



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

Academic Year 202324

[Academic Year Calendar for 202324](#)

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

Note: January intake students are required to register only for January semester courses now. Registration for September semester and following January semester courses can be done when the registration opens in August 2024 for academic year 2024/25.

Postgraduate Taught Programme Guide – January Intake

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
Part-Time	6
New Students	6
Continuing Students	6
MSc in Global Sustainability Engineering	8
Full Time	8
Part-Time	9
New Students	9
Continuing Students	9
MSc Robotics	11
Full Time	11
Part-Time	12
New Students	12
Continuing Students	12

Postgraduate Taught Programme Guide – January Intake

MSc / Postgraduate Diploma in Energy

Programme Name	: MSc / Postgraduate Diploma in Energy				
Programme Code	: B5B7-ENE / B5B5-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
January Semester – 2 Mandatory and 2 Optional Courses					
B51GI	Tech Futures and Bus.	Mandatory	1	January	Jan 2024 to Apr 2024
B81EZ	Critical Analysis and Res Pre	Mandatory	1	January	
B51GH	Env Impact Assess	Optional	1	January	
B51GK	Dem Mgmt and Energy Storage	Optional	1	January	
B51TF	Adv Thermodynamic Applications	Optional	1	January	
D11SB	Energy Systems and Bldgs(U)	Optional	1	January	
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	
H11EN	Entrepreneurship & Creativity	Optional	1	September	
D11CA	Climate Change Sustain Adapt	Optional	1	September	
January Semester – 1 Mandatory Course [Applicable only MSc Students]					
B51MD	Master Dissertation	Mandatory	1	January	Jan 2025 to May 2025

Postgraduate Taught Programme Guide – January Intake

Programme Name		: MSc / Postgraduate Diploma in Energy				
Programme Code		: B5B7-ENE / B5B5-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						
January Semester – B51GI and 1 Optional OR 2 Optional Course(s)						
B51GI	Tech Futures and Bus.	Mandatory	1	January	Jan 2024 to Apr 2024	
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 should register for B81EZ only in Second Year January Semester.						
September Semester – 1 Mandatory and 1 Optional OR 2 Optional Courses(s)						
B51ET	Foundations of Energy	Mandatory	1	September	Sept 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		
H11EN	Entrepreneurship & Creativity	Optional	1	September		
D11CA	Climate Change Sustain Adapt	Optional	1	September		
Continuing Students						
Stage 1 - Second Year						
January Semester – B81EZ and 1 Mandatory/Optional Course(s)						
[Register mandatory courses that weren't registered in Stage 1- First Year January Semester]						
B51GI	Tech Futures and Bus.	Mandatory	1	January	Jan 2024 to Apr 2024	
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: Continuing students MUST register for B81EZ this semester.						

Postgraduate Taught Programme Guide – January Intake

September Semester – 1 Mandatory and 1 Optional OR 2 Optional Courses(s)					
[Register mandatory courses that weren't registered in Stage 1- First Year September Semester]					
B51ET	Foundations of Energy	Mandatory	2	September	Sept 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	
H11EN	Entrepreneurship & Creativity	Optional	2	September	
D11CA	Climate Change Sustain Adapt	Optional	2	September	
January & May Semester – 1 Mandatory Course [Applicable only MSc Students]					
B51MD	Master Dissertation	Mandatory	2	January & May	Jan 2025 to Dissertation Deadline
Note: Dissertation deadline will be communicated by dissertation supervisor or school admin.					

Postgraduate Taught Programme Guide – January Intake

MSc / Postgraduate Diploma in Renewable Energy Engineering

Programme Name	: MSc / Postgraduate Diploma in Renewable Energy Engineering
Programme Code	: B5E5-REE / 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

January Semester –2 Optional Course(s)

Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
B51GF	Advanced Renewable Energy Engineering*	Mandatory	1	January	Jan 2024 to Apr 2024
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 should register for **B81EZ only in Second Year January Semester and B51GF after they complete B51GE.**

September Semester – 2 Mandatory OR 1 Mandatory and 1 Optional Course(s)

Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
B51ET	Foundations of Energy	Mandatory	1	September	Sept 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.**

Continuing Students

Stage 1 - Second Year

January Semester – B81EZ and B51GF Mandatory / Optional Course

[Register mandatory courses that weren't registered in Stage 1- First Year January Semester]

Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
B51GF	Advanced Renewable Energy Engineering	Mandatory	1	January	Jan 2024 to Apr 2024
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:** Continuing students **MUST** register for **B81EZ and B51GF this semester** which will be their Final Taught Semester.

