

MEDICINE

# MEDICINE



**SEGi**  
University &  
Colleges

## 1. Analytical/Creativity Critical Thinking

Innovative problem-solver who can generate creative solutions.

## 2. Entrepreneurship

Results-driven achiever with exemplary planning and organisational skills, along with a high degree of detail orientation.

## 3. Job Readiness

Highly analytical thinking with demonstrated talent for identifying, scrutinising, improving, and streamlining complex work processes.

## 4. Lifelong Learning

Flexible individual who is self-motivated and thrives to pursue knowledge autonomously for personal or professional reasons.

## 5. Managing EQ (Positive Thinking)

Goal-driven leader who maintains a productive climate and confidently motivates, mobilises, and coaches employees to meet high performance standards.

## 6. Communication Skills

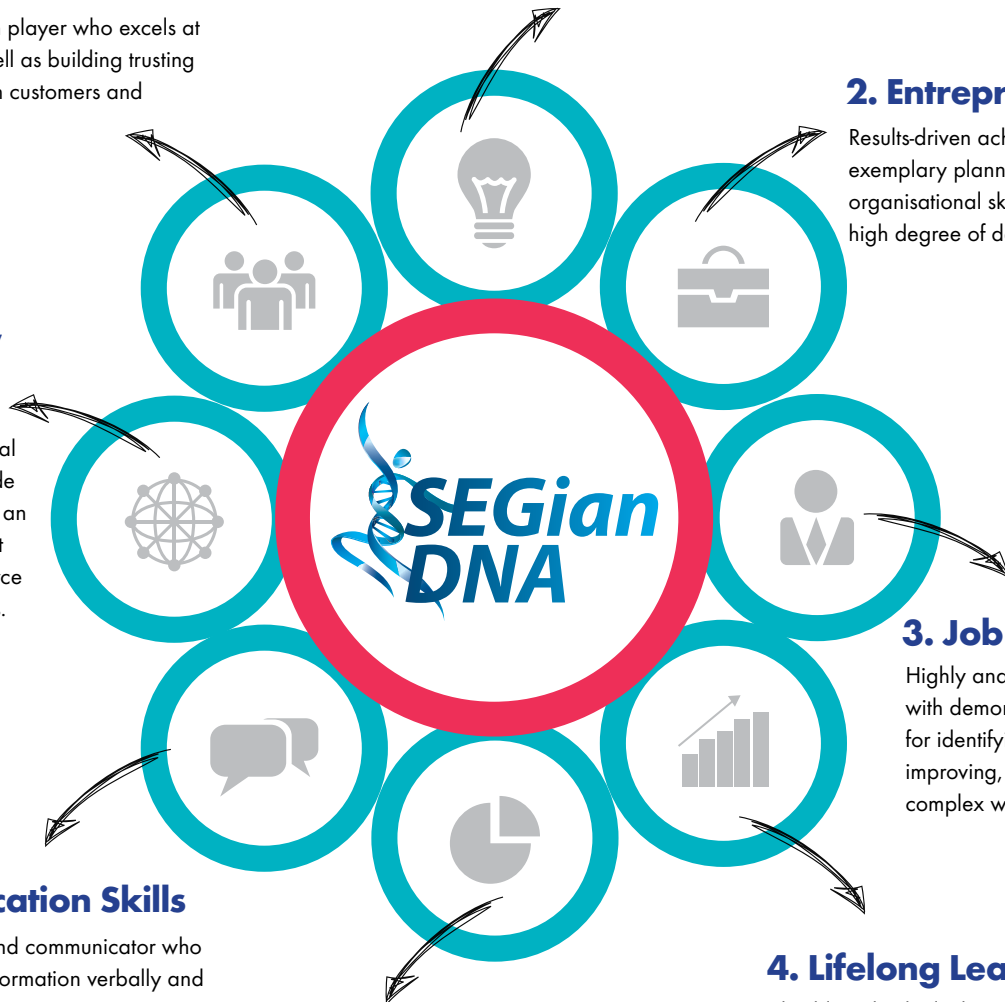
Exceptional listener and communicator who effectively conveys information verbally and in writing.

## 7. Global Perspective/ Citizenship

Personable professional whose strengths include cultural sensitivity and an ability to build rapport with a diverse workforce in multicultural settings.

## 8. Leadership & Management

Resourceful team player who excels at influencing as well as building trusting relationships with customers and colleagues.



SEGi graduates are fully equipped with the skills and tools of the trade essential in facing the challenges of today. These skills carved into everyday practice, proves that SEGians are all-rounders, at the top of their game in all aspects.

# DEVELOPING HEALING HANDS & CARING HEARTS

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Medicine is a profession dedicated to the health and well being of patients. Physicians hold many responsibilities as their duties revolve around the study, diagnose and treatment of a wide variety of injuries and illnesses. There is a wide range of medical career paths based on the specialty that has been chosen.

We, at SEGi University strives to produce doctors who are lifelong learners, keeping abreast with technological advances in medicine, to ensure the community receives prompt, accurate and effective care. This is made possible through the diverse teaching and learning experiences that are student and patient-centred promoting holistic care and emphasising professional and ethical values.

The Bachelor of Medicine and Bachelor of Surgery programme is developed especially for students who believe in making a difference in the lives of others through the delivery of better health care. This medical programme prepares aspiring doctors for a challenging career ahead that covers the parameters of promotion, prevention, therapeutic and rehabilitative medicine.

## FOREWORD: MESSAGE FROM THE DEAN

The MBBS programme offered by SEGi University is unique. Built upon the integrated nature of patients' presentation to health care facilities, it offers patient-centered as well as student-centred collaborative learning experience, driven by the primary value, "The needs of the patient come first." Our main objective is to bring up "The Best in You Made Possible" via our innovative integrated curriculum whereby we focus on educating our students in patient-centered, science-driven, team-based, high-value health care environment.

The Faculty of Medicine provides diverse learning opportunities in a variety of clinical settings across the country. This in turn provides them with the environment, that is conducive to develop their leadership skills on top of becoming an exemplary team-player in the health care industry to prepare them to become doctors of tomorrow.

**Professor Dr Samiah Yasmin Abdul Kadir**

*Dean, Faculty of Medicine  
SEGi University*



# MEDICINE|

## Awards received by SEGi University & Colleges



EDUCATION – MALAYSIA  
2014 – 2015

**Education – Malaysia  
World Branding Award**



**Outstanding  
Innovation Award 2014**



**Reader's Digest  
Trusted Brand 2015**  
(Services, Private University/College)



**Reader's Digest  
Trusted Brand 2014**  
(Services, Private University/College)



**Reader's Digest  
Trusted Brand 2013**  
(Services, Private University/College)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**SILVER**  
2015

(Education & Learning)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**SILVER**  
2014

(Education & Learning)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**SILVER**  
2013

(Education & Learning)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**BRONZE**  
2012

(Education & Learning)

■ **Students Choice Awards 2015**  
(Top 10 Universities)

■ **The Edge Billion Ringgit Club 2013**  
(Best Performing Stock Award - Trading & Services)

■ **3rd Global Leadership Award 2013**  
(Leadership in Educational & Training Excellence)

■ **Asia Pacific Entrepreneurship Awards 2012**  
(Most Promising Entrepreneur)

■ **10th Asia Pacific International Honesty  
Enterprise Keris Award 2011**

■ **The BrandLaureate Best Brand Award 2010 - 2011**  
(Education Tertiary Private)



### EARLY CLINICAL EXPOSURE

The curriculum for the SEGi University MBBS programme was developed with the aim of producing doctors that are competent, caring and scientific while also being able to anticipate and respond to the changes in community needs, medical science and technology. One such way of developing these expertise is through exposure to early patient contact and clinical training, allowing students to develop high levels of clinical skills and medical knowledge. As such, the curriculum for the SEGi MBBS introduces students to early clinical exposure in Phase I programme.



### INTEGRATED CURRICULUM

The SEGi University MBBS programme is an integrated curriculum. This means that basic and clinical sciences are not delivered as separate units of study. Instead, content from a range of these basic and clinical science disciplines are integrated throughout the course. This integrated curriculum more closely reflects the way in which students will be expected to identify and address clinical problems in both their educational and professional careers.



### STUDENT-CENTRED LEARNING APPROACH

Another feature of the SEGi University MBBS programme is the student-centred learning approach that places a higher emphasis on delivery through engagement with the students, problem-based learning, e-learning, student-centred collaborative learning (SCCL) and personal interaction. This approach fosters the development of skills for interpersonal communication and teamwork while also shaping students to become lifelong learners.



### iMENTORING

iMentoring is an innovative approach that utilises an online platform to enhance the reflection portfolio used in affective domain assessment. This is augmented with regular sessions of mentoring activity with our students.





