



TAYLOR'S
UNIVERSITY

Wisdom • Integrity • Excellence

RESEARCH

MASTER & DOCTOR OF PHILOSOPHY (PhD)

Inside front cover



TAYLOR'S LAKESIDE CAMPUS

Established since 1969, we are a world-class university which has provided our students with a global-standard education experience through our well-equipped campus, up-to-date facilities, strong industry linkages and partnerships with leading universities worldwide.

Students can enrol in foundation, diploma, degree, postgraduate and professional programmes encompassing various fields, such as American Degree Transfer Program, Architecture, Biomedical Science, Biotechnology, Business, Communication, Computing & IT, Design, Education, Engineering, Food Science with Nutrition, Hospitality, Tourism & Culinary Arts, Law, Medicine, Pharmacy, Psychology, and Quantity Surveying.

With an alumni of over 70,000 graduates, we continue to play a strong role in developing Malaysia's human resource capital. Our strong network of alumni have become leaders in their respective fields throughout the country, and around the world.

AWARDS

QS Stars Rated Excellence & University Ranking By Region



**Among non-GLC linked private universities*



Putra Brand Gold Awards



Performance Rating by Ministry of Education



Reader's Digest Trusted Brand Gold Awards



2017

- Top 150 universities in **Asia** in the **QS Asia Ranking**
- **5-Star rating** in five (5) categories of the **QS Stars Rating**
- Gold Award in the 'Education & Learning' category for the 8th consecutive year in **Putra Brand Awards**
- Gold Award in the 'Private University/College' category for the 7th consecutive year in the annual **Reader's Digest Trusted Brands Award**

2016

- Top 200 universities in **Asia** in the **QS Asia Ranking**
- **5-Star rating** in five (5) categories of the **QS Stars Rating**
- Gold Award in the 'Education & Learning' category for the 7th consecutive year in **Putra Brand Awards**
- Gold Award in the 'Private University/College' category for the 6th consecutive year in the annual **Reader's Digest Trusted Brands Award**

2015

- Top 250 universities in **Asia** in the **QS Asia Ranking**
- **5-Star rating** in four (4) categories of the **QS Stars Rating**
- Gold Award in the 'Education & Learning' category of the **Putra Brand Awards**
- Gold Award in the 'Private University/College' category of the **Reader's Digest Trusted Brands Award**
- Became the first university outside the United States to be accepted into the Grand Challenge Scholars Program, championed by **National Academy of Engineering (NAE)**

RESEARCH AT TAYLOR'S UNIVERSITY

We believe that our mission is to shape the future of postgraduate students here at Taylor's University. Our activities focus on enhancing support mechanisms for research, drive research outputs and make the outputs useful to the community and society. The three centres that facilitate the activities of this department are Centre for Higher Degrees by Research (CHDR), Centre for Research Management (CRM) and Centre for Knowledge Transfer & Commercialisation.



Centre for Higher Degrees by Research (CHDR)

CHDR is an academic centre focusing primarily on postgraduate education through its administration of Masters and Doctoral programmes. CHDR is fully dedicated to promoting and enhancing the highest quality of research education and training at Taylor's. It is also involved in developing academic policy, procedures and regulations pertaining to higher degrees by research (HDR) students, and providing advisory service on these matters to the university.

Specifically, the areas of work include:

- Receiving and processing applications for HDR placement; managing applications, selection and payment of HDR programmes
- Managing scholarship applications for HDR programmes
- Supervising research students in coordination with other schools
- Coordinating all HDR examinations, thesis submissions and graduations
- Providing professional development opportunities for HDR supervisors
- Providing research training courses and organising research seminars that support students in completing their programme successfully
- Developing and implementing HDR policies and procedures
- Collecting and analysing HDR candidates' feedback for improvement planning
- Reporting on candidature management through the University Management System
- Managing quality reviews and monitoring HDR performance

Key Research Areas

Social Sciences & Humanities

- Media and Social Transformation
- Education
- Critical Pedagogy & Cultural Studies
- Social Psychology
- Inclusive Societies
- Sustainability Business Management
- Banking, Finance and Economics
- Entrepreneurship (Business and Social)
- Supply Chain Management & Logistics
- ASEAN Tourism Studies
- Business Tourism & Events
- Human Capital and Service Quality
- Future of Hospitality/Tourism
- Sociology of Tourism
- Food Heritage and Touristic Valorisations
- Sociology of Food
- Food & Culinary Innovations

Sciences, Health & Technology

- Computer Intelligence
- Health Engineering
- Engineering Education
- Environment Research
- Energy Research
- Data Science
- Cybersecurity
- Cloud Computing
- Creative Industries
- Built Environment
- Ageing and Quality of Life
- Drug Design, Development and Delivery
- Molecular Pharmacology
- Pharmacotherapy Optimization
- Infectious Diseases
- Food Science and Nutrition
- Applied Biodiversity
- Experimental Medicine Research
- Cancer Innovation and Metabolic Research
- Medical Education
- Health Service, Economics and
- Management

Other related areas will also be considered.

