



**Programme Guide for Postgraduate Taught Programmes.
School of Engineering and Physical Science
Dubai Campus**

Academic Year 202223

[Academic Year Calendar for 202223](#)

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

Post Graduate Taught Programme Guide- ONLY for January Intake Students

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MSc Energy

Programme Name	: MSc 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		
Head of School EPS	Dr Fadi Ghaith		F.Ghaith@hw.ac.uk		
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
New Students					
Stage 1 - First Year					
January semester – Register 2 Mandatory and 2 Optional Courses					
B51GI	Technology Futures and Business Strategy	Mandatory	1	January Semester	Jan 2023 to May 2023
B81EZ	Critical Analysis and Research Preparation	Mandatory	1		
B51GH	Environmental Impact Assessment	Optional	1		
B51GK	Demand Management and Energy Storage	Optional	1		
B51TF	Advanced Thermodynamic Applications	Optional	1		
D11SB	Energy Systems and Buildings	Optional	1		
Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.					
September Semester – Register 1 Mandatory and 3 Optional Course(s)					
B51ET	Foundations of Energy	Mandatory	1	September Semester	Sep 2023 To Dec 2023
B31GA	Electrical Power Systems	Optional	1		
B51GE	Renewable Energy Technologies	Optional	1		
B51GG	Computational Fluid Dynamics with Heat Transfer	Optional	1		
B51GL	Economics Ren Energy	Optional	1		
B51TE	Heat Exchangers and Heat Transfer	Optional	1		
D11VE	Ventilation and Air Conditioning	Optional	1		
H11EN	Entrepreneurship & Creativity	Optional	1		
D11CA	Climate Change, Sustainability and Adaptation	Optional	1		
January Semester– Register 1 Mandatory Course					
B51MD	Masters Dissertation	Mandatory	1	January Semester	Jan 2024 to May 2024

Post Graduate Taught Programme Guide- ONLY for January Intake Students

Programme Name	:	MSc 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			
Head of School	Dr Fadi Ghaith	F.Ghaith@hw.ac.uk			
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
New Students					
Stage 1 - First Year					
January Semester – Register 2 Courses [2 Optional OR 1 Optional & 1 Mandatory]					
B51GI	Technology Futures and Business Strategy	Mandatory	1	January Semester	Jan 2023 to May 2023
B51GH	Environmental Impact Assessment	Optional	1		
B51GK	Demand Management and Energy Storage	Optional	1		
B51TF	Advanced Thermodynamic Applications	Optional	1		
D11SB	Energy Systems and Buildings	Optional	1		
Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.					
September Semester – Register 2 Courses- [2 Optional OR 1 Optional & 1 Mandatory]					
B51ET	Foundations of Energy	Mandatory	1	September Semester	Sept 2023 to Dec 2023
B31GA	Electrical Power Systems	Optional	1		
B51GE	Renewable Energy Technologies	Optional	1		
B51GG	Computational Fluid Dynamics with Heat Transfer	Optional	1		
B51GL	Economics Ren Energy	Optional	1		
B51TE	Heat Exchangers and Heat Transfer	Optional	1		
D11VE	Ventilation and Air Conditioning	Optional	1		
H11EN	Entrepreneurship & Creativity	Optional	1		
D11CA	Climate Change, Sustainability and Adaptation	Optional	1		
Continuing Students					
Stage 1 - Second Year					
January Semester – Register 2 Courses					
[Register for Mandatory course(s) if not completed in Stage 1 - First Year]					
B51GI	Technology Futures and Business Strategy	Mandatory	2	January Semester	Jan 2023 to May 2023
B81EZ	Critical Analysis and Research Preparation	Mandatory	2		
B51GH	Environmental Impact Assessment	Optional	2		
B51GK	Demand Management and Energy Storage	Optional	2		
B51TF	Advanced Thermodynamic Applications	Optional	2		
D11SB	Energy Systems and Buildings	Optional	2		
Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.					
September Semester – Register 2 Courses					
[Register for Mandatory course if not completed in Stage 1 - First Year]					

