Table of Curriculum(Undergraduate)

Classificat ion	Subject No.	Subject Code	Subject Name	Lecture:Lab.: Credit (Homework)	Semester	Remark
Elective Basic	AE100	B8.100	Sky and Space	3:0:3(6)	Fall	
	AE210	B8.210	Aerospace Thermodynamics	3:0:3(6)	Spring	
	AE220	B8.220	Aerodynamics I	3:0:3(6)	Fall	
Manda-	AE300	B8.230	Flight Mechanics Project	3:1:3(6)	Spring	
tory major	AE208	B8.208	Aerospace Engineering Laboratory I	2:3:3(3)	Fall	
courses	AE307	B8.309	Aerospace Engineering Laboratory II	1:6:3(3)	Fall	
	AE330	B8.330	Aerospace Structures I	3:0:3(6)	Spring	
	AE400	B8.400	Aerospace System Design I	2:3:3(6)	Spring	
	AE200	B8.200	Introductory Space Projects	2:3:3(6)	Fall	
	AE230	B8.230	Mechanics of Aerospace Materials	3:0:3(6)	Spring	
	AE250	B8.250	Aerospace Dynamics	3:0:3(6)	Fall	
	AE280	B8.280	Software Application in Aerospace Engineering	2:3:3(6)	Spring	
	AE310	B8.310	Propulsion System	3:0:3(6)	Fall	
	AE311	B8.311	Aerospace Heat Transfer	3:0:3(6)	Spring	
Elective	AE320	B8.320	Aerodynamics II	3:0:3(6)	Spring	
major	AE350	B8.350	Aerospace Control Engineering	3:1:3(6)	Fall	
courses	AE370	B8.370	Numerical Methods	3:0:3(6)	Spring	
	AE321	B8.321	Compressible Aerodynamics	3:0:3(6)	Fall	
A	AE331	B8.331	Aerospace Structures II	3:0:3(6)	Fall	
d	AE401	B8.401	Aerospace System Design II	2:3:3(6)	Fall	0
V	AE405	B8.405	Satellite Systems	3:0:3(6)	Fall	0
a n	AE410	B8.410	Combustion Engineering	3:0:3(6)	Spring	0
С	AE420	B8.420	Viscous Aerodynamics	3:0:3(6)	Fall	0
e d	AE435	B8.435	Vibration & Basic Aeroelasticity	3:0:3(6)	Spring	0
l u	AE450	B8.450	Flight Dynamics and Control	3:0:3(6)	Fall	0
М	AE455	B8.455	Global Positioning System	3:0:3(6)	Fall	0
a	AE480	B8.480	Aerospace Applied Electronics	2:3:3(6)	Spring	0
j o r	AE492	B8.492	Special Lectures in Aerospace Engineering	3:0:3(6)	Spring and Fall	0
	AE493	B8.493	Special Lectures in Aerospace Engineering II	2:0:2(3)	Fall	0
	AE490	B8.490	Thesis Study	0:6:3	Fall	
Research	AE495	B8.495	Individual Study	0:6:1	Fall	
	AE496	B8.496	Seminar	1:0:1	Spring and Fall	

Table of Curriculum(Graduate)