# SEGi's Edge

*In omnia paratus*, which means 'ready for anything' is the motto of our Faculty. We take pride in producing medical professionals who will uphold this spirit.



## Early Clinical Exposure

Students are exposed to clinical methodologies as early as Year 1 into their studies. Formal clinical training will be done from Year 3 onwards.



## Passionate Educators

Our team of lecturers are passionate teachers and are readily approachable.



## IT Savvy

At every opportunity we expose our students to advanced methods of learning. Using the proprietary SEGiSphere platform, students are able to access pre-recorded PANOPTO recordings of lectures and practical sessions, lecture materials and e-resources such as ClinicalKey and Access Medicine.



## Well Equipped






Our Anatomy Museum and Dissertation Hall houses hundreds of models. Cadaveric specimens are used during practical classes.



## Team Based Learning

We encourage students to work collectively and foster collegiality by having cross discipline Problem Based Learning (PBL) and other small group learning activities.



 Programme	 Awarding Institution	 Duration	 Campus	 Intake
Bachelor of Medicine, Bachelor of Surgery (M.B.,B.S.)	SEGi University	5 years	Kota Damansara	September

## Admission Requirements

As of 30th July 2013, the Malaysian Medical Council (MMC) had adopted the following Minimum Criteria & Qualification for the entry into Medical Programmes in Malaysia.

## Academic Requirements

All applicants who enter a matriculation, foundation or pre-medical programme, except those with a degree qualification in the arts of humanities, shall have passed and attained a minimum of the following at School Certificate level or its equivalent:

- i Sijil Pelajaran Malaysia (SPM) with 5 Bs each in Biology, Chemistry, Physics, Mathematics (or Additional Mathematics) and another subject, OR
- ii General Certificate of Education Ordinary "O-Levels" with 5 Bs each in Biology, Chemistry, Physics, Mathematics (or Additional Mathematics) and another subject.

All applicants with a Unified Examination Certificate (UEC) who enter a matriculation, foundation or pre-medical programme, except those with a degree qualification in arts or humanities, shall have passed and attained a minimum of B4 each in 3 subjects.

- i Unified Examination Certificate (UEC) with B4 each in 3 subjects in Biology, Chemistry, Physics (or Mathematics or Additional Mathematics).

All applicants, except those with a degree qualification in the arts or humanities, shall have passed and attained a minimum of the following at:

### a. Higher School Certificate or its equivalent:

- iii Sijil Tinggi Pelajaran Malaysia (STPM); grades BBB, ABC or AAC in Biology, Chemistry, Physics or Mathematics, OR
- iv GCE A-Levels; grades BBB, ABC or AAC in Biology, Chemistry, Physics or Mathematics, OR
- v Matriculation, Foundation in Science, Pre-Medical Course; CGPA 3.0 (out of 4) in 3 subjects i.e. Biology, Chemistry, Physics or Mathematics, and provided the course in not less than 1 year in the same accredited institution and the minimum entry qualification is 5 Bs each in Biology, Chemistry, Physics, Mathematics (or Additional Mathematics) and another subject at School Certificate level or its equivalent, OR
- vi United Education Certificate (UEC); B4 each in 5 subjects i.e. Biology, Chemistry, Physics, Mathematics and Additional Mathematics, OR
- vii Monash University Foundation Pre-University Program (MUFY), University of New South Wales (UNSW) Foundation, Western Australia Curriculum Council, HSC Sydney Australia, Trinity College Foundation Studies, Australian Universities Foundation Programmes, South Australian Matriculation (SAM) Victorian

- Certificate of Education Australia Year 12, Australian Matriculation (AUSMAT); aggregate or average of 80% or the equivalent of B in 3 subjects i.e. Biology, Chemistry, Physics or Mathematics; OR
- viii National Certificate of Educational Achievement (NCEA) level 3 or New Zealand Bursary, average of 80% in any 3 subjects i.e. Biology, Chemistry, Physics or Mathematics, OR
- ix Canadian Pre-University (CPU) or Canadian International Matriculation Program (CIMP/Canadian Grade 12/13) or Ontario Secondary School Diploma Grade 12; average of 80% in any 3 subjects i.e. Biology, Chemistry, Physics or Mathematics, OR
- x Indian Pre-University; average 70% in any 3 subjects i.e. Biology, Chemistry, Physics or Mathematics, OR
- xi International Baccalaureate; 30 points with a minimum of 2 science subjects or Mathematics at Higher Level (HL) and 1 science subject at Standard Level and attained a minimum score of 4 each in Biology, Chemistry, Physics (or Mathematics).

OR

### b. Diploma Level

- i Diploma in Health Science; CGPA 3.5 (out of 4), and provided the course is not less than 5 semesters or 2 ½ years in the same accredited institution and the minimum entry qualification is 2 Bs in Biology, Chemistry or Physics and 3 credits each in English, Mathematics (or Additional Mathematics) and another subject at School Certificate Level or its equivalent.

OR

### c. Degree Level:

- i Degree in Health or Pure or Applied Sciences; CGPA 3.0 (out of 4) in a 5-year medical programme, OR
- ii Degree in Health or Pure or Applied Sciences; CGPA 3.3 (out of 4) in a 4-year graduate entry medical programme, OR
- iii Degree in the Arts of Humanities; CGPA 3.5 (out of 4) in a 5-year medical programme, OR
- iv Degree in the Arts of Humanities; CGPA 3.75 (out of 4) in a 4-year graduate entry medical programme.

## Language Requirements

All applicants shall have attained a level of competence in English to enable them to complete the course successfully. Graduates from a medical programme who seek employment in the public sector shall attain a credit in Bahasa Malaysia and English at SPM or its equivalent.

## Other Requirements

Applicants may be required to pass an aptitude test and / or an interview and / or A university entrance examination.

## Clarification

In the event that there are any doubts, or there are no provisions in this guideline, prospective students are encouraged to seek clarification with the Malaysian Medical Council (MMC), [www.mmc.gov.my](http://www.mmc.gov.my).

# BACHELOR OF MEDICINE, BACHELOR OF SURGERY (M.B.,B.S.)

SEGi UNIVERSITY

Available at our main campus in Kota Damansara, this programme is carefully shaped for those who believe in making a difference in the lives of others through better health by becoming a caring and knowledgeable doctor. As aspiring doctors, this programme prepares you for a challenging career ranging from the prevention, therapeutic and rehabilitative medicine. We strive to groom doctors to be lifelong learners who stay aware of technological advances in medicine to ensure the community receives appropriate and effective care.

The programme encompasses three phases. Phase I spans across two years of the programme, where you are exposed to basic medical sciences covering subjects including Anatomy, Biochemistry, Physiology, Pathology, Medical Microbiology and Medical Parasitology, as well as Community Medicine and early clinical exposure in an integrated system approach. In Phase II, you'll begin your early clinical clerkship with one year of rotational posting in internal medicine, paediatrics, surgery and women's health.

You gain further knowledge and clinical skills during your senior clerkship in Phase III, which covers two years in various clinical disciplines, namely community based medicine, psychiatry, palliative care and rehabilitation, specialised postings of ophthalmology, otolaryngology, anaesthesiology, dermatology, diagnostic imaging and forensic medicine during your Year 4 of study. In the final year, you will undergo orthopaedics and trauma posting and in preparation of the Final Professional Examinations, you will revisit the four major postings in clinical medicine i.e. internal medicine, paediatrics and neonatology, surgery and women's health.

Throughout the five years of study, you will also develop your soft skills in communication, social responsibility, team building, critical thinking, problem solving, leadership and management.