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B51ET	Foundations of Energy	Mandatory	1	September Semester	Sept 2023 to Dec 2023
B31GA	Electrical Power Systems	Optional	2		
B41ED	Process Intensification	Optional	2		
B51GE	Renewable Energy Technologies	Optional	2		
B51GG	Computational Fluid Dynamics with Heat Transfer	Optional	2		
B51GL	Economics Ren Energy	Optional	2		
B51TE	Heat Exchangers and Heat Transfer	Optional	2		
D11VE	Ventilation and Air Conditioning	Optional	2		
H11EN	Entrepreneurship & Creativity	Optional	2		
D11CA	Climate Change, Sustainability and Adaptation	Optional	2		
January & May semester– Register 1 Mandatory Course					
B51MD	Masters Dissertation	Mandatory	2	January & May Semester	Jan 2024 To Aug 2024

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MSc Renewable Energy Engineering

Programme Name	: MSc Renewable Energy Engineering				
Programme Code	: B5E7-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			
Head of School	Dr Fadi Ghaith	F.Ghaith@hw.ac.uk			
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
New Students					
Stage 1 - First Year					
January Semester – Register 2 Optional Courses					
B51GF	Advanced Renewable Energy Technologies	Mandatory	1	January Semester	Jan 2023 to May 2023
B51GK	Demand Management and Energy Storage	Optional	1		
B51TF	Advanced Thermodynamic Applications	Optional	1		
B51GH	Environmental Impact Assessment	Optional	1		
Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.					
September Semester– Register 2 Courses [B51GE & another Mandatory OR B51GE & 1 Optional]					
B51ET	Foundations of Energy	Mandatory	1	September Semester	Sept 2023 to Dec 2023
B51GE	Renewable Energy Technologies	Mandatory	1		
B51GL	Economics Ren Energy	Mandatory	1		
B31GA	Electrical Power Systems	Optional	1		
B51GG	Computational Fluid Dynamics with Heat Transfer	Optional	1		
B51TE	Heat Exchangers and Heat Transfer	Optional	1		
D11CA	Climate Change, Sustainability and Adaptation	Optional	1		
Continuing Students					
Stage 1 - Second Year					
January Semester– Register 2 Mandatory Courses					
B51GF	Advanced Renewable Energy Technologies	Mandatory	2	January Semester	Jan 2023 to May 2023
B81EZ	Critical Analysis and Research Preparation	Mandatory	2		
B51GH	Environmental Impact Assessment	Optional	2		
B51GK	Demand Management and Energy Storage	Optional	2		
B51TF	Advanced Thermodynamic Applications	Optional	2		
Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.					
September Semester – Register 2 Courses [Register for Mandatory courses if not completed in Stage 1 - First Year]					
B51ET	Foundations of Energy	Mandatory	2	September Semester	Sept 2023 to
B51GE	Renewable Energy Technologies	Mandatory	2		
B51GL	Economics Ren Energy	Mandatory	2		

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B31GA	Electrical Power Systems	Optional	2		Dec 2023
B51GG	Computational Fluid Dynamics with Heat Transfer	Optional	2		
B51TE	Heat Exchangers and Heat Transfer	Optional	2		
D11CA	Climate Change, Sustainability and Adaptation	Optional	2		
January & May semester – Register 1 Mandatory Course					
B51MD	Masters Dissertation	Mandatory	2	January & May Semester	Jan 2024 to Aug 2024

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MSc Global Sustainability Engineering					
Programme Name		: MSc 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		
Associate Head of School		Dr Fadi Ghaith	F.Ghaith@hw.ac.uk		
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
New Students					
Stage 1 - First Year					
January Semester – 2 Mandatory Courses OR 1 Mandatory & 1 Optional Course					
B41SP	Sustainable Processing	Mandatory	1	January Semester	Jan 2023 to May 2023
B51GH	Environmental Impact Assessment	Mandatory	1		
B41CE	The Circular Economy	Optional	1		
B41CS	Carbon Solutions	Optional	1		
B51GI	Technology Futures and Business Strategy	Optional	1		
B51GK	Demand Management and Energy Storage	Optional	1		
<p>Note: *You should NOT register to B81EZ course in your first January Semester. You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.</p>					
September Semester – 2 Courses					
D11CA	Climate Change, Sustainability and Adaptation	Mandatory	1	September Semester	Sept 2023 to Dec 2023
B41OB	Process Engineering A	Mandatory	1		
B51ET	Foundations of Energy	Mandatory	1		
B51GE	Renewable Energy Technologies	Optional	1		
Continuing Students					
Stage 1 - Second Year					
January Semester – 2 Courses					
[Register for Mandatory courses if you have not registered those in First Year]					
B41SP	Sustainable Processing	Mandatory	2	January Semester	Jan 2023 to May 2023
B51GH	Environmental Impact Assessment	Mandatory	2		
B81EZ	Critical Analysis and Res Prep*	Mandatory	2		
B41CE	The Circular Economy	Optional	2		
B41CS	Carbon Solutions	Optional	2		
B51GI	Technology Futures and Business Strategy	Optional	2		
B51GK	Demand Management and Energy Storage	Optional	2		
<p>Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.</p>					
September Semester – 2 Courses					
[Register for Mandatory courses if you have not registered those in First Year]					
D11CA	Climate Change, Sustainability and Adaptation	Mandatory	2	September Semester	Sept 2023 to
B41OB	Process Engineering A	Mandatory	2		

