

4BSE1	2026-27 Energy Systems Engineering					Semester 1
Time	Monday	Tuesday	Wednesday	Thursday	Friday	
09:00 - 10:00		Computational Fluid Dynamics ME4112				
10:00 - 11:00		ENG-2016, ENG-2017 Dr. Mingming Tong	Power Systems EE450 Tyndall Theatre Prof Maeve Duffy	Power Systems EE450 ENG-G017 Prof Maeve Duffy	ME4112 Computational Fluid Dynamics CSB-1006 Dr. Mingming Tong	
11:00 - 12:00	Energy Conversion ME424 ENG-G047 Dr. Nathan Quinlan	Sustainable Waste Management CE3122 ENG-G017 Prof Xinmin Zhan		Sustainable Waste Management CE3122 ENG-2001 Prof Zinmin Zhan	CADD Programme ENG-2017	
12:00 - 13:00						
13:00 - 14:00						
14:00 - 15:00	Fundamentals of Python Programming PC Lab CT5200 CSB-G009 Dr. Patrick Mannion		Fundamentals of Python Programming CT5200 AC201 Dr. Patrick Mannion		Sustainable Waste Management CE3122 ENG-2001	
15:00 - 16:00		Mechanical Analysis & Design ME304 ENG-G018 Dr. Eoin King	Fundamentals of Python Programming CT5200 ENG-G018		Computational Fluid Dynamics ME4112 ENG-G018 Dr. Mingming Tong	
16:00 - 17:00		Power Systems EE450 ENG-G017 Prof Maeve Duffy	Mechanical Analysis & Design ME304 ENG-G017 Dr. Eoin King	Computational Fluid Dynamics ME4112 LCI-G018 Dr. Mingming Tong	Energy Conversion ME424 ENG-G047 Dr. Nathan Quinlan	
17:00 - 18:00						
18:00 - 19:00						

Lecture
 Tutorial
 PC Lab
 Physical Lab

New modules 26/27

EE450 Power Systems is EE450 is repacing EE4103

4BSE1 Energy Systems Engineering (ME Track)	Module Code
	ME4112
this alternates each year with Digital Control systems	EE450
module deleted from curriculum	CE464
New module for 2024-25	CE3122
	ME304
	CT5200
module deleted from curriculum	CT2106
	ME424
This alternates each year with Power Systems Add for 25	EE4103
CBE=computer based exam	
c/a= continuous assessment	
d/a= departmental assessment	

Legend

Query
Change to existing module
New module for 2025-26
module deleted from curriculum
CBE =computer based exam
CA = continuous assessment
DA = departmental assessment

Module Name	ECTS	Taught in Semester 1, 2, or Full Year	Written exam in Semester
Computational Fluid Dynamics	5	1	1
Power Systems	5	1	1
Design of Sustainable Environmental Systems I		1	1
Sustainable Waste Management	5	1	?
Mechanical Analysis & Design	5	1	1
Fundamentals of Python Programming	5	1	1
Object-Oriented Programming		1	1
Energy Conversion	5	1	1
Digital Control Systems for Automation and Robotics		1	1
	30		

Assessment details (CBE, CA, Essay, Project etc)	Lectures Shared With
60:40 Exam:CA	4BG1, 4BG4, 4BM1, 4BM4, 4BSE4, 1MEES1, 1MEME1
75:25 Exam:CA	4BLE4, 4BM1, 4BM4, 4BSE4
70:30 Exam:CA	4BE1, 4BE4
?	?
100 Exam	3BG1, 3BG4, 3BM1, 3BM4
Exam: CA	4BSE1, 4BSE4, 1MEES1, 1MEB1
50:50 CA:CBE	2BCT1, 2BLE1, 2BP1, 4BSE4
80:20 Exam:CA	4BM1, 4BM4, 4BSE4
70:30 Exam:CA	4BSE4

Bonded with	Lecturer
	Dr. Mingming Tong
	Dr. Maeve Duffy
	N/A
	Prof. Xinmin Zhan
	Dr. Eoin King
	Dr. Patrick Mannion, Administrator Geraldine Healy
	N/A
	Dr. Nathan Quinlan
EE5120	N/A