



KEMENTERIAN PENDIDIKAN NASIONAL
UNIVERSITAS BRAWIJAYA

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No. : 1715/H10/LN/2010
Lampiran : 1 (satu) berkas
Perihal : Operasionalisasi kerjasama dengan VSNI UK

Kepada Yth. Dekan Fakultas MIPA
Universitas Brawijaya
Di Malang

Mengingat telah ditandatanganinya Collaboration Agreement antara VSN International Limited, UK (VSNI) dan Universitas Brawijaya (UB) pada tanggal 08 April 2010 sebagaimana terlampir maka kami menunjuk Saudara selaku Dekan FMIPA untuk mengoperasionalkan kegiatan-kegiatan yang telah disepakati dalam perjanjian antara VSNI dan UB serta melaporkan perkembangannya kepada Rektor secara berkala.

Atas perhatian Saudara diucapkan terima kasih.

Malang, 23 April 2010
Rektor.



Prof. Dr. Ir. Yogi Sugito
NIP. 19510122 197903 1 002



**Collaboration Agreement
between
VSN International Limited, UK (VSNi)
and
Universitas Brawijaya, Indonesia (UB)**



VSNi and UB freely enter into agreement and collaboration for the use and promotion of GenStat data analysis software initially at UB and thereafter across Indonesia. On Thursday 08th April 2010, this was agreed and signed by :

Mr. Stewart Andrews, Chief Executive Officer of the VSN International Limited having its address at 5 The Water House, Waterhouse Street, Hemel Hempsted HP1 1ES, United Kingdom

and,

Prof. Dr.Ir. Yogi Sugito, Rector of the Universitas Brawijaya, having its address at Jl. Veteran, Malang, 65145, East Java, Indonesia

The following points encapsulate the cooperation:

A. Software:

- VSNi to provide GenStat Discovery 4th Edition (GDE4) based on GenStat 10th Edition - the next upgrade to the current GenStat Discovery software version.
- Unlimited license use to all faculty, staff and students of UB for GDE4.
- All GDE4 licenses to be renewed by the user by way of registration with VSNi (available from the start-up screen).
- GenStat 12th Edition (the current commercial version) (G12) to be licensed to faculty members staff and students of UB until 1st April 2011 and annually thereafter by mutual agreement. This will be by way of licence key management controlled, initially, by Bernadetha Mitakda with individual request to VSNi support support@vsni.co.uk

B. Training:

- Nominated UB faculty staff to receive GenStat product training from VSNi or its affiliates at a mutually convenient place, time and at the expense of VSNi.
- UB commit to support and promote GDE4 within Indonesia. All training and consultancy activity costs and revenues to belong to UB, unless otherwise agreed in advance.

C. Business collaboration:

- VSNi appoint UB as the GenStat Centre of Excellence on a sole and exclusive basis for Indonesia.
- UB agree to use best endeavours, recognising the independence of mind and decision making of individual lecturers and researchers to promote GenStat

as the principal statistical and data analysis research and teaching tool within the university's biological sciences and mathematical faculties.

- UB to help VSNi to build a market profile of Indonesia to assist in the mutual financial return for both VSNi and UB.
- UB to translate into Indonesian sufficient and adequate documentation and training materials, source documents to be provided by VSNi
- Web sites to be developed and written in Indonesian promoting GenStat across Indonesia.
- Contingent upon GDE4 and G12 take up, VSNi and UB will consider the formation of a joint venture commercial business to further our activities in Indonesia.

Funding:

- VSNi and UB commit to the following:
 - Support and training for GDE4 and G12 until such time as agree to change this basis.
 - All international travel to be paid by VSNi as part of the knowledge transfer process until such a time as we agree to change this basis. All local costs to be met by the hosting partner.
 - VSNi to consider the funding of a dedicated statistician and/or researcher to focus on the promotion and awareness programmes for this collaboration. It is anticipated that this funded person would likely be an enthusiastic younger member of the faculty team, recognising that UB would be committing senior level resources, at UB's expense to the collaboration.

