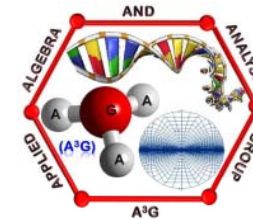
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Research Activities

Research Groups

Applied Algebra and Analysis Group (A³G)



Climate Change Research Group (CCRG)

Mathematics and Statistics in Industry Group (MSIG)

Theoretical & Computational Modeling for Complex Systems (TCM)

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Research Activities

APPLIED AND COMPUTATIONAL COMPLEX ANALYSIS RESEARCH GROUP (ACCAG)



RESEARCH AREA

Theoretical and numerical aspects of conformal mapping, complex boundary problems, special functions



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Research Activities

FLUID MECHANICS GROUP (FMG)



RESEARCH AREA

Mathematical Modeling of Industrial Fluid Flows, Physiological Fluid Flows, Low-gravity Transport Phenomena

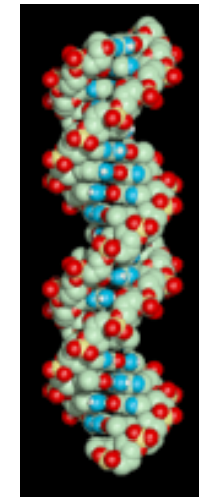


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Research Activities

DNA SPLICING RESEARCH GROUP (DSRG)

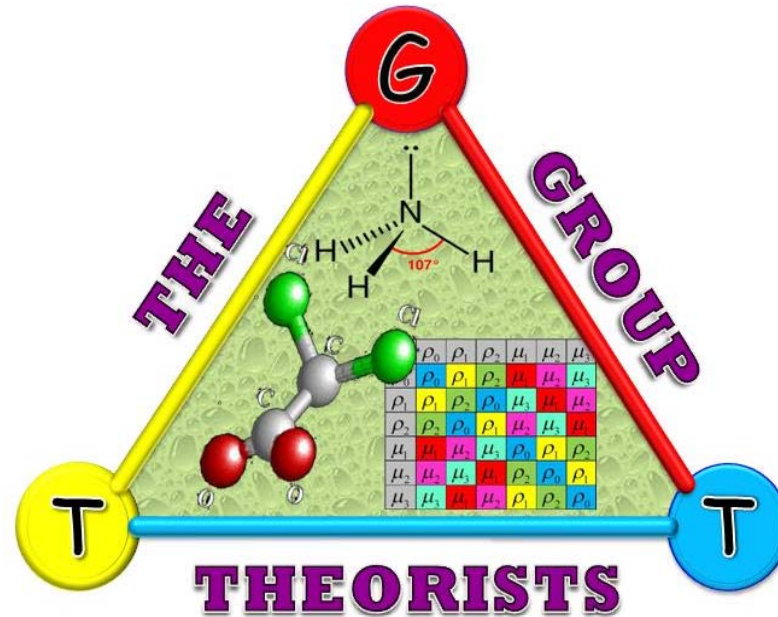


RESEARCH AREA

Formal Language Theory, Splicing Systems



THE GROUP THEORISTS (TGT)



RESEARCH AREA

Algebra, Analysis, Group Theory



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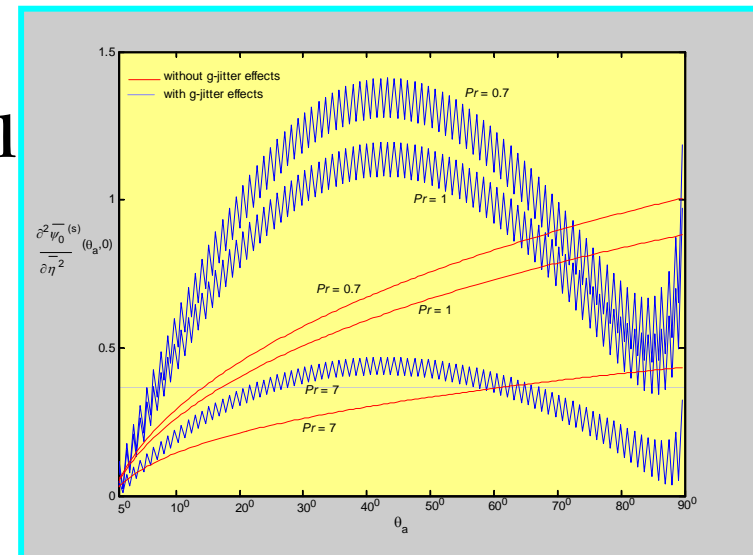
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Research Activities

NONLINEAR WAVES AND MATHEMATICAL PHYSICS GROUP (NLWMPG)

RESEARCH AREA

Nonlinear Waves and Mathematical
Physics





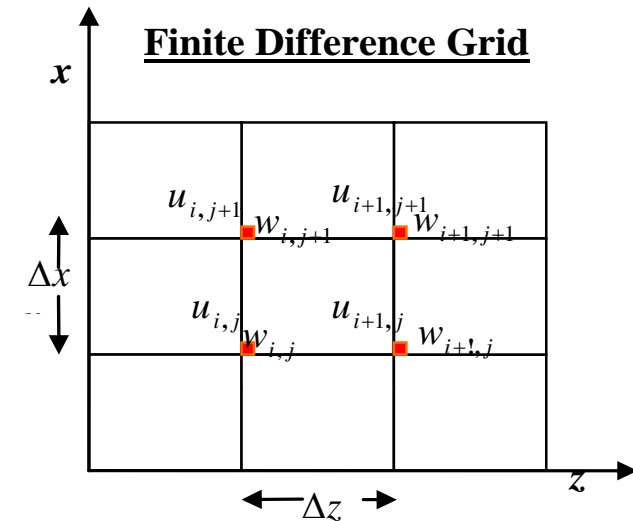
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INDUSTRIAL AND SCIENTIFIC COMPUTING RESEARCH GROUP (ISCRG)

RESEARCH AREA

Numerical Analysis or Numerical Computations, Symbolic Computations, Numerical Simulation and Visualization, Applications of Numerical or Algebraic Methods





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Research Activities

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RESEARCH GROUP ON MATHEMATICAL OPTIMIZATION (RGMO)



RESEARCH AREA

Algorithms for linear and nonlinear optimization

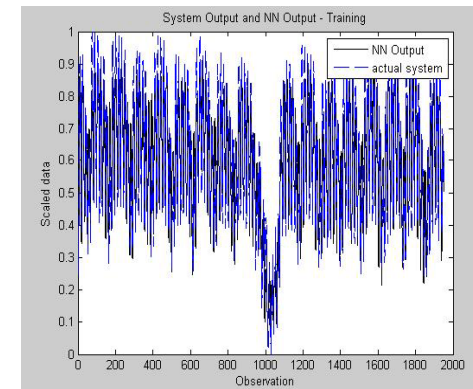
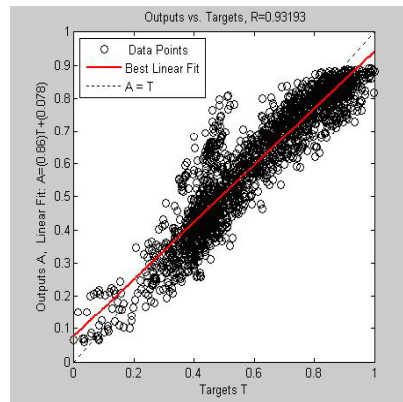


