

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