

# Faculty of Engineering, Science & Technology

**NOTE:** Fees stated below are tuition fee for local students. Fee for international students on student visa is FIVE times the stated fees. Fee for workpermit holders and students on dependent visa is same as the fees for local students. All fees are quoted in MVR.

## Certificate 3 in Drinking Water System Operations and Maintenance

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE
1	1	BES001	RWH Technology & Equipment Operations & Maintenance	Nil	6	498
		BES003	Desalination Technology & Equipment Operations & Maintenance	Nil	18	1,494
		BES005	Disinfection & Support Systems	Nil	6	498
		BES007	Power Generation Backup Power Operations & Maintenance	Nil	12	996
		BES009	Water Distribution System Operations & Maintenance	Nil	6	498
		SCI021	Basic Water Chemistry, Biology & Safety	Nil	12	996
<b>Course Total</b>					<b>60</b>	<b>4,980</b>

## Certificate 3 Electrotechnical Technology

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE
1	1	ELE049	Principles of Electrotechnology	Nil	15	1,245
		ELE051	Applications of Electrical Principles	Nil	15	1,245
		ELE053	Electrical Installation (Building Structures)	Nil	15	1,245
		ELE055	Basic Electrical Protection and Safety	Nil	15	1,245
<b>Course Total</b>					<b>60</b>	<b>4,980</b>

## Certificate 3 Welding and Sheet Metal (2013)

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE
1	1	MEC003	Basic Workshop Technology	Nil	5	415
		MEC025	Sheet Metal Process	Nil	10	830
		MEC037	Oxy-acetylene Gas Welding	Nil	20	1,660
		MEC039	Shielded Metal Arc Welding Process	Nil	25	2,075
<b>Course Total</b>					<b>60</b>	<b>4,980</b>

## Certificate 3 in Engine Repair & Maintenance (2013)

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE
1	1	MAT025	Basic Mathematics	Nil	5	415
		MEC001	Basic Engine Technology	Nil	30	2,490
		MEC003	Basic Workshop Technology	Nil	5	415
		MEC013	Engine Practice	Nil	15	1,245
		PHY005	Basic Material Science	Nil	5	415
<b>Course Total</b>					<b>60</b>	<b>4,980</b>

## Certificate 3 in Water Quality Laboratory Procedures

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE
1	1	BIO013	Biological/ Bacteriological & Primary Nutrient Analysis	Nil	12	996
		SCI021	Basic Water Chemistry, Biology & Safety	Nil	12	996
		SCI023	Water Quality Sampling Methods	Nil	6	498
		SCI025	Physicochemical Analysis	Nil	12	996
		SCI027	Data Analysis & Interpretation	Nil	12	996
		SCI029	Laboratory Safety & Maintenance	Nil	6	498
<b>Course Total</b>					<b>60</b>	<b>4,980</b>

## Advanced Certificate in Engine Repair & Maintenance

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE	
1	1	CPT001	Introduction to Computing	Nil	10	830	
		GEN003	Study Skills	Nil	6	348	
		MAT005	Engineering Mathematics	Nil	10	830	
		MEC005	Engineering Drawing	Nil	12	996	
		MEC033	Workshop Technology	Nil	12	996	
		PHY003	Engineering Science	Nil	10	830	
		<b>Semester Total</b>					<b>4,830</b>
	2	2	CPT005	Computer Assisted Design A	Nil	15	1,245
			MEC041	Engineering Science II - Engine Repair	Nil	5	415
			MEC047	Material Science	Nil	5	415
			MEC079	Workshop Technology II- Welding, Machining & Fabrication	Nil	10	830
			MEC059	Engine Technology I	Nil	30	2,490
<b>Semester Total</b>					<b>5,395</b>		
2	3	CPT007	Computer Assisted Design B	Nil	10	830	
		MEC061	Engine Technology II	Nil	30	2,490	
		MEC077	Fluid Power	Nil	5	415	
		MEC007	Marine Auxiliary Machines	Nil	10	830	
		MEC073	Project - Engine Repair	Nil	5	415	
<b>Semester Total</b>					<b>4,980</b>		
<b>Course Total</b>					<b>185</b>	<b>15,205</b>	

