

### **Why nano degree?**

If you're thinking about improving your qualifications in short duration and getting a technology job, then you may consider choosing a nanodegree by UMT. These certified educational programmes equip you with specialised knowledge that you can use to apply for a job in Artificial Intelligence, Data science, Full Stack development or Mobile Application development.

### **What is a nanodegree?**

A nanodegree is a skill based certified educational programme that teaches you specialised skills in less time than bachelor's and master's degrees.

A nanodegree offers you more in-depth learning than a standard certificate. Upon successful completion, you're likely to have a strong skill set that makes you qualified for entering a technology field of your choice as a junior or mid-level engineer.

**Optional:** "This degree is credit-transferrable, which means that it's possible that you transfer your credits to a traditional degree programme if you decide to further continue your education."

### **Duration of Nano Degree?**

It takes one year to complete a nanodegree. Quarter system is adopted for these programs with each quarter comprising of 3 months.

A quarter system consists of four 10-week sessions and 1 week for final exams in the **fall, winter, spring, and Summer.**

### **What are the different Nano Degrees that are being offered at UMT?**

We are aligning ourselves to the needs of the Software industry and offering Nano Degrees in following four disciplines:

1. Nano Degree in Artificial Intelligence
2. Nano Degree in Data Science
3. Nano Degree in Web Development
4. Nano Degree in Mobile Application Development

### **What can you do with a nanodegree?**

Nanodegrees often focus on helping you develop expert technical abilities in one or more areas of computer science. They're highly effective for people who want to pursue a career in technology or a related field, including data science or artificial intelligence (AI) and Software Development. Here are some roles in which you can work after completing a nano degree:

#### **Data analyst/ Data Scientist**

A data analyst is a tech professional whose primary responsibility is to design, implement and maintain data systems and databases for organisations.

#### **Front-end developer**

A front-end developer is responsible for building the front-end elements of a website or application, like all landing pages and systems that end-users actually interact with.

#### **Back-end developer**

A Back-end developer is responsible for building the back-end elements of a website or application, like Application Programming Interfaces(API), securing applications and creating and maintaining databases.

**Full-stack developer**

A full-stack developer is a professional who takes care of both the back and front end of an application.

**Quality assurance engineer**

A quality assurance (QA) engineer is a computer science professional responsible for identifying and fixing bugs in product or programme codes.

**ML/AI Engineer:**

An artificial intelligence Engineer works with the engineering team. As a group, their responsibility is to design and build digital tools for data collection and annotation. They design AI prototypes, gather data and create complex databases, which their programmes can use to learn new patterns and behaviours.

**Mobile Application Developer:**

They are responsible for developing Mobile applications for different platforms such as Android and iPhone.

**Benefits of nano Degree?**

Although they're not likely to replace traditional degrees anytime soon yet nano degrees have tremendous benefits. Here's why you may want to enrol in a nano degree programme:

**Fast Track Career Adoption**

One of the key benefits of nano degrees is their short duration. In this short time, students would be industry ready to undertake above mentioned roles. This degree is designed for students who want to switch their fields and wanted to join software industry on fast track.

**Support from industry leaders**

Lecturers who prepare learning materials for nano degrees are often industry experts with years of experience. In addition to providing you with high-quality knowledge and strategies, it makes it easier to network with others in the field. As a part of the course, you may even have the option to schedule one-on-one meetings with your lecturers to discuss topics you're struggling with or talk about your career potential.

**Career Preparation**

Nanodegrees focus on teaching you practical skills, which you can later use to find a job in a tech-related field. In addition to classroom learning, university give you a chance to improve your abilities through working on group and individual projects. Experiments and test cases are also common, as they allow you to focus on finding solutions to real-life challenges that many organisations face.

**Do I need to know how to code before starting the program?**

No, the program is designed to teach you the necessary skills from the ground up.

**How does the program assess my progress?**

Progress is assessed through Exams, quizzes, hands-on projects, and peer reviews for constructive feedback.

**Is there a final capstone project?**

Yes, the program includes a capstone project that showcases your skills and understanding of AI concepts.

**Are there live sessions or Recorded lectures?**

The program includes Live lectures in the Lab where students would do hands on work with instructors.

**What are the class timings?**

They are offered in the evening time so this means it's easy to continue working full-time and complete class assignments after hours or during weekends.