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Research Activities

STATISTICAL MODELING RESEARCH GROUP (STAM)



RESEARCH AREA
Statistical Modeling



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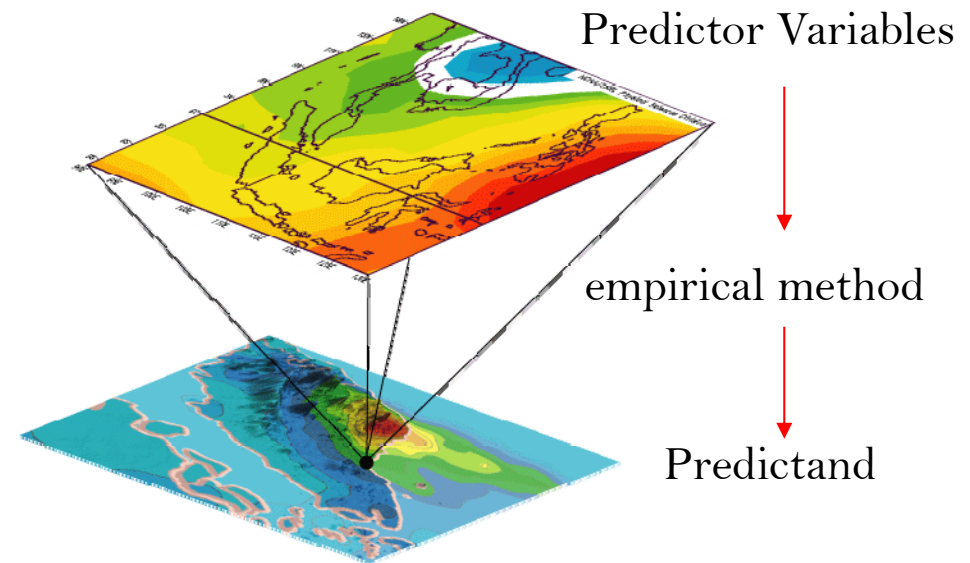
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Research Activities

CLIMATE CHANGE RESEARCH GROUP(CCRG)

RESEARCH AREA

stochastic rainfall modeling,
deterministic analysis of
rainfall and streamflow, flood
forecasting, weather typing and
climate index.