## Advanced Certificate in Electrical & Electronics Engineering

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE	
1	1	MAT005	Engineering Mathematics	Nil	10	830	
		PHY003	Engineering Science	Nil	10	830	
		MEC005	Engineering Drawing	Nil	12	996	
		MEC033	Workshop Technology	Nil	12	996	
		GEN033	Study Skills	Nil	6	348	
		CPT001	Introduction to Computing	Nil	10	830	
	<b>Semester Total</b>					<b>4,830</b>	
	2		CPT005	Computer Assisted Design A	Nil	15	1,245
			ELE001	Electrical Technology	Nil	15	1,245
			ELE003	Electrical Installation	Nil	15	1,245
			ELE005	Electronic Fundamentals	Nil	15	1,245
	<b>Semester Total</b>					<b>4,980</b>	
	2	3	ELE009	Electrical Machines	Nil	15	1,245
			ELE011	Electronic Circuits	Nil	15	1,245
ELE013			Consumer Electronics 1	Nil	15	1,245	
ELE015			Digital Electronics	Nil	15	1,245	
<b>Semester Total</b>					<b>4,980</b>		
<b>Course Total</b>					<b>180</b>	<b>15,620</b>	

## Advanced Certificate in Welding & Metal Fabrication

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE	
1	1	MAT005	Engineering Mathematics	Nil	10	830	
		PHY003	Engineering Science	Nil	10	830	
		MEC005	Engineering Drawing	Nil	12	996	
		MEC033	Workshop Technology	Nil	12	996	
		GEN003	Study Skills	Nil	6	348	
		CPT001	Introduction to Computing	Nil	10	830	
	<b>Semester Total</b>					<b>4,830</b>	
	2		MEC065	SMA Welding process - 1	Nil	20	1,660
			MEC049	Oxy-acetylene gas welding process - 1	Nil	10	830
			MEC055	Sheet metal process	Nil	10	830
			MEC047	Material Science	Nil	10	830
			CPT005	CAD A	Nil	15	1,245
	<b>Semester Total</b>					<b>5,395</b>	
	2	3	MEC067	SMA Welding process - 2	Nil	20	1,660
MEC071			Oxy-acetylene gas welding process - 2	Nil	10	830	
MEC063			Sheet metal productions	Nil	10	830	
MEC081			Project work	Nil	10	830	
CPT007			CAD B	Nil	10	830	
<b>Semester Total</b>					<b>4,980</b>		
<b>Course Total</b>					<b>185</b>	<b>15,205</b>	

## Advanced Certificate in Information Technology (2020)

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE	
1	1	CPT015	IT Essentials	Nil	15	1,245	
		ENG017	English 1	Nil	15	870	
		CPT023	Fundamentals of Programming	Nil	15	1,245	
		MAT033	Mathematics	Nil	15	1,245	
	<b>Semester Total</b>						<b>4,605</b>
	2	BIS101	Information Systems	Nil	15	1,245	
		CPT113	Multimedia Technology	Nil	15	1,245	
		CPT103	Applications Development	Nil	15	1,245	
		MGT013	Introduction to Management	Nil	15	1,320	
	<b>Semester Total</b>						<b>5,055</b>
<b>Course Total</b>					<b>120</b>	<b>9,660</b>	

## Diploma in Information Technology

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE	
1	1	MAT103	Discrete Mathematics	Nil	15	1,245	
		CPT111	Introduction to Programming	Nil	15	1,245	
		CPT223	System Analysis and Design	Nil	15	1,245	
		CPT211	Database Systems	Nil	15	1,245	
	<b>Semester Total</b>						<b>4,980</b>
	2	CPT129	ICT for Development	Nil	15	1,245	
		CPT107	Data Communications and Networking	Nil	15	1,245	
		CPT117	Visual Basic Programming	CPT111	15	1,245	
		CPT221	Information Technology Project	CPT211, CPT223	15	1,245	
	<b>Semester Total</b>						<b>4,980</b>
<b>Course Total</b>					<b>120</b>	<b>9,960</b>	

## Bachelor of Arts in Interior Design

Yr	Sem	Code	Title	Pre-requisite	Credit Point	FEE	
1	1	ARC117	Interior Design 1	Nil	15	1,245	
		ARC101	Architectural Communication 1	Nil	12	996	
		ARC111	Environment & Culture 1	Nil	12	996	
		BES101	Building Materials	Nil	12	996	
		BES105	Construction 1	Nil	12	996	
		ENG015	English for Academic Purpose	Nil	0	-	
	<b>Semester Total</b>					<b>5,229</b>	
	2	2	ARC119	Interior Design 2	ARC117	15	1,245
			ARC103	Architectural Communication 2	ARC101	12	996
			ARC113	Environment & Culture 2	ARC111	12	996
			BES117	Building Science 1	Nil	12	996
			BES107	Construction 2	BES105	12	996
DHI113			Dhivehi for Professionals	Nil	0	-	
<b>Semester Total</b>					<b>5,229</b>		
2	3	ARC211	Interior Design 3	ARC119	15	1,245	
		ARC203	Architectural Communication 3	ARC103	12	996	
		BES211	Environment & Culture 3	ARC113	12	996	
		BES221	Professional Practice 1	Nil	12	996	
		BES103	Building Services 1	Nil	12	996	
		<b>Semester Total</b>					<b>5,229</b>
	4	4	ARC213	Interior Design 4	ARC211	15	1,245
			ARC205	Architectural Communication 4	ARC203	12	996
			BES251	Building Science 2	BES117	12	996
			ARC215	Color theory	Nil	12	996
				Elective*	Nil	12	996
			<b>Semester Total</b>				
3	5	ARC309	Interior Design 5	ARC213	15	1,245	
		ARC 303	Architectural Communication 5	ARC205	12	996	
		CAP301	Furniture Design workshop	Nil	12	996	
		ARC311	Research Methodology	Nil	12	996	
		BES339	Building Science 3	BES251	12	996	
		<b>Semester Total</b>					<b>5,229</b>
	6	6	ARC313	Interior Design 6	ARC309, ARC3	20	1,660
			ARC315	Directed Research	ARC311	20	1,660
			MGT231	Project Management	Nil	12	1,056
	<b>Semester Total</b>					<b>4,376</b>	
	<b>Course Total</b>					<b>367</b>	<b>30,521</b>