## Programme Modules

PHASE 1		PHASE 3	
<b>Block 1 - 4 : Year 1</b> <b>Integrated Teaching &amp; Learning of Basic Medical Sciences</b> <ul style="list-style-type: none"> <li>■ Normal Structure &amp; Function of the Human Cell, Tissue &amp; Body System</li> <li>■ Normal Response &amp; Process to Disease State. Upper &amp; Lower Limbs Musculoskeletal Systems</li> <li>■ Body Reaction to Physical, Chemical and Biological Agents</li> <li>■ Clinical Methods and Introduction to Community Medicine</li> <li>■ Clinical Correlation</li> <li>■ Block Exam/Re-Exam</li> </ul>		<b>Posting : Year 4</b> <b>Rotation Posting In Major &amp; Special Disciplines</b> <ul style="list-style-type: none"> <li>■ Elective Posting</li> <li>■ Primary Care Medicine Psychiatry, Palliative Medicine &amp; Rehabilitation</li> <li>■ Ear, Nose And Throat (ENT), Anaesthesiology, Forensic, Dermatology, Radiology &amp; Ophthalmology</li> <li>■ Posting Exam/Re-Exam</li> </ul>	
<b>Block 1 - 4 : Year 2</b> <b>Integrated Teaching &amp; Learning of Basic Medical Sciences</b> <ul style="list-style-type: none"> <li>■ Cardiovascular &amp; Respiratory Systems</li> <li>■ Alimentary and Hepatobiliary, Blood &amp; Haemopoetic Systems</li> <li>■ The Endocrine, Reproductive &amp; Urinary Systems</li> <li>■ The Locomotor &amp; Nervous Systems</li> <li>■ Clinical Correlation</li> <li>■ Block Exam/Re-Exam</li> <li>■ 1st Professional Examination</li> </ul>		<b>Posting : Year 5</b> <b>Rotation Posting In Major &amp; Special Disciplines</b> <ul style="list-style-type: none"> <li>■ Surgery and Critical Care</li> <li>■ Orthopaedics and Traumatology</li> <li>■ Women's Health &amp; Diseases II</li> <li>■ Internal Medicine II</li> <li>■ Paediatrics and Neonatology</li> <li>■ Senior Clerkship</li> <li>■ Posting Exam/Re-Exam</li> <li>■ Final Professional Exam</li> </ul>	
PHASE 2			
<b>Posting : Year 3</b> <b>Clinical Skills Development</b> <ul style="list-style-type: none"> <li>■ Clinical Foundation</li> <li>■ Internal Medicine I</li> <li>■ General Surgery</li> <li>■ Women's Health &amp; Diseases I</li> <li>■ General Paediatrics</li> <li>■ Junior Clerkship</li> <li>■ Posting Exam/Re-Exam</li> </ul>			

All diploma and degree programmes require students to take 4 general subjects (Mata Pelajaran Umum), as required by the Ministry of Education, Malaysia.

The following is an indication of current programme content. However, the rapidly changing nature of the subject area means that the courses offered and individual course content are continuously updated to meet industry needs. Also, please note that certain combinations of options may not be available.



### DID YOU KNOW?

Students get **EXCLUSIVE ACCESS** to several teaching hospitals in Malaysia.



### Career Opportunities

If you wish to practice as a medical doctor in Malaysia, upon graduation, you are required to complete the housemanship programme in public hospitals organised by the Ministry of Health, Malaysia. After completion of the housemanship, you may undertake postgraduate specialists degree programmes in all areas of medicine according to your preferred choice of career paths which will become apparent as you progress through the five-year MBBS programme.





MOHD FAZREEN SHAH

“One thing that strikes me about SEGi University is the breadth of opportunity for both academic and personal development. I feel that the style of teaching hasn't just been about spoon-feeding but more about developing as an all-round professional. The teaching and administrative staff in Faculty of Medicine encourages the idea of a community and it creates a great atmosphere of support among the students.”

“I have really enjoyed my time studying Medicine here in SEGi University. The programme is very comprehensive, including laboratory work and practical sessions in addition to the traditional lecture methods. I obtained a strong basic grounding in the scientific subjects and its relevance to the practice of Medicine. And I will finish at the pinnacle with an abundance of knowledge.”



DANESH BALAKRISHNAN



CLARENCE LEE HAN WEE

“I got to know about SEGi University from my secondary school in Sibü, during their roadshow. I'm a scholarship student and since then, I had endless opportunities – imagine having surgical suturing and laparoscopic skills training in your very first year, and the chance to have dinner with Professors in your second year. You can't help but wonder, “What's next?”

“SEGi University, Faculty of Medicine spared no expenses in providing the students with top quality education. The lecturers at Faculty of Medicine are also our personal mentors, moulding us in every aspect into becoming excellent doctors. They have done far more than just educate and teach – they motivated and inspired me to strive for excellence.”



MOHD KAMIL NORZAM



## INTERESTING FACT

We have **ATTAINED FULL ACCREDITATION AND IS RECOGNISED BY VARIOUS MEDICAL COUNCILS AROUND THE WORLD**, including the Thailand Medical Council and Sri Lanka Medical Council.





**SETARA 2013**

SEGi University,  
Tier 5 Rating: Excellent

The best in you, made

**POSSIBLE**

**SEGi University** (DU031-B)

No. 9, Jalan Teknologi, Taman Sains Selangor, Kota Damansara,  
PJU 5, 47810 Petaling Jaya, Selangor Darul Ehsan.

**T** 603 6145 1777

**F** 603 6145 1666

**E** [infokd@segi.edu.my](mailto:infokd@segi.edu.my)

**TOLL FREE** 1800 88 7344

OPTOMETRY

# OPTOMETRY



**SEGi**  
University &  
Colleges

# INSPIRING VISIONARIES IN EYE CARE

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Train for a rewarding career in optometry in private practice, hospitals, eye research, optical service or industry.

SEGi University offers the most modern and contemporary optometry degree in Malaysia, and is one of only a few institutions to offer an optometry programme privately. Our Bachelor of Optometry (Hons) will help you gain knowledge and expertise in subjects relating to the identification and treatment of dysfunctions and disorders of vision, and the vision system.

Our campus in Kota Damansara includes state-of-the-art facilities such as our eye care centre called SEGi EyeCare, which allows students to study optometry in a real world setting and to gain practical experience using the latest specialised equipment.

The programme emphasises clinical practice and offers an excellent integrated, professional and scientific education in optometry. Clinical placements also take place in hospital eye departments and private optometry/ophthalmology practices. These will allow you to apply the knowledge and skills you gain during your programme prior to starting your career in optometry.



“Contemporary optometry has gone well beyond spectacles and contact lenses. This philosophy is well embedded within the Bachelor of Optometry (Hons) programme at SEGi, where students are trained in the examination of eye health in generating prescriptions for correcting their patients’ vision.”

**Professor Azrin Esmady Ariffin**

Dean, Faculty of Optometry & Vision Sciences  
Vice President (Academic), SEGi University



# OPTOMETRY|

## Awards received by SEGi University & Colleges



EDUCATION – MALAYSIA  
2014 – 2015

**Education – Malaysia  
World Branding Award**



**MRCA  
CROWN  
AWARDS**  
**Outstanding  
Innovation Award 2014**



**Reader's Digest  
Trusted Brand 2015**  
(Services, Private University/College)



**Reader's Digest  
Trusted Brand 2014**  
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**PUTRA  
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(Education & Learning)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**BRONZE**  
2012  
(Education & Learning)

■ **Students Choice Awards 2015**  
(Top 10 Universities)

■ **The Edge Billion Ringgit Club 2013**  
(Best Performing Stock Award - Trading & Services)

■ **3rd Global Leadership Award 2013**  
(Leadership in Educational & Training Excellence)

■ **Asia Pacific Entrepreneurship Awards 2012**  
(Most Promising Entrepreneur)

■ **10th Asia Pacific International Honesty  
Enterprise Keris Award 2011**

■ **The BrandLaureate Best Brand Award 2010 - 2011**  
(Education Tertiary Private)





### MODERN & PROGRESSIVE CURRICULUM

The Optometry curriculum at SEGi presents all aspects of the essential basic sciences, vision sciences, optical practice, as well as general and speciality practices in Optometry within a 4-year study period. The curriculum also takes into account the required biomedical body of knowledge which has become a core area of study in optometric curricula; thus, preparing graduates for an extended scope of practice in Optometry including therapeutics.



### EXTENSIVE & VARIED CLINICAL EXPERIENCE

The SEGi programme prepares students for patient encounters in a variety of real world scenarios through early clinical practice. This is achievable through our own clinical centre, SEGi EyeCare, and its extensive clinical network which includes General Optometric Practices, Ophthalmology Clinics and Hospital Eye Departments. Clinical instruction begins as early as the first year. Students progress through the various facets of clinical training as they move through our clinical system, in tandem with their progression in their years of study at SEGi.



### EXCELLENT & UNRIVALLED FACILITIES

The SEGi campus houses the Faculty of Optometry & Vision Sciences and the clinical centre, SEGi EyeCare. Our dedicated laboratories in the disciplines of Optics, Vision Sciences and Clinical Practice are modern and complete with all the necessary facilities for effective teaching of the Optometry programme. Our clinical system under the umbrella of SEGi EyeCare consists of both general optometric clinic and speciality clinics, plus an optical dispensary. With such an excellent learning environment, students' academic and clinical experience is unrivalled.



### EXPERIENCED & HIGHLY QUALIFIED TEACHING STAFF

The faculty engages both full-time and part-time academic staff. SEGi prides itself on having a strong team of full-time academics who are qualified, registered optometrists with a range of academic, hospital and private practice experience. Staff from Pharmacy, Dentistry and Medicine also contribute to the teaching of biomedical modules while optometrists from private practice participate in the clinical supervision of students in the clinics.



