Welcome from the Provost

Thank you for considering Newcastle University Medicine Malaysia (NUMed Malaysia) as you contemplate your options for your future Foundation programme education.

Newcastle University is a top-20 UK university with a global reputation for academic excellence. The university itself began as a medical school in the UK in 1834, and we have been educating students from Malaysia for over 40 years. We established NUMed Malaysia as a fully owned international branch campus in 2009, and have already produced over 100 graduates. Since then, Malaysian and international students have had the opportunity to study for the Newcastle Foundation programme at a significantly reduced cost compared with the same programme at our UK campus.

The Foundation Certificate in Biological and Biomedical Sciences (N/010/3/0361) is a 12 month programme. The course you will study is equivalent to the one delivered at our University in the UK, and following successful completion of the programme you will be awarded the Foundation Certificate in Biological and Biomedical Sciences by Newcastle University, UK.

Professor Roger Barton
Provost and Chief Executive Officer

Students who successfully complete the Foundation Certificate in Biological and Biomedical Sciences to the required level, will automatically be offered a place on either our MBBS programme (subject to interview) or our BSc (Hons) Biomedical Sciences programme offered at NUMed or a range of BSc (Hons) programmes offered at Newcastle, UK. See the ‘After you Graduate’ section later in this brochure for further information.

Delivery of the Newcastle The Foundation Certificate in Biological and Biomedical Sciences programme in Malaysia has been approved by the Malaysian Qualifications Agency (MQA/PA4131) and Newcastle University Medicine Malaysia (DULN005(J)) is registered as a Private Institute of Higher Learning by the Ministry of Higher Education Malaysia.

We invite you to study with us, and trust that this brochure provides you with all the information you need to make your choice. I hope I will have the opportunity of personally welcoming you as a new student to NUMed Malaysia, in May 2018.

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Newcastle University is a world class civic University with a proud tradition committed to academic excellence – but excellence with a purpose. The reputation, popularity and success of the University are backed up by the high quality teaching and learning & teaching experience that we provide to our students. We are consistently ranked in the top 20 in the UK for student experience and research and our commitment to ‘education for life’ is supported by our strong graduate employability record.

Newcastle is one of only 17 Universities in the world, and only 2 in the UK, to achieve 5 plus QS stars. The Stars system rates Universities against a number of performance indicators as set against internationals standards and we are proud to have been awarded 5 stars in the following areas: Teaching, Student Employability, Research, Internationalisation, Facilities, Innovation, Inclusiveness and Life Sciences and Medicine.

Foundation Certificate in Biological and Biomedical Sciences
Studying the Foundation Certificate in Biological and Biomedical Sciences at NUMed Malaysia

This programme is intended to serve as a pre-undergraduate Foundation programme for Malaysian & International students intending to study medicine, biological or biomedical sciences or science at undergraduate level in Malaysia at NUMed, in the UK at Newcastle University or another Malaysian HE institution, depending on the final grades achieved.

As such the programme:
1. Provides students with the intellectual development and subject knowledge they need to be academically capable of studying medicine and/or biomedical science subjects at degree level at NUMed Malaysia or in another Higher Education Provider
2. Equips students with the English language competence they need to study at degree level at NUMed Malaysia or in another Higher Education Provider
3. Builds a students’ study skills so that they are capable of entering a Higher Education institution offering a degree level education
4. Provides practical experience of British University teaching methods
5. Enables students to develop confidence in communicating and learning in English
6. Encourages students to undertake self-evaluation to help them identify additional needs
7. Complies with University, MQA and QAA codes of practice
Whilst NUMed Malaysia was only established in 2008 the history and heritage of the University dates back to 1834, when a School of Medicine and Surgery was first established in the city of Newcastle upon Tyne.

Newcastle University Medical School is a world leading collaboration of research scientists, medical doctors and teaching professionals who enjoy an international reputation for innovation and excellence for both research and teaching. Our MBBS and BSc (Honours) Biomedical Science programmes are consistently two of the most highly regarded courses of their type in the UK.

Outline of the Foundation Certificate in Biological and Biomedical Sciences Programme

This programme is intended to serve as a pre-undergraduate course for students intending to study medicine, biomedical or biological sciences or pharmacy at undergraduate level at NUMed, in Newcastle UK or in another Malaysian or UK higher education institution depending on the final grades achieved. The curriculum is arranged with 8 modules (180 UK credits) being studied over three semesters as follows.