MASTER IN COMPUTER SCIENCE

KPT/JPS (N/481/7/0802) (MQA/PA9553) 11/22



About the Programme

The Master in Computer Science is a research programme that aims to provide continued professional and scholarly development for students after their undergraduate degree. This programme facilitates students to acquire advanced knowledge and skills in seeking computing solutions to organization's or societal needs. Graduates of this programme will be capable of applying advanced theoretical principles and scientific methods or techniques to solve problems, creating effective and efficient solutions, and evaluate them.

Who should join this programme?

- Candidates who wish to seek a career as a computer professional
- Employed undergraduates who wish to gain additional experience for expanded job opportunities
- For advancement of their career in industry or academia

Programme Structure

DURATION	Full time	2 - 4 years
	Part time	3 - 6 years

Research Methodology

Students are required to pass the Research Methodology modules (6 credit hours) in the first year of their candidature.

Entry Requirements

- Bachelor's Degree in Computing or in the area of Science and Technology or related to Computing, with a minimum CGPA of 3.00; OR
- Bachelor's Degree in Computing or in the area of Science and Technology or related to Computing, with CGPA below 3.00 but above 2.50, can be accepted subject to rigorous internal assessment process; OR
- Bachelor's Degree in Computing or in the area of Science and Technology or related to Computing, with CGPA less than 2.50, with a minimum of 5 years working experience in a relevant field may be accepted

MASTER OF SCIENCE IN ENGINEERING

KPT/JPS (R/520/7/0017) (MQA/FA 0905)07/21



About the Programme

The Master of Science (MSc) in Engineering program at Taylor's strives for academic excellence in research to produce graduates with leadership qualities, a sense of social responsibility, community involvement and professionalism. The programme helps to establish higher levels of critical thinking and problem solving skills in students. Graduates from the programme will be equipped with extensive cognitive abilities and have the capability to be employed in occasions which require advanced intellectual competencies. Graduates will also be enabled to further their study into a PhD programme in the related discipline of engineering.

Who should join this programme?

- Candidates who are keen to expand the boundaries of knowledge and embark on engineering discoveries through a research-based programme

Programme Structure

DURATION	Full time	2 - 4 years
	Part time	3 - 6 years

Research Methodology

Students are required to pass the Research Methodology modules (6 credit hours) in the first year of their candidature.

Entry Requirements

- Bachelor's degree in Engineering, Engineering Technology, Science or Technology with CGPA ≥ 2.75 OR
- Bachelor's degree in Engineering, Engineering Technology, Science or Technology with $2.50 < \text{CGPA} < 2.75$ will be subject to rigorous internal assessment OR
- All Bachelor's degree in Engineering, Engineering Technology, Science or Technology with a $2.00 \leq \text{CGPA} < 2.50$, recognized by the Malaysian or National Government, AND a minimum of 5 years related work experience OR
- Any other equivalent qualification recognized by Malaysian government or accepted by the Taylor's University Senate

MASTER OF SCIENCE (TOURISM)

KPT/JPS(R/812/7/0024)01/22



About the Programme

The Master of Science (Tourism) is a research-based programme. It prepares students nationally and internationally to advance their careers in teaching and research in higher education institutions, secure employment in specialist areas in the private and public sectors, and pursue their PhD degrees. Students will have an opportunity to work with highly qualified academics and share research ideas with fellow students from diverse backgrounds in an environment that encourages intellectual stimulation and research innovation. Graduates of this programme will be fully equipped to conduct independent research on tourism-related issues.

Who should join this programme?

- Candidates with a bachelor's degree who are interested to deepen their understanding of the hospitality and tourism industries

Programme Structure

DURATION	Full time	2 - 4 years
	Part time	3 - 6 years

Research Methodology

Students are required to pass the Research Methodology modules (6 credit hours) in the first year of their candidature.