Length of Collaboration:

- VSNi and UB enter this collaboration to forge a long term cooperation and friendship.
- Termination of this collaboration can be either by mutual consent or by one party giving the other party not less than 6 months written notice.
- Upon termination, both parties agree to waive any right for compensation from the other party for costs or commitments made.

VSNi and UB look forward to a long lasting and mutually rewarding cooperation with sincere friendship and respect of one another being the binding force.

VSN International Limited
Chief Executive Officer,



Stewart Andrews

Universitas Brawijaya
Rector,



Prof. Dr. Ir. Yogi Sugito



Statistical Advisory & Training Service Pty Ltd

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**KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS BRAWIJAYA
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM**

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**Memorandum of Understanding between
Statistical Advisory & Training Service (StATS)
and
Statistics FMIPA, Universitas Brawijaya (UB)**

10 January 2011

Agreement

The two Institutions **Statistical Advisory & Training Service (StATS)** and **Statistics FMIPA**, Universitas Brawijaya, desiring to develop academic cooperation in teaching and research in the furtherance of the advancement and dissemination of statistics learning, agree as follows:

- to encourage, and use their best endeavours to effect, visits from one Institution to the other by members of the academic staff for the purpose of participating in teaching and research programs, thereby enhancing the skills of academic staff in both teaching and research;
- to encourage the exchange of scientific materials, publications and information;

In addition, **Statistical Advisory & Training Service** agrees as follows:

- to encourage and support **Statistics FMIPA**, on behalf of **UB**, to become a *Centre of Excellence* in the promotion throughout Indonesia and in the use in teaching and research of the internationally renowned statistical package **GenStat**.
- To assist **Statistics FMIPA** students in the understanding of high level statistics by running specialist courses, where possible, and by providing specialist teaching manuals at no cost to **UB**.

On behalf of **Statistical Advisory & Training Service**



Dr Mick O'Neill

Director and former A/Professor in Biometry, University of Sydney

On behalf of **Statistics FMIPA**



Prof. Dr. Marjono

Dean of FMIPA UB



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SURAT TUGAS

Nomor : ~~1498~~ /UN10.9/TU/2013

Dekan Fakultas MIPA Universitas Brawijaya menugaskan nama yang tercantum dibawah ini:

Nama : **Prof. Dr. Ir. Loekito Adi Soehono, M.Agr.**
NIP. : **19470327 197412 1 001**
Instansi : **FMIPA UB**

Untuk menjajaki kerjasama dengan Queensland University of Technology Australia pada tanggal **17 – 21 Juni 2013**.

Demikian Surat Tugas ini dikeluarkan untuk dilaksanakan sebaik-baiknya dengan penuh tanggung jawab.

Malang, 17 Juni 2013



Prof. Dr. Marjono, M.Phil
NIP. 19621116 198803 1 004

Tembusan :

1. Pembantu Dekan II FMIPA
2. Ketua Jurusan Matematika FMIPA
3. Kepala Tata Usaha FMIPA
4. Kasubbag. Keu & Kepeg. FMIPA
5. Ybs. untuk dilaksanakan



INTERNATIONAL COOPERATION AGREEMENT

Universitas Brawijaya (UB), Malang, Indonesia and the Queensland University of Technology (QUT), Brisbane, Australia agree that the encouragement and development of co-operation and exchange in all areas of mutual academic interest is desirable. Both parties, therefore, wish to expand the basis for friendship and co-operative educational exchange and have set forth the following agreement.

ARTICLE 1

The purpose of this agreement includes, but is not limited to, the following:

1. Development of joint venture projects between UB and QUT.
2. Organisation of joint academic and scientific activities, such as courses, conferences, seminars, symposia or lectures.
3. Exchange of staff and/or students.
4. Exchange of materials and publications of common interest.