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<thead>
<tr>
<th>Module Name</th>
<th>Credits</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>Foundation Biology 1</td>
<td>20</td>
<td>1 and 2</td>
</tr>
<tr>
<td>Foundation Biology 2</td>
<td>20</td>
<td>2 and 3</td>
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<tr>
<td>Foundation Chemistry</td>
<td>20</td>
<td>1 and 2</td>
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<tr>
<td>Foundation Physics</td>
<td>20</td>
<td>3</td>
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<tr>
<td>Foundation Medical Studies</td>
<td>20</td>
<td>3</td>
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<tr>
<td>Foundation Mathematics and Statistics</td>
<td>20</td>
<td>1 and 2</td>
</tr>
<tr>
<td>English For Academic Purposes</td>
<td>40</td>
<td>1, 2 and 3</td>
</tr>
<tr>
<td>Study Skills and ICT for Science and Medicine</td>
<td>20</td>
<td>1 and 2</td>
</tr>
</tbody>
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The programme consists of the following modules:

- **Foundation Biology 1** (20 Credits) Semester 1 and 2
  - Biology 1 introduces the key concepts of cell and molecular biology including the structure and function of biological molecules, cell structure (prokaryotic and eukaryotic), cell differentiation, tissue types and the cell cycle.

- **Foundation Biology 2** (20 Credits) Semester 2 and 3
  - This second Biology module builds upon the topics covered in Biology 1 with the main focus being human anatomy, physiology and biochemistry of the major body systems.

- **Foundation Chemistry** (20 Credits) Semester 1 and 2
  - This module introduces the fundamental principles of physical, organic and inorganic chemistry.

- **Foundation Physics** (20 Credits) Semester 3
  - This module introduces key concepts and principles of physics including mechanics, energy, electricity and thermal physics.

- **Foundation Medical Studies** (20 Credits) Semester 3
  - This module introduces students to a range of aspects of medicine and medical science and prepares students for potential application to the undergraduate MBBS programmes at NUMed. Students are introduced to the history of medicine, standards of professionalism and regulation of medicine. Further to this students will be introduced to the concept of being a reflective practitioner and the professional role of a doctor, medical ethics and a range of global health issues. Finally students will be supported in making an appropriate reflective personal statement for application for undergraduate MBBS programmes.

- **Foundation Mathematics and Statistics** (20 Credits) Semester 1 and 2
  - This module introduces key concepts in mathematics and statistics including simple statistical methods, equations and manipulation of equations and the use of exponential notation in calculations.

- **English for Academic Purposes** (40 Credits) Semester 1, 2 and 3
  - This 40 credit module is designed to provide students with extensive practice and development time.

- **Study Skills and ICT for Science and Medicine** (20 Credits) Semester 1 and 2
  - This module introduces students to the academic culture of UK Higher Education including the contested nature of knowledge, critical approaches to study and independent learning.
Teaching and Assessment

Teaching and Learning

The Foundation Certificate in Biological and Biomedical Sciences programme is delivered at NUMed Malaysia under the authority of Newcastle University UK.

The teaching and learning strategy is designed to encourage a progressive acquisition of knowledge and understanding. Knowledge and understanding is primarily taught through lectures and practical laboratory sessions supported by reading, seminar discussion and tutorials. English is primarily taught in smaller classes and reinforced through practice. Case studies and project work will involve an element of student research.

During the first week of the first semester you will attend an induction programme. New students are given a general introduction to Campus life and the University’s principal support services and general information about EduCity, NUMed and their programmes. New students are given detailed programme information and the timetable of lectures/ practicals/ tutorials/etc.

Assessment

The Foundation programme at NUMed mirrors the Foundation programmes offered at Newcastle University. The principles of Constructive Alignment underpin the delivery of the programme that is teaching, learning outcomes and assessment are intrinsically linked. The components of the programme can be broken down into four areas: knowledge and understanding of the subject covered in the programme; intellectual skills which are used in your future studies; practical skills in the laboratory; and transferrable skills for your future careers and life.

Knowledge and understanding is assessed primarily through unseen examinations, written coursework (such as numerical exercises, essays, case studies, project reports and laboratory reports), in-course tests and observation of ability to carry out specific practical experiments.

Intellectual skills are assessed as part of the overall assessment of case study and project reports and/or oral presentations, calculation class exercises, laboratory work and laboratory reports. In particular intellectual skills are assessed by the Study Skills module and unseen examinations.

Practical laboratory and scientific skills are assessed through observation of experimental technique and laboratory reports, seminar/tutorial exercises and in some tests and exams. English language competency is tested directly in the English for Academic Purposes module using a mixture of tests and coursework and covering reading, writing, speaking and listening. Other modules indirectly assess English language competence and the ability to take notes and use sources.