Entry Requirements

- Bachelor's degree with CGPA ≥ 2.75 in relevant field OR
- Bachelor's degree with $2.50 < \text{CGPA} < 2.75$ will be subject to rigorous internal assessment OR
- All Bachelor's degree with a $2.00 \leq \text{CGPA} < 2.50$, recognized by the Malaysian or National Government, AND a minimum of 5 years related working experience OR
- Any other equivalent qualification recognized by Malaysian government or accepted by the Taylor's University Senate

MASTER OF PHILOSOPHY (PHARMACY)

KPT/JPS (N/727/7/0041)(MQA/FA 3707)10/18

MASTER OF PHILOSOPHY (PHARMACEUTICAL SCIENCES)

KPT/JPS (N/727/0040)(MQA/PA 3708)10/18



About the Programme

The Master of Philosophy is a research-based programme that gives students integrated, broad-based research training needed to exploit current advances in multidisciplinary areas of pharmacy and pharmaceutical sciences. The students will undertake research projects in key specialised research areas and be prepared nationally and internationally to advance their careers in teaching and research in academia, secure employment in the pharmaceutical industry or government sector and pursue their PhD degrees. Opportunities exist for students to work with highly qualified academic staff and share research ideas with their counterparts from diverse backgrounds. Graduates of this programme will have the knowledge, hands-on training and confidence to conduct independent research in various areas of pharmacy and pharmaceutical sciences.

Who should join this programme?

PHARMACY

- Pharmacists working in hospitals, community pharmacies, the pharmaceutical industry and the government sector

PHARMACEUTICAL SCIENCES

- Pharmacists or chemists working in the pharmaceutical industry
- Graduates working in the biotechnology and food industries
- Graduates with a background in pharmaceutical/ biological sciences working in the government or private healthcare sectors

Programme Structure

DURATION	Full time	2 - 4 years
	Part time	3 - 6 years

Research Methodology

Students are required to pass the Research Methodology modules (6 credit hours) in the first year of their candidature.

Entry Requirements

PHARMACY

- A Bachelor's degree in Pharmacy with a minimum CGPA of 2.75 as accepted by the Senate: OR
- A Bachelor's degree in Pharmacy with CGPA above 2.50 but less than 2.75 can be accepted subjected to a minimum of 2 years working experience in relevant field: OR
- Candidate must be Registered Pharmacist to pursue research in clinical subjects

PHARMACEUTICAL SCIENCES

- A Bachelor's degree in Pharmacy / relevant science discipline with a minimum CGPA of 2.75 as accepted by the Senate: OR
- A Bachelor's degree in Pharmacy / relevant science discipline with CGPA minimum 2.50 but less than 2.75 can be accepted subjected to a minimum of 2 years working experience in relevant field

MASTER OF SCIENCE

KPT/JPS (R/545/7/0065)(MQA/FA 0258)12/20

About the Programme

The Master of Science is a research-based program offered in School of Biosciences. The program seeks to develop graduates with the competencies to demonstrate mastery knowledge and practical skills in the area of Science, leadership qualities and critical thinking skills. The School's research strategy provides students with the opportunity to experience the research process to instill the passion for discovery.

Who should join this programme?

- Candidates with Bachelor's Degree in Science or other related disciplines and have passion in the mastery of new knowledge and skills
- Candidates who want to pursue a research career in science related field
- Candidates working in science related industry or research institute

Programme Structure

DURATION	Full time	2 - 4 years
	Part time	3 - 6 years

Research Methodology

Students are required to pass the Research Methodology modules (6 credit hours) in the first year of their candidature.

Entry Requirements

- Bachelor's degree in Science with CGPA ≥ 2.75 with research project component in related field or 2 years working experience in Science related industry OR
- Bachelor's degree with $2.50 \leq \text{CGPA} < 2.75$, candidates will be subject to rigorous internal assessment OR
- All Bachelor's degree with a $2.00 \leq \text{CGPA} < 2.50$, recognized by the Malaysian or National Government, AND a minimum of 5 years related working experience OR
- Any other equivalent qualification recognized by Malaysian government or accepted by the Taylor's University Senate

DOCTOR OF PHILOSOPHY (BUSINESS)

KPT/JPS (R/340/8/0630)(MQA/FA 0605)03/21

About the Programme

This programme is designed for those seeking to acquire advanced research skills for exploring scientific knowledge in different functional areas of business and gain expansive freedom of intellectual thinking that is required to enhance the body of knowledge in business disciplines such as entrepreneurship, human capital, financial economics, investment, supply chain, marketing, and managerial leadership. Successful graduates will be able to apply scientific methods to understand problems and find solutions in a complex and challenging business environment while contributing further to the advancement of business knowledge.