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B51ET	Foundations of Energy	Mandatory	2		Dec 2023
B51GE	Renewable Energy Technologies	Optional	2		
January & May Semester – 1 Mandatory Course					
B41SD	Sustainability Dissertation	Mandatory	2	January & May Semester	Jan 2024 to Aug 2024
<p>Note: Semester 3 end date depends on dissertation submission deadline. Dissertation Supervisor or School admin will confirm the deadline.</p>					

Post Graduate Taught Programme Guide- ONLY for January Intake Students

MSc Robotics

Programme Name	: MSc Robotics				
Programme Code	: B320-RAI				
Mode of Study	: Full Time				
Key Contacts					
Programme Director	Dr Senthil Muthukumaraswamy	m.senthilarumugam@hw.ac.uk			
Dissertation Coordinator	Dr Senthil Muthukumaraswamy	m.senthilarumugam@hw.ac.uk			
Associate Head of School	Dr Fadi Ghaith	F.Ghaith@hw.ac.uk			
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
New Students					
First Year -Stage 1					
January Semester – 2 Mandatory and 2 Optional Course(s)					
B31XP	Multidisciplinary Group Project	Mandatory	1	January Semester	Jan 2023 to May 2023
B51RO	Robotic Mechanical Systems	Mandatory	1		
B31DG	Embedded Software	Optional	1		
B31SE	Image Processing	Optional	1		
Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.					
September Semester – 3 Mandatory and 1 Optional Course					
B31YS	Robotic System Science	Mandatory	1	September Semester	Sept 2023 to Dec 2023
F21RO	Intelligent Robotics	Mandatory	1		
B81EZ	Critical Analysis and Research Preparation	Mandatory	1		
F21BC	Biologically Inspired Computation	Optional	1		
B31DD	Embedded Systems	Optional	1		
F21DL	Data Mining and Machine Learning	Optional	1		
January Semester– 1 Mandatory Course					
B31VZ	MSc Project	Mandatory	1	January Semester	Jan 2024 to May 2024
Note: Semester 3 end date depends on dissertation submission deadline. Supervisor or School admin will confirm the deadline.					

Post Graduate Taught Programme Guide- ONLY for January Intake Students

Programme Name		: MSc Robotics			
Programme Code		: B320-RAI			
Mode of Study		: Part-Time			
Key Contacts					
Programme Director		Dr Senthil Muthukumaraswamy	m.senthilarumugam@hw.ac.uk		
Dissertation Coordinator		Dr Senthil Muthukumaraswamy	m.senthilarumugam@hw.ac.uk		
Associate Head of School		Dr Fadi Ghaith	F.Ghaith@hw.ac.uk		
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
New Students					
Stage 1 - First Year					
January Semester – 2 Courses					
[Register 2 Mandatory OR 1 Mandatory & 1 Optional Course]					
B31XP	Multidisciplinary Group Project	Mandatory	1	January Semester	Jan 2023 to May 2023
B51RO	Robotic Mechanical Systems	Mandatory	1		
B31DG	Embedded Software	Optional	1		
B31SE	Image Processing	Optional	1		
Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.					
September semester – 2 Courses					
[Register 2 Mandatory OR 1 Mandatory & 1 Optional Course]					
B31YS	Robotic System Science	Mandatory	2	September Semester	Sept 2023 to Dec 2023
F21RO	Intelligent Robotics	Mandatory	2		
F21BC	Biologically Inspired Computation	Optional	2		
B31DD	Embedded Systems	Optional	2		
F21DL	Data Mining and Machine Learning	Optional	2		
Continuing Students					
Stage 1 - Second Year					
January Semester – 2 Courses					
[Register for Mandatory courses if you have not registered those in First Year]					
B31XP	Multidisciplinary Group Project	Mandatory	1	January Semester	Jan 2023 to May 2023
B51RO	Robotic Mechanical Systems	Mandatory	1		
B31DG	Embedded Software	Optional	1		
B31SE	Image Processing	Optional	1		
Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.					
September Semester – 2 Courses					
[Register for Mandatory courses if you have not registered those in First Year]					
B31YS	Robotic System Science	Mandatory	2	September Semester	Sept 2023 to Dec 2023
F21RO	Intelligent Robotics	Mandatory	2		
B81EZ	Critical Analysis and Research Preparation	Mandatory	2		
F21BC	Biologically Inspired Computation	Optional	2		
B31DD	Embedded Systems	Optional	2		
F21DL	Data Mining and Machine Learning	Optional	2		
January & May Semester – 1 Mandatory Course					