	sifica on	Subject No.	Subject Code	Subject Name	Lecture:Lab.: Credit (Homework)	Semester	Remark
	Man	CC010	11.010	Special Lecture on Leadership	1:0:0	Fall	
dat ory Ma	CC020	11.020	Ethics and Safety I	1AU	Spring and Fall		
	CC510	11.510	Introduction to Computer Application	2:3:3	Spring and Fall		
tory Ge		CC511	11.511	Probability and Statistics	2:3:3	Spring and Fall	
ner al	Cho	CC512	11.512	Introduction to Materials Science and Engineering	3:0:3	Spring and Fall	
Со	ose 1	CC513	11.513	Engineering Economy and Cost Analysis	3:0:3	Fall	
urs		CC522	11.522	Introduction to Instruments	2:3:3	Fall	
es		CC530	11.530	Entrepreneurship and Business Strategies	3:0:3	Spring and Fall	
		CC532	11.532	Collaborative System Design and Engineering	4:0:4	Spring	
		AE500	B8.500	Synthetic Design of Aerospace Systems	3:1:3(6)	Fall	0
		AE501	B8.501	Multidisciplinary Design Optimization for Aerospace Systems	3:0:3(6)	Spring	0
		AE505	B8.505	Appraisal of Engineering Projects under Uncertainty	3:0:3(6)	Spring	0
		AE510	B8.510	Aerothermochemistry and Combustion	3:0:3(6)	Fall	0
		AE511	B8.511	Radiation and Combustion Phenomena	3:0:3(6)	Fall	0
		AE515	B8.515	Advanced Space Propulsion Systems	3:0:3(6)	Spring	0
		AE516	B8.516	Rocket System Engineering	3:0:3(6)	Fall	0
		AE520	B8.520	Advanced Aerodynamics	3:0:3(6)	Spring	0
		AE521	B8.521	Helicopter Aeromechanics	3:0:3(6)	Spring	0
		AE522	B8.522	Computational Fluid Dynamics	3:0:3(6)	Fall	0
		AE523	B8.523	Aeroacoustics	3:0:3(6)	Fall	0
		AE525	B8.525	Experimental Aerodynamics	1:6:3(6)	Spring	0
		AE530	B8.530	Flight Vehicle Structures	3:0:3(6)	Spring	0
		AE531	B8.531	Structural Dynamics	3:0:3(6)	Spring	0
		AE532	B8.532	Mechanics of Composite Materials	3:0:3(6)	Fall	0
	ctive	AE535	B8.535	Smart Composite Lab	2:3:3(6)	Fall	0
	ajor urse	AE550	B8.550	Spacecraft Attitude Dynamics and Control	3:0:3(6)	Spring	0
		AE551	B8.551	Introduction to Optimal Control	3:0:3(6)	Spring	0
		AE552	B8.552	Advanced Linear Stability and Control	3:0:3(6)	Fall	0
	,	AE555	B8.555	Spacecraft Trajectory Guidance and Control	3:0:3(6)	Spring	0
		AE580	B8.580	GNSS Remote Sensing	3:0:3(6)	Spring	0
		AE590	B8.590	Special Topics in Aerospace Engineering II	3:0:3(6)	Spring and Fall	0
		AE620	B8.620	Advanced Gas Dynamics	3:0:3(6)	Spring	
		AE621	B8.621	Hypersonics Aerodynamics	3:0:3(6)	Spring	
	AE623	B8.623	Unsteady Fluid Flows	3:0:3(6)	Fall		
	AE630	B8.630	Theory of Plates and Shells	3:0:3(6)	Fall		
	AE631	B8.631	Aeroelasticity	3:0:3(6)	Fall		
	AE650	B8.650	Navigation and Guidance	3:0:3(6)	Spring		
		AE651	B8.651	Advanced Navigation Systems and Applications	3:1:3(6)	Fall	
		AE655	B8.655	Experiments in Flight Control	2:3:3(6)	Spring	
ľ		AE810	B8.810	Special Topics in Propulsion and Combustion	3:0:3(6)	Fall	

Classifica tion	Subject No.	Subject Code	Subject Name	Lecture:Lab.: Credit (Homework)	Semester	Remark
	AE820 B8.820 Special Topics in Aerodynamics		3:0:3(6)	Fall		
	AE830	B8.830	Special Topics in Flight Vehicle Structures	3:0:3(6)	Fall	
	AE850	B8.850	Special Topics in Flight Mechanics and Control	3:0:3(6)	Fall	
	AE890	B8.890	Special Topics in Aerospace Engineering	3:0:3(6)	Spring and Fall	
Research	AE960	B8.960	Thesis(M.S. Program)		Spring and Fall	
	AE980	B8.966	Seminar(M.S. Program)		Spring and Fall	
	AE966	B8.980	Thesis(Ph.D Program)	1:0:1	Spring and Fall	
	AE986	B8.986	Seminar(Ph.D Program)	1:0:1	Spring and Fall	