Who should join this programme?

- Candidates who want to pursue an academic and/or research career in the business-related fields
- Candidates who want to succeed in professional careers and aspire to take advisory and/or consultant roles in the industry
- Candidates who have passion for new knowledge and self-development

Programme Structure

DURATION	Full time	3 - 6 years
	Part time	4 - 8 years

Research Methodology

Students are required to pass the Research Methodology modules (6 credit hours) in the first year of their candidature.

Entry Requirements

- Masters in the related discipline OR
- Passed Bachelor's degree with min. CGPA 3.67 and registered as a Masters candidate and passed related qualifying assessment OR
- Any other equivalent qualification recognized by Malaysian government or accepted by the Taylor's University Senate

DOCTOR OF PHILOSOPHY (COMPUTER SCIENCE)

KPT/JPS (N/481/8/0785) (MQA/PA9554) 11/22



About the Programme

The Doctor of Philosophy (Computer Science) is a research programme aimed for those who wish to be excited of innovation and/or discovery in a changing global landscape. This programme facilitates graduate students to have a strong grounding on algorithmic foundations of computing, endeavour scientific research in a variety of fields in Computer Science or IT, preparing them in applying computational thinking to a diversity of applications in Computer Science and beyond that may cut-across disciplines. Building their life's career path, graduates of this programme would pursue higher value activities that includes intellectual property creation, system design and integration, handling challenging problems that has real-world impact.

Who should join this programme?

- Candidates who aspire for transformational research and explore the boundary of human knowledge
- High-end or high-value technical jobs or high-level research in industry
- Advancement of their research career in industries
- Enter academia or end up with tenure-track academic jobs

Programme Structure

DURATION	Full time	3 - 6 years
	Part time	4 - 8 years

Research Methodology

Students are required to pass the Research Methodology modules (6 credit hours) in the first year of their candidature.

Entry Requirements

- A Master's Degree IN Computing or related to Computing OR
- Any other equivalent qualification from any other institutions of higher learning recognised by the Taylor's University Senate
- Candidates must have completed at least ONE (1) of their earlier Degrees (Master's or Bachelor's) in Computing or related to computing

DOCTOR OF PHILOSOPHY (EDUCATION)

KPT/JPS(N/141/8/0015)(MQA/PA2355)08/17



About the Programme

The Doctor of Philosophy (Education) is a research-oriented doctoral programme for students interested in any areas of educational studies offered by Taylor's School of Education. The main purpose of the PhD is to prepare a substantial piece of original research which makes a significant contribution to learning. The final award of the degree is decided solely on the assessment of the PhD dissertation and the candidate's performance in the oral examination.

Enrolled students are required to take a set of research courses to prepare them to conduct their own research project. They will be assigned a maximum of two supervisors to guide them. Students typically devote one to two years to their research proposal, and two to four years to their research project.

Who should join this programme?

- Educationists and Administrators who are in the education field and who are interested to further their knowledge or advance their career prospects

Programme Structure

DURATION	Full time	3 - 6 years
	Part time	4 - 8 years

Research Methodology

Students are required to pass the Research Methodology modules (6 credit hours) in the first year of their candidature.

Entry Requirements

- Masters in the related discipline OR
- Passed Bachelor's degree with min. CGPA 3.67 and registered as a Masters candidate and passed related qualifying assessment OR
- Any other equivalent qualification recognized by Malaysian government or accepted by the Taylor's University Senate

DOCTOR OF PHILOSOPHY (HOSPITALITY & TOURISM)

KPT/JPS (R/812/8/0090) (A 10907) 01/20



About the Programme

The PhD (Hospitality & Tourism) is a research-based programme that allows candidates to develop independent thinking and a unique expertise in their own research interest. Independent research requires diligent and thorough investigation into a topic with the aim of formulating new and original ideas, findings and theories. Students will have the opportunity to work with highly qualified academics and share research ideas with fellow students from diverse backgrounds in an environment that encourages intellectual stimulation and research innovation. Graduates of this programme will be fully equipped to conduct independent research on hospitality and tourism-related issues.

