

Introducing

Bachelor of Computer Science

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Welcome to the Faculty

Faculty of Science of the Maldives National University was inaugurated in August 2013 with the intention to establish a centre recognized nationally and internationally for quality teaching, scholarship and academic research in areas of science and information technology. We currently offer programs in Information Technology, Environmental Management and Science (Biology, Chemistry and Physics).

The Faculty offers a range of high quality Advanced certificates, Diplomas and Degrees in Information Communication Technology including Networking and Computer Science. Available at Male' campus, as well as at MNU Hithadhoo, Thinadhoo and Kulhudhuffushi campuses, our programs are well known for its quality and prestige. Faculty of Science is also the CISCO Networking Academy in the Maldives and offers industry recognized international certifications. The Faculty houses modern computer labs, networking and hardware labs and a Pearson VUE online Testing Centre.

While very affordable, our courses equip you with the right knowledge, attitude and skills to give you a competitive advantage in finding a job. With the help of our energetic and highly qualified pool of academic staff, we would be able to take you to the next level of your career. There has never been a better time to choose one of our exciting programs and become a part of our distinctive learning community. We, thereby invite you to embark on this intellectual journey with us that will inspire you for a lifetime.



Title of Course Bachelor of Computer Science

Duration
3 years (6 semesters)

Students can exit with an "Advanced Diploma in Computer Science" after successful completion of the second year.

Overview

Bachelor of Computer Science is a degree covering the key areas of computer science that will equip students with a range of skills and knowledge to develop innovative software solutions to numerous problems. After completing this degree, graduates will be able to competently undertake jobs in the IT industry of Maldives or elsewhere and deliver as a software developer, network administrator, database administrator, software engineer data scientist, systems analyst, project manager or work in R&D.

Admission/Entry Requirements:

✓ General Requirements

2 passes in GCE A' level and 3 passes in GCE O' level (Including Mathematics /Physics /Computer science) or Equivalent, OR

Foundation studies level 2 target course; OR

Level 4 qualification in a relevant field or equivalent.

✓ Alternative Entry Requirements

20 years old with a pass in GCE O'level (or equivalent) and 3 years work experience in a related field

📄 Language Requirements

Certified proficiency in English (GCE O'L/ IGCSE English pass) or equivalent or satisfactory performance in a written test of English.



Course Structure

| Semester | Core/ Elective | Subject Name | Pre-requisite | Credit Points |
|--|----------------|--|------------------------------|---------------|
| 1 | Core 1 | Dhivehi for Professionals | Nil | 15 |
| | Core 2 | Introduction to Programming | Nil | 15 |
| | Core 3 | Pure Mathematics | Nil | 15 |
| | Core 4 | Physics 1: Mechanics, Waves and Electrostatics | Nil | 15 |
| 2 | Core 5 | Database Management System | Nil | 15 |
| | Core 6 | Discrete Mathematics | Nil | 15 |
| | Core 7 | Introduction to Networking | Nil | 15 |
| | Core 8 | Probability and Statistics | Nil | 15 |
| 3 | Core 9 | Data Structures and Algorithms | Core 6, Corequisite: Core 10 | 15 |
| | Core 10 | Object Oriented Programming | Core 2 | 15 |
| | Core 11 | Operating Systems | Core 2 | 15 |
| | Core 12 | Digital Circuits | Nil | 15 |
| 4 | Core 13 | Advance Data Structures and Algorithm Analysis | Core 9 | 15 |
| | Core 14 | Advanced Networking | Core 7 | 15 |
| | Core 15 | Computer Organization and Architecture | Core 2 | 15 |
| | Core 16 | Software Engineering | Core 2 | 15 |
| Exit with an Advanced Diploma in Computer Science | | | | |
| 5 | Core 17 | Advanced Database Management System | Core 5 | 15 |
| | Core 18 | Multimedia Technology and Applications | Nil | 15 |
| | Core 19 | Web Technology | Core 2 | 15 |
| | Core 20 | IT Project | Completion of 120 credits | 30 |
| 6 | Core 21 | Artificial Intelligence | Core 13 | 15 |
| | Core 20 | IT Project (continuing) | | |
| | Elective1 | Elective 1 (select from list below) | | 15 |
| | Elective2 | Elective 2(select from list below) | | 15 |

List of Electives (select 2 electives)

| Subject Name | Elective | Subject Name | Elective |
|------------------------------------|---------------|-------------------------------------|---------------|
| Mobile Applications | Core 2 | Image Processing | Core 2 |
| Sensor Networking and Applications | Core 14 | Automata Theory | Core 2, 9, 13 |
| Programming Language | Core 2, 9, 13 | Cryptography and Network Security | Core 3 |
| Software Testing | Core 2 | Distributed Computing | Core 6, 14 |
| Human Computer Interaction | Nil | Geographic Information System (GIS) | Nil |