



**TAYLOR'S  
UNIVERSITY**  
Wisdom · Integrity · Excellence

**SCHOOL OF  
PHARMACY**



# MASTER OF PHILOSOPHY & DOCTOR OF PHILOSOPHY PHARMACY & PHARMACEUTICAL SCIENCES

Advancing Pharmaceutical Sciences Research To Meet Healthcare Challenges

## TAYLOR'S UNIVERSITY

Since 1969, Taylor's University has been committed to developing the nation's youth into well-rounded and competitive contributors with global perspectives for the nation's economic growth and prosperity. Today, we are one of Malaysia's most successful and reputable private education institutions of higher learning with over 65,000 graduates – many of whom have moved on to become leaders in their chosen field.

Taylor's University offers a myriad of foundation, diploma, undergraduate, postgraduate and professional programmes that adhere to the highest standards. Students can enroll in courses encompassing fields, such as Architecture, Computer Science, Design, Engineering, Quantity Surveying, Biosciences, Law, Business, Communications, Hospitality, Tourism & Culinary Arts, Medicine and Pharmacy. These programmes are benchmarked against and conducted in collaboration with top-rated partner universities.

We pride ourselves in delivering a holistic education that leads to excellent academic accomplishments and produces graduates with qualities that are highly sought after in the global marketplace.

## TAYLOR'S SCHOOL OF PHARMACY

The Taylor's School of Pharmacy (SOP) plays a distinctive role in the community. Primarily, it is a productive training ground for students who seek to enrich their educational reservoir in the field of pharmacy.

The School has a clear mission – to raise the standard of pharmacy education and in doing so, produce pharmacists who are knowledgeable, independent and focused on improving the profession, as well as the community at large.

Our concerted approach and well-crafted curriculum includes aspects of drug design, evaluation, production and use of medication, based on fields of pharmaceutical and medical sciences. In addition, we are focused on cultivating pharmaceutical research and utilising it in the classroom to educate and equip our students to create pioneering scientific solutions for the world's medical challenges.



# Key Research Areas

## Clinical Pharmacy & Pharmacy Practice

- Medication Adherence and Quality Use of Medicines
- Clinical Governance in Community Pharmacy
- Practice Based Research on Quality Use of Medicines
- Consumer Research on Consumer Behaviours and Generic Medicine Use

## Drug Discovery

- Medicinal Chemistry
- Rational Drug Design & Organic Synthesis
- Natural Product Drug Discovery & Development
- Molecular Microbiology

## Drug Action

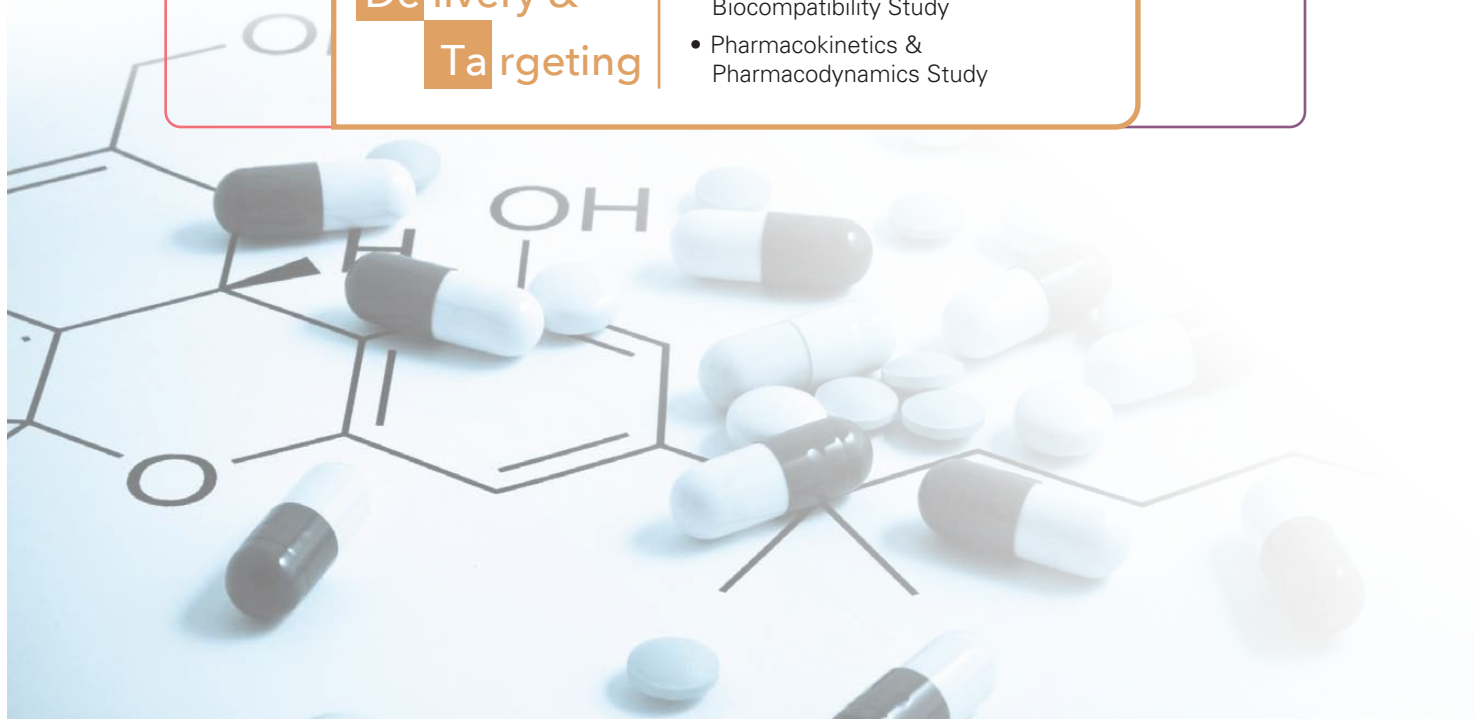
- Pharmacology & Toxicology
- Pharmacogenomics