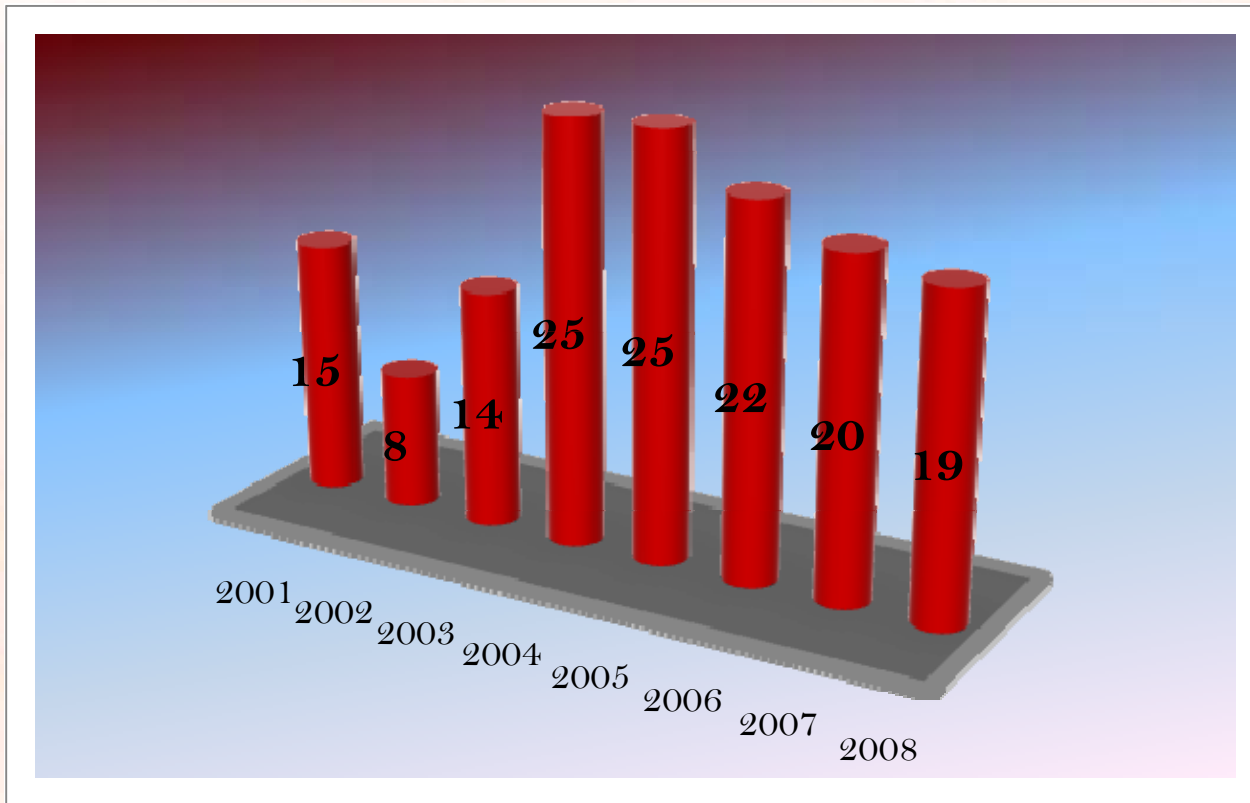




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Research Grants



Number of research grants 2001-2008



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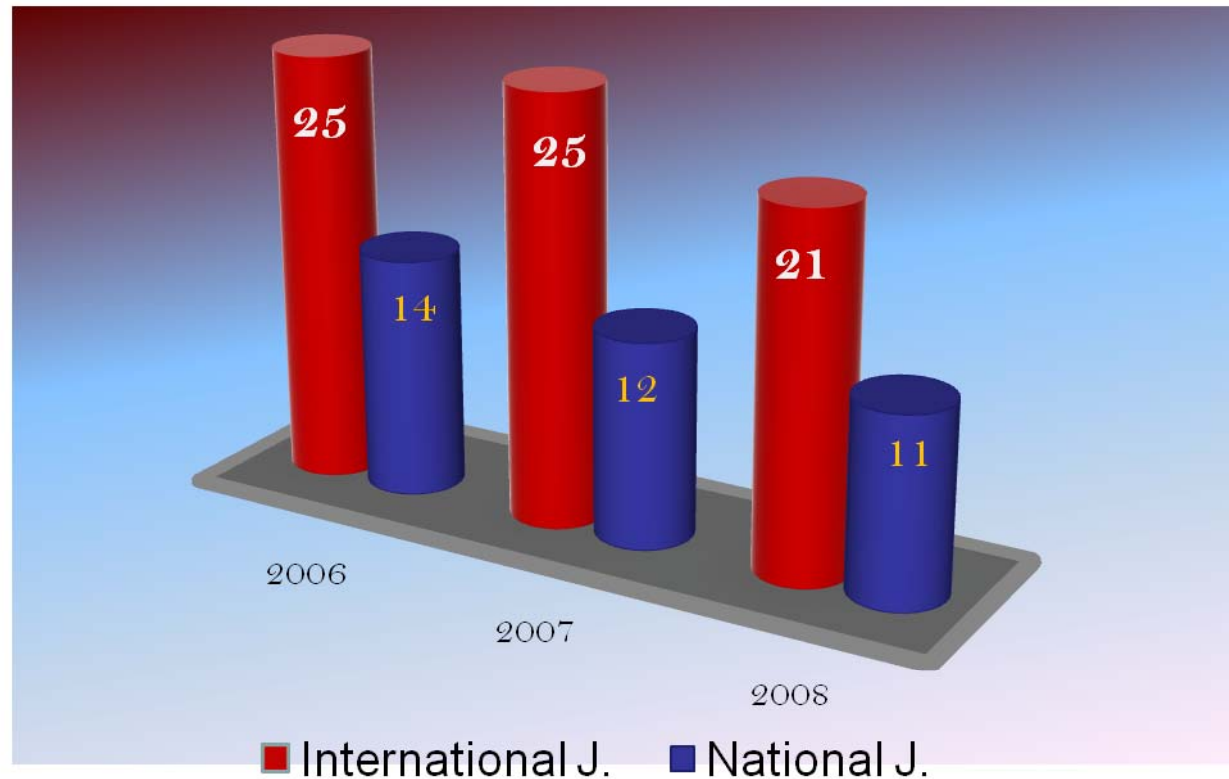
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Research Publications



MATEMATIKA

**Mathematics
Journal**



Number of research publications 2006-2008

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INTERNATIONALIZATION



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International Links & Collaborations

1. Centre for Mathematics in Industry
Massey University, New Zealand
(Industrial Mathematics)
2. Oxford Centre for Industrial and Applied
Mathematics (Industrial Mathematics)
3. University of Khartoum, Sudan
4. Institut Teknologi Sepuluh Nopember,
ITS, Surabaya
5. Kent University, UK (Actuarial Science &
Financial Mathematics)



ITS
Institut
Teknologi
Sepuluh Nopember

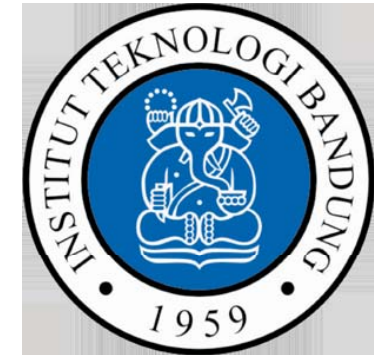




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6. Institut Teknologi Bandung, Indonesia
7. Quaid-i-Azam, Pakistan (Fluid Mechanics)
8. Binghamton University (Group Theory)
9. Ehime University, Japan (Complex Analysis)
10. University of Cluj, Romania (Fluid Mechanics)



Quaid-i-Azam, Pakistan



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International Network

Kent University, UK (Actuarial Science & Financial Mathematics)

Oxford Centre for Industrial and Applied Mathematics (Industrial Mathematics)

University of Kent



University of Cluj, Romania (Fluid Mechanics)

Ehime University, Japan (Complex Analysis)

Binghamton University (Group Theory)



Quaid-i-Azam, Pakistan (Fluid Mechanics)



University of Khartoum, Sudan



Institut Teknologi Bandung, Indonesia

Institut Teknologi Sepuluh Nopember, ITS, Surabaya



Centre for Mathematics in Industry Massey University, New Zealand (Industrial Mathematics)

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International Network

Kent Uni. Discussion 2010



Uni. Of Khartoum, Sudan visit 2010



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Students Outbound Program

**GOP Department of Mathematics,
UTM**

Outbound Programs:

- **UTM Global Outreach Program**
- **Mathematical Olympiad**



 Actual Student Outbound Programs
2008-2010

 Planned Student Outbound Programs



2010: Vietnam



2010: Seoul, Kr.- Hanyang



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INDUSTRIAL LINKAGES



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Industrial Linkages

Proton Plant visit 2010



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MISG network

Mathematics in
Industry
Study
Group

technology
transfer
between
Academic
Mathematicians
&
Industry
via
workshops.



MISG, Malaysia 2011

Date: 14-18th March 2011

Venue: UTM

Participating Academics:

UTM (MAS), Oxford Uni (UK), Massey Uni. (NZ),

Participating Industries:

MIMOS (IT), Johor State Govt. (Governmental), Hospital Sultanah Aminah (Medical), Proton Berhad (automotive), National Electric Board (Public Utilities), Bursa Malaysia (Stock Exchange) and MARDI (agriculture).



MASSEY UNIVERSITY



UNIVERSITY OF
OXFORD



YORK
UNIVERSITÉ
UNIVERSITY
redefine THE POSSIBLE.



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Awards

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Awards

- Normah Alias. Gold Medal in INATEX (UTM) 2004
- Normah Alias. Bronze Medal in ITEX (international-Malaysia) 2004
- Normah Alias. Bronze Medal in SIFF (International-Korea) 2004
- Shahrudin Salleh. Bronze Medal, "ESSR: Single-row routing technique for high-performance PCB designs", 32nd Int Expo on Inventions, New Ideas and Techniques, Geneva, Switzerland, 31 March - 3 April 2004
- Normah Alias. Silver Medal in IPTA Expo (Malaysia) 2005
- Zuhaimy Ismail. SILVER Award for The Genetic Algorithm Inspired Forecasting System (GA4Cast System) at The International Exposition of Research and Inventions of Institutions of Higher Learning 2007 (PECIPTA07), 10-12 August 2007.
- Ismail Mohamad. Malaysia Technology Expo 2007. Rainfall Missing Data Imputator(RaMeDy). 29-31 March 2007. *Pingat Emas (Ahli)*
- Ismail Mohamad. Malaysia Technology Expo 2007. Rainfall Missing Data Imputator(RaMeDy) 29-31 March 2007. *The Very Best Award.* (Ahli)
- Ismail Mohamad. INPEX 2007, Pittsburgh, PA USA. Rainfall Missing Data Imputator(RaMeDy) version 1.0. 6-9 Jun 2007. *Pingat Perak* (Ahli)
- Norhaniza Sarmin. Bronze Medal, 'GAP Algorithms for Homological Functors of Infinite 2-Generator Groups of Class 2', INATEX 2009.
- Norhaniza Sarmin. Bronze Medal, 'Output Visualization of Adult and Limit Languages in Splicing System', INATEX 2009
- Norhaniza Sarmin. Silver Medal, 'Gel-photo Visualization of Adult and Limit Languages in Splicing System', MTE 2010