Postgraduate Taught Programme Guide – January Intake

September Semester– 2 Mandatory OR 1 Mandatory and 1 Optional Course(s) [Register mandatory courses that weren't registered in Stage 1- First Year September Semester]					
B51ET	Foundations of Energy	Mandatory	1	September	Sept 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 & may Semester – 1 Mandatory Course [Applicable only MSc Students]					
B51MD	Master's Dissertation	Mandatory	2	January & May	Jan 2025 to Dissertation Deadline
Note: Dissertation deadline will be communicated by dissertation supervisor or school admin.					

Postgraduate Taught Programme Guide – January Intake

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 Nasir Mohammed Amro Al Lagtah	N.Al_Lagtah@hw.ac.uk		
Dissertation Coordinator		Dr Nasir Mohammed Amro Al Lagtah	N.Al_Lagtah@hw.ac.uk		
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
January Semester – 3 Mandatory and 1 Optional Courses					
B41SP	Sustainable Processing	Mandatory	1	January	Jan 2024 to Apr 2024
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	
September Semester – 3 Mandatory and 1 Optional Course(s)					
D11CA	Climate Change, Sustainability and Adaptation	Mandatory	1	September	Sept 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 – 1 Mandatory Course					
B41SD	Sustainability Dissertation	Mandatory	1	January	Jan 2025 to April 2025

Postgraduate Taught Programme Guide – January Intake

Programme Name	:	MSc in Global Sustainability Engineering				
Programme Code	:	B478-SUE				
Mode of Study	:	Part-Time				
Key Contacts						
Programme Director		Dr Nasir Mohammed Amro Al Lagtah	N.Al_Lagtah@hw.ac.uk			
Dissertation Coordinator		Dr Nasir Mohammed Amro Al Lagtah	N.Al_Lagtah@hw.ac.uk			
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates	
New Students						
Stage 1 - First Year						
January Semester – 2 Mandatory OR 1 Mandatory and 1 Optional Course(s)						
B41SP	Sustainable Processing	Mandatory	1	January	Jan 2024 to Apr 2024	
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 should register for B81EZ only in Second Year January Semester.						
September Semester – 2 Mandatory OR 1 Mandatory and 1 Optional Course(s)						
D11CA	Climate Change, Sustainability and Adaptation	Mandatory	1	September	Sept 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		
Continuing Students						
Stage 1 - Second Year						
January Semester – B81EZ and 1 Mandatory / Optional Course [Register mandatory courses that weren't registered in Stage 1- First Year January Semester]						
B41SP	Sustainable Processing	Mandatory	1	January	Jan 2024 to Apr 2024	
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: Continuing students MUST register for B81EZ this semester						

Postgraduate Taught Programme Guide – January Intake

September Semester – 2 Mandatory OR 1 Mandatory and 1 Optional Course(s) [Register mandatory courses that weren't registered in Stage 1- First Year September Semester]					
D11CA	Climate Change, Sustainability and Adaptation	Mandatory	1	September	Sept 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 and May Semester – 1 Mandatory Course					
B41SD	Sustainability Dissertation	Mandatory	2	January & May	Jan 2025 to Dissertation Deadline
Note: Dissertation deadline will be communicated by dissertation supervisor or school admin.					

Postgraduate Taught Programme Guide – January Intake

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
January Semester – 2 Mandatory and 2 Optional Course(s)					
B31MV	Machine Vision	Mandatory	1	January	Jan 2024 to Apr 2024
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	
September Semester – 2 Mandatory and 2 Optional Course(s)					
B31YS	Robotic System Science	Mandatory	1	September	Sept 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 – 1 Mandatory Course					
B31VZ	MSc Project	Mandatory	1	January	Jan 2025 to May 2025

Postgraduate Taught Programme Guide – January Intake

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					
January Semester – 2 Mandatory OR 1 Mandatory & 1 Optional Course(s)					
B31MV	Machine Vision	Mandatory	1	January	Jan 2024 to Apr 2024
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	
September Semester – 2 Mandatory OR 1 Mandatory & 1 Optional Course(s)					
B31YS	Robotic System Science	Mandatory	2	September	Sept 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	
Continuing Students					
Stage 1 - Second Year					
January Semester - 2 Mandatory OR 1 Mandatory & 1 Optional Course(s)					
[Register mandatory courses that weren't registered in Stage 1- First Year January Semester]					
B31MV	Machine Vision	Mandatory	2	January	Jan 2024 to Apr 2024
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	
September Semester – 2 Mandatory OR 1 Mandatory & 1 Optional Course(s)					
[Register mandatory courses that wasn't registered in Stage 1- First Year September Semester]					
B31YS	Robotic System Science	Mandatory	2	September	Sept 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	

Postgraduate Taught Programme Guide – January Intake

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