# SEGi's Edge

The Optometry programme at SEGi delivers education in primary eye care in an academic setting, with a clinical facility nestled within it.



## Modern And Up-To-Date Curriculum

The curriculum presents all aspects of the essential basic science vision science, optical practice, and both general and specialty practice in Optometry within a 4-year study period. It also includes the required biomedical body of knowledge in preparing graduates for extended scope of practice in Optometry.



## Early, Extensive And Varied Clinical Experience

Patient encounter occurs in our own clinical centre, SEGi EyeCare and its clinical network. Clinical training begins as early as the first year and the student progress through the various complexities of clinical training as they move through our clinical system.



## Excellent And Unrivalled Facilities

Our dedicated laboratories in the disciplines of Optics, Vision Sciences and Clinical Practice are modern and complete with all the necessary facilities for effective teaching of the Optometry programme. Our clinical system under the umbrella of SEGi EyeCare consists of both general optometric and specialty clinics, plus an optical dispensary.








## Student-centred Learning approach

The Optometry programme offers this feature to encourage the development of skills for problem solving, critical thinking and communication, via e-learning, interprofessional learning and research.



## Experienced And Highly Qualified Teaching Staff

The faculty engages both full and part time academic staff and SEGi prides on having a strong team of qualified, registered optometrist with a range of academic, hospital and private practice experience in its full time academic staff stable.

 Programme	 Awarding Institution	 Entry Requirements	 Duration	 Campus
Bachelor of Optometry (Hons)	SEGi University	<ul style="list-style-type: none"> <li>• SPM 3 credits in 2 science subjects AND</li> <li>• STPM with minimum CGPA of 2.50; OR</li> <li>• 3Ds in A-Level; OR</li> <li>• Foundation / Pre-University programme with CGPA of 2.5 or above; OR</li> <li>• Any equivalent Pre-U qualifications (Science Stream) OR</li> <li>• Diploma in any science discipline</li> </ul>	4 years	Kota Damansara

The following is an indication of current programme content. However, the rapidly changing nature of the subject area means that the programmes offered and individual course content are continuously updated to meet industry needs. Also, please note that certain combinations of options may not be available.

**As part of the curriculum, students will be required to take 6 general subjects (Mata Pelajaran Umum), as required by the Ministry of Education Malaysia.**



LOH PEI YING  
DEAN'S LIST 2014

“Optometry is my dream career field as I love the time spent with patients, communicating and helping them to understand their vision problems better. In order to experience this, SEGi EyeCare is available in the campus itself, complete with facilities and equipment to help students gain clinical experience before entering the workforce.”

“SEGi Faculty of Optometry & Vision Sciences provides its students with an unrivaled clinical experience. Firstly, students enter the clinic from day one. I have the chance to learn from the beginning by observing during appointments, and by the end of my second year I'm conducting entire eye exams on patients! Secondly, the school being located in Malaysia has the advantage of a very diverse patient population.”



NUR AYUNI MAHIRAH



YEONG YOU LOONG  
DEAN'S LIST 2014

“I'm glad that I've chosen SEGi to study optometry because the lecturers are experience in their field and are always helpful to lend a hand. In addition, students are exposed to vision screening activities and it is most beneficial when starting a career in optometry.”

# BACHELOR OF OPTOMETRY (HONS)

SEGi UNIVERSITY

Our forte has always been in the highly experienced line-up of academic and clinical staff teaching on the programme. The availability of excellent laboratory and clinical facilities add to the strength of the optometry programme at SEGi.

The programme also draws on the expertise of external/visiting lecturers comprising Biomedical scientists, Medical Practitioners, Ophthalmic Surgeons and Practising Optometrists. Clinical training of students is carried out both at the internal clinics on campus, as well as at external sites ranging from private Optometric practices, Refractive Surgery Centres, private Ophthalmologic clinics and Hospital Eye departments.

## Programme Modules

Year 1	Year 2	Year 3	Year 4
<ul style="list-style-type: none"> <li>■ Essential Basic Sciences</li> <li>■ Mathematical Techniques</li> <li>■ Biomedical Sciences for Optometry I &amp; II</li> <li>■ Human Biology</li> <li>■ Ocular Biology</li> <li>■ Geometrical &amp; Physical Optics</li> <li>■ Clinical Studies I</li> <li>■ TITAS</li> <li>■ Hubungan Etnik</li> <li>■ Bahasa Kebangsaan A</li> <li>■ Bahasa Melayu Komunikasi II</li> <li>■ Malaysian Studies III</li> <li>■ Effective Listening</li> </ul>	<ul style="list-style-type: none"> <li>■ Biomedical Sciences for Optometry III</li> <li>■ Ocular Optics I &amp; II</li> <li>■ Visual Science I &amp; II</li> <li>■ Clinical Studies II</li> <li>■ Speciality Clinical Studies I</li> <li>■ Optometric Use of Drugs I</li> <li>■ Personal Health Management</li> <li>■ Business Ethics</li> <li>■ Co-curriculum Management</li> </ul>	<ul style="list-style-type: none"> <li>■ Foundations of Ocular Disease</li> <li>■ Speciality Clinical Studies II</li> <li>■ Basic Clinical Practice</li> <li>■ Optometric Use of Drugs II</li> <li>■ Behavioural Science in Vision Care</li> <li>■ Ophthalmic Dispensing Workshop I &amp; II</li> <li>■ Ocular Disease in Primary Care</li> <li>■ Care of Functional Visual Disorders</li> <li>■ General Clinic I</li> <li>■ Speciality Clinics A &amp; B</li> <li>■ Occupational &amp; Environmental Optometry</li> <li>■ Industrial Placement I</li> <li>■ Entrepreneurship</li> </ul>	<ul style="list-style-type: none"> <li>■ General Medicine in Optometry</li> <li>■ Public Health &amp; Community Optometry</li> <li>■ Professional Issues in Optometry</li> <li>■ General Clinic II &amp; III</li> <li>■ Contact Lens Clinic I &amp; II</li> <li>■ Binocular Vision / Paediatric Clinic I &amp; II</li> <li>■ Advanced Ophthalmic Care Clinic I &amp; II</li> <li>■ Low Vision Clinic I &amp; II</li> <li>■ Optometric Case Studies I &amp; II</li> <li>■ Project / Dissertation I &amp; II</li> <li>■ Industrial Placement II</li> </ul>

## DID YOU KNOW?

Our Bachelor of Optometry programme is **FULLY ACCREDITED BY MQA** signifying full compliance with standards laid down by the Malaysian Optical Council.



## Career Opportunities

Career opportunities include professional private optometric practice (solo or group), retail optical practices, ophthalmology clinics, hospital eye departments and multi-national optical companies.





**SETARA 2013**

SEGi University,  
Tier 5 Rating: Excellent

The best in you, made

**POSSIBLE**

**SEGi University** (DU031-B)

No. 9, Jalan Teknologi, Taman Sains Selangor, Kota Damansara,  
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**T** 603 6145 1777

**F** 603 6145 1666

**E** [infokd@segi.edu.my](mailto:infokd@segi.edu.my)

**TOLL FREE** 1800 88 7344

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DENTISTRY

# DENTISTRY



**SEGi**  
University &  
Colleges

# HEALING HANDS & CARING HEARTS

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Practiced for thousands of years, dentistry is the professional and licensed practice of preventing, diagnosing and treating diseases, injuries, and malformations of the teeth, jaw and mouth. Strong oral well-being is vital to maintain a healthy lifestyle and countenance. Research shows that poor oral health can be linked to heart and lung disease, diabetes, stroke, low birth weight and premature births.

Our Faculty of Dentistry is equipped with a full functioning dental clinic and also many in-house dentists. Here, students are given hands-on practical training sessions, which provide many insights working with both dentists and patients alike. The SEGi Oral Health Care Centre is designed to meet industry standards by undergoing regular spot-check by various health agencies.

The dental profession includes not only those who provide direct patient care, but those who teach, conduct research, and work in public and international health. All of these individuals are vital links in the health care delivery system, necessary to promote social and economic change as well as individual well-being.



“The goal of the Bachelor of Dental Surgery programme is to produce general dental practitioners who are knowledgeable, technically competent, socially responsible, responsive to the changing oral health needs of the community; able to function effectively in a dental team and adhere to the standards of professional conduct and ethics.”