## Bachelor of Arts in Architectural Design

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE	
1	1	ARC101	Architectural Communications I	Nil	12	996	
		ARC107	Architectural Design Project I	Nil	15	1,245	
		ARC111	Environment and Culture I	Nil	12	996	
		BES101	Building Materials	Nil	12	996	
		BES105	Construction I	Nil	12	996	
		ENG015	English for Academic Purpose	Nil	0	-	
		<b>Semester Total</b>					<b>5,229</b>
	2	2	ARC103	Architectural Communications II	ARC101	12	996
			ARC105	Architectural Technologies I	BES101, BES105	12	996
			ARC109	Architectural Design Project II	ARC107	15	1,245
			ARC113	Environment and Culture II	ARC111	12	996
			BES107	Construction II	Nil	12	996
			DHII13	Dhivehi for Professionals	Nil	0	-
			<b>Semester Total</b>				
2	3	ARC201	Architectural Design Project III	ARC109	15	1,245	
		ARC203	Architectural Communications III	ARC103	12	996	
		BES103	Building Services I	Nil	12	996	
		BES211	Environment and Culture III	ARC113	12	996	
		IXP123	Professional Industrial Experience I	Nil	0	-	
		BES221	Professional Practice I	Nil	12	996	
		<b>Semester Total</b>					<b>5,229</b>
	<b>EXIT: Diploma in Architecture</b>					<b>177</b>	<b>15,687</b>
	4	4	ARC205	Architectural Communications IV	ARC203	12	996
			ARC207	Architectural Design Project IV	ARC201	20	1,660
			BES203	Construction III	Nil	12	996
			BES243	Environment and Culture IV	BES211	12	996
			<b>Semester Total</b>				
	3	5	ARC115	Architectural Technologies II	ARC105, BES107, BES103	12	996
ARC301			Architectural Design Project VI	ARC207	15	1,245	
ARC303			Architectural Communications V	ARC205	12	996	
ARC305			Environment and Culture V	BES243	12	996	
BES245			Professional Practice II	BES221	12	996	
<b>Semester Total</b>					<b>5,229</b>		
6		6	ARC209	Architectural Technologies III	ARC115	12	996
				Architectural Elective 1	Nil	12	996
			ARC307	Architectural Design Project VI	ARC301	20	1,660
			BES317	Professional Practice III	BES245	12	996
			IXP305	Professional Industrial Experience II	Nil	0	-
			<b>Semester Total</b>				
<b>Course Total</b>					<b>364</b>	<b>30,212</b>	

### List of Electives (Choose 1 from the list below)

#	Subject Code	Subject name	Pre-requisites	Credit Points	FEE
1	BES249	Construction Project Management	Nil	12	996
2	BES117	Building Science 1	Nil	12	996
3	MGT231	Project Management	Nil	12	996
4	CAP301	Furniture Design workshop	Nil	12	996