## Drug Delivery & Targeting

- Development of Novel Dosage Forms
- Targeted Drug Delivery Systems
- Bio-pharmaceutical Evaluation, Biocompatibility Study
- Pharmacokinetics & Pharmacodynamics Study

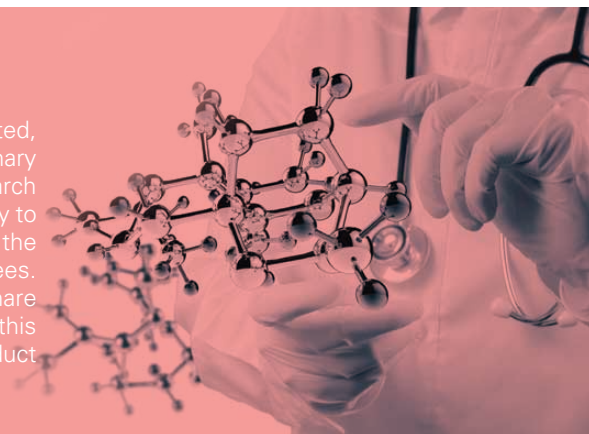
Master of  
Philosophy  
(Pharmacy)  
&  
Doctor of  
Philosophy  
(Pharmaceutical  
Sciences)

Master of  
Philosophy  
(Pharmaceutical  
Sciences)



# MASTER OF PHILOSOPHY (MPhil)

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 know-how, hands-on training and confidence to conduct independent research in various areas of pharmacy and pharmaceutical sciences.



## Pharmacy

KPT/JPS (N/727/8/0041) 10/18

### Who should join this programme?

- Candidates with a bachelor's degree in pharmacy
- Pharmacists working in hospitals, community pharmacies, the pharmaceutical industry and the government sector

## Pharmaceutical Sciences

KPT/JPS (N/727/8/0040) 10/18

### Who should join this programme?

- Candidates with a bachelor's degree in pharmacy, chemistry, biology or other related disciplines
- 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

	Minimum Period	Maximum Period
<b>Full time</b>	1 year (12 months)	4 years (48 months)
<b>Part time</b>	2 years (24 months)	6 years (72 months)

### Research Methodology

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

### Conversion to PhD Candidacy

Students may elect to convert their master's programme to the PhD programme after one year of study. Candidates must demonstrate outstanding work such as publications or creation of intellectual property that extends existing boundary of knowledge.

## Admission

### 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 a CGPA above 2.50 but less than 2.75 can be accepted subjected to a minimum of 2 years working experience in relevant field.
- Candidate must be a 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 a CGPA of minimum 2.50 but less than 2.75 can be accepted subjected to a minimum of 2 years working experience in relevant field.

