

# Programme Guide for Postgraduate Taught Programmes Engineering & Physical Sciences Dubai Campus

**Academic Year 202425** 

**Academic Year Calendar for 202425** 

[Students are encouraged to check the Academic Calendar and be familiarise with the dates]

### Programme List

MSc / Postgraduate Diploma in Energy	3
Full Time	3
Part-Time	4
New Students	4
Continuing Students	4
MSc / Postgraduate Diploma in Renewable Energy Engineering	6
Full Time	6
Part-Time	7
New Students	7
Continuing Students	7
MSc in Global Sustainability Engineering	9
Full Time	9
Part-Time	10
New Students	10
Continuing Students	10
MSc Robotics	12
Full Time	12
Part-Time	13
New Students	13
Continuing Students	13

# MSc / Postgraduate Diploma in Energy

Programm	ne Name	:	MSc in Energy				
Programm	ne Code	:	B5B7-ENE				
Mode of S	tudy	:	Full Time				
	Key Contacts						
Programm	e Director	D	r Mutasim Nour	mutasim.nou	ır@hw.a	ıc.uk	
Dissertation	on Coordinator	D	r Mutasim Nour	mutasim.nou	ır@hw.a	ıc.uk	
Course Code	Course Title			Mandatory /Optional	Year	Semester	Semester Dates
	September Se	em	ester – 1 Mandatory ar	nd 3 Optional	Cours	e(s)	
B51ET	Foundations of Energy			Mandatory	1	September	
B31GA	Elect. Power Syst.			Optional	1	September	
B51GE	Renewable Energy Tech.			Optional	1	September	
B51GG	CFD and Heat Transfer			Optional	1	September	Sep 2024
B51GL	Economics Ren Energy	Optional	1	September	То		
B51TE	Heat Exchangers and HT			Optional	1	September	Dec 2024
D11VE	Vent & Air Conditioning(P)			Optional	1	September	
C11EF	Entrepreneurship & Creativ	ity		Optional	1	September	
D11CA	Climate Change Sustain Ada	apt		Optional	1	September	
	January Se	m	ester – 2 Mandatory an	d 2 Optional	Course	s	
B51GI	Tech Futures and Bus.			Mandatory	1	January	
B81EZ	Critical Analysis and Res Pre	9		Mandatory	1	January	Jan 2025
B51GH	Env Impact Assess			Optional	1	January	to
B51GK	Dem Mgmnt and Energy Sto	ora	ge	Optional	1	January	Apr 2025
B51TF	Adv Thermodynamic Applic	Optional	1	January	Apr 2023		
D11SB Energy Systems and Bldgs(U)			Optional	1	January		
		1 N	landatory Course [App		VISc St		
B51MD	Master Dissertation			Mandatory	1	May	June 2025
							to
							Aug 2025

Programn	ne Name	:	MSc in Energy				
Programn	ne Code	:	B5B7-ENE				
Mode of 9	Study	:	Part-Time				
			Key Conta	cts			
Programn	ne Director	D	r Mutasim Nour	mutasim.nour	·@hw.ac	<u>.uk</u>	
Dissertati	on Coordinator	С	r Mutasim Nour	mutasim.nour	@hw.ac	.uk	
Course Code	Course Title			Mandatory/ Optional		Semester	Semester Dates
New Students							
			Stage 1 - Firs				
		ter –	1 Mandatory and 1		<u> Optiona</u>		
B51ET	Foundations of Energy			Mandatory	1	September	
B31GA	Elect. Power Syst.			Optional	1	September	
B51GE	Renewable Energy Tech			Optional	1	September	
B51GG	CFD and Heat Transfer			Optional	1	September	Sep 2024
B51GL	Economics Ren Energy			Optional	1	September	То
B51TE	Heat Exchangers and H			Optional	1	September	Dec 2024
D11VE	Vent & Air Conditioning	(P)		Optional	1	September	
C11EF	Entrepreneurship & Creativity			Optional	1	September	
D11CA	Climate Change Sustain			Optional	1	September	
		ester	- B51GI and 1 Opti		nal Co	urse(s)	
B51GI	Tech Futures and Bus.			Mandatory	1	January	
B81EZ	Critical Analysis and Res	Prepa	aration*	Mandatory	1	January	Jan 2025
B51GH	Env Impact Assess			Optional	1	January	to
B51GK	Dem Mgmnt and Energy	/ Stora	ige	Optional	1	January	Apr 2025
B51TF	Adv Thermodynamic Ap	plicati	ons	Optional	1	January	7 Apr 2023
D11SB	Energy Systems and Bld	gs(U)		Optional	1	January	
* <u>Note</u> : Ne	ew students need to regist	er <b>B81</b>	.EZ only in Second Yea  Continuing St		er.		
			Stage 1 - Seco				
[Re	September Semes gister for Mandatory co		1 Mandatory and 1 if you have not reg				
B51ET	Foundations of Energy			Mandatory	2	September	
B31GA	Elect. Power Syst.			Optional	2	September	
B51GE	Renewable Energy Tech			Optional	2	September	
B51GG	CFD and Heat Transfer			Optional	2	September	Sep 2024
B51GL	Economics Ren Energy			Optional	2	September	То
B51TE	Heat Exchangers and H	Heat Exchangers and HT				September	Dec 2024
D11VE	Vent & Air Conditioning	(P)		Optional	2	September	
C11EF	Entrepreneurship & Cre	<u>ativ</u> ity	,	Optional	2	September	
D11CA	Climate Change Sustain	Adapt		Optional	2	September	