## BACHELOR OF CIVIL ENGINEERING (HONOURS)

Yr	Sem	Code	Title	Pre-requisite	Credit Point	FEE	
1	1	MAT123	Engineering Mathematics I	Nil	12	996	
		PHY111	Physics	Nil	12	996	
		CPT137	Computing for Engineering	Nil	12	996	
		CHE107	Material Science and Chemistry	Nil	12	996	
		ENG131	English for Academic Purposes	Nil	15	870	
	<b>Semester Total</b>					<b>63</b>	<b>4,854</b>
	2	MAT125	Engineering Mathematics II	MAT123	12	996	
		BES109	Drawing and Setting Out	Nil	12	996	
		PHY105	Statics and Mechanics of Solids	MAT123	12	996	
		BES101	Building Materials	Nil	12	996	
BES105		Construction I	Nil	12	996		
<b>Semester Total</b>					<b>60</b>	<b>4,980</b>	
2	3	PHY109	Mechanics of Solids	PHY105	12	996	
		MGT129	Basic Management and Marketing	Nil	12	1,056	
		BES107	Construction II	BES105	12	996	
		BES215	Land Surveying I	BES109	12	996	
		MAT215	Engineering Mathematics III	MAT125	12	996	
	<b>Semester Total</b>					<b>60</b>	<b>5,040</b>
	4	BES103	Building Services I	BES105	10	830	
		BES249	Construction Project Management	MGT129	12	996	
		BES227	Structural Analysis	PHY105	12	996	
		BES229	Structural Design I	PHY105	15	1,245	
BES305		Land Surveying II	BES215	12	996		
<b>Semester Total</b>					<b>61</b>	<b>5,063</b>	
3	5	BES319	Statics of Engineering	MAT125	12	996	
		BES311	Hydraulics	PHY105	12	996	
		BES323	Geotechnical Engineering	PHY105	12	996	
		BES203	Construction III	BES107	12	996	
		BES325	Engineering Computations	MAT127	12	996	
	<b>Semester Total</b>					<b>60</b>	<b>4,980</b>
	6	BES327	Hydrology	PHY105	12	996	
		BES337	Design of Steel Structures	PHY105, BES227	15	1,245	
		BES331	Engineering Project I	BES229, BES227	10	830	
		BES335	Building Services II	BES105	10	830	
BES333		Waste Water Engineering	BES203	12	996		
<b>Semester Total</b>					<b>59</b>	<b>4,897</b>	
4	7	BES401	Engineering Project II	BES331	10	830	
		BES403	Thesis I	Nil	20	1,660	
		BES405	Sustainable Transport and Highway Engineering	BES323	15	1,245	
		BES407	Estimating and Contracting	Nil	15	1,245	
	<b>Semester Total</b>					<b>60</b>	<b>4,980</b>
	8	BES409	Coastal Engineering	BES203, BES327	15	1,245	
		BES411	Thesis II	BES403	20	1,660	
		LAW017	General Principles of Law I	Nil	12	1,056	
		DHI113	Dhivehi for Professionals	Nil	15	870	
	<b>Semester Total</b>					<b>62</b>	<b>4,831</b>
<b>Total number of credits</b>					<b>485</b>	<b>39,625</b>	

## Bachelor of Computer Science

Yr	Sem	Subject Code	Subject name	Pre-requisites	Credit Points	FEE
1	1	DHI113	Dhivehi for Professionals	Nil	15	870
		CPT111	Introduction to Programming	Nil	15	1,245
		MAT129	Pure Mathematics	Nil	15	1,245
		PHY101	Physics: Mechanics, waves and electrodynamics	Nil	15	1,245
		<b>Semester Total</b>				
	2	CPT147	Database Management System	Nil	15	1,245
		MAT103	Discrete Mathematics	Nil	15	1,245
		CPT149	Introduction to Networking	Nil	15	1,245
		MAT133	Probability and Statistics	Nil	15	1,245
		<b>Semester Total</b>				
2	3	CPT203	Data Structures and Algorithms	MAT103	15	1,245
		CPT205	Object Oriented Programming	CPT111	15	1,245
		CPT239	Operating Systems	CPT111	15	1,245
		PHY205	Digital Circuits	Nil	15	1,245
		<b>Semester Total</b>				
	4	CPT241	Advanced Data Structures & Algorithm Analysis	CPT203	15	1,245
		CPT229	Advanced Networking	CPT149	15	1,245
		CPT243	Computer Organization & Architecture	CPT111	15	1,245
		CPT245	Software Engineering	CPT111	15	1,245
		<b>Semester Total</b>				
					<b>120</b>	<b>19,545</b>
3	5	CPT313	Advanced Database Management System	CPT147	15	1,245
		CPT303	Multimedia Technology and Applications	Nil	15	1,245
		CPT315	Web Technology	CPT111	15	1,245
		CPT337	Applied CS Project	Completion of 120 credits		1,245
		<b>Semester Total</b>				
	6	CPT317	Artificial Intelligence	CPT241	15	1,245
		CPT337	Applied CS Project (continue)	Nil	30	1,245
			Electives	Nil	15	1,245
			Electives	Nil	15	1,245
		<b>Semester Total</b>				
<b>Total number of credits</b>					<b>360</b>	<b>29,505</b>



