APPLICATION FOR IMU ASSOCIATE MEMBERSHIP

Malaysia is a fast developing country and aspires to be a developed nation by 2020 in all fields including mathematics education.

In this respect, the Government of Malaysia has taken various steps and invested a lot of funds to enhance the field of Mathematics. For instance, from just one public university in 1957, when the country attained its independence, there are now twenty public universities. Five of these universities are accorded the status of Research Universities, four are Comprehensive Universities and 11 are Focussed Universities in various fields. Private universities have also been given a thrust and currently there are twenty five private universities. University Colleges have also been set up and the current number is twenty two. All of these have been achieved within a short span of only 55 years. Mathematics are taught in all universities at the undergraduate level. All public universities offer postgraduate programs in mathematics. A number of private universities offer such programs of study.

The Government of Malaysia has also invested in human capital development to train mathematicians and many of them are sent to top overseas universities to acquire PhD or Masters Degree. As a result, the quality of mathematics that is taught in Malaysia is accredited worldwide.

Mathematicians in this country have also established strong collaborative linkages with many international universities. Regular mathematics conferences, seminars and workshops national and international are held in Malaysia to update on current research and to enhance collaborative ties.

Research in mathematics is carried out in earnest in most Malaysian universities. A good number of journals are produced locally which attracts contributors from all over the world. High quality research papers are also produced by Malaysian mathematicians that are published in high impact factor journals.

Malaysia has also become a centre for excellent mathematics education, where a big number of overseas postgraduate students enroll in Malaysian universities. There is large enrolment from Middle East countries, Iran, Nigeria, Bangladesh, Indonesia, just to mention a few.

The establishment of the Institute for Mathematical Research (INSPEM) in 2002 is also significant development where the institute is entrusted to conduct high-end research in mathematics. INSPEM consists of 4 research laboratories and 1 service laboratory and is staffed with permanent researchers and associate researchers from all over the country. INSPEM has established strong linkages with many universities and several industries, locally and overseas.

The Government of Malaysia also allocates a reasonable proportion of its annual budget for research and teaching. These funds are available as research grants, scholarships, sabbatical leave allowances, etc.

Further details about mathematics education in Malaysia are provided herein.

1. Number of universities where mathematics is taught   -   42
2. List of universities with significant research activities in methematics:
    a) Public Universities:
        i)   Universiti Malaya (UM)
        ii)   Universiti Sains Malaysia (USM)
        iii) Universiti Kebangsaan Malaysia (UKM)
        iv)   Universiti Putra Malaysia (UPM)
        v)   Universiti Teknologi Malaysia (UTM)
        vi)   Universiti Teknologi MARA (UiTM)
        vii) Universiti Islam Antarabangsa Malaysia (UIA)
        viii) Universiti Malaysia Sabah (UMS)
        ix)   Universiti Malaysia Sarawak (UNIMAS)
        x)   Universiti Pendidikan Sultan Idris (UPSI)
        xi)   Universiti Tun Hussein Onn Malaysia (UTHM)
        xii) Universiti Malaysia Perlis (UniMAP)
        xiii) Universiti Malaysia Terengganu (UMT)
        xiv) Universiti Sains Islam Malaysia (USIM)

    b) Private Universities:
        i)   Universiti Tenaga Nasional (UNITEN)
        ii)   Universiti Teknologi Petronas (UTP)
        iii) Multimedia University (MMU)
        iv)   Monash University Malaysia (MUSM)
        v)   University of Nottingham in Malaysia (UNIM)

3. Estimated Number of Research Mathematicians in Malaysia:
        600

4. List of Mathematical Societies in Malaysia
    a) Malaysian Mathematical Sciences Society
    b) Malaysian Society for Cryptology Research
    c) Institute of Statistics, Malaysia
    d) Management Sciences and Operations Research Society
    e) Malaysian Academy of Mathematical Scientists

5. Estimated Number of mathematical publications produced by mathematicians in Malaysia:

   3,500 journal papers per year

6. List of Mathematical journals published in Malaysia:

   a) Bulletin of the Malaysian Mathematical Sciences Society.
      (Published by: Malaysian Mathematical Science Society)
   b) Malaysian Journal of Mathematical Sciences
      (Published by: Institute for Mathematical Research, Universiti Putra Malaysia)
   c) Pertanika Journal of Science and Technology
      (Published by: Universiti Putra Malaysia)
   d) Journal Teknologi
      (Published by: Universiti Teknologi Malaysia)
   e) Journal of Physical Sciences
      (Published by: Universiti Sains Malaysia)
   f) Journal of Science and Mathematics Education in South East Asia
      (Published by: RECSAM, Penang)
   g) Journal of Science and Technology
      (Published by: Universiti Tun Hussein Onn Malaysia)
   h) Journal KALAM
      (Published by: Universiti Malaysia Terengganu)
   i) Journal of Science and Mathematics
      (Published by: Universiti Penguruan Sultan Idtris)
   j) Matematika
      (Publisher: Universiti Teknologi Malaysia)

7. For the non-mathematicians, the following publications provide light reading materials on mathematics:

   a) Discovering Mathematics
      (Published by: Malaysian Mathematical Sciences Society)
   b) MathsDigest
      (Published by: Institute for Mathematical Research)

