

# 2025 TIMETABLE (to be confirmed Jan 2025)

Modules	Code	PGDip level	MEng level	Pre reading start	Lecture block days	Post block end	Block week presentation mode	Lecturer
<b>Compulsory Core Data Science modules</b>								
<i>2025 Data Sciences PGDip students take 6 modules: DS, AML, OPT, DA, BDT, ADL - Data Sciences MEng students take 5 modules: DS, AML, OPT, DA, BDT continuing PGDip students need Prog R, DS, AML, OPT, DA, BDT to graduate and can register for ADL as additional module</i>								
<b>Programming in R (Eng)</b> <i>Presented by Industrial Engineering</i> <i>Only offered for PGDip students who need to repeat the module !! Note you must be fully registered before the pre-reading.</i>	14191	774		20 Jan 25	3 Feb to 7 Feb 25	20 Mar 25	selfstudy	Dr E Vermeulen / euodia@sun.ac.za
<b>Data Science (Eng) (DS)</b> <i>Presented by Industrial Engineering</i> <i>Pre-requisite: Programming at 1st year university level or equivalent (students outside the DS programmes to confirm with the Data Sciences lecturer)</i>	14190	774	874	24 Feb 25	10 Mar to 14 Mar 25	25 Apr 25	F2F & online	Prof M Gwetu mgwetu@sun.ac.za
<b>Applied Machine Learning (AML)</b> <i>Presented by Industrial Engineering</i> <i>Co-requisite: Data Sciences 774/874</i>	14022	774	874	17 Mar 25	31 Mar + 1 Apr 25 14 Apr + 15 Apr 25 29 Apr 25	11 May 25	F2F*/ online	Prof AP Englebrect engel@sun.ac.za
<b>Optimisation (Eng) (OPT)</b> <i>Presented by Industrial Engineering</i> <i>Co-requisite: Data Sciences 774/874; AML 774/874</i>	14020	774	874	19 May 25	2 Jun + 3 Jun 25 17 Jun + 18 Jun 25 30 Jun 25	13 Jul 25	F2F*/ online	Prof J Grobler jacominegrobler@sun.ac.za / Dr P Venter philipzventer@sun.ac.za
<b>Data Analytics (Eng) (DA)</b> <i>Presented by Industrial Engineering</i> <i>Co-requisite: Data Sciences 774/874; AML 774/874; Optimisation 774/874</i>	13856	774	874	21 Jul 25	Tue 5 Aug + Wed 6 Aug 25 Tue 19 Aug + Wed 20 Aug 25 Fr 29 Aug 25 (tbc)	14 Sep 25	F2F*/ online	Dr E Vermeulen / euodia@sun.ac.za
<b>Big Data Technologies (BDT)</b> <i>Presented by Industrial Engineering</i> <i>Co-requisite: Data Sciences 774/874; AML 774/874</i>	14189	774	874	18 Aug 25	Tue 2 Sep + Wed 3 Sep 25 15 Sep + 16 Sep 25 29 Sep 25	12 Oct 25	F2F*/ online	Dr J Du Toit jacques@spatialogd.e.ai
<b>Applied Deep Learning (ADL)</b> <i>Presented by Industrial Engineering</i> <i>Co-requisite: Data Sciences 774/874; AML 774/874; Optimisation 774/874</i>	14900	774	see section spec modules	8 Sep 25	22 Sep + 23 Sep 25 6 Oct + 7 Oct 25 20 Oct 25	2 Nov 25	F2F*/ online	Mr E Burger eldonburger@sun.ac.za
<b>Specialization modules</b> <i>Data Sciences MEng students choose one specialization module.</i>								
<b>Internet of Things (IoT)</b> <i>Presented by Industrial Engineering</i> <i>Co-requisite: n.a.</i>	14771	n.a.	874	30 Jun 25	Fri 11 Jul to Thu 17 Jul 25	29 Aug 25	F2F*/ online	Prof Thinus Booysen mjooyesen@sun.ac.za
<b>Applied Deep Learning (ADL)</b> <i>Presented by Industrial Engineering</i> <i>Co-requisite: Data Sciences 774/874; AML 774/874; Optimisation 774/874</i>	14901	see section core modules	874	8 Sep 25	22 Sep + 23 Sep 25 6 Oct + 7 Oct 25 20 Oct 25	2 Nov 25	F2F*/ online	Mr E Burger eldonburger@sun.ac.za
