

Department of Mechanical & Mechatronic Engineering
PG Schedule 2026

All modules are presented online. Students can request to attend in person.

*Students can select which modules to include in their programme. The different module combinations for the programmes (PGDip, MEng S, MEng R) are listed on the Department's website:
<https://www.mecheng.sun.ac.za/postgraduate-programmes/>*

Module	Lecture 1	Lecture 2	Lecture 3	Lecture 4	Lecture 5	Lecture 6
FACULTY MODULES						
Data Science 874 & 774	2026/02/23	2026/02/24	2026/03/16	2026/03/17	2026/04/08	
Project Management 873 & 713	2026/06/01	2026/06/02	2026/06/23	2026/06/24	2026/07/22	
Project Economics & Finance 812 & 711	2026/09/07	2026/09/08	2026/09/28	2026/09/29	2026/09/30	
Numerical Methods 876 & 776	2026/05/28	2026/06/04	2026/06/18	2026/07/02		
Introduction to Sustainable Transitions (Elective)	2026/06/10	2026/06/11	2026/06/17	2026/06/18	2026/06/26	
Advanced Topics in Engineering Management 874 (Elective)	2026/09/09	2026/09/16	2026/09/22	2026/10/07	2026/10/21	
MECHANICAL AND MECHATRONIC ENGINEERING						
Renewable Energy Systems 714	2026/03/04	2026/03/05	2026/03/11	2026/03/12	2026/03/13	
Solar Thermal Energy Systems 714 & 814	2026/08/27	2026/08/28	2026/09/03	2026/09/04	2026/09/11	
Wind Energy 744 & 844	2026/10/05	2026/10/06	2026/10/13	2026/10/14	2026/10/20	
Research Methodology (Compulsory) 814	2026/02/11	2026/02/12	2026/04/09	2026/04/10		
M.ENG RESEARCH MODULES						
Robotics 814	2026/02/25	2026/02/26	2026/04/16	2026/04/17		
Advanced Thermofluid System Modelling I	2026/03/09	2026/03/11	2026/03/13	2026/04/20	2026/04/22	2026/04/24
Advanced Fluid Dynamics	2026/05/05	2026/05/12	2026/05/26			
Industrial Heat Exchangers				T.B.C.		
Numerical Fluid Dynamics 414 (UG Module)				Complete semester per undergrad schedule		
Aerodynamics				Weekly 1.5 hr Teams lecture between 2026/02/16 and 2026/04/10. Exact times as arranged with students.		
Aircraft Performance Analysis				Weekly 1.5 hr Teams lecture between 2026/02/16 and 2026/04/10. Exact times as arranged with students.		
Aircraft Stability and Control				Weekly 1.5 hr Teams lecture between 2026/02/16 and 2026/04/10. Exact times as arranged with students.		
Advanced Design				February & May 2026 (Exact dates will be communicated directly with students)		
Advanced Dynamics				February & May 2026 (Exact dates will be communicated directly with students)		
Holonic Communication and Control				Mostly self study with in-person engagement lectures in block format (1 or 2 days) on 12/13 March and 23/24 April 2026. Mostly project/assignment (report) based with peer review of assignments and in-person demonstrations of projects in April, May and June 2026. There are no tests or exams.		
Materials Characterisation				Self-study: February - May 2026		
Stereo Vision				Mid-Feb - Mid-May 2026		
Finite Element Methods 414 (UG Module)				Complete semester per undergrad schedule		
MECHANICAL AND MECHATRONIC ENGINEERING (BIOMEDICAL ENGINEERING)						
Biomedical Engineering 874	2026/02/19	2026/02/20	2026/03/26	2026/03/27		
Biomedical Engineering Design 814	2026/02/26	2026/02/27	2026/03/19	2026/03/20		
CRSES						
Smart Grid Technology Overview 774 & 874	2026/03/02	2026/03/03	2026/03/09	2026/03/10	2026/03/18	
Hydrogen in the Energy System 774 & 874	2026/05/18	2026/05/19	2026/05/25	2026/05/26	2026/06/05	
Advanced PV Systems 744 & 844	2026/05/20	2026/05/21	2026/05/27	2026/05/29	2026/06/03	
Energy Storage Systems 774 & 874	2026/06/08	2026/06/09	2026/06/22	2026/06/25	2026/06/26	
Solar Thermal Energy Systems 714 & 814	2026/08/27	2026/08/28	2026/09/03	2026/09/04	2026/09/11	
Smart Grid Communications	2026/03/02	2026/03/03	2026/03/09	2026/03/10	2026/03/18	
Bioenergy	2026/08/24	2026/08/25	2026/09/01	2026/09/02	2026/09/10	
Renewable Energy Systems	2026/03/04	2026/03/05	2026/03/11	2026/03/12	2026/03/13	
Power System Data Analytics	2026/03/04	2026/03/24	2026/03/30	2026/03/31	2026/04/06	
Long-term Power System Planning	2026/03/25	2026/03/26	2026/04/01	2026/04/02	2026/04/09	
Distribution Customer Concepts	2026/05/18	2026/05/19	2026/05/25	2026/05/26	2026/06/05	
Power System Operations	2026/03/23	2026/03/24	2026/03/30	2026/03/31	2026/04/06	
Green Hydrogen Project Engineering	2026/07/27	2026/07/28	2026/08/03	2026/08/04	2026/08/10	
IMPORTANT DATES						
PG Welcoming Session: Compulsory attendance.Outlook Invitation to all new students in January '26						
Semester 1: 9 Feb - 8 May Semester Break: Monday 11 May - Friday 15 May						
Semester 2: 18 May - 14 Aug Semester Break: Monday 17 Aug - Friday 21 Aug						
Semester 3: Monday 24 Aug - Friday 20 Nov						