**Datuk Professor Dr. Fawzia Dato' Abdullah**

Founding Dean, Faculty of Dentistry  
SEGi University



# DENTISTRY |

## Awards received by SEGi University & Colleges



EDUCATION – MALAYSIA  
2014 – 2015

**Education – Malaysia  
World Branding Award**



**MRCA  
CROWN  
AWARDS**  
**Outstanding  
Innovation Award 2014**



**Reader's Digest  
Trusted Brand 2015**  
(Services, Private University/College)



**Reader's Digest  
Trusted Brand 2014**  
(Services, Private University/College)



**Reader's Digest  
Trusted Brand 2013**  
(Services, Private University/College)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**SILVER**  
2015  
(Education & Learning)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**SILVER**  
2014  
(Education & Learning)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**SILVER**  
2013  
(Education & Learning)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**BRONZE**  
2012  
(Education & Learning)

■ **Students Choice Awards 2015**  
(Top 10 Universities)

■ **The Edge Billion Ringgit Club 2013**  
(Best Performing Stock Award - Trading & Services)

■ **3rd Global Leadership Award 2013**  
(Leadership in Educational & Training Excellence)

■ **Asia Pacific Entrepreneurship Awards 2012**  
(Most Promising Entrepreneur)

■ **10th Asia Pacific International Honesty  
Enterprise Keris Award 2011**

■ **The BrandLaureate Best Brand Award 2010 - 2011**  
(Education Tertiary Private)





### INTEGRATED CURRICULUM

A programme with a dynamic curriculum, the basic and clinical sciences are not delivered as separate units of study. Instead, content from a range of these basic and clinical science disciplines are integrated throughout the programme. This integrated curriculum reflects more closely of the real life clinical problems which students are expected to identify and address when they graduate.



### STUDENT-CENTRED LEARNING APPROACH

Implementing a proactive approach, there is more emphasis on delivery through engagement with students, problem-based learning, e-learning, small-group tutorials and personal interaction. This approach foster skills such as interpersonal communication and teamwork besides shaping students to become lifelong learners.



### EARLY CLINICAL EXPOSURE

We aim to produce dentists that are competent and caring while also being able to anticipate and respond to the changes in community needs, medical science and technology. One such way of developing these expertise is through exposure to early patient contact and clinical training, allowing students to develop high levels of clinical skills and medical knowledge. As such, the curriculum for the BDS programme introduces students to early clinical exposure in the Early Clinical Phase.



## ORAL HEALTH CENTRE

SEGi's Oral Health Centre is a teaching facility that ensure students have hands on training to develop necessary skills and aptitude.

Students learn by treating patients under close supervision of highly experienced and skilled lecturers. Through that, students will develop the knowledge to solve problems through problem-based clinical situations and lecture. SEGi's Oral Health Centre provides modern clinical facilities, laboratories and clinical teaching methods that are student-centred.

Teaching Facilities include 50 dental units, 45 prosthetic workstations, 25 Simulator Units, 5 Intraoral X-rays and the latest addition to the family, an OP6 X-ray.



### Paediatric Dentistry Laboratory

Our Paediatric Dentistry laboratory is for students to learn oral health care for children.



### Modern Technologies

A patient is having his teeth and the bones of the upper and lower jaw checked by the OPG X-ray before undergoing an orthodontic treatment.



### Early Clinical Exposure

Early Clinical Exposure (Chair-side and Community-based) incorporate knowledge within the context of dental practice. An outcome-based curriculum focuses on the learning process to maximise the acquisition of knowledge and clinical competence in oral health care.



### Modern And Up-To-Date Curriculum

The curriculum integrates vertically and horizontally structured knowledge and practices in all dental disciplines to yield an oral health professional competent in providing best care in oral health for individual patients and the community. A spiral approach is adopted to reinforce learning by revisiting relevant areas throughout the curriculum.





### Dental Clinic

SEGi's dental clinic provides the setting for clinical training, facilitated with state-of-the-art technology and a spacious waiting lounge for patients.



### State-Of-The-Art Facilities

SEGi University, Faculty of Dentistry is engaged in oral health care education, research, patient care, and community service. Our clinics and laboratories are equipped with the latest state-of-art dental chairs and instruments.



### Prosthetic Laboratory

The Prosthetic laboratory is where students learn to provide complete and partial dentures and mouthguards.



### Mentoring

**Mentor-Mentee Activity** – A lecturer is appointed as mentor to 7-9 students (mentee) whom the students can meet to discuss their academic and / or social problems.

**i-Mentoring System** – The i-Mentoring system was developed for both Medical and Dental students as an extension to the portfolio element in medical and dental education as well as mentoring device for mentors and mentees. On this system, students, lecturers and the Dean may communicate securely and privately. Students are encouraged to submit a “diary-like” entry to reflect on the subjects and / or social activities on weekly or monthly basis. It also covers self and peer assessment (affective domain assessment) to mirror themselves and fellow colleague as a team. All student submission on reflection and affective domain assessments will be evaluated by mentor and grades of pass or fail or incomplete will be given at the end of term examination. Students or mentee failing affective domain assessment for more than one term during the first year will not progress into second year.



### Dental Simulation Laboratory

Our Dental Simulation Laboratory is used for a wide variety of teaching and assessment purposes.



### Experienced And Highly Qualified Teaching Staff

The Faculty of Dentistry offers a collegial environment that allows students to benefit from highly qualified and experienced teaching, research, clinical and professional staff. A good number of which holds international qualification in the respective field of dentistry.

## BACHELOR OF DENTAL SURGERY (BDS)

SEGi UNIVERSITY

Dentistry is a highly respected professional career which demands high standards of care and skill, as well as an aptitude for dealing with people. The practice of dentistry is defined as the branch of medicine which is concerned with the study, diagnosis, prevention and treatment of diseases, injuries and malformations of teeth, jaws and mouth.

The SEGi University Bachelor of Dental Surgery (BDS) is a five-year program that aims to produce competent, caring and knowledgeable dental practitioners. Students are exposed to early patient contact and clinical training, with an emphasis on the recognition and prevention of oral diseases. The dynamic curriculum is delivered within a problem-based learning approach, with an emphasis on contextual learning of relevant scientific information and also ensuring the curriculum reflects the way in which students will be expected to identify and address clinical problems, placing a higher emphasis on delivery through engagement with the students.

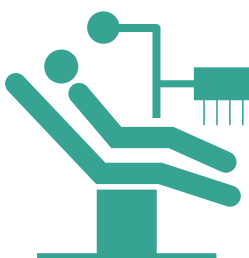
### Programme Modules

<p><b>Year 1</b></p> <p><b>Early Clinical Phase</b></p> <ul style="list-style-type: none"> <li>Man in Health &amp; Disease I</li> <li>Oral Cavity in Health &amp; Disease I</li> <li>Personal &amp; Professional Development I</li> </ul>	<p><b>Year 2</b></p> <p><b>Early Clinical Phase</b></p> <ul style="list-style-type: none"> <li>Man in Health &amp; Disease II</li> <li>Oral Cavity in Health &amp; Disease II</li> <li>Clinical Dental Practice II</li> <li>Personal &amp; Professional Development II</li> <li>Community Oral Health II</li> </ul>	<p><b>Year 3</b></p> <p><b>Clinical Phase</b></p> <ul style="list-style-type: none"> <li>Human Disease III</li> <li>Oral Diagnosis III</li> <li>Clinical Dental Practice III</li> <li>Personal &amp; Professional Development III</li> <li>Community Oral Health III</li> </ul>
<p><b>Year 4</b></p> <p><b>Clinical Phase</b></p> <ul style="list-style-type: none"> <li>Oral Diagnosis IV</li> <li>Clinical Dental Practice IV</li> <li>Personal &amp; Professional Development IV</li> <li>Community Oral Health IV</li> </ul>	<p><b>Year 5</b></p> <p><b>Clinical Phase</b></p> <ul style="list-style-type: none"> <li>Clinical Dental Practice V</li> <li>Personal &amp; Professional Development V</li> <li>Community Oral Health V</li> </ul>	<p>As part of the curriculum, students will be required to take 4 general subjects (Mata Pelajaran Umum), as required by the Ministry of Education</p>



### HAVE YOU HEARD?

Within last four years, **THE FACULTY SPENT NEARLY RM7 MILLION TO PROCURE EQUIPMENT & AROUND RM1 MILLION TO BUILDUP AND IMPROVE INFRASTRUCTURE** to establish a world class teaching-learning dental facility at SEGi University.



#### Career Opportunities

Choose from a wide range of specialties consisting:

- Orthodontics, Oral Surgery, Pediatric Dentistry, Periodontology, Restorative Dentistry, Dental Public Health, Oral Medicine, Oral Pathology, Forensic Odontology.



NG SZE EN

“I want to say that it’s an excellent programme here in SEGi University. The programme modules are well organised! It was definitely a correct decision on my education choice. The programme is flawless and provide great opportunities. Thanks to all of the lecturers and professors for their valuable time during the classes and clinics!”



“I learned a lot of valuable information about the application process while networking with my colleagues and dental professionals. I could not have been more pleased with my experience. I discovered that Dentistry is a form of art that requires real craftsmanship! I am grateful for the unique experience and opportunity provided here in Faculty of Dentistry.”