Co-operative projects arising from this agreement may include any of the academic disciplines represented at UB and QUT.

ARTICLE 2

Themes of joint activities and conditions for utilising the results achieved, as well as arrangements for visits, exchanges, and other forms of cooperation will be further discussed and developed mutually for each specific case. All financial arrangements will be negotiated on a case-by-case basis.

In order to carry out and fulfil the goals of this agreement both parties will appoint co-ordinators for the development and management of joint activities. Through these contact persons, either party may initiate proposals for activities under this agreement. Specific details will be set forth in a letter of agreement which will form part of this general arrangement following signature by the appropriate authorities of both parties. A letter of agreement will include such items as:

1. Elaboration of the responsibilities of each institution for the agreed upon activity.
2. Schedules for the specific activity.
3. Budgets and sources of financing for each activity.
4. Any other items deemed necessary for the efficient management of the activity.

The contact persons will be responsible for the evaluation of activities under this agreement according to the practices of the respective parties. Letters of agreement will be approved by both sides according to the normal procedures adopted by the signatory party.

This document is a statement of understanding and is not intended to create binding or legal obligations on either party.

ARTICLE 3

This agreement shall be valid for five (5) years from the date of signing. It shall be reviewed by both parties six (6) months prior to expiry and may be renewed for a further term by mutual agreement.

This agreement may be terminated by either party at any time provided that the terminating party gives a minimum of six (6) months notice in writing.

As witness to their consent to this agreement, the appropriate authorities hereunto provide their signatures.


**UniversitasBrawijaya
Indonesia**



**Prof. Dr. Ir. Yogi Sugito
Rector of UniversitasBrawijaya**

Date: 13 May 2013

**Queensland University of Technology
Australia**



**Professor Scott Sheppard
Deputy Vice-Chancellor
(International and Development)**

Date: 10 July 2013

Dual Degree Articulation Agreement

between the
Faculty of Mathematics and Natural Sciences, Universitas Brawijaya
and the
Science and Engineering Faculty, QUT

Article 1 – Preamble

The Faculty of Mathematics and Natural Sciences, Universitas Brawijaya (hereafter referred to as UB) and the Science and Engineering Faculty at QUT (hereafter referred to as QUT-SEF), have agreed to enter into a managed dual degree agreement based on mutual understanding as indicated below. This Agreement is not intended to be legally binding but is intended to outline the basis for a cooperative arrangement between the parties.

Article 2 – Objective

The parties agree to collaborate in order to achieve the following goals:

- Increase the options for international studies for Mathematic and Science students at UB.
- Maximise the advanced standing opportunities and optimise the academic transition process for students from UB pursuing chosen courses at QUT.
- Enhance existing markets and/or establish new markets for courses at both institutions.
- Establish mutually beneficial interaction between academic staff at the two institutions.

Article 3 – Eligibility

3.1 QUT agrees in principle to accept applications from students seeking admission to the respective QUT programs who have completed a minimum of five semester equivalent full-time at UB in an approved undergraduate program, subject to their meeting the criteria / admissions requirements set out below in Article 3.2.

At the time of the signing of this Agreement, eligible undergraduate programs are:

UB	QUT
Sarjana Science (Mathematics)	MS01 Bachelor of Maths (Applied and Computational Mathematics)
Sarjana Science (Statistics)	MS01 Bachelor of Maths (Statistical Science)

3.2. To be eligible to undertake this dual degree program, UB students must meet all of the following criteria:

- i. Successfully Pass all required subjects of the standard course structure of the first five semesters full-time of study of the respective UB program as outlined in Appendix 1;
- ii. Achieve a minimum overall Grade Point Average of 3 (on UB's 4 point grade scale), for the UB program;
- iii. Satisfaction of the QUT English language requirements for admission; refer to published required minimum scores:
<http://www.qut.edu.au/international/applying/step-3-check-you-meet-the-entry-requirements/english-language-requirements>
- iv. commence the QUT Bachelor of Maths from 2016 onwards

3.3 UB dual degree students will follow the prescribed QUT study plan as determined by the QUT undergraduate Academic Co-ordinator prior to the commencement of classes at QUT.

