

# Industrial Pharmaceutical Sciences

## MSc (PGDip PGCert)

Our masters degree in Industrial Pharmaceutical Sciences is designed for physical and chemical science graduates who wish to embark on a career in pharmaceutical research, manufacturing, or government agencies. The programme provides essential knowledge and practical experience of medicine manufacture, mode of action, design and quality assurance.

This programme provides a good background in basic pharmaceutical sciences followed by advanced training in drug discovery, drug product design, drug delivery, pharmacology, microbiology and regulatory processes. The course aims to emphasise both fundamental processes and introduction to novel technologies. The programme offers advanced practical experience, supervised training, together with an in-depth research project within an active research group.

### Course structure

This course is one calendar year, full-time, involving 30 weeks of taught modules divided into two 15-week semesters, and a project which is largely carried out during the remaining time.

Modules taught include:

- Drug Discovery and Drug Design, Pharmacology and Microbiology
- Advanced Drug Delivery, Industrial Pharmacy and Regulatory Affairs.

Students may have the opportunity to undertake a short industrial placement (optional) during their second semester. A four-month research project is integrated into the second semester, on completion of which you will be required to submit a 10,000 word dissertation. The assessment of each taught module includes coursework and a written examination paper at the end of semester two.

### Who is this course for?

This course equips graduates to pursue careers in the pharmaceutical industry, NHS, academic centres, research institutions or with government agencies such as drug licensing authorities. Our graduates will be well placed to apply for a PhD.

### Entry requirements

Applicants to the course should possess a good UK honours degree in pharmacy, pharmaceutical sciences, chemistry, chemical engineering or a related subject. Equivalent overseas qualifications will also be accepted.

All our MSc programmes require an IELTS score of 6.5 (with no component below 6.0) or equivalent, if English is not your first language.



### Ananth Pannala Course leader

I am a senior lecturer in pharmaceuticals and course leader for Industrial Pharmaceutical Sciences MSc.

Before moving to the University of Brighton, I worked in the pharmaceutical industry in formulation development (novel drug delivery systems), characterisation and manufacture for new chemical entities. The different medical conditions for which novel formulations were developed included treatment of skin and breast cancer, atopic dermatitis and onychomycosis, to name a few.

My teaching has focused on pharmaceuticals, especially formulation development, which I deliver to students studying pharmacy and chemistry programmes. I currently supervise research projects involving development of novel drug delivery systems.