Substitute Course List

Substitute courses in the department							
•	Cour	ses currently offered		Courses not currently offered			
Category	Course no.	Course title	Course no.	Course title	Remark		
Under- graduate	AE100	Sky and Space	MAE107	Sky and Space	Abolition		
Under- graduate	AE200	Introductory Space Projects	MAE291	Introductory Space Projects	Abolition		
Under-	AE208	Aerospace Engineering	MAE308	Aerospace Engineering Laboratory I	Abolition		
graduate	ALZUO	Laboratory I	AE308	Aerospace Engineering Laboratory I	Abolition		
Under- graduate	AE210	Aerospace Thermodynamics	MAE210	Thermodynamics	Abolition		
Under- graduate	AE220	Aerodynamics I	MAE220	Fluid Mechanics	Abolition		
Under- graduate	AE230	Mechanics of Aerospace Materials	MAE230	Solid Mechanics	Abolition		
Under- graduate	AE250	Aerospace Dynamics	MAE250	Dynamics	Abolition		
Under- graduate	AE280	Software Application in Aerospace Engineering	MAE285	Software Application in Aerospace Engineering	Abolition		
Under-	AE300	er- 45200	AF200 Flight Madessics Decise	MAE292	Introductory Aeronautical Projects	Abolition	
graduate		Flight Mechanics Project	MAE365	Flight Mechanics	Abolition		
Under-	AE307	Aerospace Engineering	MAE309	Aerospace Engineering Laboratory II	Abolition		
graduate		Laboratory II	AE309	Aerospace Engineering Laboratory II	Abolition		
Under- graduate	AE310	Propulsion System	MAE315	Propulsion System	Abolition		
Under- graduate	AE311	Aerospace Heat Transfer	MAE311	Heat Transfer	Abolition		
Under- graduate	AE320	Aerodynamics II	MAE325	Aerodynamics	Abolition		
Under- graduate	AE321	Compressible Aerodynamics	MAE326	Compressible Aerodynamics	Abolition		
Under- graduate	AE330	Aerospace Structures I	MAE335	Aerospace Structures	Abolition		
Under- graduate	AE331	Aerospace Structures II	MAE435	Computational Methods in Aerospace Engineering	Abolition		
Under- graduate	AE350	Aerospace Control Engineering	MAE464	Fundamentals of Control Theory and Practice	Abolition		
Under- graduate	AE370	Numerical Methods	MAE301	Numerical Methods	Abolition		
Under- graduate	AE400	Aerospace System Design I	MAE405	Aerospace System Design I	Abolition		
Under- graduate	AE401	Aerospace System Design	MAE406	Aerospace System Design II	Abolition		
Under- graduate	AE405	Satellite Systems	MAE466	Satellite Systems	Abolition		
Under- graduate	AE410	Combustion Engineering	MAE415	Combustion Engineering	Abolition		
Under- graduate	AE420	Viscous Aerodynamics	MAE425	Viscous Aerodynamics	Abolition		
Under- graduate	AE450	Flight Dynamics and Control	MAE465	Flight Dynamics and Control	Abolition		

