

**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]

Postgraduate Taught Programme Guide – September

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

Postgraduate Taught Programme Guide – September

MSc / Postgraduate Diploma in Energy

Programme Name		: MSc in Energy				
Programme Code		: B5B7-ENE				
Mode of Study		: Full Time				
Key Contacts						
Programme Director		Dr Mutasim Nour	mutasim.nour@hw.ac.uk			
Dissertation Coordinator		Dr Mutasim Nour	mutasim.nour@hw.ac.uk			
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates	
September Semester – 1 Mandatory and 3 Optional Course(s)						
B51ET	Foundations of Energy	Mandatory	1	September	Sep 2024 To Dec 2024	
B31GA	Elect. Power Syst.	Optional	1	September		
B51GE	Renewable Energy Tech.	Optional	1	September		
B51GG	CFD and Heat Transfer	Optional	1	September		
B51GL	Economics Ren Energy	Optional	1	September		
B51TE	Heat Exchangers and HT	Optional	1	September		
D11VE	Vent & Air Conditioning(P)	Optional	1	September		
C11EF	Entrepreneurship & Creativity	Optional	1	September		
D11CA	Climate Change Sustain Adapt	Optional	1	September		
January Semester – 2 Mandatory and 2 Optional Courses						
B51GI	Tech Futures and Bus.	Mandatory	1	January	Jan 2025 to Apr 2025	
B81EZ	Critical Analysis and Res Pre	Mandatory	1	January		
B51GH	Env Impact Assess	Optional	1	January		
B51GK	Dem Mgmnt and Energy Storage	Optional	1	January		
B51TF	Adv Thermodynamic Applications	Optional	1	January		
D11SB	Energy Systems and Bldgs(U)	Optional	1	January		
May Semester – 1 Mandatory Course [Applicable only MSc Students]						
B51MD	Master Dissertation	Mandatory	1	May	June 2025 to Aug 2025	

Postgraduate Taught Programme Guide – September

Programme Name		: MSc in Energy			
Programme Code		: B5B7-ENE			
Mode of Study		: Part-Time			
Key Contacts					
Programme Director		Dr Mutasim Nour	mutasim.nour@hw.ac.uk		
Dissertation Coordinator		Dr Mutasim Nour	mutasim.nour@hw.ac.uk		
Course Code	Course Title	Mandatory/Optional	Year	Semester	Semester Dates
New Students					
Stage 1 - First Year					
September Semester – 1 Mandatory and 1 Optional OR 2 Optional Courses(s)					
B51ET	Foundations of Energy	Mandatory	1	September	Sep 2024 To Dec 2024
B31GA	Elect. Power Syst.	Optional	1	September	
B51GE	Renewable Energy Tech.	Optional	1	September	
B51GG	CFD and Heat Transfer	Optional	1	September	
B51GL	Economics Ren Energy	Optional	1	September	
B51TE	Heat Exchangers and HT	Optional	1	September	
D11VE	Vent & Air Conditioning(P)	Optional	1	September	
C11EF	Entrepreneurship & Creativity	Optional	1	September	
D11CA	Climate Change Sustain Adapt	Optional	1	September	
January Semester – B51GI and 1 Optional OR 2 Optional Course(s)					
B51GI	Tech Futures and Bus.	Mandatory	1	January	Jan 2025 to Apr 2025
B81EZ	Critical Analysis and Res Preparation*	Mandatory	1	January	
B51GH	Env Impact Assess	Optional	1	January	
B51GK	Dem Mgmnt and Energy Storage	Optional	1	January	
B51TF	Adv Thermodynamic Applications	Optional	1	January	
D11SB	Energy Systems and Bldgs(U)	Optional	1	January	
* Note: New students need to register B81EZ only in Second Year January Semester .					
Continuing Students					
Stage 1 - Second Year					
September Semester – 1 Mandatory and 1 Optional OR 2 Optional Courses(s) [Register for Mandatory course if you have not registered those in your First Academic Year]					
B51ET	Foundations of Energy	Mandatory	2	September	Sep 2024 To Dec 2024
B31GA	Elect. Power Syst.	Optional	2	September	
B51GE	Renewable Energy Tech.	Optional	2	September	
B51GG	CFD and Heat Transfer	Optional	2	September	
B51GL	Economics Ren Energy	Optional	2	September	
B51TE	Heat Exchangers and HT	Optional	2	September	
D11VE	Vent & Air Conditioning(P)	Optional	2	September	
C11EF	Entrepreneurship & Creativity	Optional	2	September	
D11CA	Climate Change Sustain Adapt	Optional	2	September	

Postgraduate Taught Programme Guide – 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	Jan 2025 to Apr 2025
B81EZ	Critical Analysis and Res Preparation*	Mandatory	2	January	
B51GH	Env Impact Assess	Optional	2	January	
B51GK	Dem Mgmt and Energy Storage	Optional	2	January	
B51TF	Adv Thermodynamic Applications	Optional	2	January	
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.					

