Foundation in Biological and Biomedical Sciences
KPT/JPT/N/010/3/0361/08/2020
May 2019 Intake
Welcome from the Provost

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

Newcastle University is a top-20 UK university with a global reputation for academic excellence. We established NUMed as a full-owned international branch campus in 2009, and have already produced over 400 graduates.

The Foundation in Biological and Biomedical Sciences programme (N/010/3/0361) is a 12-month programme and, following successful completion, your award will be conferred by Newcastle University, UK.

Students who successfully complete the Foundation to the required level will automatically be offered a place on either our MBBS programme (subject to interview) or our BSc (Honours) Biomedical Sciences programme at NUMed. Students may also apply to a wide range of programmes offered by Newcastle, UK.

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 to NUMed in the future.

Professor Chris Baldwin
Provost and Chief Executive Officer
Newcastle has become one of 18 universities in the world, and only two in the UK, to achieve five plus QS Stars from Quacquarelli Symonds (QS), the first international assessment of its kind. More than 150 universities in over 35 countries have now signed up for the QS Stars™ rating system.

We are proud to have been awarded five stars in the following areas:

- Teaching
- Student Employability
- Research
- Internationalisation
- Facilities
- Innovation
- Inclusiveness
- Life Sciences & Medicine

The QS Stars™ system is a useful alternative to traditional league tables. It allows you to focus on Newcastle’s excellence against set criteria irrespective of the performance of other universities.
Newcastle University is a world-class civic university with a proud tradition committed to academic excellence with a purpose. The reputation, popularity and success of the university are backed by the high-quality teaching and learning 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.
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Studying the Foundation in Biological and Biomedical Sciences at NUMed

This programme is a pre-undergraduate Foundation programme for Malaysian and 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 at another Malaysian Higher Education 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 or in another Higher Education Institution

2. equips students with the English language competence they need to study at degree level at NUMed or in another Higher Education Institution

3. builds a student’s 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
How to Apply – Entry Requirements and Fees

NUMed has only one intake each year, which is in May. Application for our May 2019 intake is now open.

If you already meet the entry requirements (see the ‘Entry Requirements’ section later in this brochure) or have forecast results that meet the requirements by mid-March 2019, then you should apply now using the following procedure:

1. You must apply directly to NUMed. Applicants should download and complete the Application Form from the NUMed website at 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.
   - A copy of your identity card or passport
   - Transcripts/certificates showing your previous academic awards/examination results
   - Your current academic transcripts or forecast results in your pre-university examination; these must be certified by your school or college

3. Once we have received your application, an acknowledgement e-mail will be sent to you from the NUMed Office.

4. Your application will be considered by our Admissions Team; you will then be notified whether you have been offered a place on the Foundation in Biological and Biomedical Sciences programme.

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

International applicants:
The closing date for receipt of international applicants is 15th March 2019. This is to give us enough time to assist you in obtaining your student visa.

The date of registration for enrolment in 2019 is tentatively Monday, 13th May 2019.
Fees

A single inclusive fee is charged to cover the costs of tuition, library, laboratory, placement, examination and administration fees, as well as all other academic-related charges for the programme.

<table>
<thead>
<tr>
<th>FEES 2019 – 2020</th>
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<tbody>
<tr>
<td>Malaysian Students</td>
<td>RM26,000 for the 12-month programme</td>
</tr>
<tr>
<td>International Students</td>
<td>RM29,380 for the 12-month programme</td>
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</tbody>
</table>

You should note that the fees do not include the cost of living and accommodation in Malaysia. Students studying our Foundation in Biological and Biomedical Sciences programme are strongly advised to stay at the NUMed-managed student accommodation. You will be advised on how to book this once you have been offered a place on the programme.
Entry requirements

To enter NUMed, applicants must satisfy the academic, English language proficiency and age requirements of the university for the Foundation in Biological and Biomedical Sciences as set out below. Selection will be based on a combination of:

- your school examination results (or forecast results)
- your proficiency in English

We recognise that applicants will possess a range of qualifications. While we consider each applicant on an individual basis, taking into account the information you provide in your application including your past academic performance and potential, you need to demonstrate a high level of academic achievement and excellent results in your school examinations.

The examination grade requirements given in the table below are indicative only:

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<tr>
<th>EXAMINATIONS</th>
<th>REQUIREMENTS/ GRADES</th>
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<tbody>
<tr>
<td>SPM/IGCSE or equivalent</td>
<td>4As &amp; 1B in Biology, Chemistry, Physics, Mathematics (or Additional Mathematics) and another subject</td>
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</table>

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

If you accept an offer from NUMed, you must provide us with original or certified copies of your qualification documents prior to commencing the course.