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B31VZ	MSc Project	Mandatory	2	January & May Semester	Jan 2024 to August 2024
Note: Semester 3 end date depends on dissertation submission deadline. Supervisor or School admin will confirm the deadline.					

Post Graduate Taught Programme Guide- ONLY for January Intake Students

Postgraduate Diploma Robotics

Programme Name	: Postgraduate Diploma Robotics				
Programme Code	: B32F-RAI				
Mode of Study	: Full Time				
Key Contacts					
Programme Director	Dr Senthil Muthukumaraswamy	m.senthilarumugam@hw.ac.uk			
Dissertation Coordinator	Dr Senthil Muthukumaraswamy	m.senthilarumugam@hw.ac.uk			
Associate Head of School	Dr Fadi Ghaith	F.Ghaith@hw.ac.uk			
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
January Semester – 2 Mandatory and 2 Optional Course(s)					
B31XP	Multidisciplinary Group Project	Mandatory	1	January Semester	Jan 2023 to May 2023
B51RO	Robotic Mechanical Systems	Mandatory	1		
B31DG	Embedded Software	Optional	1		
B31SE	Image Processing	Optional	1		
<p>Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.</p>					
September Semester – 2 Mandatory and 2 Optional Courses					
B31YS	Robotic System Science	Mandatory	1	September Semester	Sept 2023 to Dec 2023
F21RO	Intelligent Robotics	Mandatory	1		
F21BC	Biologically Inspired Computation	Optional	1		
B31DD	Embedded Systems	Optional	1		
F21DL	Data Mining and Machine Learning	Optional	1		

Post Graduate Taught Programme Guide- ONLY for January Intake Students

Programme Name		: Postgraduate Diploma Robotics			
Programme Code		: B32F-RAI			
Mode of Study		: Part-Time			
Key Contacts					
Programme Director		Dr Senthil Muthukumaraswamy	m.senthilarumugam@hw.ac.uk		
Dissertation Coordinator		Dr Senthil Muthukumaraswamy	m.senthilarumugam@hw.ac.uk		
Associate Head of School		Dr Fadi Ghaith	F.Ghaith@hw.ac.uk		
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
New Students					
Stage 1 - First Year					
January Semester– 2 Courses					
[Register 2 Mandatory OR 1 Mandatory & 1 Optional Course]					
B31XP	Multidisciplinary Group Project	Mandatory	1	January Semester	Jan 2023 to Apr 2023
B51RO	Robotic Mechanical Systems	Mandatory	1		
B31DG	Embedded Software	Optional	1		
B31SE	Image Processing	Optional	1		
Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.					
Sep Semester– 2 Courses					
[Register 2 Mandatory OR 1 Mandatory & 1 Optional Course]					
B31YS	Robotic System Science	Mandatory	1	September Semester	Sept 2023 to Dec 2023
F21RO	Intelligent Robotics	Mandatory	1		
F21BC	Biologically Inspired Computation	Optional	1		
B31DD	Embedded Systems	Optional	1		
F21DL	Data Mining and Machine Learning	Optional	1		
Continuing Students					
Stage 1 - Second Year					
Jan Semester– 2 Courses					
[Register for Mandatory courses if you have not registered those in First Year]					
B31XP	Multidisciplinary Group Project	Mandatory	2	January Semester	Jan 2023 to Apr 2024
B51RO	Robotic Mechanical Systems	Mandatory	2		
B31DG	Embedded Software	Optional	2		
B31SE	Image Processing	Optional	2		
Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.					
Sep Semester – 2 Courses					
[Register for Mandatory courses if you have not registered those in First Year]					
B31YS	Robotic System Science	Mandatory	2	September Semester	Sept 2023 to Dec 2023
F21RO	Intelligent Robotics	Mandatory	2		
F21BC	Biologically Inspired Computation	Optional	2		
B31DD	Embedded Systems	Optional	2		
F21DL	Data Mining and Machine Learning	Optional	2		