Postgraduate Taught Programme Guide – September

MSc / Postgraduate Diploma in Renewable Energy Engineering

Programme Name	: MSc in Renewable Energy Engineering				
Programme Code	: B5E7-REE				
Mode of Study	: Full Time				
Key Contacts					
Programme Director	Dr Mutasim Nour	mutasim.nour@hw.ac.uk			
Dissertation Coordinator	Dr Mutasim Nour	mutasim.nour@hw.ac.uk			
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
September Semester – 3 Mandatory and 1 Optional Course(s)					
B51ET	Foundations of Energy	Mandatory	1	September	Sep 2024 To Dec 2024
B51GE	Renewable Energy Technologies	Mandatory	1	September	
B51GL	Economics Ren Energy	Mandatory	1	September	
B31GA	Electrical Power Systems	Optional	1	September	
B51GG	Computational Fluid Dynamics with Heat Transfer	Optional	1	September	
B51TE	Heat Exchangers and Heat Transfer	Optional	1	September	
D11CA	Climate change, Sustainability and Adaptation	Optional	1	September	
January Semester – 2 Mandatory and 2 Optional Courses					
B51GF	Advanced Renewable Energy Engineering	Mandatory	1	January	Jan 2025 to Apr 2025
B81EZ	Critical Analysis and Research Preparation	Mandatory	1	January	
B51GH	Environmental Impact Assessment	Optional	1	January	
B51GK	Demand Management and Energy Storage	Optional	1	January	
B51TF	Advanced Thermodynamic Applications	Optional	1	January	
May Semester – 1 Mandatory Course [Applicable only to MSc Students]					
B51MD	Master's Dissertation	Mandatory	1	May	June 2025 to Aug 2025

Postgraduate Taught Programme Guide – September

Programme Name		: MSc in Renewable Energy Engineering				
Programme Code		: B5E5-REE				
Mode of Study		: Part-Time				
Key Contacts						
Programme Director		Dr Mutasim Nour		mutasim.nour@hw.ac.uk		
Dissertation Coordinator		Dr Mutasim Nour		mutasim.nour@hw.ac.uk		
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates	
New Students						
Stage 1 - First Year						
September Semester – 2 Mandatory OR 1 Mandatory and 1 Optional Course(s)						
B51ET	Foundations of Energy	Mandatory	1	September	Sep 2024 To Dec 2024	
B51GE	Renewable Energy Technologies*	Mandatory	1	September		
B51GL	Economics Ren Energy	Mandatory	1	September		
B31GA	Electrical Power Systems	Optional	1	September		
B51GG	Computational Fluid Dynamics with Heat Transfer	Optional	1	September		
B51TE	Heat Exchangers and Heat Transfer	Optional	1	September		
D11CA	Climate change, Sustainability and Adaptation	Optional	1	September		
*B51GE is a prerequisite for B51GF, and students must register for B51GE this semester if they are registering for B51GF in January semester.						
January Semester –1 Mandatory and 1 Optional OR 2 Optional Course(s)						
B51GF	Advanced Renewable Energy Engineering	Mandatory	1	January	Jan 2025 to Apr 2025	
B81EZ	Critical Analysis and Research Preparation*	Mandatory	1	January		
B51GH	Environmental Impact Assessment	Optional	1	January		
B51GK	Demand Management and Energy Storage	Optional	1	January		
B51TF	Advanced Thermodynamic Applications	Optional	1	January		
*Note: New students need to register for B81EZ only in Second Year January Semester.						
Continuing Students						
Stage 1 - Second Year						
September Semester– 2 Mandatory OR 1 Mandatory and 1 Optional Course(s) [Register for Mandatory courses if you have not registered those in First Academic Year]						
B51ET	Foundations of Energy	Mandatory	2	September	Sep 2024 To Dec 2024	
B51GE	Renewable Energy Technologies	Mandatory	2	September		
B51GL	Economics Ren Energy	Mandatory	2	September		
B31GA	Electrical Power Systems	Optional	2	September		
B51GG	Computational Fluid Dynamics with Heat Transfer	Optional	2	September		
B51TE	Heat Exchangers and Heat Transfer	Optional	2	September		
D11CA	Climate change, Sustainability and Adaptation	Optional	2	September		
*B51GE is a prerequisite for B51GF, and students must register for B51GE this semester if they are registering for B51GF in January semester.						