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Copyrights

- 1. Nor Haniza Sarmin & Yuhani Yusof, "GAP Algorithms on Detecting 2-Engel Groups of Order at Most 20 (GAP_D2E)".
- 2. Nor Haniza Sarmin & Yuhani Yusof, "GAP Algorithms on Presenting Characteristics of 2-Engel Groups of Order at Most 20 (GAP_C2E)".
- 3. Nor Haniza Sarmin & Yuhani Yusof, "GAP Algorithms on Finding $P(G)$ of 2-Engel Groups of Order at Most 20 (GAP_P(G)2E)".
- 4. Nor Haniza Sarmin, Nor Muhainiah Mohd Ali, Mohd Sham Mohamad & Ghazali Ismail, "GAP Simulations on Finding Homological Functors of 2-Generator 2-Groups of Class 2 (GAP_HF(2G,cl2))".
- 5. Nor Haniza Sarmin, Nor Muhainiah Mohd Ali & Mohd Sham Mohamad, "GAP Commands on Finding The Probability That Two Elements Commute in Some 2-Generator 2-Groups Of Nilpotency Class 2 (GAP_P(G)2Gcl2)".
- 6. Nor Haniza Sarmin & Azhana Ahmad, "GAP Programmes on Finding the Conjugacy Classes of 2-Generator p-Groups of Nilpotency Class Two (GAP_cl(2G,pG))".
- 7. Nor Haniza Sarmin, Nor'aini Aris & Rohaidah Masri, "GAP Codes for Finding The Nonabelian Tensor Squares of Certain Bierberbach Groups With Point Groups C_2 (GAP_NTS(BG,C2))".
- 8. Nor Haniza Sarmin, Nor'aini Aris & Rohaidah Masri, "GAP Codes for Finding The Nonabelian Tensor Squares of Certain Bierberbach Groups With Point Groups $C_2 \times C_2$ (GAP_NTS(BG,C2xC2))".
- 9. Nor Haniza Sarmin, Fong Wan Heng, Noor Aini Abd Rashid & Mohd Firdaus Abd Wahab, "Output Visualization of Adult and Limit Language In a Splicing System", Jan 2010.





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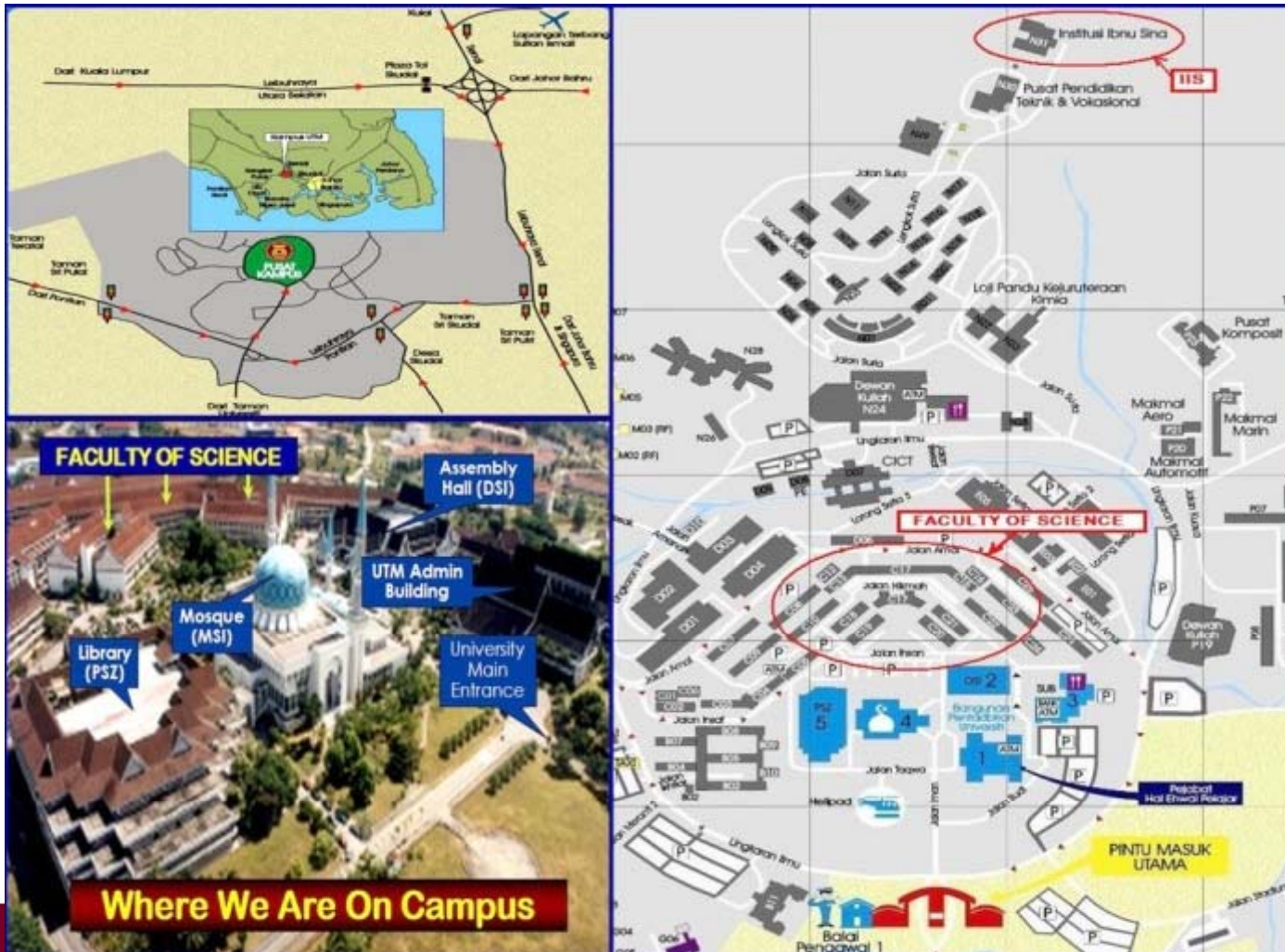