Post Graduate Taught Programme Guide- ONLY for January Intake Students

MSc Advanced Mechanical Engineering

Programme Name	: MSc Advanced Mechanical Engineering				
Programme Code	: B5A7-AME				
Mode of Study	: Part-Time				
Key Contacts					
Programme Director	Dr Sibi Chacko	c.sibi@hw.ac.uk			
Dissertation Coordinator	Dr. Mutasim Nour	mutasim.nour@hw.ac.uk			
Associate Head of School	Dr Fadi Ghaith	F.Ghaith@hw.ac.uk			
Course Code	Course Title	Mandatory /Optional	Year	Semester	Semester Dates
New Students					
Stage 1 - First Year					
January Semester – Register 2 Courses [Register 1 Mandatory & 1 Optional Course]					
B51HB	Failure and Accident Analysis	Mandatory	1	January Semester	Jan 2023 to May 2023
B50DH	Engineering Manufactures	Optional	1		
B51EL	Fluids 2	Optional	1		
B51EN	Advanced Mechanics of Materials 2	Optional	1		
B51EP	Dynamics 2	Optional	1		
B51GT	Specialist Engineering Technology 2	Optional	1		
B51GY	Specialist Engineering Technology 3	Optional	1		
B51TF	Advanced Thermodynamic Applications	Optional	1		
Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.					
September Semester – Register 2 Courses [Register 2 Mandatory OR 1 Mandatory & 1 Optional Course]					
B51GG	CFD and Heat Transfer	Mandatory	1	September Semester	Sept 2023 to Dec 2023
B81PI	Professional and Industrial Studies	Mandatory	1		
B50DG	Engineering Design	Optional	1		
B51EK	Fluids 1	Optional	1		
B51EM	Advanced Mechanics of Materials 1	Optional	1		
B51EO	Dynamics 1	Optional	1		
B51GE	Renewable Energy Technologies	Optional	1		
B51TE	Heat Exchangers and Heat Transfer	Optional	1		
Continuing Students					
Stage 1 - Second Year					
January Semester – Register 2 Courses [Register for Mandatory courses if you have not registered those in your First Year]					
B51HB	Failure and Accident Analysis	Mandatory	2	January Semester	Jan 2023 to May 2023
B81EZ	Critical Analysis and Research Preparation	Mandatory	2		
B50DH	Engineering Manufactures	Optional	2		
B51EL	Fluids 2	Optional	2		
B51EN	Advanced Mechanics of Materials 2	Optional	2		
B51EP	Dynamics 2	Optional	2		
B51GT	Specialist Engineering Technology 2	Optional	2		

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B51GY	Specialist Engineering Technology 3	Optional	2		
B51TF	Advanced Thermodynamic Applications	Optional	2		
<p>Note: You will need to register for Semester One courses ONLY in next Academic Year [AY]. You will be notified when the enrolment and registration are open for next AY.</p>					
<p>September Semester – 2 Courses [Register for Mandatory courses if you have not registered those in your First Year]</p>					
B51GG	CFD and Heat Transfer	Mandatory	2	September Semester	Sept 2023 to Dec 2023
B81PI	Professional and Industrial Studies	Mandatory	2		
B50DG	Engineering Design	Optional	2		
B51EK	Fluids 1	Optional	2		
B51EM	Advanced Mechanics of Materials 1	Optional	2		
B51EO	Dynamics 1	Optional	2		
B51GE	Renewable Energy Technologies	Optional	2		
B51TE	Heat Exchangers and Heat Transfer	Optional	2		
<p>January & May Semester– 1 Mandatory Course</p>					
B51MD	Master Dissertation	Mandatory	2	January & May Semester	Jan 2024 to Aug 2024