

# Artificial Intelligence in Medicine (The University of South Wales)

## Postgraduate Certificate





## Postgraduate Certificate

Delivered over 6 months, the online, part-time, Postgraduate Certificate course is specially developed for busy health professionals. Formatted in 3 modules, 6 weeks each; the course is designed to be practical and clinically focused.

## Why Study Artificial Intelligence in Medicine with us?

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Taught completely online, our Artificial Intelligence in Medicine programme is designed to help healthcare professionals specialise in their career. The Artificial Intelligence in Medicine Postgraduate Certificate is applicable to all GPs, Practice Nurses, Specialist Nurses and Pharmacists.

Our AI in Medicine course offers the opportunity to for healthcare professionals to successfully implement AI into their practice, allowing for noticeable advancements to healthcare services and improved patient outcomes.

The Postgraduate Certificate is aimed at GPs, doctors, nurses, physicians and pharmacists. For healthcare professionals who successfully complete a qualification, career progression would likely be facilitated, as well as the direct opportunity to improve patient care.

# Artificial Intelligence in Medicine Postgraduate Certificate

## Course Modules

Our online Artificial Intelligence in Medicine Postgraduate Certificate allows you to study for 6 months and is a part-time, distance-learning course.

### Module 1: Foundations of Artificial Intelligence in Healthcare

#### Aim of the module:

- To introduce students to the fundamentals of Artificial Intelligence (AI) and its applications in medicine. Students will gain an understanding of AI technologies that can be leveraged to enhance diagnostic accuracy, treatment planning, and patient outcomes within healthcare settings.

#### Synopsis of module content:

- Introduction to AI in Healthcare
- Core AI technologies in Healthcare
- Managing Medical Data
- AI in Clinical Decision Making
- AI in Medical Research
- Challenges in AI for Healthcare

#### On completion of this module, students will be able to:

1. Critically analyse evidence-based research, methods and challenges associated with applying artificial intelligence technologies in healthcare settings.
2. Develop a systematic understanding of evidence-based solutions and recommendations that leverage AI to improve patient outcomes, maximise the value of medical research, and address ethical challenges surrounding the implementation of artificial intelligence technology and principles in healthcare.



Doing a course, all online is a lot more convenient for me around my clinical role so that's why I chose to study with Learna... I really like how flexible the course was, I liked the freedom I got with the professional project and I was well supported throughout the whole 2 years!

- Lisa Jayne Edwards, Medical Education MSc graduate

## Module 2: Artificial Intelligence Applications in Medical Practice

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### Aim of the module:

- To develop students' knowledge and understanding of current and emerging applications of artificial intelligence across a variety of medical contexts, enhancing their critical analysis skills and striving to improve patient outcomes.

### Synopsis of module content:

- AI in Diagnostic Imaging
- Personalised Medicine through AI
- AI-Enhanced Surgery
- Wearables and Remote Health Monitoring
- AI in Mental Health Treatment
- Exploring the Future of AI in Medicine

### On completion of this module, students will be able to:

1. Critically evaluate current and emerging AI technologies for a range of healthcare applications, analysing the potential benefits and limitations of these tools in medical practice.
2. Develop a systematic understanding of current requirements, challenges and solutions in implementing AI technologies adopting a multidisciplinary approach and for a variety of healthcare settings.

## Module 3: Ethical, legal and Social Implications of Artificial Intelligence in Medicine

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### Aim of the module:

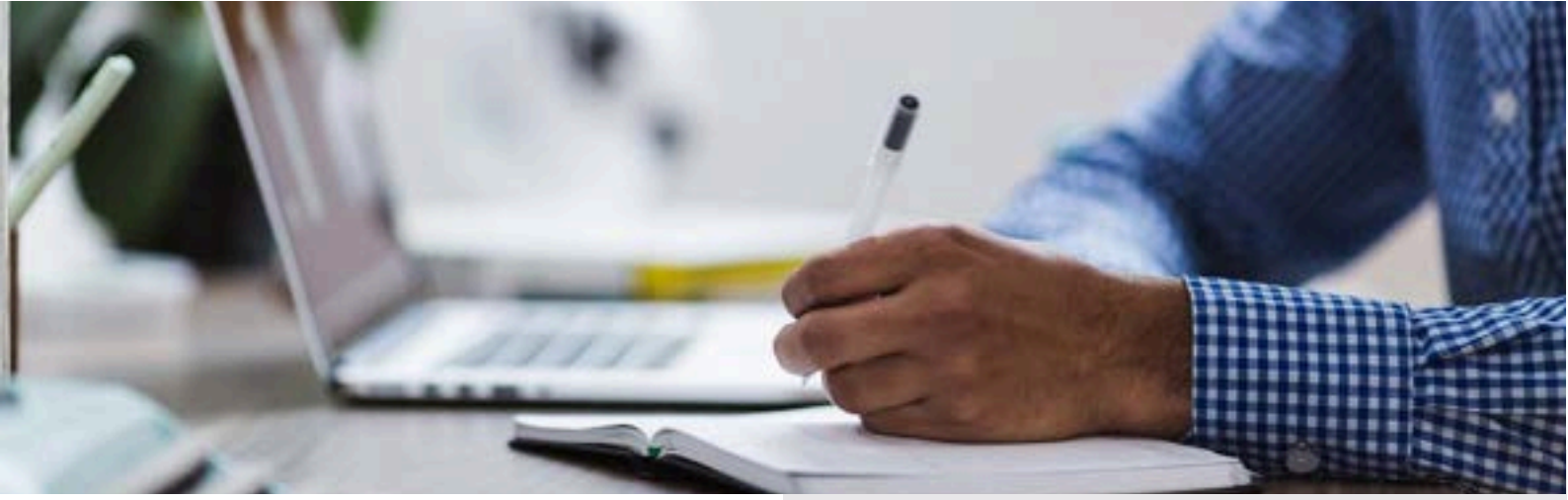
- To develop students' knowledge and capabilities when assessing multifaceted ethical, legal and societal challenges surrounding the integration of AI in healthcare.