Postgraduate Taught Programme Guide – September

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	Jan 2025 to Apr 2025
B81EZ	Critical Analysis and Research Preparation*	Mandatory	2	January	
B51GH	Environmental Impact Assessment	Optional	2	January	
B51GK	Demand Management and Energy Storage	Optional	2	January	
B51TF	Advanced Thermodynamic Applications	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’s Dissertation	Mandatory	2	May	June 2025 To Dissertation Deadline
Note: Dissertation deadline will be communicated by dissertation supervisor or school admin.					

Postgraduate Taught Programme Guide – September

MSc in Global Sustainability Engineering

Programme Name		: MSc in Global Sustainability Engineering			
Programme Code		: B478-SUE			
Mode of Study		: Full Time			
Key Contacts					
Programme Director		Dr Vahid Razaviarani	V.Razaviarani@hw.ac.uk		
Dissertation Coordinator		Dr Vahid Razaviarani	V.Razaviarani@hw.ac.uk		
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
September Semester – 3 Mandatory and 1 Optional Course(s)					
D11CA	Climate Change, Sustainability and Adaptation	Mandatory	1	September	Sep 2024 To Dec 2024
B41OB	Process Engineering A	Mandatory	1	September	
B51ET	Foundations of Energy	Mandatory	1	September	
B51GE	Renewable Energy Technologies	Optional	1	September	
B41CE	The Circular Economy	Optional	1	September	
January Semester – 3 Mandatory and 1 Optional Courses					
B41SP	Sustainable Processing	Mandatory	1	January	Jan 2025 to Apr 2025
B51GH	Environmental Impact Assessment	Mandatory	1	January	
B81EZ	Critical Analysis and Research Preparation	Mandatory	1	January	
B41CS	Carbon Solutions	Optional	1	January	
C11GL	Green and Sustainable Logistics	Optional	1	January	
B51GI	Technology Futures and Business Strategy	Optional	1	January	
B51GK	Demand Management and Energy Storage	Optional	1	January	
May Semester– 1 Mandatory Course [Applicable only to MSc Students]					
B41SD	Sustainability Dissertation	Mandatory	1	May	June 2025 to Aug 2025

Postgraduate Taught Programme Guide – September

Programme Name		: MSc in Global Sustainability Engineering			
Programme Code		: B478-SUE			
Mode of Study		: Part-Time			
Key Contacts					
Programme Director		Dr Vahid Razaviarani	V.Razaviarani@hw.ac.uk		
Dissertation Coordinator		Dr Vahid Razaviarani	V.Razaviarani@hw.ac.uk		
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
New Students					
Stage 1 - First Year					
September Semester – 2 Mandatory OR 1 Mandatory and 1 Optional Course(s)					
D11CA	Climate Change, Sustainability and Adaptation	Mandatory	1	September	Sep 2024 To Dec 2024
B41OB	Process Engineering A	Mandatory	1	September	
B51ET	Foundations of Energy	Mandatory	1	September	
B51GE	Renewable Energy Technologies	Optional	1	September	
B41CE	The Circular Economy	Optional	1	September	
January Semester – 2 Mandatory OR 1 Mandatory and 1 Optional Course(s)					
B41SP	Sustainable Processing	Mandatory	1	January	Jan 2025 to Apr 2025
B51GH	Environmental Impact Assessment	Mandatory	1	January	
B81EZ	Critical Analysis and Research Preparation*	Mandatory	1	January	
B41CS	Carbon Solutions	Optional	1	January	
C11GL	Green and Sustainable Logistics	Optional	1	January	
B51GI	Technology Futures and Business Strategy	Optional	1	January	
B51GK	Demand Management and Energy Storage	Optional	1	January	
*Note: New students need to register for B81EZ only in Second Year January Semester.					
Continuing Students					
Stage 1 - Second Year					
September Semester – 2 Mandatory OR 1 Mandatory and 1 Optional Course(s)					
[Register for Mandatory courses if you have not registered those in First Academic Year]					
D11CA	Climate Change, Sustainability and Adaptation	Mandatory	2	September	Sep 2024 To Dec 2024
B41OB	Process Engineering A	Mandatory	2	September	
B51ET	Foundations of Energy	Mandatory	2	September	
B51GE	Renewable Energy Technologies	Optional	2	September	
B41CE	The Circular Economy	Optional	2	September	
January Semester – B81EZ and 1 Mandatory / Optional Course					
[Register for Mandatory courses if you have not registered those in First Academic Year]					
B41SP	Sustainable Processing	Mandatory	2	January	Jan 2025 to Apr 2025
B51GH	Environmental Impact Assessment	Mandatory	2	January	
B81EZ	Critical Analysis and Research Preparation*	Mandatory	2	January	
B41CS	Carbon Solutions	Optional	2	January	
C11GL	Green and Sustainable Logistics	Optional	2	January	
B51GI	Technology Futures and Business Strategy	Optional	2	January	