Who should join this programme?

- Candidates with a master's degree who are interested to deepen their understanding of the hospitality and tourism industries
- Postgraduates working in the fields of hospitality and tourism who are interested to deepen their understanding of the hospitality and tourism industries

Programme Structure

DURATION	Full time	3 - 6 years
	Part time	4 - 8 years

Research Methodology

Students are required to pass the Research Methodology modules (6 credit hours) in the first year of their candidature.

Entry Requirements

- Masters in the related discipline OR
- Passed Bachelor's degree with min. CGPA 3.67 and registered as a Masters candidate and passed related qualifying assessment OR
- Any other equivalent qualification recognized by Malaysian government or accepted by the Taylor's University Senate

DOCTOR OF PHILOSOPHY (PHARMACEUTICAL SCIENCES)

KPT/JPS (N/727/8/0042) (MQA/PA 3710)10/18



About the Programme

This programme provides rigorous research training in a range of scientific disciplines that are critical to the success of modern pharmaceutical scientists in the pharmaceutical industry, government and academia. Taught in a highly multidisciplinary atmosphere, our graduates gain the knowledge and skills required for research related to human health and disease, as well as for the design, development and delivery of medications for safe and effective therapy. They will be prepared to take on leadership roles in addressing key challenges in all areas of pharmaceutical and biomedical sciences.

Who should join this programme?

- Postgraduate pharmacists or chemists working in the pharmaceutical industry
- Postgraduates working in the biotechnology and food industries
- Postgraduates with a background in pharmaceutical/biological sciences working in the government or private healthcare sectors

Programme Structure

DURATION	Full time	3 - 6 years
	Part time	4 - 8 years

Research Methodology

Students are required to pass the Research Methodology modules (6 credit hours) in the first year of their candidature.

Entry Requirements

- Master degree in Pharmacy / relevant science discipline; OR
- A relevant Bachelor's degree with CGPA 3.67 and registered as a Masters candidate and achieve outstanding performance in research and conversion assessment with Senate approval; OR
- Any other equivalent qualifications which is recognized by the Malaysian Government

DOCTOR OF PHILOSOPHY (SCIENCE)

KPT/JPS (R/440/8/0023) (A 10906) 02/20



About the Programme

The Doctor of Philosophy (Science) is a research-based program offered in School of Biosciences. The program seeks to develop graduates with the competencies to synthesize knowledge, adapt practical skills, conduct research independently, display leadership qualities and appraise problems critically using scientific skills. The School's research strategy provides students with the opportunity to experience the research process to instill the passion for discovery.

Who should join this programme?

- Candidates with Bachelor's and Master's degrees in Science or other related disciplines and have passion in the creation of new knowledge and skills
- Candidates who want to pursue and succeed a research career in science related field
- Candidates working in science related industry or research institute

Programme Structure

DURATION	Full time	3 - 6 years
	Part time	4 - 8 years

Research Methodology

Students are required to pass the Research Methodology modules (6 credit hours) in the first year of their candidature.

Entry Requirements

- Masters in the related discipline OR
- Passed Bachelor's degree with min. CGPA 3.67 and registered as a Masters candidate and passed related qualifying assessment OR
- Any other equivalent qualification recognized by Malaysian government or accepted by the Taylor's University Senate