8. Malaysian mathematicians are actively involved in organizing conferences, seminars and workshops on mathematics. The following are some examples of Seminars and Conferences organized by Malaysian institutions:

    a) Annual National Simposium of Mathematical Sciences (Started since 1986)
    b) Biannual International Conference on Research and Education in Mathematics (ICREM)
       (Organized since 2003 by Institute for Mathematical Research UPM, where it first began. ICREM5 in 2011 was organized by our Indonesian Partner ITB in Bandung)
    c) National and International Conferences on Cryptology (Started since 2007)
    d) International Conference on Research and Mathematical Biology (ICMCB 2011)
    e) International Conference on Mathematics Education and Research (ICMER 2010)
    f) International Workshop on Mathematical Analysis (IWOMA 1)
    g) Workshop on Disease Modelling (2008)
    h) Annual Expository Quantum Lecture Series (Since 2007)
    i) International Conference on Mathematical Biology (2007)
    j) Expository Lecture Series on Fluid Dynamics (2005)
    k) Lecture Series in Regression Diagnostics (2006)
    l) International Workshop on Mathematical Analysis (2010)
    m) National Seminar of Institute of Statistics Malaysia (2011)
    n) Workshops on Mathematical Principles of Electromagnetic Prospecting (2011)
    o) International Conference on Financial Mathematics and Numerical Optimization (FMNO) (2012)
    p) A Short Course on Exploratory Data Analysis (2012)
    q) Workshop on Theory of Dynamical Systems & Control Problems (2012)

9. The Institute for Mathematical Research (INSPEM) is a partner in the "Mathematics of Planet Earth 2013" Program. INSPEM will be organizing mathematical activities in the Malaysian region, in support of this program throughout 2013.

10. Several Memoranda of Understanding have been signed between the Institute for Mathematical Research and foreign mathematical institutions. These are for the purposes of establishing networkings and collaborative research between the institutions. Our partners include:

    a) University of Massachusette, USA
    b) Institute of Mathematics, Vietnamese Academy of Science and Technology (IMVAST)

c) Biomathematics and Statistics, Scotland (BioSS)
d) Yildiz Technical University, Turkey
e) Institute of Mathematics, Uzbek Academy of Science, Uzbekistan
f) University of Auckland, New Zealand.

Adhering Organization

As required by the statute of IMU the Malaysian Adhering Organization is as follows:
Name: The Malaysian Academy of Mathematical Scientists.
Address: Institute for Mathematical Research
          1st Floor, Mathematics Building,
          Universiti Putra Malaysia,
          43400 UPM, Serdang,
          Selangor,
          MALAYSIA.
Telephone: 60389466872.
Fax: 60389423789
e-mails: President: Professor Kamel Ariffin Mohd Atan: kamel@putra.upm.edu.my.
            Secretary : Professor Noor Akma Ibrahim : nakma@putra.upm.edu.my
            Executive Secretary: Ms Zurita Ismail : zurita@putra.upm.edu.my

Percentage of journal paper publications of top five research universities in Malaysia.

Period: 2007 – 2010.

Legend:
UPM: Universiti Putra Malaysia
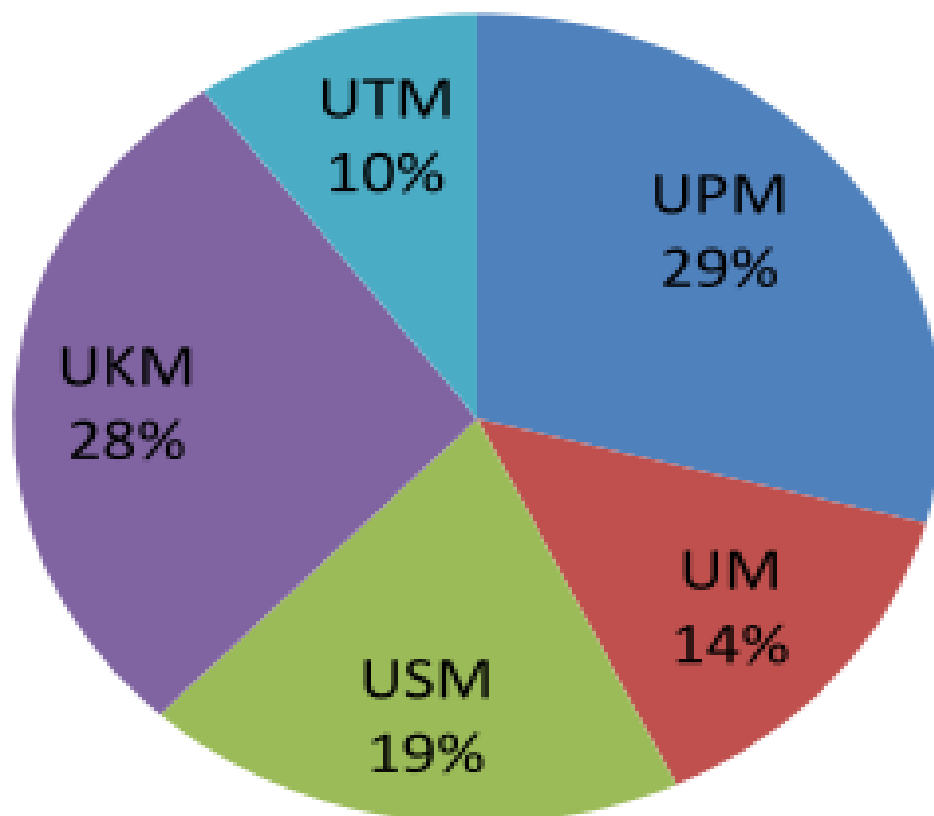UKM: Universiti Kebangsaan Malaysia
USM: Universiti Sains Malaysia
UM: University of Malaya
UTM: Universiti Teknologi Malaysia.

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Darus, M.	(97)
Hashim, I.	(61)
Ab-Rahman, M.S.	(48)
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Noorani, M.S.M.	(44)

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