**List of Electives (Choose 2 from the list below)**

#	Subject Code	Subject name	Pre-requisites	Credit Points	FEE
1	CPT319	Mobile Applications	CPT111	15	1,245
2	CPT321	Sensor Networking & Applications	CPT229	15	1,245
3	CPT323	Programming Language	CPT111, CPT203,	15	1,245
			CPT241		
4	CPT325	Software Testing	CPT111	15	1,245
5	CPT327	Human Computer Interaction	Nil	15	1,245
6	CPT329	Image Processing	CPT111	15	1,245
7	CPT331	Automata Theory	CPT111, CPT203, CPT241	15	1,245
8	CPT333	Cryptography & Networking Security	MAT129	15	1,245
9	CPT335	Distributed Computing	MAT103, CPT229	15	1,245
10	ENV215	Geographic Information System (GIS)	Nil	15	1,245

## Bachelor in Information Technology 2020

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE
1	1	BUS103	Business Communications	Nil	15	1,320
		CPT111	Introduction to Programming	Nil	15	1,245
		CPT223	System Analysis and Design	Nil	15	1,245
		DHI113	Dhivehi for Professional	Nil	15	870
		<b>Semester Total</b>				<b>60</b>
	2	CPT205	Object Oriented Programming	CPT111	15	1,245
		MAT103	Discrete Mathematics	Nil	15	
		CPT149	Introduction to Networking	Nil	15	1,245
		CPT117	Visual Basic Programming	CPT111	15	1,245
		<b>Semester Total</b>				<b>60</b>
2	3	CPT203	Data Structures and Algorithms	CPT111, MAT103	15	1,245
		CPT211	Database Systems	Nil	15	1,245
		CPT229	Advanced Networking and Telecommunications	CPT107	15	1,245
			Elective (Any 200 level)		15	1,245
		<b>Semester Total</b>				<b>60</b>
	4	CPT231	Helpdesk and Service Provision	Nil	15	1,245
		MGT215	Project Management	Nil	15	
		CPT245	Software Engineering	Nil	15	1,245
		CPT239	Operating Systems	CPT111	15	1,245
		<b>Semester Total</b>				<b>60</b>
3	5	CPT315	Web technology	CPT111	15	1,245
		CPT305	Data and Process Modelling	CPT205	15	1,245
		CPT339	Logical and Physical Database design	CPT211	15	1,245
		CPT311	Applied IT Project	Nil	15	1,245
		<b>Semester Total</b>				<b>60</b>
	6	CPT303	Multimedia Technology and Applications	Nil	15	1,245
		MGT307	IT Management	Nil	15	1,320
		CPT327	Human Computer Interaction	Nil	15	1,245
		CPT311	Applied IT Project	Nil	15	1,245
		<b>Semester Total</b>				<b>60</b>
<b>Total number of credits</b>					<b>360</b>	<b>30,105-30,180</b>

## Bachelor of Science (Biology)

Yr	Sem	Subject Code	Subject name	Pre-requisites	Credit Points	FEE
1	1	SCI107	Scientific and Analytical Skills	NIL	15	1,245
		MAT131	Mathematics for Scientists	NIL	15	1,245
		BIO121	Biology of Cell and Organism	NIL	15	1,245
		PHY113	Principles of Physics	NIL	15	1,245
		<b>Semester Total</b>				
	2	CHE109	Inorganic and Physical Chemistry I	NIL	15	1,245
		CHE111	Organic Chemistry I	NIL	15	1,245
		BIO123	Life on Earth	NIL	15	1,245
		PHY115	Thermodynamics and Modern Physics	NIL	15	1,245
		<b>Semester Total</b>				
					<b>120</b>	<b>9,960</b>
2	3	SCI205	Research Methods and Experimental Design	NIL	15	1,245
		CHE207	Instrumental Analysis	SCI107	15	1,245
		BIO219	Biochemistry & Molecular Biology	BIO121	15	1,245
		BIO221	Human Anatomy, Physiology & Pharmacology	BIO121	15	1,245
		<b>Semester Total</b>				
	4	ENV219	Ecology and Environmental Systems	NIL	15	1,245
		BIO223	Marine Biology	NIL	15	1,245
		BIO225	Microbiology	NIL	15	1,245
		MED209	Human Health & Disease	BIO121	15	1,245
		<b>Semester Total</b>				
					<b>240</b>	<b>19,920</b>
3	5	SCI319	Science Communication	Nil	15	1,245
		SCI321	Research Project	SCI205	15	1,245
			Choose from list below		15	1,245
			Choose from list below		15	1,245
		<b>Semester Total</b>				
	6	SCI323	Science and Society	Nil	15	1,245
		SCI321	Research Project (continuing)		15	1,245
			Choose from list below		15	1,245
			Choose from list below		15	1,245
		<b>Semester Total</b>				
<b>Total number of credits</b>					<b>360</b>	<b>29,880</b>