MICHELLE YU WEN HUA



ADRIAN PEH KANG WEI

“This programme establishes clear objectives for each lesson, to meet a high-quality education standard. The lecturers here practice open communication with us and make themselves available all the time. Because of them, I believe I will be well-prepared to be the best practitioner in the future.”



ANUSHA KODIRI

“Being an international student, studying in SEGi University has been an easy transition for me. SEGi have provided me with the motivation and passion I need to pursue my goal of becoming an Oral & Maxillofacial Surgeon. Being exposed to diagnostic methods and clinical techniques early prepared me to be the best practitioner I can be in the future.”



ASIYATH SHIUNA

“Being the only international student in the batch, SEGi has helped me go through an easy transition, where everyone here is helpful and friendly. Also, I like how the programme is well organised in such a way that it is easily understood. Credits to SEGi and its dental team!”



“Being a dental student in SEGi University is a great experience for me. Our simulation lab is well equipped with the latest technology to get maximum exposure during Operative Dentistry demonstrations like cavity preparations and restorations.”



SYED ZAFRI

## Academic Entry Requirements

- All applicants who enter a matriculation, foundation or pre-medical programme, except those with a degree qualification in arts or humanities, shall have passed and attained a minimum of the following at School Certificate level or its equivalent:

Sijil Pelajaran Malaysia (SPM)	5 Bs each in - <ul style="list-style-type: none"> <li>Biology,</li> <li>Chemistry,</li> <li>Physics,</li> <li>Mathematics (or Additional Mathematics)</li> <li>and in another subject.</li> </ul>
General Certificate of Education Ordinary ("O") levels	5 Bs each in - <ul style="list-style-type: none"> <li>Biology,</li> <li>Chemistry,</li> <li>Physics,</li> <li>Mathematics (or Additional Mathematics)</li> <li>and in another subject.</li> </ul>
Unified Examination Certificate (UEC)	B4 each in 4 subjects i.e. <ul style="list-style-type: none"> <li>Biology,</li> <li>Chemistry,</li> <li>Physics (or Mathematics or Additional Mathematics)</li> <li>and in another subject.</li> </ul>

- All applicants, except those with a degree qualification in arts or humanities, shall have passed and attained a minimum of the following at:

### a. Higher School Certificate Level or its equivalent:

Sijil Tinggi Pelajaran Malaysia (STPM)	Grades BBB, ABC or AAC each in 3 subjects i.e. <ul style="list-style-type: none"> <li>Biology,</li> <li>Chemistry,</li> <li>Physics (or Mathematics).</li> </ul>
General Certificate of Education Advanced ("A") levels	Grades BBB, ABC or AAC each in 3 subjects i.e. <ul style="list-style-type: none"> <li>Biology,</li> <li>Chemistry,</li> <li>Physics (or Mathematics).</li> </ul>
Matriculation <b>or</b> Foundation in Science <b>or</b> Pre- Medical course	CGPA 3.0 each (out of 4.0) in 3 subjects i.e. <ul style="list-style-type: none"> <li>Biology,</li> <li>Chemistry,</li> <li>Physics (or Mathematics).</li> </ul> <b>and</b> Provided the course is not less than 1 year in the same accredited institution <b>and</b> the minimum entry qualification is 5 Bs each in Biology, Chemistry, Physics, Mathematics (or Additional Mathematics) and another subject at School Certificate level or its equivalent.
Unified Examination Certificate (UEC)	B4 each in 5 subjects i.e. <ul style="list-style-type: none"> <li>Biology,</li> <li>Chemistry,</li> <li>Physics,</li> <li>Mathematics</li> <li>and Additional Mathematics.</li> </ul>
Monash University Foundation Pre-University Program (MUFY) <b>or</b> University of New South Wales (UNSW) Foundation <b>or</b> Western Australia Curriculum Council <b>or</b> HSC Sydney Australia <b>or</b> Trinity College Foundation Studies <b>or</b> Australian Universities Foundation Programmes <b>or</b> South Australian Matriculation <b>or</b> Victorian Certificate of Education, Australia Year 12	Aggregate or average of 80% in any 3 subjects' i.e. <ul style="list-style-type: none"> <li>Biology,</li> <li>Chemistry,</li> <li>Physics (or Mathematics)</li> </ul> <b>or</b> 80% ATAR.

National Certificate of Educational Achievement (NCEA) Level 3 <b>or</b> New Zealand Bursary	Average of 80% in any 3 subjects' i.e. • Biology, • Chemistry, • Physics (or Mathematics).
Canadian Pre-University (CPU) <b>or</b> Canadian International Matriculation Program (CIMP) / Canadian Grade 12/13	Average of 80% in any 3 subject i.e. • Biology, • Chemistry, • Physics (or Mathematics).
Indian Pre-University	Average of 70% in any 3 subjects' i.e. • Biology, • Chemistry, • Physics (or Mathematics).
International Baccalaureate (IB)	30 points with a minimum of 2 science subjects or Mathematics at Higher Level (HL) and 1 science subject at Standard Level <b>and</b> attained a minimum score of 4 each in • Biology, • Chemistry, • Physics (or Mathematics).

or

#### b. Diploma Level

Diploma in Health Sciences	CGPA 3.5 (out of 4.0) <b>and</b> provided the course is not less than 5 semesters or 2½ years in the same accredited institution <b>and</b> the minimum entry qualification is 5 Bs each in Biology, Chemistry, Physics, Mathematics (or Additional Mathematics) and another subject at School Certificate level or its equivalent.
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or

#### c. Degree Level

Degree in Medical Sciences	CGPA 3.3 (out of 4.0) 5-year undergraduate medical programme.
Degree in Medical Sciences Degree in the Arts or Humanities	CGPA 3.5 (out of 4.0) 4-year graduate medical programme CGPA 3.5 (out of 4.0) 5-year undergraduate medical programme <b>and</b> 3 Cs each in Biology, Chemistry, Physics, General Science, Mathematics (or Additional Mathematics) at SPM or its equivalent <b>or</b> an accredited bridging course.
Degree in the Arts or Humanities	CGPA 4.0 (out of 4) 4-year graduate medical programme <b>and</b> 3 Cs each in Biology, Chemistry, Physics, General Science, Mathematics (or Additional Mathematics) at SPM or its equivalent <b>or</b> an accredited bridging course.

- Applicants may be required to pass an aptitude test and/or an interview and/or a university entrance examination.
- All applicants shall have to attained a level of competence in English to enable them to complete the course successfully.

## Health Entry Requirements

Prior to admission, all short-listed applicants are required to undergo a medical checkup to ensure they are free from communicable diseases such as HIV and Hepatitis; and to undergo immunisation against Hepatitis B.

## Intake

September





**SETARA 2013**

SEGi University,  
Tier 5 Rating: Excellent

The best in you, made

**POSSIBLE**

**SEGi University** (DU031-B)

No. 9, Jalan Teknologi, Taman Sains Selangor, Kota Damansara,  
PJU 5, 47810 Petaling Jaya, Selangor Darul Ehsan.

**T** 603 6145 1777

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**TOLL FREE** 1800 88 7344

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PHARMACY



# PHARMACY



**SEGi**  
University &  
Colleges

# WHERE PASSION MEETS COMPASSION

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Pharmacy is the science concerning the discovery and development of therapeutic substances into medicines for use in disease prevention and treatment. Pharmacists are an integral part of the health care system.

As key professionals in the health care system, pharmacists use their unique knowledge of medicines and skills to provide care for patients. The scope of pharmacy practice includes the compounding and dispensing of medicines, provision of health information advice, and management of diseases and medications. Pharmacists also hold key responsibilities in pharmaceutical industry where there is constant demand for pharmacy graduates in drug discovery and development, production, quality assurance, regulatory affairs and clinical research.

Due to the rapid growth of the health care system, the increasing elderly population, and the booming pharmaceutical industry, there is an unprecedented demand for pharmacists today in various career settings.



“SEGi’s Pharmacy programme aims to integrate scientific, clinical and professional knowledge with soft skills, providing graduates with the expertise to contribute effectively as a pharmacist within the future health care system. Students learn the various disciplines in pharmacy in an integrated approach through a variety of teaching methods.”

