# **Course Structure**

# Bachelor of Engineering in Electrical and Electronics Engineering (Hons) Faculty of Engineering, Science and Technology



#### Semester 1

Туре	Code	Name	Prerequisites	Credit Points	Fee (MVR)
CORE	EGR101	Introduction to Engineering and practices	Nil	15	1,245
CORE	PHY117	Physics for Engineers	Nil	15	1,245
CORE	MAT135	Engineering Mathematics I	Nil	15	1,245
CORE	DHI113	Dhivehi for Professionals	Nil	15	1,245
Semes	Semester Total			60	4,980

#### Semester 2

Туре	Code	Name	Prerequisites	Credit Points	Fee (MVR)
CORE	ELE131	Electrical and Electronics Principles		15	1,245
CORE	MAT137	Engineering Mathematics II		15	1,245
CORE	PHY119	Fundamentals of Semiconductor devices		15	1,245
CORE	CPT151	Programming for Engineers		15	1,245
Semes	ter Total			60	4,980

#### **Semester 3**

Туре	Code	Name	Prerequisites	Credit Points	Fee (MVR)
CORE	PHY205	Digital circuits 1		15	1,245
CORE	ELE221	Electrical circuits and systems		15	1,245
CORE	STA213	Statistics for Engineers		15	1,245
CORE	CPT243	Computer Organization and Architecture 1		15	1,245
Semes	ter Total			60	4,980

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#### Semester 4

Туре	Code	Name Prerequisites	Credit Points	Fee (MVR)
CORE	EGR201	Engineering Computations	15	1,245
CORE	ELE223	Analogue and Digital communications	15	1,245
CORE	ELE225	Electrical Machines and Drives	15	1,245
CORE	EGR203	Capstone project	15	1,245
CORE	EGR205*	Industrial Training I	Non-credit	0
Semeste	r Total		60	4,980
Exit with Diploma in Electrical and Electronic Engineering after successful completion		240	19,920	

#### Semester 5

Туре	Code	Name	Prerequisites	Credit Points	Fee (MVR)
CORE	ELE301	Artificial Intelligence and Machine Learning		15	1,245
CORE	ELE303	Signal and systems		15	1,245
CORE	ELE305	Electrical Energy systems		15	1,245
ELECTIVE		Elective 1		15	1,245
Semester Total			60	4,980	

## Semester 6

Туре	Code	Name	Prerequisites	Credit Points	Fee (MVR)
CORE	EGR301	Engineering management		15	1,245
CORE	PHY307	Renewable Energy		15	1,245
CORE	ELE307	Digital Signal and Image Processing		15	1,245
ELECTIVE		Elective 2		15	1,245
Semester Total			60	4,980	

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#### Semester 7

Туре	Code	Name	Prerequisites	Credit Points	Fee (MVR)
CORE	ELE401	Control System Design and analysis		15	1,245
CORE	ELE403	Microprocessor systems		15	1,245
CORE	EGR401	Thesis I		15	1,245
ELECTIVE		Elective 1		15	1,245
Semester Total		60	4,980		

#### Semester 8

Туре	Code	Name	Prerequisites	Credit Points	Fee (MVR)
CORE	EGR403	Thesis II		15	1,245
CORE	ELE415	Digital system design		15	1,245
ELECTIVE		Elective 1		15	1,245
ELECTIVE		Elective 1		15	1,245
CORE	EGR405**	Industrial Training II		Non-credit	0
Semester Total			60	4,980	

## **Elective 1**

Туре	Code	Name	Prerequisites	Credit Points	Fee (MVR)
ELECTIVE	ELE405	Analogue CMOS IC Design and applications		15	1,245
ELECTIVE	ELE407	Communication systems engineering		15	1,245
ELECTIVE	ELE409	Power electronics		15	1,245
ELECTIVE	ELE411	Sensors and Instrumentation		15	1,245
ELECTIVE	ELE413	Antennas and Microwave Engineering		15	1,245
ELECTIVE	ELE309	Microcontroller engineering		15	1,245

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#### **Elective 2**

Туре	Code	Name	Prerequisites	Credit Points	Fee (MVR)
ELECTIVE	CPT327	Human Computer Interaction		15	1,245
ELECTIVE	CPT239	Operating System		15	1,245
ELECTIVE	CPT205	Object Oriented Programming		15	1,245
ELECTIVE	CPT245	Software Engineering		15	1,245
ELECTIVE	CPT203	Data Structures and Algorithms		15	1,245
ELECTIVE	ENV215	Geographic Information Systems (GIS)		15	1,245
ELECTIVE	ENV219	Green building and sustainability		15	1,245
Course Tot	al			480	39,840

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

While every reasonable effort has been exerted to ensure the accuracy of the fees published by the Maldives National University, it is important to note that the University reserves the prerogative to modify fees without prior notification, whether prompted by altered circumstances or otherwise. Applicants are hereby alerted to the fact that the outlined plans for various courses (including but not limited to lecturers and terms) as disclosed in the University's publications are indicative of intent. Such representations shall not be construed as constituting a binding offer or covenant for which the University assumes liability. Should you desire to pursue a specific subject as an elective, it is incumbent upon you to verify its availability in the respective term. In the event of any verbal communication from a University representative conflicting with a document officially published by the University, the latter shall be deemed authoritative.

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