Postgraduate Taught Programme Guide – September

B51GK	Demand Management and Energy Storage	Optional	2	January	
<p>*Note: Continuing students MUST register for B81EZ this semester, as it will be their final taught semester.</p>					
<p>May Semester – 1 Mandatory Course [Applicable only to MSc Students]</p>					
B41SD	Sustainability Dissertation	Mandatory	2	May	June 2025 to Dissertation Deadline
<p>Note: Dissertation deadline will be communicated by dissertation supervisor or school admin.</p>					

Postgraduate Taught Programme Guide – September

MSc Robotics

Programme Name		: MSc Robotics			
Programme Code		: B320-RAI			
Mode of Study		: Full Time			
Key Contacts					
Programme Director		Dr Nidhal Abdulaziz	na2050@hw.ac.uk		
Dissertation Coordinator		Dr Nidhal Abdulaziz	na2050@hw.ac.uk		
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
September Semester – 2 Mandatory and 2 Optional Course(s)					
B31YS	Robotic System Science	Mandatory	1	September	Sep 2024 To Dec 2024
F21RO	Intelligent Robotics	Mandatory	1	September	
F21BC	Biologically Inspired Computation	Optional	1	September	
B31DD	Embedded Systems	Optional	1	September	
F21DL	Data Mining and Machine Learning	Optional	1	September	
January Semester – 2 Mandatory and 2 Optional Course(s)					
B31MV	Machine Vision	Mandatory	1	January	Jan 2025 to Apr 2025
B51RO	Robotic Mechanical Systems	Mandatory	1	January	
B31DG	Embedded Software	Optional	1	January	
B81EZ	Critical Analysis and Research Preparation	Optional	1	January	
B31SE	Image Processing	Optional	1	January	
May Semester – 1 Mandatory Course [Applicable only to MSc Students]					
B31VZ	MSc Project	Mandatory	1	May	June 2025 to Aug 2025

Postgraduate Taught Programme Guide – September

Programme Name		: MSc Robotics				
Programme Code		: B320-RAI				
Mode of Study		: Part-Time				
Key Contacts						
Programme Director		Dr Nidhal Abdulaziz	na2050@hw.ac.uk			
Dissertation Coordinator		Dr Nidhal Abdulaziz	na2050@hw.ac.uk			
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates	
New Students						
Stage 1 - First Year						
September Semester – 2 Mandatory OR 1 Mandatory & 1 Optional Course(s)						
B31YS	Robotic System Science	Mandatory	1	September	Sep 2024 To Dec 2024	
F21RO	Intelligent Robotics	Mandatory	1	September		
F21BC	Biologically Inspired Computation	Optional	1	September		
B31DD	Embedded Systems	Optional	1	September		
F21DL	Data Mining and Machine Learning	Optional	1	September		
January Semester – 2 Mandatory OR 1 Mandatory & 1 Optional Course(s)						
B31MV	Machine Vision	Mandatory	1	January	Jan 2025 to Apr 2025	
B51RO	Robotic Mechanical Systems	Mandatory	1	January		
B31DG	Embedded Software	Optional	1	January		
B81EZ	Critical Analysis and Research Preparation*	Optional	1	January		
B31SE	Image Processing	Optional	1	January		
* Note: If B31EZ is one of the chosen Optional courses, please register it only in the Second Year January Semester.						
Continuing Students						
Stage 1 - Second Year						
September Semester – 2 Mandatory OR 1 Mandatory & 1 Optional Course(s)						
[Register for Mandatory courses if you have not registered those in First Academic Year]						
B31YS	Robotic System Science	Mandatory	2	September	Sep 2024 To Dec 2024	
F21RO	Intelligent Robotics	Mandatory	2	September		
F21BC	Biologically Inspired Computation	Optional	2	September		
B31DD	Embedded Systems	Optional	2	September		
F21DL	Data Mining and Machine Learning	Optional	2	September		
January Semester - 2 Mandatory OR 1 Mandatory & 1 Optional Course(s)						
[Register for Mandatory courses if you have not registered those in First Academic Year]						
B31MV	Machine Vision	Mandatory	2	January	Jan 2025 to Apr 2025	
B51RO	Robotic Mechanical Systems	Mandatory	2	January		
B31DG	Embedded Software	Optional	2	January		
B81EZ	Critical Analysis and Research Preparation*	Optional	2	January		
B31SE	Image Processing	Optional	2	January		
* Note: If B31EZ is one of the chosen Optional courses, it MUST be registered this semester.						

Postgraduate Taught Programme Guide – September

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.					