

Course Structure

Bachelor of Computer Science

Faculty of Engineering, Science and Technology



Semester 1

| Type | Code | Name | Prerequisites | Credit Points | Fee (MVR) |
|----------------|--------|---|---------------|---------------|-----------|
| CORE | CPT111 | Introduction to Programming | Nil | 15 | 1,245 |
| CORE | DHI113 | Dhivehi for Professionals | Nil | 15 | 870 |
| CORE | MAT129 | Pure Mathematics | Nil | 15 | 1,245 |
| CORE | PHY101 | Physics: Mechanics, waves and electrodynamics | Nil | 15 | 1,245 |
| Semester Total | | | | 60 | 4,605 |

Semester 2

| Type | Code | Name | Prerequisites | Credit Points | Fee (MVR) |
|----------------|--------|-----------------------------|---------------|---------------|-----------|
| CORE | CPT149 | Introduction to Networking | Nil | 15 | 1,245 |
| CORE | CPT205 | Object Oriented Programming | CPT111 | 15 | 1,245 |
| CORE | MAT103 | Discrete Mathematics | Nil | 15 | 1,245 |
| CORE | PHY205 | Digital Circuits | Nil | 15 | 1,245 |
| Semester Total | | | | 60 | 4,980 |

Semester 3

| Type | Code | Name | Prerequisites | Credit Points | Fee (MVR) |
|----------------|--------|--------------------------------|----------------|---------------|-----------|
| CORE | CPT203 | Data Structures and Algorithms | MAT103, CPT205 | 15 | 1,245 |
| CORE | CPT211 | Database Systems | Nil | 15 | 1,245 |
| CORE | CPT239 | Operating Systems | CPT111 | 15 | 1,245 |
| CORE | PHY215 | Electronics for Robotics | PHY205 | 15 | 1,245 |
| Semester Total | | | | 60 | 4,980 |

Semester 4

| Type | Code | Name | Prerequisites | Credit Points | Fee (MVR) |
|----------------|--------|---|---------------|---------------|-----------|
| CORE | CPT229 | Advanced Networking | CPT149 | 15 | 1,245 |
| CORE | CPT241 | Advanced Data Structures & Algorithm Analysis | CPT203 | 15 | 1,245 |
| CORE | CPT243 | Computer Organization & Architecture | CPT111 | 15 | 1,245 |
| CORE | CPT245 | Software Engineering | CPT111 | 15 | 1,245 |
| Semester Total | | | | 60 | 4,980 |

Semester 5

| Type | Code | Name | Prerequisites | Credit Points | Fee (MVR) |
|----------------|--------|-------------------------------------|---------------------------|---------------|-----------|
| CORE | CPT313 | Advanced Database Management System | CPT147 | 15 | 1,245 |
| CORE | CPT315 | Web Technologies | CPT111 | 15 | 1,245 |
| CORE | CPT317 | Artificial Intelligence | CPT241, CPT205, CPT111 | 15 | 1,245 |
| CORE | CPT337 | Applied CS Project | Completion of 180 credits | | 1,245 |
| Semester Total | | | | 225 | 4,980 |

Semester 6

| Type | Code | Name | Prerequisites | Credit Points | Fee (MVR) |
|----------------|--------|--|----------------|---------------|-----------|
| CORE | CPT333 | Cryptography & Networking Security | MAT129, CPT205 | 15 | 1,245 |
| CORE | CPT337 | Applied CS Project (continue) | Nil | 30 | 1,245 |
| CORE | CPT303 | Multimedia Technology and Applications | Nil | 15 | 1,245 |
| ELECTIVE | | Electives | Nil | 15 | 1,245 |
| Semester Total | | | | 75 | 4,980 |

Elective

| Type | Code | Name | Prerequisites | Credit Points | Fee (MVR) |
|---------------------|--------|--------------------------------------|---------------|---------------|---------------|
| ELECTIVE | CPT327 | Human Computer Interaction | Nil | 15 | 1,245 |
| ELECTIVE | CPT339 | Logical and Physical Database design | CPT211 | 15 | 1,245 |
| Course Total | | | | 360 | 29,505 |

Fees stated above are tuition fees for local students. Fees for international students is twice the stated fees. All fees are quoted in MVR.

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