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Centre of Excellence

Ibnu Sina Institute for Fundamental Science Studies





IBNU SINA INSTITUTE for Fundamental Science Studies

VISION & MISSION

VISION

To be a world-class center of excellence through
fundamental science research

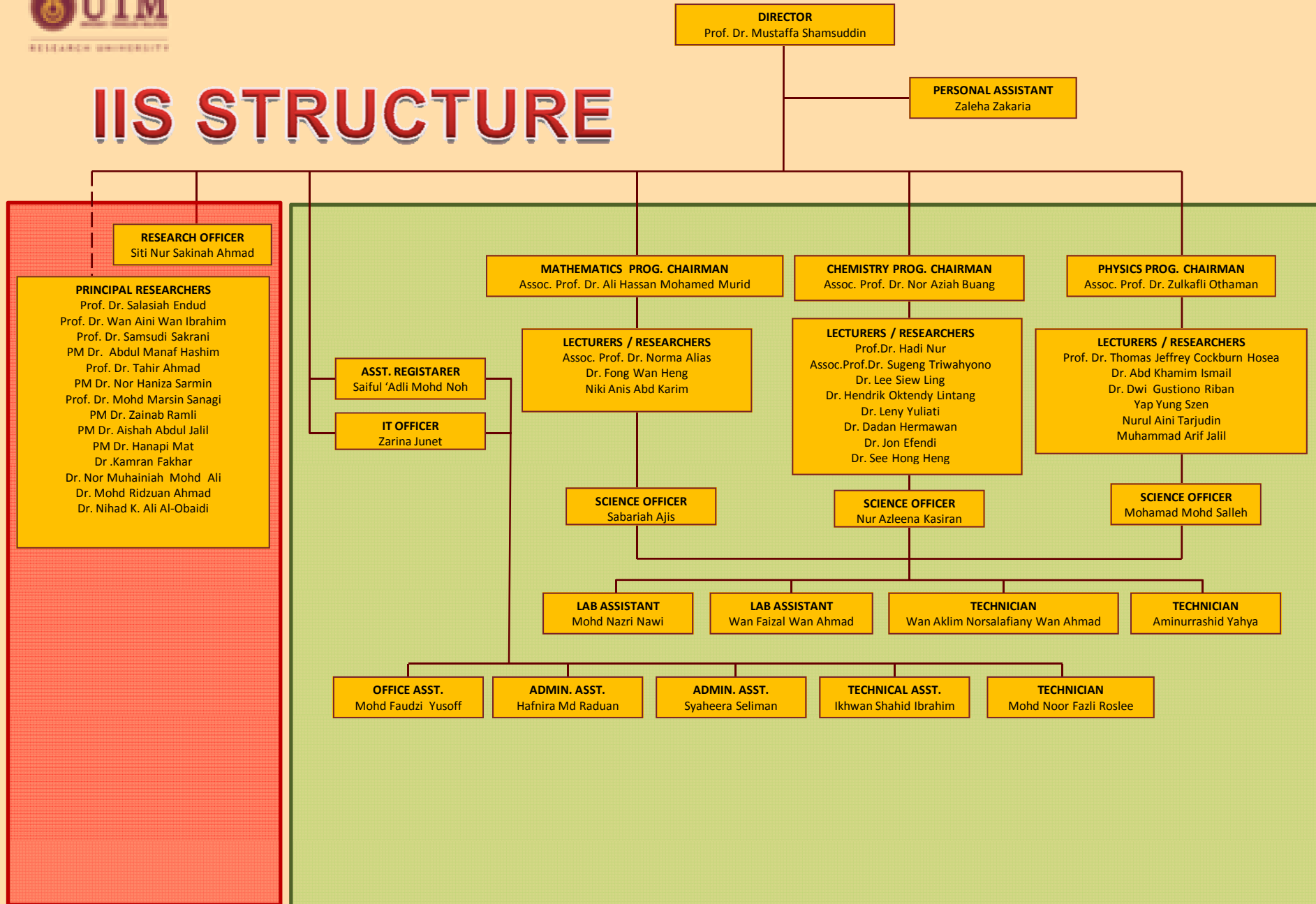
MISSION

To lead the advancement of knowledge through
frontier science research

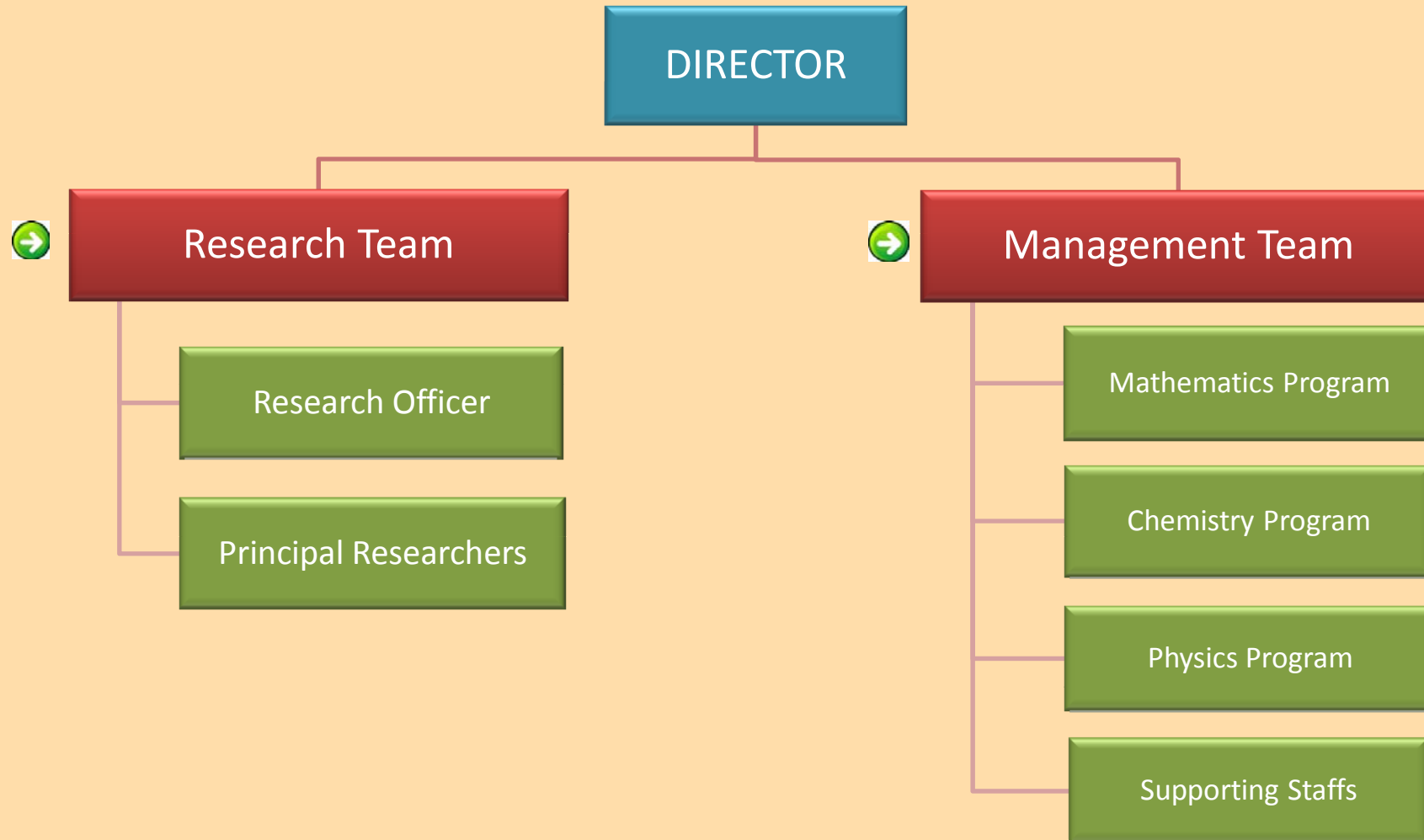
OBJECTIVES

- ✓ To provide conducive environment for fundamental science research
- ✓ To provide state-of-the-art facilities for fundamental science research
- ✓ To promote scientific culture
- ✓ To instill public awareness on the importance of fundamental science