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

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 1119). An IELTS minimum overall score of 5, with no individual band less than 4.5, must be achieved.

All potential students are required to disclose at the time of application whether they have any criminal record which may deem them unsuitable to study at NUMed. You are invited to discuss with NUMed 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 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 will not give special consideration to such statements made at a later time.

Deferment

If you are accepted onto the programme, but wish to defer your place until 2020, please let us know. A deposit will be required for your deferment to be accepted.

The Vice Chancellor’s NUMed Merit Awards

Students who have achieved academic distinction in their Foundation programme and who progress on to 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.

“Students who have achieved academic distinction in their Foundation programme will be eligible for consideration for the Vice Chancellor’s Merit Awards.”
Accepting an Offer

Once you receive an offer of a place on the Foundation 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 Offer Acceptance form sent along with your offer letter, and return it by e-mail to admissions@newcastle.edu.my by the date stipulated in your offer letter.

2. Confirmation of your acceptance
   Upon receipt of your completed Offer Acceptance form, the NUMed Admissions team will send you an e-mail 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 RM3,000, which will be deducted from your fees once you commence the programme.

   Payment must be made by the date stipulated in your original offer letter. An official receipt will be issued to you once we have received the 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 required grades/results set out in your offer letter. If you do not meet the conditions of the offer, your deposit will be refunded. However, if you have accepted our offer and meet our conditions but decide later not to study at NUMed, your deposit will not be refunded.

4. Next steps
   Once we have received your deposit, we will send you Student Accommodation information. You will receive our Welcome Pack and information on enrolment and induction in April 2019.
Outline of the Foundation in Biological and Biomedical Sciences Programme

The curriculum is arranged with eight modules (180 UK credits) being studied over three semesters as follows.

<table>
<thead>
<tr>
<th>Module Name</th>
<th>Credits</th>
<th>Sem 1</th>
<th>Sem 2</th>
<th>Sem 3</th>
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<tbody>
<tr>
<td>Foundation Biology 1</td>
<td>20</td>
<td></td>
<td></td>
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<tr>
<td>Foundation Biology 2</td>
<td>20</td>
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<tr>
<td>Foundation Chemistry</td>
<td>20</td>
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<tr>
<td>Foundation Physics</td>
<td>20</td>
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<tr>
<td>Foundation Medical Studies</td>
<td>20</td>
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<tr>
<td>Foundation Mathematics and Statistics</td>
<td>20</td>
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<tr>
<td>English for Academic Purposes</td>
<td>40</td>
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<td></td>
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<tr>
<td>Study Skills and ICT for Science and Medicine</td>
<td>20</td>
<td></td>
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</tbody>
</table>

The curriculum is arranged with eight modules (180 UK credits) being studied over three semesters as follows.

- **Foundation Biology 1**
  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**
  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**
  This module introduces the fundamental principles of physical, organic and inorganic chemistry.

- **Foundation Physics**
  This module introduces key concepts and principles of physics including mechanics, energy, electricity and thermal physics.

- **Foundation Medical Studies**
  This module introduces students to a range of aspects of medicine and medical science, and prepares students for potential application to the undergraduate MBBS programme 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 the undergraduate MBBS programme.

- **Foundation Mathematics and Statistics**
  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.
The curriculum is arranged with eight modules being studied over three semesters.

English for Academic Purposes
Throughout this module, students will develop their English grammar, vocabulary, pronunciation and writing style with particular reference to academic English. This includes the use and understanding of spoken English in academic and social contexts, developing reading and writing techniques for academic study and learning how to read challenging academic texts. This 40-credit module is designed to provide students with extensive practice and development time.

Study Skills and ICT for Science and Medicine
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 in Biological and Biomedical Sciences programme is delivered at NUMed 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 discussions 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, the university’s principal support services and general information about EduCity as well as NUMed and its programmes. New students are given detailed programme information and the timetable for lectures/practicals/tutorials/etc.

Assessment

The Foundation programme at NUMed mirrors the Foundation programme offered at Newcastle University, UK. The principles of Constructive Alignment underpin the delivery of the programme, where 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 are assessed primarily through unseen examinations, written coursework (such as numerical exercises, essays, case studies, project reports and laboratory reports), in-course tests and observations of the student’s 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 observations of experimental techniques and laboratory reports, seminar/tutorial exercises and 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 covers reading, writing, speaking and listening. Other modules indirectly assess English language competency and the ability to take notes and use sources.