## Bachelor of Science (Chemistry)

Yr	Sem	Subject Code	Subject name	Pre-requisites	Credit Points	FEE
1	1	SCI107	Scientific and Analytical Skills	NIL	15	1,245
		MAT131	Mathematics for Scientists	NIL	15	1,245
		BIO121	Biology of Cell and Organism	NIL	15	1,245
		PHY113	Principles of Physics	NIL	15	1,245
		<b>Semester Total</b>				<b>4,980</b>
	2	CHE109	Inorganic and Physical Chemistry I	NIL	15	1,245
		CHE111	Organic Chemistry I	NIL	15	1,245
		BIO123	Life on Earth	NIL	15	1,245
		PHY115	Thermodynamics and Modern Physics	NIL	15	1,245
		<b>Semester Total</b>				<b>4,980</b>
					<b>120</b>	<b>9,960</b>
2	3	SCI205	Research Methods and Experimental Design	NIL	15	1,245
		CHE207	Instrumental Analysis	SCI107	15	1,245
		CHE209	Organic Chemistry II	CHE111	15	1,245
		CHE211	Environmental Chemistry	NIL	15	1,245
		<b>Semester Total</b>				<b>4,980</b>
	4	CHE213	Fundamentals of Analytic Chemistry	NIL	15	1,245
		CHE219	Material Science	NIL	15	1,245
		CHE215	Medicinal Chemistry	CHE209	15	1,245
		CHE217	Inorganic and Physical Chemistry II	CHE109	15	1,245
		<b>Semester Total</b>				<b>4,980</b>
					<b>240</b>	<b>19,920</b>
3	5	SCI319	Science Communication	Nil	15	1,245
		SCI321	Research Project	SCI205	15	1,245
			Choose from list below	Nil	15	1,245
			Choose from list below	Nil	15	1,245
		<b>Semester Total</b>				<b>4,980</b>
	6	SCI323	Science and Society	Nil	15	1,245
		SCI321	Research Project (continuing)	Nil	15	1,245
			Choose from list below	Nil	15	1,245
			Choose from list below	Nil	15	1,245
		<b>Semester Total</b>				<b>4,980</b>
<b>Total number of credits</b>					<b>360</b>	<b>29,880</b>

## Bachelor of Science (Physics)

Yr	Sem	Subject Code	Subject Name	Pre-requisites	Credit Points	FEE	
1	1	SCI107	Scientific and Analytical Skills	Nil	15	1,245	
		MAT131	Mathematics for Scientists	Nil	15	1,245	
		BIO121	Biology of Cell and Organism	Nil	15	1,245	
		PHY113	Principles of Physics	Nil	15	1,245	
	<b>semester Total</b>					<b>4,980</b>	
	2	2	CHE109	Inorganic and Physical Chemistry I	Nil	15	1,245
			CHE111	Organic Chemistry I	Nil	15	1,245
			BIO123	Life on Earth	Nil	15	1,245
			PHY115	Thermodynamics and Modern Physics	Nil	15	1,245
	<b>semester Total</b>					<b>4,980</b>	
					<b>120</b>	<b>9,960</b>	
2	3	SCI205	Research Methods and Experimental Design	Nil	15	1,245	
		MAT213	Mathematics for Physicist	MAT131	15	1,245	
		ENV219	Green Buildings and Sustainability	Nil	15	1,245	
		ENV221	Earth System Science	Nil	15	1,245	
	<b>semester Total</b>					<b>4,980</b>	
	4	4	PHY211	Electrical Technology	PHY113	15	1,245
			PHY209	Electronics and Electrical Principles	Nil	15	1,245
			PHY213	Power Generation	Nil	15	1,245
			PHY207	Quantum Physics	PHY115	15	1,245
	<b>semester Total</b>					<b>4,980</b>	
					<b>240</b>	<b>19,920</b>	
3	5	SCI319	Science Communication	Nil	15	1,245	
		SCI321	Research Project	SCI205	15	1,245	
			Choose from list below	Nil	15	1,245	
			Choose from list below	Nil	15	1,245	
	<b>semester Total</b>					<b>4,980</b>	
	6	6	SCI323	Science and Society	Nil	15	1,245
			SCI321	Research Project (continuing)	Nil	15	1,245
				Choose from list below	Nil	15	1,245
				Choose from list below	Nil	15	1,245
	<b>semester Total</b>					<b>4,980</b>	
<b>Total number of credits</b>					<b>360</b>	<b>29,880</b>	