**Associate Professor Dr. Tey Kim Kuan**  
Dean, Faculty of Pharmacy



# PHARMACY|

## Awards received by SEGi University & Colleges



EDUCATION – MALAYSIA  
2014 – 2015

**Education – Malaysia  
World Branding Award**



**Outstanding  
Innovation Award 2014**



**Reader's Digest  
Trusted Brand 2015**  
(Services, Private University/College)



**Reader's Digest  
Trusted Brand 2014**  
(Services, Private University/College)



**Reader's Digest  
Trusted Brand 2013**  
(Services, Private University/College)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**SILVER**  
2015

(Education & Learning)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**SILVER**  
2014

(Education & Learning)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**SILVER**  
2013

(Education & Learning)



**PUTRA  
BRAND AWARDS**  
— THE PEOPLE'S CHOICE —  
**BRONZE**  
2012

(Education & Learning)

■ **Students Choice Awards 2015**  
(Top 10 Universities)

■ **The Edge Billion Ringgit Club 2013**  
(Best Performing Stock Award - Trading & Services)

■ **3rd Global Leadership Award 2013**  
(Leadership in Educational & Training Excellence)

■ **Asia Pacific Entrepreneurship Awards 2012**  
(Most Promising Entrepreneur)

■ **10th Asia Pacific International Honesty  
Enterprise Keris Award 2011**

■ **The BrandLaureate Best Brand Award 2010 - 2011**  
(Education Tertiary Private)





### PROGRESSIVE INTEGRATED CURRICULUM

The focus of Pharmacy programme is to deliver an educational strategy that aims to produce graduates who will be able to integrate their knowledge and skills to the highest level, which will help to underpin the future roles as pharmacists. The programme is integrated with a significant amount of work-based and clinical skill trainings through progressive development of skills and competencies under controlled simulated environment and exposure to hospital, community and industrial pharmacy practice through visits and placements. It also retains the more traditional areas around formulation sciences and medicinal chemistry.



### WELL-ROUNDED ACADEMICIANS

SEGi University takes pride in having a strong team of academicians who are not only highly qualified, but also experienced in academia and various disciplines of pharmacy practice (community, pharmacy and industry). Hence, students are ensured of a well-rounded education, complete with hands-on learning experience that extends beyond the boundaries of the classroom.



### STUDENT-CENTRED LEARNING APPROACH

Another feature of this programme is the emphasis of student-centred learning approach via problem based learning, e-learning, interprofessional learning and research. This approach fosters the development of skills for problem solving, critical thinking and communication, while shaping students to become life-long learners.

# SEGi's Edge

We offer comprehensive and high-end facilities for students to utilise in order to enhance their learning experience.



## Aseptic Suite

This laboratory is used for the teaching of skills related to specialised preparation and dispensing of injectables and other sterile medications. The aseptic suite mimics the settings in hospitals.



## Pharmaceutical Chemistry Lab

This laboratory is furnished with equipments used for routine chemical and biological sample analysis. The laboratory is equipped with High Performance Liquid Chromatography, Atomic Absorption Spectroscopy and Fourier Transform Infrared Spectroscopy machines.



## Biology Lab

This laboratory is equipped with various equipment used for the teaching of pharmacology, biochemistry, microbiology and molecular biology.



## Pharmaceutic Lab

The pharmaceutic laboratory enables students to formulate pure drug substances into dosage form, and to perform analysis to ensure high standards are met. The laboratory is equipped with modern machinery including:

- 8-station rotary tablet press
- High intensity mixers and blenders
- Quality control equipments such as friability testers, hardness testers, dissolution testers and disintegration testers
- UV-Visible spectrophotometers



## Mock Dispensary

This specially designed suite is built to meet the specifications and requirements of a community pharmacy.



## BACHELOR OF PHARMACY (HONS)

SEGi UNIVERSITY

The programme focuses on developing practising pharmacists who can make a real difference to patients' well-being while having a rewarding career.

The knowledge of drugs will progress from the study of how drugs are made and analysed for purity, to how they are formulated into dosage forms acceptable to patients and their use in diseases, preventions and treatments. The programme integrates scientific knowledge while attaining practical, clinical and professional skills, to equip students to be healthcare scientists of the future.

### Programme Modules

The following is an indication of current programme content. The contents are subjected to regular updates to incorporate relevant new development in pharmacy to reflect the latest scientific discoveries, technologies and practice guidelines.

<p><b>Year 1</b></p> <p><b>Semester 1</b></p> <ul style="list-style-type: none"> <li>■ Data Analysis in Pharmacy</li> <li>■ Cell Biology</li> <li>■ Human Anatomy and Physiology</li> <li>■ General Chemistry</li> <li>■ Pharmaceutical Organic Chemistry I</li> </ul> <p><b>Semester 2</b></p> <ul style="list-style-type: none"> <li>■ Pharmaceutical Organic Chemistry II</li> <li>■ Pharmacology I</li> <li>■ Biochemistry</li> <li>■ Pharmaceutical Analysis I</li> <li>■ Pharmaceutics I</li> <li>■ Introduction to Pharmacy Practice</li> </ul>	<p><b>Year 3</b></p> <p><b>Semester 1</b></p> <ul style="list-style-type: none"> <li>■ Applied Pharmacotherapeutics II</li> <li>■ Pharmacokinetics and Clinical Pharmacokinetics</li> <li>■ Pharmaceutics IV</li> <li>■ Pharmacy Practice III</li> <li>■ Toxicology</li> <li>■ Natural Products in Medicine</li> </ul> <p><b>Semester 2</b></p> <ul style="list-style-type: none"> <li>■ Applied Pharmacotherapeutics III</li> <li>■ Medicinal Chemistry</li> <li>■ Evaluating Pharmacotherapy, Pharmacoepidemiology and Pharmacoeconomics</li> <li>■ Pharmaceutical Care in Specific Populations</li> <li>■ Electives</li> </ul>
<p><b>Year 2</b></p> <div> <p><b>Semester 1</b></p> <ul style="list-style-type: none"> <li>■ Pharmacology II</li> <li>■ Pharmaceutical Analysis II</li> <li>■ Pharmaceutics II</li> <li>■ Microbiology and Immunology</li> <li>■ Pharmacy Practice I</li> </ul> </div> <div> <p><b>Semester 2</b></p> <ul style="list-style-type: none"> <li>■ Applied Pharmacotherapeutics I</li> <li>■ Pharmaceutics III</li> <li>■ Genetics and Molecular Biology</li> <li>■ Pharmacy Practice II</li> <li>■ Pharmacy Business Management</li> <li>■ Complementary Medicine</li> </ul> </div>	<p><b>Year 4</b></p> <p><b>Semester 1</b></p> <ul style="list-style-type: none"> <li>■ Research in Pharmacy</li> <li>■ Research Project I</li> <li>■ Research Project II</li> </ul> <p><b>Semester 2</b></p> <ul style="list-style-type: none"> <li>■ Clinical Pharmacy I</li> <li>■ Clinical Pharmacy II</li> <li>■ Clinical Pharmacy III</li> </ul>








### DID YOU KNOW?

Pharmacy graduates are among the  
**HIGHEST PAID GRADUATES**  
 according to a survey done by  
 Jobstreet 2013.



### Career Opportunities

Community Pharmacy, Hospital and Clinical Pharmacy, Pharmaceutical Industry, Academia, Government and Regulatory Agencies, Veterinary Pharmacy.

 Programme	 Awarding Institution	 Duration	 Campus	 Intake
Bachelor of Pharmacy (Hons)	SEGi University	4 years	Kota Damansara	September

As part of the curriculum, students will be required to take 4 general subjects (Mata Pelajaran Umum), as required by the Ministry of Education, Malaysia

## Academic Entry Requirements

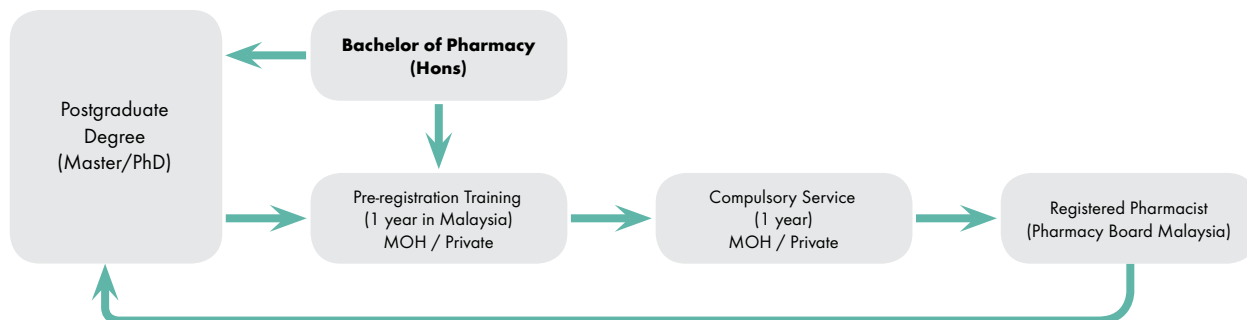
Foundation in Science	CGPA 3.0 or above including a minimum of B in Chemistry
Ministry of Education Matriculation	CGPA 3.0 or above including a minimum of B in Chemistry
STPM	CGPA 3.0 or above with BBB or AAC or ABC in Chemistry and Biology and Physics or Mathematics, with a minimum of B in Chemistry
A-Level	BBB or AAC or ABC in Chemistry and Biology and Physics or Mathematics, with a minimum of B in Chemistry
Diploma in Pharmacy	CGPA 3.5 or above
Diploma in Science (Chemistry/Biology/Physics)	CGPA 3.75 or above including a minimum of B in Chemistry
Degree in Science	CGPA 2.75 or above
Australian Matriculation	Minimum 85% with a minimum of B in Chemistry
International Baccalaureate (IB)	Minimum score of 30
All India Senior School Certificate Examination (AISSC)	Minimum 85% including Chemistry
Ontario Secondary School Diploma (OSSD)	Grade 13 with minimum 85% including Chemistry
Canadian Pre-University (CPU)	Minimum 85% in Chemistry, Biology and Mathematics or Physics
United Examination Certificate (UEC)	B4 or 70% in 5 subjects including Chemistry
Other equivalent qualifications	Will be considered on a case-by-case basis