Transferrable skills are addressed through group work, oral presentations, case studies, essays, laboratory reports. Students are also encouraged to prepare a reflective log.
The Campus

The permanent purpose-built NUMed Malaysia campus is set within the EduCity Iskandar Malaysia development (https://www.iskandarinvestment.com/educity-partners/) in Iskandar Puteri, Johor. This dedicated international higher education hub is located five-east of the Gelang Patah interchange on the main Second-Link Expressway. The Second Crossing Bridge to Singapore is only 8km from the site, and the city of Johor Bahru, 25km to the east, is easily accessed via the newly opened Coastal Highway. Singapore’s Changi International Airport is a 45-minute drive away and we are just 20 minutes from Johor’s Senai Airport.

Opened in 2011 by His Royal Highness Prince Andrew, the Duke of York, our 5.5-hectare secure campus is designed to replicate the look and feel of Newcastle University in the UK, and comprises over 15,000m² of academic space housing state-of-the-art facilities and innovations in medical and scientific learning and teaching technology.

Our facilities include lecture and seminar rooms, a laboratory and clinical skills complex, the learning resource centre, and the student cafeterias, dance studio and recreation centre. The centrepiece of the campus, and at the heart of your learning is the Learning Resource Centre. Constructed around the library facility, this innovative building is modelled on a number of emerging, ground-breaking facilities at other international world-class higher education institutions. Over three floors, the Centre is largely open plan to provide you with a range of flexible learning spaces, supportive of different kinds of study, and a relaxing environment helpful to learning.

These spaces include ‘quiet zones’ for self-directed study, study rooms for group work, and other social learning areas, which you will be able to rearrange to suit your preferred style of study. More formal spaces are also included for practice presentations.

There are two large IT clusters, and the entire campus has access to a high-speed wireless network. The learning environment we provide here at NUMed Malaysia goes beyond our excellent physical resources as the framework of your learning is fully supported by the organisation and culture of Newcastle University, UK. A wide range of factors contribute to making NUMed Malaysia an ideal place to study including our institutional goals, the high value we attach to supporting your learning, the close relationships between you and the faculty, the individual attention you receive, and the personal feedback we provide on your progress.

Overall, we believe that NUMed Malaysia provides you with an environment which encourages your learning, which is safe and secure fosters collaboration, values the contribution of individuals, and is based on mutual respect.

After You Graduate

Upon successful completion of the programme you will be awarded the Foundation Certificate in Biological and Biomedical Sciences which will be conferred by Newcastle University, UK.

Progression onto Programmes at NUMed

Students who successfully complete the Foundation Certificate in Biological and Biomedical Sciences to the required level will be automatically offered a place on either our MBBS programme (subject to interview) or our 2+1 BSc (Hons) Biomedical Sciences programme.

To qualify for admission to the MBBS programme at NUMed you must achieve an overall average grade of 70% with 70% in English for Academic Purposes, 75% in Biology 1 and Biology 2 and 70% in Foundation Medical Studies.

To qualify for admission to the 2+1 BSc (Hons) Biomedical Sciences programme offered at NUMed and Newcastle UK you must achieve an overall average grade of 65% with 65% in English for Academic Purposes and 70% in Biology 1 and 2.

Progression onto Programmes at Newcastle University, UK

Students who successfully complete the Foundation certificate in Biological and Biomedical Sciences to the required level will be automatically offered a place on a wide variety of programmes at Newcastle UK in both the Faculty of Medical Sciences including: Pharmacy (MPharm), Biomedical Sciences (BSc or MSci), Biochemistry (BSc or MSci), Biomedical Genetics (BSc or MSci), Physiological Sciences (BSc), Pharmacology (BSc), Sports and Exercise (BSc), Food and Human Nutrition (BSc), Psychology (BSc) and the Faculty of Science, Agriculture and Engineering including: Biology (BSc) Animal Science (BSc), Environmental Science (BSc) Agriculture (BSc), Agri-Business Management (BSc), Marine Biology (BSc), Chemistry (BSc and MChem) and Speech and Language Science (BSc).

Full details of progression criteria for all of these programmes can be obtained at: admissions@newcastle.edu.my
Student Accommodation

NUMed has its own managed student accommodation. This accommodation offers high-quality self-catering apartments, arranged as a number of study-bedrooms sharing a central kitchen/living room and shower facilities. The air-conditioned apartments also have free wireless Internet access. There is a swimming pool and gymnasium on-site, to which all students staying in the accommodation have free access.