FACILITIES



Extemporaneous Lab /
Pharmaceutics Lab



Aseptic Suite



Biological Science Lab



Pharmaceutical Analysis Facility



Proteomics and Genomics
Laboratory



Tissue Culture & Bio-imaging
Facility



Physiology and Pharmacology
Laboratory



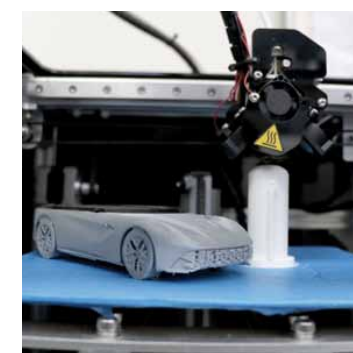
Microbiology Laboratory



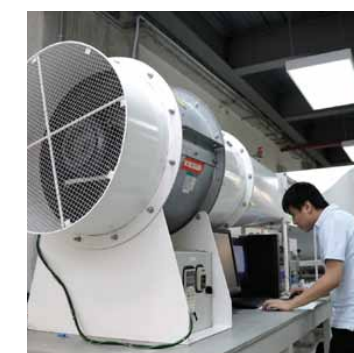
Food Analysis Facility



Chemical Analysis Facility



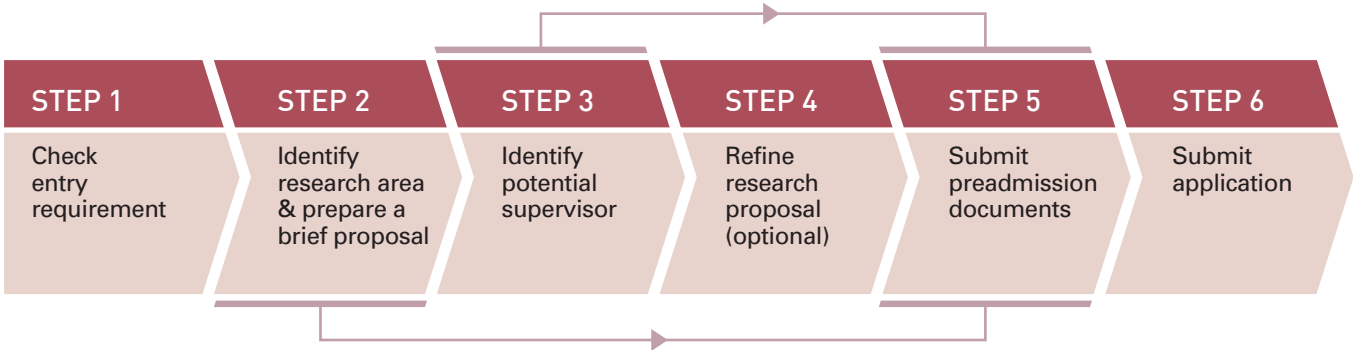
3D Printer



Wind Tunnel

ADMISSION

Steps To Apply For Admission



English Requirements

You must include supporting evidence of your English language proficiency if your first language is not English, or if your undergraduate degree was not taught entirely in the English language. The supporting evidence can be fulfilled in one of the following forms base on the approved English requirement by Taylor's University Senate.

- International English Language Test (IELTS)
- Test of English as a Foreign Language (TOEFL)
- Malaysian University English Test (MUET)
- Taylor's Intensive English Programme
- Taylor's English Entrance Test (EET)

Financial Aid

Taylor's University offers a range of financial aid to support local and international students to succeed in its Postgraduate programmes. Majority of these financial support grants tuition waiver and some may even offer living allowances. These financial supports are awarded on a competitive basis where assessments include academic achievements, leadership qualities, scholastic aptitude, presentation and writing skills. Alignment to Taylor's University's strategic thrust is critical in the award of these financial supports.

International Students

Visa Application

The Malaysian Immigration Department requires 6–8 working weeks to process student visa applications. Taylor's International Office will assist international students in submitting the necessary application for student visa upon approval of their application for admission into the Master's programme and issuance of Letter of Acceptance.

Off-Campus Candidature

Off-campus candidature enables working adults who have access to research facilities in the vicinity of where they work or reside to benefit from the experience of research supervision from the university.

Below are the required requirements for off-campus candidature

- Payment of an application fee of RM500.
- Appointment of an external co-supervisor.
- Submission of a Research Meeting Log twice per semester for the University to monitor the research progress.

The application form for off-campus candidature must be submitted to Taylor's Graduate School for processing. The School's Postgraduate Committee will decide on the approval of the application.

Conversion of Master's Degree to Doctor of Philosophy (PhD)

Taylor's University allows students registered in a Research Master's degree programme to convert their registration to gain direct admission into a PhD programme without having first to complete their Master's programme. Students who wish to convert from a Master's registration into a PhD registration are required to fulfil the following requirements:

- Students must have a stipulated academic standing in their Bachelor's Degree and an outstanding performance in research and conversion assessment with the Faculty Board's approval
- Recommendation by the student's supervisors and approval of CHDR
- Students must pass an oral examination for evaluation of the conversion application in front of a panel of examiners appointed by CHDR

The application form for conversion of candidature together with the application processing fee must be submitted to CHDR for processing.



Taylor's University Lakeside Campus JPT/BPP(D)1000-701/502(3) DU023(B)

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Taylor's Education Counselling Centres

- Penang: 604-899 9396 • Johor: 607-351 3692 / 3694 • Sabah: 6088-486 936 / 937
- Sarawak: 6082-345 807 / 808