## Additional Requirements

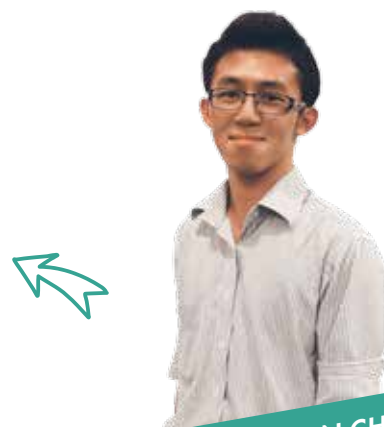
- For Foundation in Science, Matriculation and Diploma students :  
Pass SPM with a minimum of 5Bs in Biology, Chemistry, Physics, Mathematics (or Additional Mathematics) and one other subject
- All Malaysian citizens to pass Bahasa Malaysia and English with minimum of grade C in SPM or equivalent
- English requirement:
  - MUET band 3 or
  - Test of English as a Foreign Language (TOEFL) scoring 550 or
  - International English Language Testing Service (IELTS) with minimum band of 6.0 (5.5 for each skill - Writing, Reading, Listening / Speaking (WRLS))



## Registration of Pharmacist in Malaysia



“SEGi University Faculty of Pharmacy has been my family since day one, and the people I have met taught me valuable career lessons and furthered my belief in the value that the pharmacy profession provides to our healthcare system.”



BERNARD TANG WEN CHANG



TEO CHUNG YEE

“I have known SEGi University since my secondary school days. The Faculty of Pharmacy is good, because I can learn through experiential learning, internship, and residency opportunities that exist in managed care pharmacy, through the dedicated lecturers and seniors.”

“The lecturers are outstanding and demonstrate a wide array of experience as practicing pharmacists. I learnt why and how we use medicine to treat specific conditions and this knowledge has really broadened my understanding about the importance of pharmacy in the health care industry.”



AARON TEH ENG KIT



### HAVE YOU HEARD?

Students are exposed to

**SUPERVISED EXPERIENTIAL  
LEARNING.**





**SETARA 2013**

SEGi University,  
Tier 5 Rating: Excellent

The best in you, made

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**SEGi University** (DU031-B)

No. 9, Jalan Teknologi, Taman Sains Selangor, Kota Damansara,  
PJU 5, 47810 Petaling Jaya, Selangor Darul Ehsan.

**T** 603 6145 1777

**F** 603 6145 1666

**E** [infokd@segi.edu.my](mailto:infokd@segi.edu.my)

**TOLL FREE** 1800 88 7344

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BIOMEDICAL  
SCIENCE

# BIOMEDICAL SCIENCE



**SEGi**  
University &  
Colleges

# BACHELOR OF BIOMEDICAL SCIENCE (HONS)

SEGi UNIVERSITY

JPT/BPP(U)1000-801/80/JLD.11(33) KD CAMPUS

The Bachelor of Biomedical Science (Hons) offered at SEGi University is in-line with the National Higher Education Strategic Plan to produce a desirable percentage of scientists and researchers in Malaysia. It is a stepping stone which open a path to a wide range of dynamic profession and job opportunities.

Biomedical Science encompasses the study of science that form the basis of medicine and related fields, including scientific laboratory-based knowledge and understanding. It explores the principles and practice of biomedical science and how they are applied in industrial research and medicine. This provides a strong foundation to pursue academic research and a career in the pharmaceutical and biotechnology industries.

The programme focuses on developing sound knowledge and analytical skills among undergraduates where students will be exposed to various disciplines such as anatomy and physiology, clinical biochemistry, human genetics, medical microbiology, immunology, pathophysiology, blood sciences, pharmacology and many more. This programme aims to produce dedicated and competent scientists who are able to cater to the growing demand of the healthcare, research and development industries. Graduates can obtain employment within a range of industries such as private and government hospitals, diagnostics laboratories, blood banks, research and veterinary laboratories as well as in academia.

## Why study Biomedical Science at SEGi?

In this modern era, biomedical scientists are in great demand within the healthcare and research industries. Their work is extremely important for many hospitals and research centers in the diagnosis of diseases, evaluating the effectiveness of a treatment as well as researching into the causes and cures of diseases, such as cancer, diabetes, malaria and AIDS. Their work must be accurate and efficient as they work in their respective disciplines in the laboratories.

At SEGi University, we ensure that we prepare and nurture our biomedical undergraduates to be career-ready and to meet the demands of the competitive healthcare and research industry. Although some of the analytical work may be of a routine nature, many of the tests are challenging and require a keen eye for detail. This includes the ability to provide first class service despite pressure from tight deadlines and a high volume of work.

The practical work that the students will undertake will equip them with the skills associated with good laboratory practice which allows them to plan, conduct and evaluate competently, as well as comply with health and safety aspects. The programme also emphasizes on linking knowledge to scientific research where students will be conducting a research project of their own and work towards a desirable outcome. Transferable skills such as analytical and problem-solving skills, computing and the use of biostatistics, data analysis, evaluation and interpretation, project management and organisation, time management and teamwork will be gained throughout the programme. These acquired transferable skills and knowledge will enable the students to shape their subsequent post-graduate studies towards their topic of interest in the future.

## Pathway to Bachelor of Biomedical Science (Hons) at SEGi University





# SEGi's Edge

We are dedicated in educating our Biomedical students with the essential skills required to prepare them for the healthcare industry.



## Industrial Placements

The programme introduces modern laboratory techniques and encourages students to relate what they have learned in class with the latest development in this field. Industrial placements are available in hospitals as well as diagnostic laboratories towards the end of the programme.



## Passionate Educators

Our team of lecturers are passionate educators and readily approachable



## Research Opportunities

This programme has strong emphasis on research which will be a great advantage for students who are inclined towards health science research. Biomedical Science graduates from this programme may also further their studies towards masters and doctorate level.

## Well Equipped

Well-equipped laboratory facilities which includes the Anatomy Museum for practical classes.

## Programme Modules

- Basic Pathology
- Biostatistics
- Clinical Biochemistry
- Clinical Diagnostic Lab
- Complementary & Alternative Medicine
- Haematology
- Human Anatomy & Physiology
- Human Genetic & Genomics
- Immunology & Serology
- Instrumentation & Lab Techniques
- Medical Microbiology
- Medical Parasitology & Entomology
- Molecular Biology
- Pathophysiology
- Pharmacology
- Public Health
- Toxicology

## Entry Requirements

- Pass STPM / A-Level / Pre-University Programmes **OR** equivalent with min CGPA of 2.50 for the following subject:
  - a. Biology/Physics
  - b. ChemistryAnd obtained 5 credits or equivalent for SPM in which, 3 must be from the following subjects:
  - Biology
  - Mathematic
  - English **OR**
  - Physics
  - Chemistry
- Related Diploma (Level 4 KKM) from approved higher learning institution with min CGPA of 2.75; **OR**
- Related Diploma (Level 4 KKM) from higher learning institution with CGPA below 2.75 and min 3 years of working experience in the same field **AND** For International Students, a min of IELTS Band 6.0/TOFEL (550) or equivalent

## Commencement Date

May & September

## Duration

4 years

## Career Opportunities

- Biomedical Scientist
- Research Scientist
- Scientific Journalist
- Medical Information Officer
- Bioinformatician
- Patent Advisor
- Clinical Biochemist
- Clinical Cytogeneticist
- Haematologist
- Immunologist
- Microbiologist
- Toxicologist
- Science Officer
- Medical Underwriter
- Academician
- Biomedical Engineers
- Medical Device Sales Consultant
- Medical Product Specialist
- Medical Product Consultant



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