	January Semester – B81EZ and 1 Mandatory/Optional Course(s)							
[Register for Mandatory course if you have not registered those in your First Year]								
B51GI	Tech Futures and Bus.	Mandatory	2	January				
B81EZ	Critical Analysis and Res Preparation*	Mandatory	2	January	lan 2025			
B51GH	Env Impact Assess	Optional	2	January	Jan 2025			
B51GK	Dem Mgmnt and Energy Storage	Optional	2	January	to Apr 2025			
B51TF	Adv Thermodynamic Applications	Optional	2	January	Apr 2025			
D11SB	Energy Systems and Bldgs(U)	Optional	2	January				

\*Note: Continuing students MUST register for B81EZ this semester, as it will be their final taught semester.

	May Semester- 1 Mandatory Course [Applicable only for MSc Students]							
B51MD	Master Dissertation	Mandatory	2	May	June 2025			
					to			
					Dissertation			
					Deadline			

**Note**: Dissertation deadline will be communicated by dissertation supervisor or school admin.

#### MSc / Postgraduate Diploma in Renewable Energy Engineering

Programn	ne Name	:	MSc in Renewable Ener	gy Engineering			
Programn	ne Code		B5E7-REE				
Mode of Study :			Full Time				
			Key Contacts				
Programn	ne Director	D	r Mutasim Nour	mutasim.no	ur@hw.	ac.uk	
Dissertati	on Coordinator	D	r Mutasim Nour	mutasim.no	ur@hw.	ac.uk	
Course Code	Course Title			Mandatory /Optional	Year	Semester	Semester Dates
	September S	Sem	ester – 3 Mandatory a	nd 1 Optiona	Cours	se(s)	
B51ET	Foundations of Energy			Mandatory	1	September	
B51GE	Renewable Energy Techno	Renewable Energy Technologies			1	September	
B51GL	Economics Ren Energy			Mandatory	1	September	Sep 2024
B31GA	Electrical Power Systems			Optional	1	September	То
B51GG	Computational Fluid Dyna	mics	with Heat Transfer	Optional	1	September	Dec 2024
B51TE	Heat Exchangers and Heat	Tra	nsfer	Optional	1	September	
D11CA	Climate change, Sustainab	ility	and Adaptation	Optional	1	September	
	January S	eme	ester – 2 Mandatory a	nd 2 Optional	Cours	es	
B51GF	Advanced Renewable Ene	rgy E	Engineering	Mandatory	1	January	
B81EZ	Critical Analysis and Resea	rch	Preparation	Mandatory	1	January	Jan 2025
B51GH	Environmental Impact Ass	essr	nent	Optional	1	January	to
B51GK	Demand Management and	d En	ergy Storage	Optional	1	January	Apr 2025
B51TF	B51TF Advanced Thermodynamic Applications			Optional	1	January	
	May Semester – 1	Ma	andatory Course [App	licable only to	MSc :	Students]	
B51MD	Master's Dissertation			Mandatory	1	May	June 2025 to Aug 2025