3.4 QUT current application procedures and entry requirements are outlined in Appendix 2.

3.5 Only UB students with prior written approval from UB will be considered as part of this dual degree arrangement. UB Students must submit an official recommendation letter signed by UB

- 3.6 UB will recognise the units undertaken at QUT as part of this arrangement and will grant credit towards their UB award

Article 4 – Financial matters

- 4.1 UB students, or their sponsors, admitted to the Bachelor programs at QUT under this Agreement will pay tuition fees to QUT for the semesters spent at QUT.
- 4.2 Tuition fees payable to QUT will be invoiced at the standard international fee rate and will be payable on a semester-by-semester basis by the approved Census Date
- 4.3 All other costs including travel, visa, accommodation/living expenses, books and supplies, course materials, computer use fees, personal expenditure and health insurance will be borne by the student. It is the responsibility of students to arrange and pay for suitable health insurance cover for the duration of the study program at QUT.

Article 5 - Student Support and Obligations

- 5.1 UB Dual Degree students will have equal access, opportunity and support at QUT in terms of orientation and ongoing support services throughout the period of enrolment at QUT. QUT Student Services provides assistance to incoming students seeking information about accommodation options, however it remains the responsibility of students to find suitable accommodation for the duration of their studies at QUT.
- 5.2 All students studying at QUT must abide by Australian laws and the regulations, rules and policies of QUT.
- 5.3 All students must comply with the requirements of their student visa including requirements concerning full-time enrolment, attendance and participation in all learning activities and all other applicable rules and regulations.
- 5.4 Students need to complete a 'Third Party Authorisation for Student Information' (TPA) form and attach this with QUT Application form. TPA form is available at:
http://www.studentservices.qut.edu.au/pdfs/forms/tpa_frm.pdf
Completion of this form enables the release of academic results to UB. Students who refuse to complete this form are deemed to not participate in this dual degree arrangement.

Article 6 – Institutional Responsibilities

UB

- 6.1 UB will identify one particular person to serve as liaison person for this articulation agreement and communication between the parties will be directed as far as is practicable through these two people.
- 6.2 UB will take the responsibility of ensuring that all activity taken under this agreement conforms to any relevant local or national government laws, policies or procedures.
- 6.3 UB will annually confirm or update the information on progression rules, program requirements and curriculum details of relevant study plans, so that QUT-SEF may confirm or modify the details of credit to be awarded. UB will notify QUT-SEF of any changes to the prescribed course and/or unit syllabus.
- 6.4 UB will ensure that students at UB have ready access to information supplied by QUT-SEF concerning total credit available, specific unit exemptions and any conditions on such credit/exemptions, with the respect to the respective Bachelor program at QUT.
- 6.5 UB will assist students in making applications to enrol in QUT-SEF such that conditional acceptances can be made in time to facilitate obtaining student visas for Australia.

QUT

- 6.6 QUT-SEF will identify one particular person to serve as liaison person for this articulation agreement. A corresponding liaison person will be appointed at UB and communication between the parties will be directed as far as is practicable through these two people.
- 6.7 QUT will take the responsibility of ensuring that all activity taken under this agreement conforms to any relevant local or national government laws, policies or procedures, in particular to the Education Services for Overseas Students (ESOS) Act.
- 6.8 QUT-SEF will annually confirm or update the information on the credit to be awarded on the basis of the specified UB course, towards the QUT Bachelor of Engineering.
- 6.9 QUT-SEF will assist UB to supply admission and enrolment advice to students at UB, who intend to articulate to QUT.
- 6.10 the appointed QUT-SEF liaison Coordinator will transmit the students' academic results to the UB liaison Coordinator, as soon as they are available upon the completion of the four semesters.