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

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

Progression to Programmes at NUMed

Students who successfully complete the Foundation 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 CGPA of 3.50 and average grades of 75% with 70% in English for Academic Purposes, 75% in Biology 1, Biology 2 and Chemistry and 70% in Foundation Medical Studies.

To qualify for admission to the 2+1 BSc (Hons) Biomedical Sciences programme offered at NUMed and Newcastle University, UK, you must achieve CGPA of 3.00 and average grades of 65% with 65% in English for Academic Purposes, 70% in Biology 1 and Biology 2, and 55% in Chemistry.

Progression to Programmes at Newcastle University, UK

Students who successfully complete the Foundation in Biological and Biomedical Sciences to the required level will be automatically offered a place on a wide variety of programmes at Newcastle University, UK, in both the Faculty of Medical Sciences including: Bachelor of Medicine, Bachelor of Surgery (MBBS) (subject to UKCAT score and interview), 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) and 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 Life at NUMed

At the beginning you may find life at university a little daunting as you come to terms with the more independent life you will lead away from home. First, this is quite normal and you are not alone – others will feel the same! Making new friends and joining existing student social networks are great ways to help you embrace your new life. This section of our brochure is designed to provide you with some general and practical information that will help you to settle in.

The Campus

The permanent, purpose-built NUMed campus is set within the EduCity Iskandar Malaysia development in Iskandar Puteri, Johor. This dedicated international higher education hub is located 1km 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, and comprises over 15,000m² of academic space housing state-of-the-art facilities and innovations in medical learning and teaching technology.

Our facilities include lecture and seminar rooms, a laboratory and clinical skills complex, the learning resource centre, and the student cafeteria and recreation centre.

The centrepiece of the campus, and at the heart of your learning, is the Learning Resource Centre. Constructed around the medical library facility, this innovative building is modelled on a number of emerging, groundbreaking facilities at other international world-class higher education institutions. Spanning three floors, the largely open-plan Centre provides 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. Our dedicated, custom-built Medical Learning Environment allows you online access to the entire curriculum and associated learning resources, whether you are on or off campus, as long as you have an internet connection.

The learning environment we provide here at NUMed goes beyond our excellent physical resources, for the framework of your learning is fully supported by the organisation and culture of Newcastle. A wide range of factors contributes to making NUMed an ideal place to study, including our institutional goals and 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 provides you with a safe and secure environment, which encourages your learning, fosters collaboration, values the contribution of individuals and is based on mutual respect.
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 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 staff member at NUMed is allocated to you as your Personal Tutor to offer general academic guidance and pastoral support.

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 Student-Staff Committee for the programme, and the student members play an important role in managing the curriculum and its development.

NUMed Student Association

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

The purposes of the Student Association are twofold:

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

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

As well as organising entertainment and activities for the student body, the Association also runs campaigns on issues affecting students, and works with the local health authorities in promoting and increasing awareness of health-related issues among the local community.

For more information please visit the Student Association Facebook page at https://www.facebook.com/numedSA
NUMed has its own student accommodation. The new 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 wireless Internet access. There are 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. Students are responsible for cleaning their own apartment. Each apartment houses up to four students.

NUMed’s Student Accommodation is truly multinational, multi-ethnic and multicultural. The new accommodation is just a five-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 a 15-minute drive away.

These brand new apartments will be managed by NUMed and you can therefore expect a responsive and efficient service.

The apartments feature 24-hour, non-intrusive security.

Our Accommodation and Hospitality Services team is 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 https://www.ncl.ac.uk/numed/accommodation/#about.
Recreation and the EduCity
Iskandar Malaysia Sports Complex

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

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.

If you elect to undertake any period of study at our UK campus, you should allow approximately RM6,000 per month for living costs in Newcastle.

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

- Outdoor arena and pitches for field sports and athletics
- Indoor arena and facilities for sports such as badminton, volleyball, etc.
- 50-metre swimming pool
- Gymnasium

Newcastle University Medicine Malaysia
Contact us for further information
NUMed Malaysia SDN. BHD. (No. 792091-W)
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EduCity@Iskandar, 79200 Iskandar Puteri
Johor, Malaysia

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/NewcastleUniversityMedicineMalaysia www.newcastle.edu.my