## LIST OF ELECTIVES FOR BACHELOR OF SCIENCE

Select 4 electives, maximum 2 subjects of 200 level can be selected

#	Subject Code	Subject name	Pre-requisite	Credit Points	FEE
1	BIO219	Biochemistry and Molecular Biology	BIO121	15	1,245
2	BIO221	Human Anatomy, Physiology and Pharmacology	BIO121	15	1,245
3	ENV223	Ecology and Environmental Systems	Nil	15	1,245
4	BIO223	Marine Biology	Nil	15	1,245
5	BIO225	Microbiology	Nil	15	1,245
6	BIO2XX	Human Health and Disease	BIO121	15	1,245
7	BIO303	Concepts of Forensic Biology	BIO121	15	1,245
8	BIO305	Applied Ecology	Nil	15	1,245
9	BIO307	Marine Ecosystems	Nil	15	1,245
10	BIO309	Biodiversity and Conservation	Nil	15	1,245
11	BIO3XX	Resource Security and Sustainability	Nil	15	1,245
12	BIO311	Food and Environmental Microbiology	BIO225	15	1,245
13	BIO313	Applied Molecular Biology and Bioinformatics	BIO219	15	1,245
14	BIO3XX	Infectious Disease Control	BIO225	15	1,245
15	PUB321	Health Promotion and Public Health	Nil	15	1,245
17	BIO315	Blood and Tissue Science	BIO221	15	1,245
18	BIO317	Pharmacology and Toxicology	BIO221	15	1,245
19	CHE207	Instrumental Analysis	SCI107	15	1,245
20	CHE209	Organic Chemistry II	CHE111	15	1,245
21	CHE211	Environmental Chemistry	Nil	15	1,245
22	CHE213	Fundamentals of Analytical Chemistry	Nil	15	1,245
23	CHE219	Material Science	Nil	15	1,245
24	CHE215	Medicinal Chemistry	CHE111	15	1,245
25	CHE217	Inorganic and Physical Chemistry II	CHE109	15	1,245
26	CHE301	Plant and Soil Science	Nil	15	1,245
27	CHE303	Forensic Chemistry	CHE207	15	1,245
28	CHE305	Food Chemistry and Analysis	Nil	15	1,245
29	CHE307	Analytical Chemistry	Nil	15	1,245
30	ENV219	Green Buildings and Sustainability	Nil	15	1,245
31	ENV221	Earth System Science	Nil	15	1,245
32	PHY211	Electrical Technology	PHY113	15	1,245
33	PHY209	Electronics and Electrical Principals	Nil	15	1,245
34	PHY213	Power Generation	Nil	15	1,245
35	PHY207	Quantum Physics	PHY115	15	1,245
36	PHY301	Simulations	Nil	15	1,245
37	PHY303	Atmosphere and Oceans	PHY2XX	15	1,245
38	PHY305	Medical Physics	PHY113	15	1,245
39	PHY311	Electronics	PHY2XX	15	1,245
40	PHY303	Mechatronics	PHY113	15	1,245
41	PHY313	Telecommunication Systems	PHY113	15	1,245
42	PHY307	Renewable Energy	Nil	15	1,245
43	PHY309	Digital Circuits	Nil	15	1,245
44	ENV319	Earth System Science	Nil	15	1,245
45	ENV321	Fisheries Management and Agriculture	Nil	15	1,245
46	ENV323	Pollution Prevention and Control	Nil	15	1,245
47	ENV325	Meteorology	Nil	15	1,245
48	ENV221	Geographic Information System (GIS) and Remote Sensing	Nil	15	1,245

## Advanced Diploma in Environmental Management Bachelor of Environmental Management

Yr	Sem	Subject Code	Subject Name	Pre-requisite	Credit Points	FEE	
1	1	BIO123	Life on Earth	Nil	15	1,245	
		SCI107	Scientific and Analytical Skills	Nil	15	1,245	
		ENV101	Global Environmental issues in a local context	Nil	15	1,245	
		ENV105	Environment and Community Health	Nil	15	1,245	
		DHI113	Dhivehi for Professional	Nil	Non-credit		
	<b>Semester Total</b>						<b>4,980</b>
	2	ENV111	Field Techniques	Nil	15	1,245	
		ENV103	Introduction to earth and marine sciences	Nil	15	1,245	
		ENV109	Sustainable Human Development	Nil	15	1,245	
		BIO103	Plants and Ecology	Nil	15	1,245	
<b>Semester Total</b>						<b>4,980</b>	
2	3	BIO211	Fisheries Biology	Nil	15	1,245	
		ENV209	Natural Resource Management	Nil	15	1,245	
		ENV215	Geographic Information System	Nil	15	1,245	
		BIO219	Ecology and Environmental Systems	Nil	15	1,245	
		<b>Semester Total</b>					
	4	ENV201	Environmental Impact Assesment	Nil	15	1,245	
		ENV205	Ecotourism and Environmental Interpretation	Nil	15	1,245	
		SCI205	Research Methods and Experimental Design	Nil	15	1,245	
			Elective 1	Nil	15	1,245	
		<b>Semester Total</b>					
<b>EXIT: Advanced Diploma in Environmental Management</b>					<b>240</b>	<b>19,920</b>	
3	5	ENV305	Community Development and Education for the Environment	Nil	15	1,245	
		ENV311	Strategic Environmental Assessment and Planning	Nil	15	1,245	
		SCI321	Research Project	SCI205, SCI107	30	2,490	
			Elective 2		15	1,245	
		<b>Semester Total</b>					
	6	SCI321	Research Project			-	
		ENV329	Marine pollution	Nil	15	1,245	
			Elective 3		15	1,245	
			Elective 4		15	1,245	
		ENV331	Affiliate Internship Programme **		Non-credit		
<b>Semester Total</b>						<b>3,735</b>	
<b>Total Credit</b>					<b>360</b>	<b>29,880</b>	