### Synopsis of module content:

- Ethical Frameworks in Medical AI
- Ensuring Data Privacy and Security
- Addressing Bias and Equity
- Legal and Accountability Issues
- Social Impact and Patient Engagement
- Navigating Future Challenges

### On completion of this module, students will be able to:

1. Exhibit an in-depth knowledge of the ethical, legal and societal challenges associated with artificial intelligence in a variety of medical contexts.
2. Develop evidence-based policy recommendations that incorporate the latest research and take into account ethical frameworks and legal issues related to the application of AI in medicine.



## Teaching Methods

Our courses are conducted entirely online through self-directed distance learning. However, you will receive guidance throughout with tutor-stimulated academic discussions, which are based on clinically-rich case scenarios. These usually occur within groups of 10-15 students, allowing you to clearly communicate with both your tutor and fellow students.

You will participate in a combination of group and individual activities, which are recorded in a reflective journal. This innovative teaching method enables you to envisage the translation of your studies into your every day work and practice.

Our dedicated Student Support Team are also available to help with any problems you may face. From navigating our online platform to advising you on deadlines, our team can assist with any questions or challenges you may have along the way.

## Study skills week

Once you have secured your place on the course, you will be required to attend our Study Skills week. This will give you the opportunity to participate in workshops on Harvard referencing, scientific and reflective writings, and levels of evidence in preparation for your studies. It is compulsory for you to attend this induction, as it'll provide you with a sturdy introduction to the course.

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"When I enrolled into the course I had no idea about the opportunities it would provide me with. Having my first paper published through this course helped me overcome my apprehensions of academic writing and made me more confident to pursue it further. "

-Rutu Dave

# Artificial Intelligence in Medicine Postgraduate Certificate

## Entry Requirements

Documents required:

- A copy of your updated CV including your address and date of birth.
- A copy of your undergraduate degree certificate.
- The name and email address of someone who is able to provide a reference, this can be a work colleague, employer or former tutor.
- A detailed personal statement explaining why you would like to undertake the course.

Health professionals working within a clinical setting, both UK and overseas, with a related Healthcare Science degree (including international qualifications) are eligible to apply for the Postgraduate Diploma in Dermatology in Clinical Practice.

Applicants without the above academic criteria but relevant/ suitable experience can apply. Applications will be judged on the individual specifics of background and qualifications including ability to work at Postgraduate level (applicants may be asked to submit a piece of work for assessment to confirm that they are able to work comfortably at postgraduate level and demonstrate requisite clinical/professional knowledge).

**Applicants should submit copies of the following with their application:**

Proficiency in the English language is also essential to completing our courses. If English is NOT your first language, we ask for proof of competency during the application process. We are able to accept an IELTS overall score of 6.0 (with a minimum of 5.5 for each band) or an equivalent qualification.





## What do our students think?

Since 2010, over 6000 students have progressed their medical career by enrolling in one of our qualifications. We ourselves have learned a lot during this time and continually seek to improve the student learning experience. Here is what some of our previous students have said:

"I found the online learning very interesting. It enabled me to save money and time."

**Dr Imad Eddin Rahamtalla, Doctor**

"I strongly recommend Diploma MSc to all those busy physicians who are working in remote areas and wish to upgrade their knowledge."

**Dr Junaid Zaffar, Diabetologist**

"The learning was fun and enjoyable. The course was awesome and it increased my confidence."

**Dr Sankar Nath Jha, Assistant Professor**

"I found learning with Diploma MSc interesting, it helped to update my academic knowledge."

**Dr Prasanth Kinattupurayil, Doctor**

"I love that it was flexible and that I could log in at my convenience. I found this course to be very in-depth, informative, challenging and stimulating."

**Kerri-Ann Best PGDip, RD**



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