Programn	ne Name	<u> </u>	MSc in Renewable Ener	gy Engineerin	g		
Programn	ne Code	:	B5E5-REE				
Mode of 9	Study	:	Part-Time				
			Key Contacts	;			
Programn	ne Director	D	r Mutasim Nour		mutasim.	nour@hw.ac.ul	<
Dissertation	on Coordinator	D	r Mutasim Nour		mutasim.	nour@hw.ac.ul	<
Course	Course Title			Mandatory	y Year	Semester	Semester
Code				/Optional			Dates
			New Studen	:S			
			Stage 1 - First '				
	September Seme	ester –	2 Mandatory OR 1 Ma	ndatory and	1 Option	nal Course(s)	
B51ET	Foundations of Energy	v		Mandatory	, l	September	
B51GE	Renewable Energy Te		es*	Mandatory	_	September	1
B51GL	Economics Ren Energy			Mandatory		September	Sep 2024
B31GA	Electrical Power Syste			Optional	1	September	To
B51GG	Computational Fluid D		s with Heat Transfer	Optional	1	September	Dec 202
B51TE	Heat Exchangers and	Optional	1	September			
D11CA	Climate change, Susta			Optional	1	September	
B51GF in .	January semester.  January Seme	ester –1	Mandatory and 1 Op	ional OR 2 (	Optional	Course(s)	
B51GF	Advanced Renewable	Energy I	Engineering	Mandatory	1	January	
B81EZ	Critical Analysis and R	esearch	Preparation*	Mandatory	1	January	Jan 2025
B51GH	Environmental Impact	Assessr	nent	Optional	1	January	to
B51GK	Demand Managemen			Optional	1	January	Apr 2025
B51TF	Advanced Thermodyn	amic Ap	plications	Optional	1	January	
*Note: Ne	ew students need to regi	ster for	B81EZ only in Second Yea	r January Sen	nester.		
			Continuing Stud	ents			
			Stage 1 - Second				
	September Sem	ester- 2	2 Mandatory OR 1 Mai		1 Option	nal Course(s)	
[F	Register for Mandato	ry cour	ses if you have not re	gistered tho	se in Fir	st Academic	Year]
B51ET	Foundations of Energy	y		Mandatory	, 2	September	
B51GE	Renewable Energy Te		es	Mandatory	_	September	1
B51GL	Economics Ren Energy			Mandatory		September	Sep 2024
B31GA	Electrical Power Syste			Optional	2	September	To
B51GG	Computational Fluid D		s with Heat Transfer	Optional	2	September	Dec 202
	<u> </u>	+ •		<del>- '</del>	<b>∃</b>		

\*B51GE is a prerequisite for B51GF, and students must register for B51GE this semester if they are registering for B51GF in January semester.

Optional

Optional

2

2

September

September

B51TE

D11CA

Heat Exchangers and Heat Transfer

Climate change, Sustainability and Adaptation

re	January Semester – B81EZ and 1 Mandatory / Optional Course								
[Register for Mandatory courses if you have not registered those in First Academic Year]  B51GF Advanced Renewable Energy Engineering Mandatory 2 January									
B51GF	, , , , ,								
B81EZ	Critical Analysis and Research Preparation*	Mandatory	2	January	Jan 2025				
B51GH	Environmental Impact Assessment	Optional	2	January	to				
B51GK	Demand Management and Energy Storage	Optional	2	January	Apr 2025				
B51TF Advanced Thermodynamic Applications Optional 2 January									
*Note: Co	ntinuing students MUST register for B81EZ this semester, a  May Semester – 1 Mandatory Course [Appli								
B51MD	Master's Dissertation	Mandatory	2	May	June 2025				
					То				
					Dissertation				
					Deadline				
Note: Diss	Note: Dissertation deadline will be communicated by dissertation supervisor or school admin.								

# MSc in Global Sustainability Engineering

Programm	e Name	:	MSc in Global Sustainabil	ity Enginee	rin	g		
Programm		:	B478-SUE	, ,		<u> </u>		
Mode of S		:	Full Time					
			Key Contacts					
Programm	e Director	D	r Vahid Razaviarani		٧.	Razaviaı	rani@hw.ac.uk	
Dissertation	on Coordinator	D	r Vahid Razaviarani		٧.	Razaviai	rani@hw.ac.uk	
Course Code	Course Title			Mandato /Optional	_	Year	Semester	Semester Dates
	September S	en	nester – 3 Mandatory ar	nd 1 Optio	na	I Cours	se(s)	
D11CA	Climate Change, Sustainabi	lity	and Adaptation	Mandato	ry	1	September	
B410B	Process Engineering A			Mandato	ry	1	September	Sep 2024
B51ET	Foundations of Energy			Mandato	ry	1	September	То
B51GE	Renewable Energy Technol	ogi	es	Optional		1	September	Dec 2024
B41CE	The Circular Economy			Optional		1	September	
		m	ester – 3 Mandatory an	d 1 Option	nal	Course	es	
B41SP	Sustainable Processing			Mandato	ry	1	January	
B51GH	Environmental Impact Asse	ssn	nent	Mandato	ry	1	January	
B81EZ	Critical Analysis and Resear	ch	Preparation	Mandato	ry	1	January	Jan 2025
B41CS	Carbon Solutions			Optional		1	January	to
C11GL	Green and Sustainable Logi	stic	CS	Optional		1	January	Apr 2025
B51GI	Technology Futures and Bu	sin	ess Strategy	Optional		1	January	
B51GK	.GK Demand Management and Energy Storage			Optional		1	January	
		Ma	andatory Course [Appli			1	Students]	
B41SD	Sustainability Dissertation			Mandato	ry	1	May	June 2025
								to
								Aug 2025

