



From Newcastle.
For Malaysia.

Foundation in Biological
and Biomedical Sciences

KPT/JPT(N/010/3/0361)08/2020

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/O10/3/O361) 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 University

Medicine Malaysia



About the QS Stars™ System

The QS Stars™ rating system is operated by the QS Intelligence Unit, the independent compiler of the QS World University Rankings® since 2004. The system evaluates universities across a wide range of important performance indicators as set against pre-established international standards. By covering a broader range of criteria than any world ranking exercise, QS Stars™ shines a light on both the excellence and the diversity of the rated institution.

Find out more about:

QS Stars™ system at
<https://www.topuniversities.com/qs-stars/qs-stars-methodology>

QS Stars™ new university rating at
<https://www.topuniversities.com/qs-stars/qs-stars-new-university-rating>

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, UK

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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Foundation in Biological and Biomedical Sciences

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

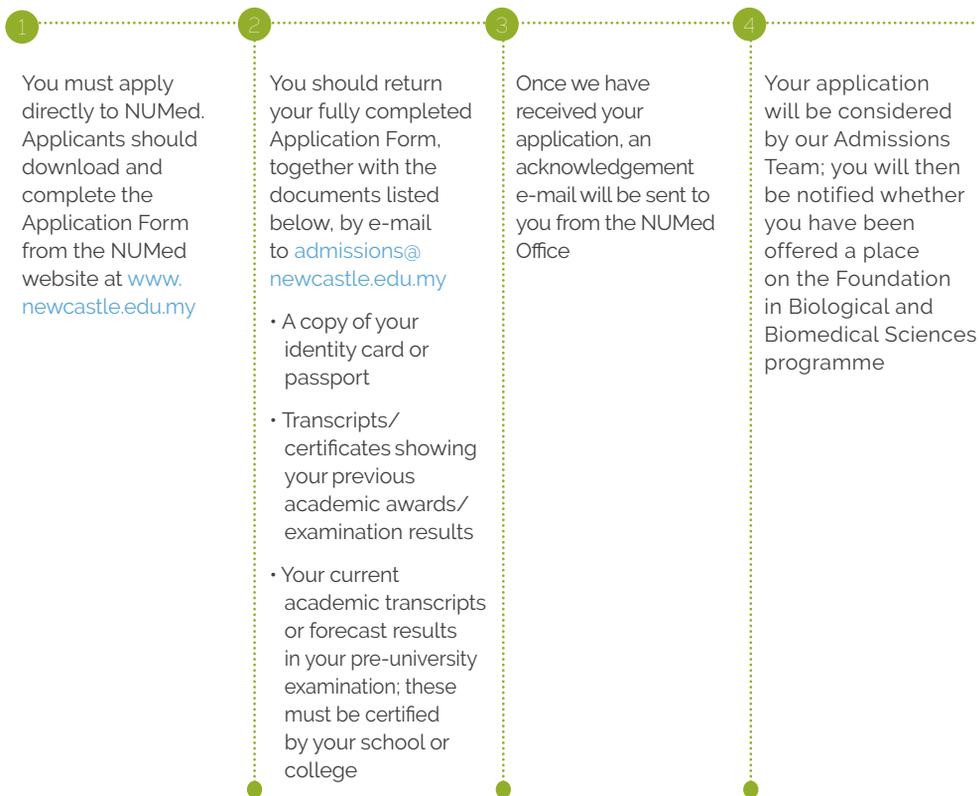
 - 6** encourages students to undertake self-evaluation to help them identify additional needs

 - 7** complies with university, MQA and QAA codes of practice
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How to Apply – Entry Requirements and Fees

NUMed has two intakes each year, which are in May and September. Application for our May and September 2020 intakes 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 2020 or mid-August 2020, then you should apply now using the following procedure:



The date of registration for enrolment in 2020 is tentatively Monday, 11th May 2020 and Monday, 28th September 2020.

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 2020 and 15th July 2020. This is to give us enough time to assist you in obtaining your student visa.

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.

FEES 2020-2021	
Malaysian Students	RM26,780 for the 12-month programme
International Students	RM29,380 for the 12-month programme

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:

EXAMINATIONS	REQUIREMENTS/ GRADES
SPM/IGCSE or equivalent	4As & 1B in Biology, Chemistry, Physics, Mathematics (or Additional Mathematics) and another subject

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-Levels 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 2021, 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 2020 and August 2020.

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.

Module Name	Credits	Sem 1	Sem 2	Sem 3
Foundation Biology 1	20	████████████████████		
Foundation Biology 2	20		████████████████████	
Foundation Chemistry	20	████████████████████		
Foundation Physics	20			████████
Foundation Medical Studies	20			████████
Foundation Mathematics and Statistics	20	████████████████████		
English for Academic Purposes	40	████████████████████	████████████████████	
Study Skills and ICT for Science and Medicine	20	████████████████████		

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.



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The curriculum is arranged with eight modules being studied over three semesters

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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 transferable 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.

Transferable 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 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

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.

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.

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.

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



For more information

NUMed Malaysia Sdn. Bhd. (No. 792091-W)
No 1, Jalan Sarjana 1, Kota Ilmu
EduCity@Iskandar, 79200 Iskandar Puteri
Johor, Malaysia

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Disclaimer

Although great care is taken in compiling the Guide, it is for the general guidance of prospective students only. This publication is intended for those who are interested in applying for admission to the University in 2020 and is intended as advance publicity for information and guidance purposes only. Details included are correct at the time of going to print in September 2019. The most up-to-date and detailed source of information at any time is the undergraduate website at <https://www.ncl.ac.uk/numed/study/undergraduate/>.

The matters covered by this publication are subject to change from time to time, both before and after a candidate's admission. Unavoidable changes may on occasion have to be made, affecting the availability of programmes, subjects, modules and options within programmes, and of additional opportunities such as placements, field trips and exchange visits. Reasons for change could include timetabling issues, changes in staff, requirements of programme-accrediting bodies and academic changes within subject areas, or be due to minimum student numbers on a course.

The University is not responsible for the content of any websites which do not form part of the Newcastle University Medicine Malaysia domain (<https://www.ncl.ac.uk/numed/>) and whose addresses are given in this publication.