

Design, Manufacture and Project (MMME/2044) – Schedule for Academic Year 2022-2023, Autumn Semester

Issue 4: 10 Oct 2022

Module Conveners: Dr Hengan Ou (h.ou@nottingham.ac.uk); Dr Khaled Goher (khaled.goher@nottingham.ac.uk)

Autumn Semester				
Week	Commencing	Lecture (Physics B1)	Design Tutorial and Feedback (Practical) (ESLC B01, B07, B04 & B05)	CAE and Project support (Computing) (ESLC B01 & B07)
		Monday 15:00 – 17:00	Thursday 9:00 – 11:00	Friday 16:00 - 18:00
3	3-Oct-2022	(1a) Introduction to Module (HO/KG/GK)* (1b) Introduction to group D&M project (GK/HO/KG)	Meet with your tutor & group members, discuss design requirements & concept generation	Solidworks installation Solidworks modelling & drawings for 2 nd year direct-entrant students (CAE0)
4	10-Oct-2022	(2) Linkage mechanisms (KG)	Explain your choice of concepts & evaluation	Solidworks modelling (CAE 1&2) Support for group D&M activities
5	17-Oct-2022	(3) Design & Make Clinic (HO/KG/GK)	Prepare for PDR submission	
6	24-Oct-2022	(4) Pneumatics (KG)	Tutor review on draft PDR report	
7	31-Oct-2022	(5) Shaft Design (HO)	Solidworks assembly & initial GA drawings Tutor feedback to PDR submission	Solidworks GA & detail drawings, specification of fits & tolerances (CAE 3) Support for group D&M activities
8	7-Nov-2022	(6) Seals (HO)	Updated GA drawings, detail drawings & detailed calculations.	
9	14-Nov-2022	(7) Bearings 1 – Plain & Hydrodynamic Bearings (KG)	Prepare & discuss cutting list, process sheets & manufacturing plan	Support for group D&M CDR submission
10	21-Nov-2022	(8) Joints (HO)	Full set of drawings, initial cutting list, process sheets and manufacturing plan	
11	28-Nov-2022	(9) Design & Make Clinic (HO/KG/GK)	Prepare summative CDR submission	
12	5-Dec-2022	(10) Bearings 2 - Rolling Element Bearings (KG)	Tutor review on updated CDR report	
13	12-Dec-2022	(11) Gears 1 (HO)		
	19-Dec-2022 ~ 13-Jan-2023	Vacation		

Formative submission date: Group D&M project PDR submission: 3pm, Friday, 28th October 2022

Summative submission date: Group D&M project CDR submission: 3pm, Friday, 9th December 2022

* HO: Dr Hengan Ou; KG: Dr Khaled Goher; GK: Professor Geoff Kirk