Article 7 – Recruitment and Advertising

- 7.1 UB is authorised to use information supplied by QUT in marketing QUT's Bachelor program and in advertising its relationship with QUT. Prior approval in writing shall be required for use of the QUT logo in each instance.
- 7.2 QUT-SEF will assist in this process by supplying course information and marketing material, and by including information about this articulation on the QUT website.
- 7.3 Marketing or advertising material (including websites and other electronic media) generated by UB and which refers to QUT, but which was not directly supplied by QUT, should be submitted to QUT for approval by the QUT International Office before distribution. This includes translations of material obtained in English from QUT and translated by UB.

Article 8 – Duration and Termination of Agreement

- 8.1 This Agreement takes effects from the date when it is signed by both institutions. It is valid for five years and may be renewed subject to approval by both institutions.
- 8.2 Either institution may, on six months notice in writing, terminate this Agreement in advance of its normal expiration or request the negotiation of its conditions. Under such circumstances, QUT may decline to admit new students into this arrangement. Any students who have commenced under the arrangements specified in this agreement shall be allowed to complete as per the arrangements before the termination comes into effect.
- 8.3 Changes and supplements to the terms of the Agreement should be made in writing. These changes should be verified by the signatories of the original agreement, or their delegates or successors for that purpose.

Faculty of Mathematics and natural Science
Universitas Brawijaya

Science and Engineering Faculty
Queensland University of Technology

Professor Dr Marjono, MPhil
Dean

Date:

Professor David Siddle
Executive Dean

Date:

Witnessed by: Science and Engineering Faculty
Queensland University of Technology

Mr Bernard Murchison
Assistant Dean International and Engagement

Date:

Appendix 1

Dual Degree Articulation Agreement Science and Engineering Faculty, QUT Schedule of Advanced Standing for Universitas Brawijaya

UB program	QUT program	Minimum UB GPA required	units of advanced standing	duration of QUT course	QUT Intake
Sarjana Science (Mathematics) 5 semesters	Bachelor of Mathematics – MS01 (Applied and Computational Mathematics)	3 (on a 4 point scale) and a Pass in all units	4 semesters	2 semester	February
Sarjana Science (Statistics) 5 semesters	Bachelor of Mathematics – MS01 (Statistical Science)	3 (on a 4 point scale) and a Pass in all units	4 semesters	2 semester	February

- This advanced standing is based on the UB 2013 course syllabus provided.
- QUT advanced standing and sample study plans outlined below are based on 2016 program and are subject to change

Universitas Brawijaya Mathematics Program into QUT BMaths (Applied & Computational Mathematics)

Advanced standing

QUT Unit	Required UB Unit(s)
MXB101	MAM4141 Intro to probability theory MAM4243 Mathematical statistics
MXB102	MAM4111 Sets and logic MAM4113 Abstract algebra MAM4115 Discrete mathematics 1
MXB103	MAI4090 Basic computing MAM4233 Numerical methods
MXB105	MAM4121 Calculus 1 MAM4123 Analytical geometry MAM4221 Calculus 2
MXB106	MAM4211 Linear algebra MAM4131 Ordinary differential equation
MXB107	MAS4280 Fundamental statistics
MXB201	MAM4112 Advanced linear algebra*
MXB202	MAM4122 Calculus 3 MAM4222 Calculus 4
MXB221	MAM4131 Ordinary differential equations
MXB222	MAM4233 Numerical methods
2 core options in BMaths core	Miscellaneous remaining UB compulsory units
4 unit minor slot in BMaths	Miscellaneous remaining UB compulsory units

*MAM4112 is an elective and MUST be taken.

By completing the first five semesters of the UB mathematics program with passing grades, UB students would cover the 8 BMaths core units, a 4 unit minor, and the 4 1st/2nd level units of the Applied and Computational Mathematics Major of the BMaths at QUT.