### English Entry Requirements

Taylor's University accepts English Language Proficiencies in the following form of measurement: IELTS with an overall score of 6.5 (Band 6.0 in writing) or equivalent is required for candidates, whose undergraduate was not fully taught in English.



# DOCTOR OF PHILOSOPHY (PhD)

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.



## Pharmaceutical Sciences

KPT/JPS (N/727/8/0042) 10/18

### Who should join this programme?

- Candidates with a bachelor's or master's degree in pharmacy, chemistry, biology or other related disciplines
- 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

	Minimum Period	Maximum Period
<b>Full time</b>	2 year (24 months)	6 years (72 months)
<b>Part time</b>	4 years (48 months)	8 years (96 months)

### Research Methodology

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

## Admission

### Entry Requirements

- Master degree in Pharmacy / relevant science discipline **OR** 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 recognised by the Malaysian Government

### English Entry Requirements

Taylor's University accepts English Language Proficiencies in the following form of measurement: IELTS with an overall score of 6.5 (Band 6.0 in writing) or equivalent is required for candidates, whose undergraduate was not fully taught in English.

# FACILITIES AND LABORATORIES

## Extemporaneous Lab / Pharmaceutics Lab



This lab enables students to learn about procedures and methods for pharmaceutical product development, small to medium scale manufacturing, product quality control and stability testing.

## Aseptic Suite



This purpose built suite provides a sterile environment for students to engage in developing the skills required for work relating to the specialised dispensing of injectables and other sterile medicines.

## Biological Science Lab



This lab is fitted with modern teaching benches and a variety of equipment for the study of physiology, microbiology, biochemistry, pharmacology and genetics.

## Pharmaceutical Analysis Facility



This facility is equipped with leading edge core instrumentation. It houses a wide range of modern equipment that are operated and maintained by qualified personnel. Open to collaborative research, the facility not only trains undergraduate and postgraduate students in analysing pharmaceutical, but also provides routine chemical and biological sample analysis.

## ENQUIRIES

Counselling hours for course enquiries are between 9.00 am – 6.00 pm from Monday to Friday.

### DISCLAIMER:

This publication contains information, which is current as of June 2015. Changes in circumstances after this date may impact upon the accuracy or timeliness of the information. Taylor's University does its best to ensure that the information contained herein is accurate, but reserves the right to change any information described in this prospectus without notice. Readers are responsible for verifying information that pertains to them by contacting the university.



## Taylor's Graduate School

Taylor's University Lakeside Campus (JPT/BPP/1000-801/67/Jld.2(36) KPT/JPS/DFT/US/B21)  
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[www.taylors.edu.my](http://www.taylors.edu.my)



[Facebook.com/TaylorsGraduateSchool](https://www.facebook.com/TaylorsGraduateSchool)

## Professor Dr. P.T. Thomas

PhD in Toxicology  
University of Texas, Austin, USA

**Email:** Paraidathathu.Thomas@taylors.edu.my

- Pharmacy practice – medication adherence and quality use of medicines

## Dr. Bibhu Prasad Panda

PhD in Pharmaceutical Technology  
Berhampur University, Berhampur, India

**Email:** BibhuPrasad.Panda@taylors.edu.my

- Chrono therapeutic drug delivery system
- Polymeric nano particulate drug delivery system
- Innovative drug delivery system

## Dr. Jason Loo

PhD in Computational Chemistry  
University of Nottingham Malaysia Campus,  
Malaysia

**Email:** JasonSiauEe.Loo@taylors.edu.my

- Molecular modelling of G protein-coupled receptors for structure-based drug design and other drug discovery applications
- Refinement of homology models via molecular dynamics simulations and other related computational methods
- Organic synthesis of potential novel ligands designed using *in silico* data

## Dr. John Tiong Jeh Lung

PhD in Pharmacy and Biomedical sciences  
University of Strathclyde, Glasgow, UK

**Email:** JohnJehLung.Tiong@taylors.edu.my

- Molecular microbiology (gene cloning, mutagenesis and phospholipid profiling)
- Pharmacy practice (survey-based)

## Dr. Kumarappan Chidambaram

PhD in Pharmacology  
Jadavpur University, Kolkata, India

**Email:** Kumarappan.Chidambaram@taylors.edu.my

- Development of value added therapeutic targets for metabolic syndrome
- Toxicological study of herbal and western medicines
- Mechanism of herbal drug interactions and the role of P-gp in bioavailability

## Dr. Loganathan Veerappan

PhD in Pharmaceutical Microbiology  
Bharathidasan University, Trichirapalli, India