Each apartment is self-catering and is equipped with its own fridge, cooker and washing machine. The NUMed Student Accommodation offers a partial cleaning service for public areas and kitchen. Students are responsible for cleaning their own study bedrooms. Each apartment houses up to four students.

NUMed Student Accommodation is truly multinational, multi-ethnic and multicultural. The accommodation is just a 10-minute drive from the campus, with free, regular transport provided, not only between the accommodation and the campus, but also between the accommodation and the nearby major eateries, shopping centres, entertainment outlets and other recreational attractions, which are five minutes’ drive away.

These new apartments are managed by NUMed and you can therefore expect a responsive and efficient service. The apartments are within a gated community, with 24-hour, non-intrusive security. There is a NUMed Security Office on-site, with NUMed guards on hand 24 hours a day.

Accommodation and Hospitality Services are committed to providing services and facilities that enhance your experience and you can be assured of our support and attention at all times.

More detailed information about the accommodation is available at: http://www.ncl.ac.uk/numed/support/living/accommodation/#about

Living Expenses

Living expenses depend on your financial resources, tastes and interests, and you are advised to set a budget according to your own individual needs.

As a guide, including your accommodation, we estimate that you should allow around RM2,000 per month to cover your living costs in Johor.

Recreation and the EduCity Iskandar Malaysia Sports Complex

As a NUMed Malaysia student you will have access to both the sports, social and recreational facilities provided on campus, and to those provided by EduCity Iskandar Malaysia.

The common facilities shared by all students at EduCity, include a world-class stadium and sports complex, which opened in August 2013. The sports complex includes:

• outdoor arena and pitches for field sports and athletics
• indoor arena and facilities for sports such as badminton, volleyball etc.
• gymnasium
• 50m swimming pool

Student Support and Guidance

Our strategy for your support and guidance is based on the provision of clear and timely information, academic guidance and individual tutorial support, backed up by a comprehensive network of personal support ranging from peer mentors through personal tutors to professional counsellors.

You are provided with Study Guides for each module. These indicate what you should learn and how this learning can be achieved. They provide you with learning outcomes, details of the programme of study, and guidance to support self-study, including self-assessment.

A member of staff at NUMed Malaysia is allocated to you as your Personal Tutor to offer general academic guidance and pastoral support. In addition, the NUMed Malaysia Student Association operates a ‘peer-parenting’ system whereby every new student is attached to a ‘family’ of senior students who are available to offer advice and guidance.

Your input to the development of our curriculum is very important to us and many changes have been introduced in response to student feedback. There is a Staff Student Committee for the programme, and the student members play an important role in managing the curriculum and its development.

NUMed Malaysia Student Association

The model of student government for NUMed Malaysia is the same as that of Newcastle University, UK.

The purposes of the Student Association are two fold:

• It is the representative body for the student community in dealings with the academic leadership of NUMed Malaysia.
• It oversees the running of the many student societies, clubs and other organizations.

The Student Association nominates representatives to serve on NUMed Malaysia committees, and supervises and coordinates co-curricular activities.

As well as organizing entertainment and activities for the student body, the Association also runs campaigns on issues affecting students, and participates with the local health authorities in delivering health promotion and awareness to the local community.

For more information please visit the Student Association Facebook page at: https://www.facebook.com/numedSA
How to Apply:
Entry Requirements and Fees for the Foundation Certificate in Biological and Biomedical Sciences

Application for entry in May 2018 is now open. NUMed Malaysia has only one intake per year, in May each year.

If you already meet the entry requirements (see the ‘Entry Requirements’ section later in this brochure), or are forecast to meet the requirements by mid-March 2018 then you should apply now using the following procedure:

1. You must apply directly to NUMed Malaysia. Applicants should download and complete the Application Form from the NUMed website (www.newcastle.edu.my).

2. You should return your fully completed Application Form, together with the documents listed below, by e-mail to admissions@newcastle.edu.my:
   - Transcripts/credentials showing your previous academic awards/examination results
   - Your current academic transcripts or forecast results in your school examinations: these must be certified by your school or college
   - A copy of your identity card or passport
   - Once we have received your application, an acknowledgement e-mail will be sent to you from the NUMed Malaysia Office.

Malaysian applicants: While there is no formal closing date for the receipt of applications, you are encouraged to apply early as applications are high and a limited number of places are available.