2 semester QUT study plan

Semester 1	Semester 2
MXB321 Applied transport theory	MXB323 Dynamical systems
MXB322 Partial differential equations	MXB324 Computational fluid dynamics
Option	Option

Option	Option
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Students may take any of the following mathematics units in the “Option” slots:

MXB231 Financial mathematics 1, MXB232, Operations research 1, MXB241 Probability and stochastic modeling 2, MXB242 Regression and design, MXB161 Computational explorations, MXB261 Modelling and simulation science, MXB251 Number theory and abstract algebra, MXB351 Coding theory and graph theory.

Universitas Brawijaya Statistics Program into QUT BMaths (Statistical Science)

Advanced standing

QUT Unit	Required UB Unit(s)
MXB100	MAM4190 Fundamental mathematics
MXB101	MAS4218 Intro to probability theory MAS4121 Statistics methods 1
MXB102	MAM4111 Sets and logic
MXB103	MAI4090 Basic computing MAS4216 Numerical analysis
MXB105	MAS4215 Mathematics 1 MAM4190 Fundamental mathematics MAS4116 Mathematics 2
MXB106	MAM4190 Fundamental mathematics MAS4211 Matrix and vector space
MXB107	MAS4121 Statistics methods 1 MAS4221 Statistics methods 2 MAS4231 Regression analysis
MXB201	MAS4211 Matrix and vector space
MXB202	MAS4215 Mathematics 1
MXB241	MAS4212 Mathematical statistics 2 MAS4113 Stochastic processes* MAS4243 Simulation methods*
MXB242	MAS4123 Nonparametric statistics MAS4132 Introduction to linear models MAS4134 Statistical computation MAS4223 Variance analysis* MAS4235 Advanced regression analysis*
1 core option in BMaths core	Miscellaneous remaining UB compulsory units
4 unit minor slot in BMaths	Miscellaneous remaining UB compulsory units

*MAS4113, MAS4243, MAS4223, MAS4235 are electives and MUST be taken.

By completing the first five semesters of the UB mathematics program including the indicated “electives”, with passing grades, UB students would cover the 8 BMaths core units, a 4 unit minor, and the 4 1st/2nd level units of the Statistical Science Major of the BMaths at QUT.

2 semester QUT study plan

Semester 1	Semester 2
MXB341 Statistical inference	MXB323 Modelling dependent data
MXB342 Statistical techniques	MXB324 Modelling non-normal data
Option	Option
Option	Option

Students may take any of the following mathematics units in the “Option” slots:

MXB231 Financial mathematics 1, MXB232, Operations research 1, MXB221 Ordinary differential equations, MXB161 Computational explorations, MXB261 Modelling and simulation science, MXB251 Number theory and abstract algebra, MXB351 Coding theory and graph theory.

Appendix 2

Application Procedures

Students are required to finalise their acceptance and arrive at QUT on time for classes and Orientation week. Students are also strongly advised to allow for sufficient time for visa application. Hence, it is suggested that applications for admission are put in preferably at least four months prior to the commencement of the course. It is highly recommended that students attend Orientation week at the beginning of the semester.

UB students applying for entry into a QUT degree course should complete a QUT Form F and return it with certified copies of UB Bachelor academic transcript, and list units currently enrolled.

The Form F can be downloaded from the following web-site:

http://www.studentservices.qut.edu.au/pdfs/forms/f_frm.pdf

A non-refundable application fee of AUD\$55 (\$50+10% GST) is normally required from all applicants. This fee is waived if the application is received via UB as a cohort. To facilitate application processing, UB shall send applications to QUT in a batch. Applications should be emailed to QUT Admissions (as indicated on the F form) with a copy to the QUT-SEF liaison person.

F forms are processed on receipt and successful applicants are made an offer for the next available intake. Conditional offers can be made based on results available at the time of application. Offers are confirmed after receipt of final results and any other stipulated conditions such as English scores. Estimated turnaround time for processing of applications is approximately two weeks.