**List of Electives (Choose 2 from the list below)**

#	Subject Code	Subject name	Pre-requisites	Credit Points	FEE
1	BIO203	Conservation Biology	Nil	15	1,245
2	CHE201	Fundamentals of Environmental Chemistry	Nil	15	1,245
3	BIO209	Marine Systems Science	Nil	15	1,245
4	ENV301	Integrated Marine and Coastal Management	Nil	15	1,245
5	ENV333	Climate Change and Adaptation	Nil	15	1,245
6	ENV307	Environmental Economics Policy and Law	Nil	15	1,245
7	ENV335	Fisheries Management	Nil	15	1,245
8	ENV203	Integrated Waste Management	Nil	15	1,245
9	PHY303	Atmosphere and Oceans	Nil	15	1,245
10	SCI323	Science and Society	Nil	15	1,245
11	BIO307	Marine Ecosystems	Nil	15	1,245



## Bachelor of Marine Science

Yr	emest	Subject Code	Subject name	Pre-requisites	Credit Points	FEE
1	1	BIO123	Life on Earth	Nil	15	1,245
		SCI107	Scientific and Analytical Skills	Nil	15	1,245
		ENV101	Global Environmental Issues in a Local Context	Nil	15	1,245
		CHE113	General Chemistry	Nil	15	1,245
		<b>Semester Total</b>				<b>60</b>
	2	ENV111	Field Techniques	Nil	15	1,245
		ENV103	Introduction to Earth and Marine Sciences	Nil	15	1,245
		BIO121	Biology of Cells and Organisms	Nil	15	1,245
		BIO103	Plants and Ecology	Nil	15	1,245
		<b>Semester Total</b>				<b>60</b>
2	3	BIO211	Fisheries Biology	BIO121	15	1,245
		ENV209	Natural Resource Management	Nil	15	1,245
		ENV215	Geographic Information System	Nil	15	1,245
		BIO219	Ecology and Environmental Systems	Nil	15	1,245
		<b>Semester Total</b>				<b>60</b>
	4	BIO209	Marine Systems Science	Nil	15	1,245
		ENV205	Ecotourism and Environmental Interpretation	Nil	15	1,245
		SCI205	Research Methods and Experimental Design	Nil	15	1,245
			Elective1		15	1,245
		<b>Semester Total</b>				<b>60</b>
3	5	ENV327	Coral Reef Biology, Ecology and Management	BIO121	15	1,245
		SCI321	Research Project *	SCI205, SCI10	30	2,490
		SCI323	Science and Society	Nil	15	1,245
			Elective2		15	1,245
		<b>Semester Total</b>				<b>75</b>
	6	SCI321	Research Project * (continuation)			-
		ENV329	Marine pollution	Nil	15	1,245
			Elective 3		15	1,245
			Elective 4		15	1,245
		ENV331	Affiliate Internship Programme **	After starting 2nd Year		
<b>Semester Total</b>				<b>45</b>	<b>3,735</b>	
<b>Course Total</b>					<b>360</b>	<b>29,880</b>

### List of Electives (Choose 2 from the list below)

#	Subject Code	Subject name	Pre-requisites	Credit Points	FEE
1	ENV203	Conservation Biology	Nil	15	1,245
2	CHE211	Environmental Chemistry	Nil	15	1,245
3	ENV301	Integrated Marine and Coastal Management	Nil	15	1,245
4	ENV333	Climate Change and Adaptation	Nil	15	1,245
5	ENV307	Environmental economics policy and law	Nil	15	1,245
6	PHY303	Atmosphere and Oceans	Nil	15	1,245
7	BIO307	Marine Ecosystems	Nil	15	1,245
8	ENV301	Fisheries Management	Nil	15	1,245
9	ENV305	Community Development	Nil	15	1,245