**Email:** Loganathan.Veerappan@taylors.edu.my

- Preformulation compatibility studies of drug – excipients in formulation development
- Formulation development and evaluation of gastro retentive systems
- Isolation and identification of bioactive microorganisms from natural source and screening for their bioactivity

## Dr. Manimaran Sellappan

PhD in Pharmacognosy  
The Tamil Nadu Dr.M.G.R. Medical University,  
Chennai, India

**Email:** Manimaran.Sellappan@taylors.edu.my

- Herbal formulation development and standardisation for various ailments.
- Nutraceutical and cosmaceutical preparations and their standardisation
- HPTLC standardisation of herbal drugs including ayurvedic and chinese system of medicine

## Dr. Narendra Babu S.N.

PhD in Medicinal Chemistry  
University of Mysore, Mysore, India

**Email:** NarendraBabu.ShivanagereNagojappa@taylors.edu.my

- Designing of novel enzyme inhibitors
- Computational medicinal chemistry & organic synthesis

## Dr. Naveen Kumar H.S.

PhD in Pharmaceutical Chemistry  
Universiti Sains Malaysia, Malaysia

**Email:** NaveenKumar.HawalaShivashekaregowda@taylors.edu.my

- Synthesis, characterisation of small molecules of biological interest
- Isolation of natural compounds
- Anti-mycobacterial activity using tetrazolium microplate assay method (*In vitro*). *In vivo* acute, sub-chronic, chronic toxicity and pharmacokinetics studies

## Dr. Rajinikanth P.S.

PhD in Pharmaceutics  
Indian Institute of Technology, Banaras Hindu  
University, India

**Email:** Rajinikanth.ps@taylors.edu.my

- Nanocarrier formulations cancer and brain targeted delivery
- Site specific targeted delivery systems stomach (H.Pylori eradication) and colon (colonic cancer)
- Newer formulation strategies to improve the bioavailability BSC class II and IV drugs

## Dr. Sharina Hamzah

PhD in Science  
Universiti Teknologi MARA, Malaysia

**Email:** Sharina.Hamzah@taylors.edu.my

- Clinical and experimental pharmacogenomics
- Gene regulation and expression studies
- Molecular cloning and *in-vitro* drug metabolism studies, metabolomics and biomarker identification

## Dr. Selvakumar Duraipandi

PhD in Pharmaceutical Chemistry  
Gujarat University, India

**Email:** Selvakumar.Duraipandi@taylors.edu.my

- *In silico* design, synthesis and biological activities of small chemical entities against diabetes and viral infections
- Medicinal plants research, standardisation and validation of herbal pharmaceuticals using HPTLC
- Analytical method development of active pharmaceutical ingredients form bulk drugs and dosage forms

## Dr. Sreenivas Patro Sisinthy

PhD in Pharmaceutical Technology  
Berhampur University, Berhampur, India

**Email:** SreenivasPatro.Sisinthy@taylors.edu.my

- Oral controlled release drug delivery systems
- Oral dispersible drug delivery systems, Self-emulsifying drug delivery systems
- Bio analytical method development by HPLC

## Dr. Syed Atif Abbas

PhD in Pharmacology  
Universiti Sains Malaysia, Malaysia

**Email:** SyedAtif.Abbas@taylors.edu.my

- Cardiac failure and diabetic animal modeling
- Antidiabetic and antihypertensive activities of herbal preparations
- Heavy metal detection in the traditional medicines

## Dr. Tan Shir Ley

PhD in Pharmacy  
University of South Australia, Australia

**Email:** ShirLey.Tan@taylors.edu.my

- Practice-based research on quality use of medicine and disease state management
- Consumer research on consumer behaviors and generic medication use

## Hoo Yoon Fong

Master in Clinical Pharmacy  
Universiti Kebangsaan Malaysia, Malaysia

**Email:** YoonFong.Hoo@taylors.edu.my

- Care of diabetic patients

## Selvaraja Seerangam

Master in Philosophy (Pharmaceutical Technology)  
College of Cardiff, University of Wales, UK

**Email:** Selvaraja.Seerangam@taylors.edu.my

- Regulatory issues that shape policies and control of pharmaceuticals in the country
- Pharmacy practice

## Wong Pei Nee

Master of Herbal Medicines  
University of Sydney, Australia

**Email:** PeiNee.Wong@taylors.edu.my

- Pharmacy practice
- Pharmacy education