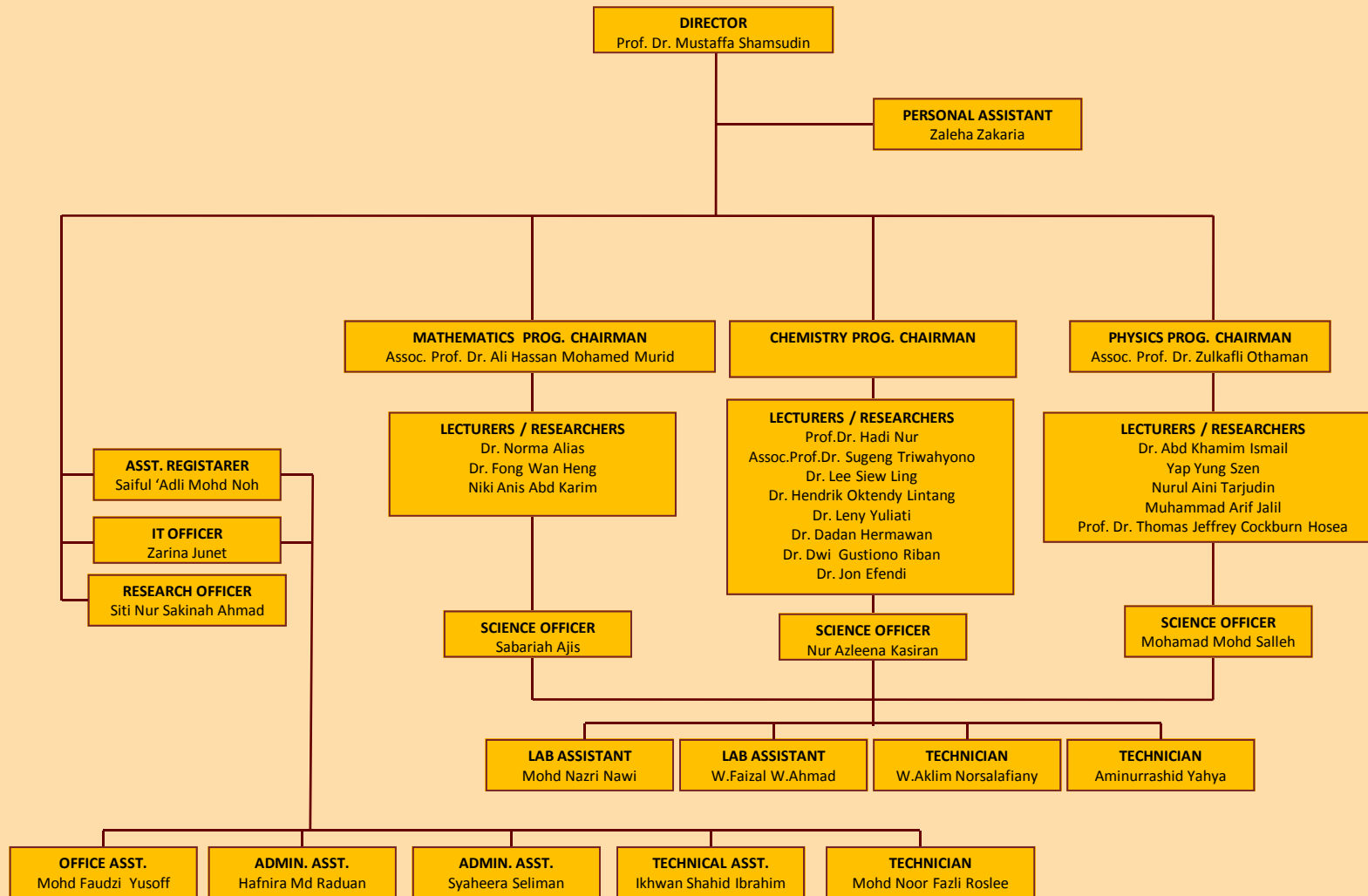
IIS STRUCTURE



IIS ORGANIZATION



MANAGEMENT TEAM



RESEARCH TEAM

| Principal Researchers | Expertise |
|--|--|
| <p>Prof. Dr. Hadi Nur Prof. Dr. Salasiah Endud Prof. Dr. Wan Aini Wan Ibrahim Prof. Dr. Samsudi Sakrani PM Dr. Abdul Manaf Hashim Prof. Dr. Tahir Ahmad PM Dr. Nor Haniza Sarmin Prof. Dr. Mohd Marsin Sanagi Prof. Dr. Mustaffa Shamsuddin Prof. Dr. Jeffrey Hosea PM Dr. Sugeng Triwahyono PM Dr. Zainab Ramli PM Dr. Norma Alias Dr. Abdul Khamim Ismail Dr. Leny Yuliaty</p> | <p>Catalysis Mesoporous Materials Separation Science Silicon Nanostructures Semiconductor Mat. & Device Process Tech. Mathematical & Fuzzy Modeling Group Theory Separation Science Catalysis</p> <p>Catalysis Mesoporous Materials High Performance Computing MEMS & Nanostructures Catalysis</p> |

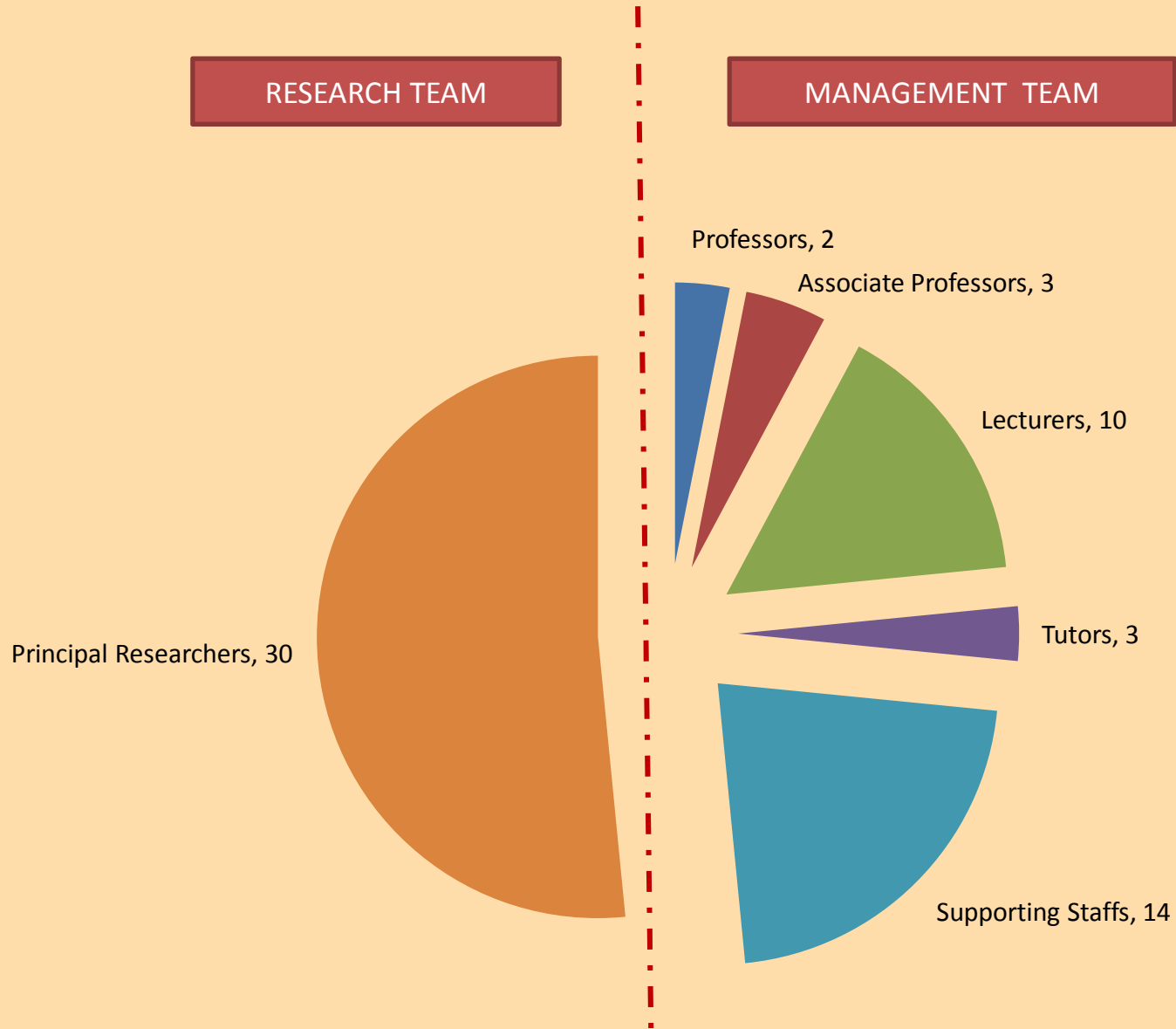
***Research Members with their expertise*