Programn	ne Name	:	MSc in Global Sustainabi	lity Enginee	erin	ng		
Programn	ne Code	:	B478-SUE					
Mode of S	Study	:	Part-Time					
	Key Contacts							
Programn	ne Director	D	r Vahid Razaviarani		V	.Razaviaı	rani@hw.ac.ul	(
Dissertati	on Coordinator	D	r Vahid Razaviarani		V	.Razaviaı	rani@hw.ac.ul	ζ
Course Code	Course Title			Mandato /Optiona	ry			Semester Dates
			New Students	5				
			Stage 1 - First Yo					
	September Semester	· — :	2 Mandatory OR 1 Man	datory and	d 1	Option	al Course(s	)
D11CA	Climate Change, Sustainabi	ility	and Adaptation	Mandato	ry	1	September	
B410B	Process Engineering A			Mandato		1	September	Sep 2024
B51ET	Foundations of Energy			Mandato	ry	1	September	То
B51GE	Renewable Energy Technol	ogi	es	Optional		1	September	Dec 2024
B41CE	The Circular Economy			Optional		1	September	
		<u> </u>	Mandatory OR 1 Manda					T
B41SP	Sustainable Processing			Mandato		1	January	
B51GH	Environmental Impact Asse	essr	nent	Mandato	ry	1	January	
B81EZ	Critical Analysis and Resear	rch	Preparation*	Mandato	ry	1	January	Jan 2025
B41CS	Carbon Solutions			Optional		1	January	to
C11GL	Green and Sustainable Log	istic	CS CS	Optional		1	January	Apr 2025
B51GI	Technology Futures and Bu	ısin	ess Strategy	Optional		1	January	
B51GK	Demand Management and	En	ergy Storage	Optional		1	January	
*Note: Ne	ew students need to register f	for	B81EZ only in Second Year	January Se	me	ester.		
			Continuing Stude	ents				
			Stage 1 - Second	Year				
	September Semester	· — ;	2 Mandatory OR 1 Man		d 1	Option	nal Course(s	)
[F	Register for Mandatory co	our	ses if you have not reg	istered th	os	e in Fir	st Academic	Year]
D11CA	Climate Change, Sustainabi	ility	and Adaptation	Mandato	ry	2	September	
B410B	Process Engineering A			Mandato	ry	2	September	Sep 2024
B51ET	Foundations of Energy			Mandato	ry	2	September	То
B51GE	Renewable Energy Technol	ogi	es	Optional		2	September	Dec 2024
B41CE	The Circular Economy			Optional		2	September	
			ter – B81EZ and 1 Mand					.,
	Register for Mandatory co	our	ses if you have not reg					Yearj
B41SP	Sustainable Processing			Mandato		2	January	
B51GH	Environmental Impact Asse			Mandato	•	2	January	1- 2025
B81EZ	Critical Analysis and Resear	cn	rreparation*	Mandato	ry	2	January	Jan 2025
B41CS	Carbon Solutions			Optional		2	January	to
C11GL	Green and Sustainable Log			Optional		2	January	Apr 2025
B51GI	Technology Futures and Bu	ısın	ess Strategy	Optional		2	January	

B51GK	Demand Management and Energy Storage	Optional	2	January				
*Note: Continuing students MUST register for B81EZ this semester, as it will be their final taught semester.								
	May Semester – 1 Mandatory Course [Appli	icable only to	O IVISC	Studentsj				
B41SD	Sustainability Dissertation	Mandatory	2	May	June 2025			
					to			
					Dissertation			
	Deadline							
Note: Diss	Note: Dissertation deadline will be communicated by dissertation supervisor or school admin.							

