

# Master of Science in Clean Energy Technologies

(2 years) [Sri Lanka Qualification Framework (SLQF) Level 10]

## First Year

No.	Course code	Course Title	Contact hours		Notional hrs	No. of Credits
			Theory	Practical		
1.	MCET 101 03	Essential science for Energy Technologies	45	-	150	03
2.	MCET 102 03	Wind Energy Technologies	30	-	100	02
3.	MCET 103 02	Instrumentation and Characterization Techniques	45	-	150	03
4.	MCET 104 03	Solar Energy Technologies	45	-	150	03
5.	MCET 105 03	Hydrogen Energy Technologies	45	-	150	03
6.	MCET 106 02	Lab based short projects <sup>1,2</sup>	-	-	200	02
7.	MCET 107 02	Energy Storage Technologies	30	-	100	02
8.	MCET 108 02	Marine and Hydro Energy Technologies	30	-	100	02
9.	MCET 109 02	Bioenergy Technologies	30	-	100	02
10.	MCET 110 03	Grid Integration of Clean Energy System	30	45	150	03
11.	MCET 111 02	Project Development and Management	30	-	100	02
12.	MCET 112 01	Industrial training in clean energy plants <sup>2</sup>	-	-	100	01
13.	MCET 113 02	Group research project <sup>2</sup>	-	-	200	02
<b>Total</b>						<b>30</b>

<sup>1</sup> to be conducted during first and second semester, <sup>2</sup>Independent learning

## Second Year

No.	Course code	Course Title	Contact hours		Notional hrs	No. of Credits
			Theory	Practical		
14.	MCET 214 03	Nanomaterials for Energy Harvest and Storage	30	45	150	03
15.	MCET 215 03	Mathematical modelling for Clean energy technologies	15	90	150	03
16.	MCET 216 02	Critical review on a research topic	15	45	100	02
17.	MCET 217 02	Research Ethics, Proposal Writing and presentation	15	45	150	02
18.	MCET 216 20	Research project <sup>2</sup>	-	-	2000	20
<b>Sub-total</b>						<b>30</b>
<b>Total</b>						<b>60</b>

<sup>2</sup>Independent learning