Robotics I**** Robotics II**** <i>Presented by Mechanical &amp; Mechatronic Eng.</i> <i>Note:pre-requisites! contact mfrei@sun.ac.za</i>	13014	n.a.	814	See information on SUNLearn module	19 Feb + 20 Feb 25 3 Apr + 4 Apr 25	See information on SUNLearn module	F2F only	M&M dept.
Advanced Dynamics I**** Advanced Dynamics II**** <i>Presented by Mechanical &amp; Mechatronic Eng.</i> <i>Note:pre-requisites! contact mfrei@sun.ac.za</i>	62960	n.a.	814	See information on SUNLearn module	27 Mar + 28 Mar 25 29 Apr + 30 Apr 25	See information on SUNLearn module	F2F only	M&M dept.
<b>Elective and Generic modules</b> <i>Data Sciences PGDip students take the two generic modules : Project Management 713 and Industrial Management 744.</i> <i>Data Sciences MEng students choose two of the modules listed below.</i>								
<b>Advanced Topics in Engineering Management (ATEM) / Industrial Management (IM)</b> <i>Presented by Industrial Engineering</i>	11748 53937	744	873	10 Feb 25	24 Feb to 28 Feb 25	11 Apr 25	F2F & online	Prof S Grobelaar ssgrobelaar@sun.ac.za / Prof C Pristorius cpristorius@sun.ac.za
<b>Numerical Methods I** Numerical Methods II**</b> <i>Presented by Div. of Applied Mathematics</i>	36323		876	See information on SUNLearn module	19 Mar + 20 Mar 25 16 Apr + 17 Apr 25	See information on SUNLearn module	F2F & online	Prof Hale nickhale@sun.ac.za
<b>Project Management (PM)</b> <i>Presented by Industrial Engineering</i>	51993	713	873	26 May 25	9 Jun to 13 Jun 25	25 Jul 25	F2F & online	Prof T Barnard tarynbarnard@sun.ac.za
<b>Project Economics and Finance***</b> <i>Presented by Dep. Civil Engineering</i>	58157		812	Pre-reading posted on SUNLearn	5 May to 9 May 25	See information on SUNLearn module	F2F & online	Mr C Jurgens cj@sun.ac.za
<b>Additional Compulsory Module</b>								
Professional Communication	59447	771	871	Module opens end of February	Selfstudy module on SUNLEARN with deadline 11 April 2024		online selfpaced	Dr M Frei mfrei@sun.ac.za / Ms A Buchholz
<b>MEng struc: Research assignment module</b>								
<b>Research assignment (Industrial Engineering) 60 credits</b>	10881		876		The submission dates are listed on the SUNLearn module			Prof AP Englebrect engel@sun.ac.za & supervisors
<i>Pre-requisite: Passing of all 5 core modules to start the assignment in the next year. You might need to bid before all marks are released.</i>								
<i>Note: 7xx modules are taught on PGDip level. 8xx modules are taught on MEng level.</i>								

\* Check on the respective SUNLearn module if this module is offered synchronous online only or F2F additionally

\*\* This module is offered by the Applied Maths Department. Enquire details on <https://appliedmaths.sun.ac.za/Postgrad/>

\*\*\* This module is offered by the Dept. of Civil Engineering. Enquire details on presentation mode/module structure here: <https://civeng.sun.ac.za/current-postgraduates/>

\*\*\*\* This module is offered by the Dep. of Mechanical&Mechatronic Engineering. Enquire details on pre-requisites/presentation mode/module structure/confirmation of presentation dates here: <https://www.mecheng.sun.ac.za/postgraduate-programmes/prospective-postgraduate/> In 2025 Adv Dyn cannot be taken in the same year as AML 874. Regarding fulfillment of pre-requisites contact mfrei@sun.ac.za BEFORE registering for the modules if you want to choose these modules.