#### **MSc Robotics**

Programme Name	:	MSc Robotics					
Programme Code	:	B320-RAI					
Mode of Study	:	Full Time					
Key Contacts							
Programme Director	[	r Nidhal Abdulaziz	na2050@hw.ac.uk				
Dissertation Coordinator		or Nidhal Abdulaziz	na2050@hw.ac.uk				

Dissertation Coordinator		Dr Nidhal Abdulaziz	na	na2050@hw.ac.uk				
Course Code	Course Title		Mandatory /Optional	Yea r	Semester	Semester Dates		
September Semester – 2 Mandatory and 2 Optional Course(s)								
B31YS	Robotic System Science		Mandatory	1	September			
F21RO	Intelligent Robotics		Mandatory	1	September Sep 2024 September To September Dec 2024			
F21BC	Biologically Inspired Compu	utation	Optional	1				
B31DD	Embedded Systems		Optional	1				
F21DL	Data Mining and Machine I	earning	Optional	1	September			
January Semester – 2 Mandatory and 2 Optional Course(s)								
B31MV	Machine Vision		Mandatory	1	January			
B51RO	Robotic Mechanical System	ns	Mandatory	1	January	Jan 2025		
B31DG	Embedded Software		Optional	1	January	to		
B81EZ	Critical Analysis and Resea	rch Preparation	Optional	1	January	Apr 2025		
B31SE	Image Processing		Optional	1	January	1		
May Semester – 1 Mandatory Course [Applicable only to MSc Students]								
B31VZ	MSc Project		Mandatory	1	May	June 2025		
						to		
						Aug 2025		

Programme Name		MSc Robotics						
Programme Code		: B320-RAI						
Mode of Study		: Part-Time						
		Key Contacts						
Programn	ne Director	Dr Nidhal Abdulaziz		na2050@	hw.ac.uk			
	on Coordinator	Dr Nidhal Abdulaziz		na2050@	na2050@hw.ac.uk			
Course	Course Title		Mandato		Semester	Semester		
Code		/Optional	r		Dates			
New Students								
		Stage 1 - First Y						
September Semester – 2 Mandatory OR 1 Mandatory & 1 Optional Course(s)								
B31YS	Robotic System Science		Mandator	у 1	September			
F21RO	Intelligent Robotics		Mandator	y 1	September	Sep 2024		
F21BC	Biologically Inspired Computa	ation	Optional	1	September	То		
B31DD	Embedded Systems		Optional	1	September	Dec 2024		
F21DL	Data Mining and Machine Le		Optional	1	September			
January Semester – 2 Mandatory OR 1 Mandatory & 1 Optional Course(s)								
B31MV	Machine Vision		Mandator	y 1	January			
B51RO	Robotic Mechanical Systems	Robotic Mechanical Systems			January	Jan 2025		
B31DG	Embedded Software	Optional	1	January	to			
B81EZ	Critical Analysis and Researc	Optional	1	January	Apr 2025			
B31SE	Image Processing			1	January			
* <u>Note</u> : If E	B31EZ is one of the chosen Opt	ional courses, please registe	er it only in tl	he Second	Year January S	emester.		
		Continuing Stude	ents					
		Stage 1 - Second	Year					
· ·		- 2 Mandatory OR 1 Ma				Veer1		
B31YS	Register for Mandatory coul Robotic System Science	rses ii you have not reg	Mandator		September	rearj		
F21RO	Intelligent Robotics		Mandator	<i>-</i>	September	Sep 2024		
F21RC F21BC	Biologically Inspired Computa	ation	Optional	2	September	To		
B31DD	Embedded Systems	20011	Optional	2	September	Dec 2024		
F21DL	Data Mining and Machine Le	arning	Optional	2	September	1 200 2024		
-101		2 Mandatory OR 1 Mand						
[R	Register for Mandatory cou				<b>\</b> /	Year]		
B31MV	Machine Vision		Mandator	<del></del>	January	-		
B51RO	Robotic Mechanical Systems		Mandator	y 2	January	Jan 2025		
B31DG	Embedded Software		Optional	2	January	to		
03100	Critical Analysis and Researc	h Prenaration*	Optional	2	January	Apr 2025		
B81EZ	Cittical Alialysis and Researc	ii i i eparation	Optional					

May Semester- 1 Mandatory Course						
B31VZ	MSc Project	Mandatory	2	May	June 2025	
					to	
					Dissertation	
					Deadline	
Note: Dissertation deadline will be communicated by dissertation supervisor or school admin.						