RESEARCH TEAM (Cont.)

| Principal Researchers | Expertise |
|---|--|
| <p>Dr. Hendrik Oktendy Lintang Dr. Jon Efendi Dr. Dwi Gustiono Dr. Fong Wan Heng Dr. Lee Siew Ling Dr. Dadan Hermawan Dr. See Hong Heng PM Dr. Aishah Abdul Jalil</p> <p>PM Dr. Hanapi Mat</p> <p>PM Dr. Zulkafli Othaman Dr. Kamran Fakhar PM Dr. Ali Hassan Mohamed Murid Dr. Nor Muhainiah Dr. Mohd Ridzuan Ahmad</p> <p>Dr. Nihad K. Ali Al-Obaidi</p> | <p>Inorganic Polymer Coordination Chem. & Catalysis Biocompatible Materials Formal Language Theory Mesoporous Materials Separation Science (Pharmaceutical) Separation Science Molecular Chem., Electrochemical, Adv. Mat. & Green Tech. & Catalytic Reaction Chem. Eng., Separation Process, Mat. Sci. & Tech.</p> <p>III-V Semiconductor Nanostructures Homotopy Analysis Method Applied & Computational Complex Analysis Group Theory Nanobiotech., Nanorobotics & Biomanipulation Synthesis & Characterization of Nanostructures Mat. & Solid State Physics</p> |

***Research Members with their expertise*

MANPOWER IN IIS



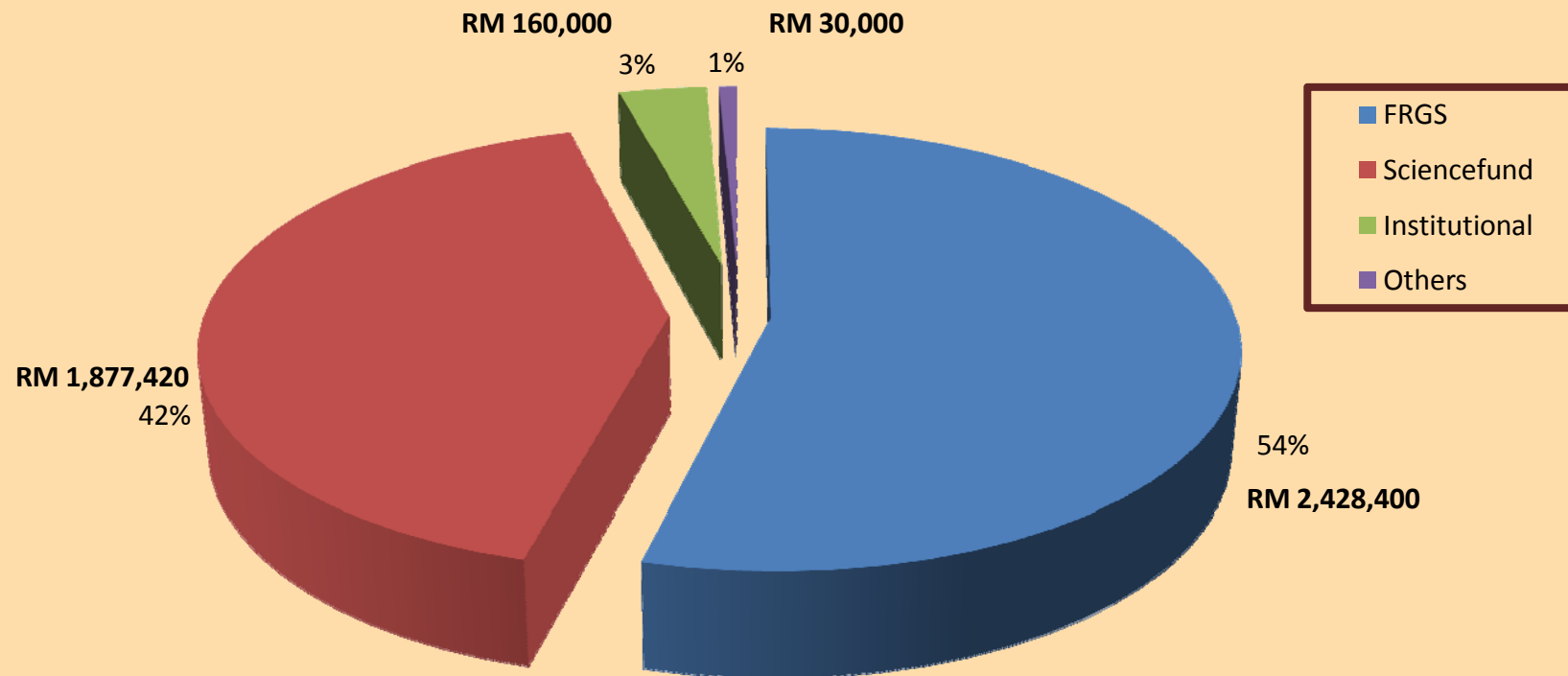
IIS ACHIEVEMENT

| | |
|---------------------------------|---------------------|
| No. of Publication | 102 |
| Cumulative Impact Factor | 62.477 |
| Grants | RM 4,495,820 |

