

LIST OF APPROVED ELECTIVE COURSES
AEROSPACE ENGINEERING

NO.	COURSE NAME	COURSE ID	SEMESTER
1	Finite Element Methods and Applications	2142352	1
2	Failure Analysis and NDT	2142433	1
3	Introduction to Computational Fluid Dynamics	2145421	1
4	Aircraft Repair Philosophy	2145460	1
5	Flight Experience	2145471	1
6	Introduction to Unmanned Aerial Vehicles (UAV)	2145481	1
7	UAS Flight Operation and Certification	2145492	1
8*	Introduction to Space Environment and Space Mission	2145493	1
9	Big Data and Artificial Intelligence (AI)	2143488	2
10	Engineering Acoustics	2145325	2
11	Gas Dynamics	2145422	2
12	Airframe Structure and Systems	2145440	2
13	Materials for Aerospace Engineering	2145453	2
14*	Rocket Propulsion	2145473	2
15	Advanced UAS	2145494	2
16	Independent Study	2145495	2
17	Heat Transfer	2183321	2
18	Quality Design and Innovation Management	2184407	2
19	Topics in Aerospace Engineering I	2145462	1,2
20	Topics in Aerospace Engineering II	2145463	1,2
21	Topics in Engineering I	2145465	1,2
22	Topics in Engineering II	2145466	1,2
23	Topics and Projects in Aerospace Industry I	2145480	1,2
24	Topics and Projects in Aerospace Industry II	2145482	1,2
25	Topics and Projects in Aerospace Industry III	2145483	1,2
26	Topics and Projects in Aerospace Industry IV	2145484	1,2
27	Topics and projects in Aerospace Engineering I	2145485	1,2
28	Topics and projects in Aerospace Engineering II	2145486	1,2
29	Selected Topics in Aerospace Engineering I	2145497	1,2
30	Selected Topics in Aerospace Engineering II	2145498	1,2

* Required course for students ID 63xxx and onwards

- For students ID 61xxx – 65xxx, the total of **12 credits** of *approved elective course* are required, with the following conditions:
 - at least **9** credits must be from the courses ON THIS LIST
 - at most **3** credits can be from other engineering courses
- For students ID 66xxx – 70xxx, the total of **6 credits** of *approved elective course* are required.
- For course availability, please check with ISE class schedule