International applicants: The closing date for receipt of applications is 31st January 2018. This is to permit the receipt of applications, you are encouraged to apply early as applications are high and a limited number of places are available.

EXAMINATIONS REQUIREMENTS/GRADERS

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<tr>
<th>EXAMINATIONS</th>
<th>REQUIREMENTS/GRADERS</th>
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<tbody>
<tr>
<td>SPM</td>
<td>5 As each in Biology, Chemistry, Physics, Mathematics and another subject.</td>
</tr>
<tr>
<td>IGCE</td>
<td>5 As each in Biology, Chemistry, Physics, Mathematics and another subject.</td>
</tr>
</tbody>
</table>

Applicants offering qualifications other than those listed above should e-mail admissions@newcastle.edu.my to check if their qualifications are acceptable or not.

English Requirements

You must be proficient in both spoken and written English. You can demonstrate this through the IELTS test, or equivalent (e.g. TOEFL, MUET, English O-Level or SPM 1118). IELTS minimum overall score of 5 with no individual band less than 4.5 must be achieved.

Age Requirements

You must be at least 16 years of age at the time of enrolment.

Other Requirements

All potential students are required to disclose at the time of application whether they have any criminal record which may make them unsuitable to study at NUMed Malaysia. You are invited to discuss with NUMed Malaysia the relevance of any caution or conviction you may have received at the time of application. We reserve the right to withdraw an offer if an applicant does not declare any relevant caution or conviction in their application. Also, NUMed Malaysia reserves the right to discontinue a student’s studies if evidence of criminal activity comes to light during the course of their studies.

Special Consideration/Disadvantage

Any statement regarding circumstances which may have seriously impaired your studies in the final year of your school education that you may wish to put forward for special consideration must be submitted at the time of application. You should note that NUMed Malaysia will not give special consideration to such statements made at a later time.

Fees 2018 - 2019

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<th>FEES 2018 - 2019</th>
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<tr>
<td>Malaysian Students</td>
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<tr>
<td>International Students</td>
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</tbody>
</table>

You should note that the fees do not include the cost of your living accommodation in Malaysia. Students studying on our Foundation Certificate in Biological and Biomedical Sciences programme are strongly advised to stay at the NUMed Managed student accommodation.

Deferment

If you are accepted onto the programme, but wish to defer your place until 2019, please let us know. A deposit will be required for your deferment to be accepted.

Accepting an offer

Once you receive an offer of a place on the Foundation Certificate in Biological and Biomedical Sciences programme, you must follow the instructions below to confirm your place:

1. Accepting your offer

To accept your offer, please complete the Reply to Offer form sent to you with your offer letter and return it by e-mail to admissions@newcastle.edu.my no more than 6 weeks after the date on your offer letter.

2. Confirmation of your acceptance

On receipt of your completed Reply to Offer form, an email will be sent to you from the NUMed Malaysia Admissions team confirming your acceptance, together with instructions for the payment of a deposit to secure your place.

3. Paying your deposit

Once you have accepted our offer, to secure your place you will be required to pay a deposit of RM1,000 which will be deducted from your fees once you commence the programme. Payment must be made within 6 weeks from the date of your original offer letter. An official receipt will be issued to you once we have received payment.

If you have already completed your school studies and your examination results meet our academic requirements for entry, your offer will be unconditional, and the deposit will be non-refundable.

If you are still studying for your school examinations, your offer will be conditional upon you achieving the requested grade/results set out in your offer letter. If you do not meet the conditions of the offer, your deposit will be refunded in full. However, if you have accepted our offer, and meet our conditions but decide later not to study at NUMed Malaysia your deposit will not be refunded.

4. Next steps

Once we have received your deposit we will send you further Student Accommodation information. You will receive our Welcome Pack and information on enrolment and induction in May 2018.

The Vice Chancellor's NUMed Merit Awards

Student who has achieved academic distinction on their Foundation programme and who progress onto one of the programmes offered at NUMed will be eligible for consideration for the Vice Chancellor’s Merit Awards. Each award is for one year and is equivalent in value to 10% of the annual fee.

To contact NUMed Malaysia:

Email: admissions@newcastle.edu.my
Telephone: +607 555 3800
H/P: +6012 784 9456/+6011 1231 5411
Twitter: https://twitter.com/NUMedMalaysia
Facebook: https://www.facebook.com/NewcastleUniversityMedicineMalaysia

You can find more information on our website at http://www.newcastle.edu.my

You can find more information on our website at http://www.ncl.ac.uk/media-files/tour/NUMed_2015