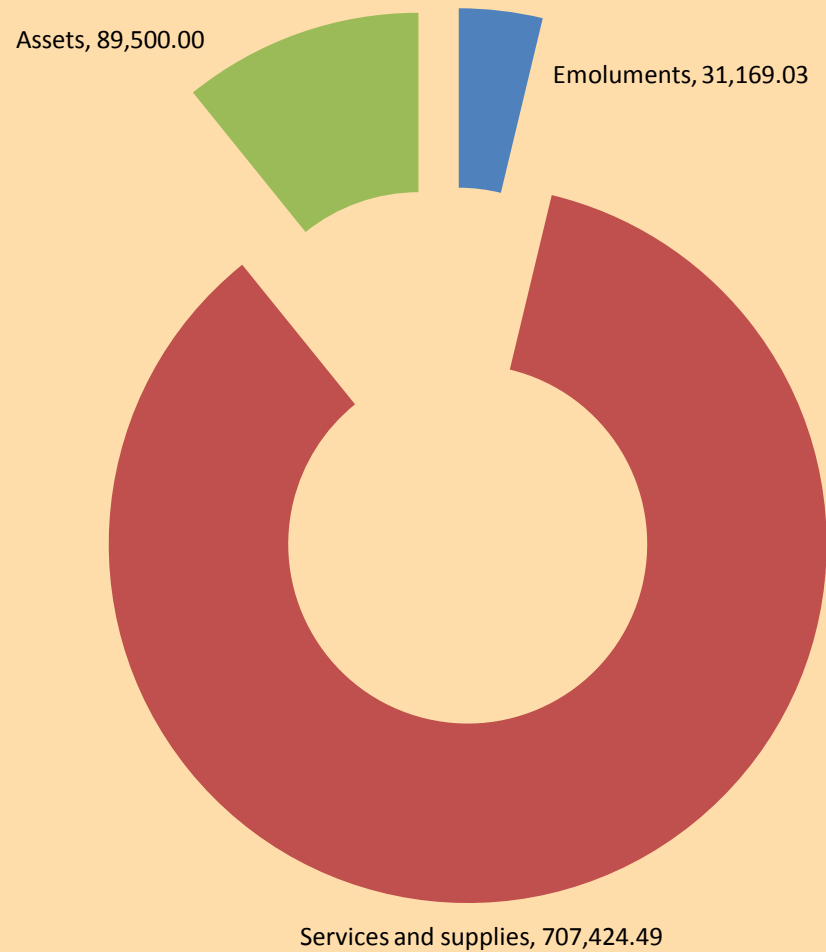
| AWARDS | | | | |
|---|-------------|---------------|---------------|--------------|
| Internal Exhibition | Gold | Silver | Bronze | Total |
| Industrial Art and Technology Exhibition (INATEX) | 1 | 1 | 0 | 2 |
| National Exhibition | Gold | Silver | Bronze | Total |
| Malaysia Technology Exhibition (MTE) | 2 | 1 | 5 | 8 |

| INTELLECTUAL PROPERTY | |
|------------------------------|---|
| Patent Pending | 4 |
| Copyright | 9 |
| Utility Innovation Pending | 1 |

PROJECTS & GRANTS ALLOCATION



IIS BUDGET



IIS ACTIVITIES

➤ Regional Annual Fundamental Science Symposium 2010 (RAFSS 2010)

➤ IIS Seminar Series 22 ~ 28 by:-

- Professor Dr. Mamoun Bader, Pennsylvania State University, USA
- Dr. Mary Cordova, Universidad Central de Venezuela
- Dr. Dadan Hermawan, Ibnu Sina Institute, UTM
- Professor Dr. Victor Emmanuel Malyskin, Institute of Computational Mathematics and Mathematical Geophysics (ICM & MG) of the Russian Academy of Sciences (RAS), Novosibirsk, RUSSIA
- Professor A H Kara, University of the Witwatersrand, Johannesburg
- Dr. Leny Yuliati, , Ibnu Sina Institute, UTM
- Prof. Dr. Hong Dang Phuc, Institute of Mathematics, Hanoi (Vietnamese Academy of Science & Tecnology)



➤ Scientific Talk by Professor Akio Mashima & Professor Toshifumi Tsukahara, Japan Advanced Institute of Science and Technology (JAIST)

➤ Seminar Talk by Prof. Dr. Peter C. Hauser, University of Basel, Switzerland

➤ Algebra Seminar Series Semester I, 2010/2011

➤ Excellent Scientist Program 2010



IIS ACTIVITIES (Cont.)

- Workshop on Conversion of Mathematical Modeling to an Efficient Digital Subroutine Library
 - Research Grant Workshop (E-Science & FRGS)
 - Groups, Algorithms and Programming (GAP) Workshop
 - COMSOL Training
 - Computational Science Workshop
 - Bengkel Pengendalian dan Peroperasian Peralatan Solid NMR
- Training Course on Mathematical V7
 - Training Course Matlab Distributed
 - Latex Workshop

Facilities



Journal of Fundamental Sciences (JFS)



The Journal of Fundamental Sciences (ISSN: 1823-626X) is a refereed, research journal and is published biannually .

Journal of Fundamental Sciences (JFS)

The aims and scope of the journal encompasses research articles, original research reports, reviews, short communications and scientific commentaries in fundamental science research including: applied and theoretical sciences in the field of mathematics, physics, chemistry dan biology.

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INTRODUCTION OF STUDENT



KONG CHING YEE



**DOCTOR OF PHILOSOPHY
(MATHEMATICS)**

**MODELLING BIVARIATE RAINFALL
DISTRIBUTION OVER PENINSULAR
MALAYSIA**



UTM
UNIVERSITI TEKNOLOGI MALAYSIA



- Nawwarah Binti Suhaimy
 - 23 years old
- Master of Science
(Mathematics)

-NURHAZWANI
BINTI JANTRAZ
-23 YEARS OLD

MASTER OF SCIENCE
(MATHEMATICS)



MODELLING THE
MISSINGNESS USING LOGIT
MODEL



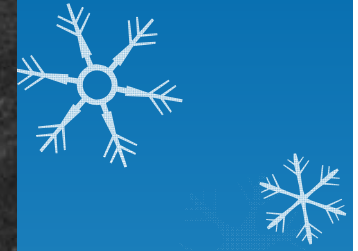
- **NAME : NUR FATIMAH BINTI HARON**
- **COURSE : MASTER OF SCIENCE (MATHEMATICS)**
- **RESEARCH AREA: OPTIMIZATION RESEARCH**

FOO HUI MEAN
DOCTOR OF PHILOSOPHY
(MATHEMATICS)



CHARACTERIZATION OF
DROUGHT PROPERTIES
USING COPULA





- **NAME : NUR HAMIZAH BINTI NORIZAN**
- **COURSE MASTER OF SCIENCE (MATHEMATICS)**
- **RESEARCH AREA: NUMERICAL**



- **NAME : SARAH A'FIFAH BINTI ABDULLAH SANI**
- **COURSE : MASTER OF SCIENCE (MATHEMATICS)**
- **RESEARCH AREA: NUMERICAL**



Name: **Sheila Ilangovan**
Course: **Doctor of Philosophy
(Mathematics)**
Year: **2**
Research: **Group Theory & Its
Applications**





UTM
UNIVERSITI TEKNOLOGI MALAYSIA



- ✘ Siti Farhana binti Husin (FARHANA)
- ✘ 23 years old
- ✘ Master of Science (Mathematics) (3rd semester)
- ✘ Research (External Direct Sum of Fuzzy Topographic Topological Mapping)



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**THANK YOU
HAVE A NICE DAY**