Substitute courses in the department							
C-1	Cours	ses currently offered	Courses not currently offered				
Category	Course no.	Course title	Course no.	Course title	Remark		
Under- graduate	AE455	Global Positioning System	MAE463	Synthetic Design of Aerospace Systems	Abolition		
Under-	AE480	Aerospace Applied	MAE300	Multidisciplinary Design Optimization for Aerospace Systems	Abolition		
graduate	AE400	Electronics	MAE467	Appraisal of Engineering Projects under Uncertainty	Abolition		
Under- graduate	AE493	Special Lectures in Aerospace Engineering II	MAE499	Aerothermochemistry and Combustion	Abolition		
Graduate	AE500	Synthetic Design of Aerospace Systems	MAE565	Radiation and Combustion Phenomena	Abolition		
Graduate	AE501	Multidisciplinary Design Optimization for Aerospace Systems	MAE558	Advanced Space Propulsion Systems	Abolition		
Graduate	AE505	Appraisal of Engineering Projects under Uncertainty	MAE557	Rocket System Engineering	Abolition		
Graduate	AE510	Aerothermochemistry and Combustion	MAE593	Advanced Aerodynamics	Abolition		
Graduate	AE511	Radiation and Combustion Phenomena	MAE594	Helicopter Aeromechanics	Abolition		
Graduate	AE515	Advanced Space Propulsion Systems	MAE555	Computational Fluid Dynamics	Abolition		
Graduate	AE516	Rocket System Engineering	MAE518	Aeroacoustics	Abolition		
Graduate	AE520	Advanced Aerodynamics	MAE522	Experimental Aerodynamics	Abolition		
Graduate	AE521	Helicopter Aeromechanics	MAE523	Flight Vehicle Structures	Abolition		
Graduate	AE522	Computational Fluid Dynamics	MAE524	Structural Dynamics	Abolition		
Graduate	AE523	Aeroacoustics	MAE528	Mechanics of Composite Materials	Abolition		
Graduate	AE525	Experimental Aerodynamics	MAE527	Smart Composite Lab	Abolition		
Graduate	AE530	Flight Vehicle Structures	MAE538	Spacecraft Attitude Dynamics and Control	Abolition		
Graduate	AE531	Structural Dynamics	MAE540	Introduction to Optimal Control	Abolition		
Graduate	AE532	Mechanics of Composite Materials	MAE542	Advanced Linear Stability and Control	Abolition		
Graduate	AE535	Smart Composite Lab	MAE584	Spacecraft Trajectory Guidance and Control	Abolition		
Graduate	AE550	Spacecraft Attitude Dynamics and Control	MAE597	GNSS Remote Sensing	Abolition		
Graduate	AE551	Introduction to Optimal Control	MAE595	Advanced Gas Dynamics	Abolition		
Graduate	AE552	Advanced Linear Stability and Control	MAE596	Advanced Linear Stability and Control	Abolition		
Graduate	AE555	Spacecraft Trajectory Guidance and Control	MAE566	Spacecraft Trajectory Guidance and Control	Abolition		
Graduate	AE580	GNSS Remote Sensing	MAE556	GNSS Remote Sensing	Abolition		
Graduate	AE620	Advanced Gas Dynamics	MAE625	Advanced Gas Dynamics	Abolition		

Substitute courses in the department							
	Cours	ses currently offered		Courses not currently offered			
Category	Course no.	Course title	Course no.	Course title	Remark		
		AE621 Hypersonics Aerodynamics	MAE626	Hypersonics Aerodynamics	Abolition		
Conducto	A.F.C.2.1		MAE726	Equilibrium Hypersonic Aerothermodynamics	Abolition		
Graduate	AE021		MAE727	Nonequilibrium Hypersonic Aerothermodynamics	Abolition		
			MAE728	Reentry Aerothermodynamics	Abolition		
Graduate	AE623	Unsteady Fluid Flows	MAE628	Unsteady Fluid Flows	Abolition		
Graduate	AE630	Theory of Plates and Shells	MAE636	Theory of Plates and Shells	Abolition		
Graduate	AE631	Aeroelasticity	MAE637	Aeroelasticity	Abolition		
Graduate	AE650	Navigation and Guidance	MAE663	Navigation and Guidance	Abolition		
Graduate	AE651	Advanced Navigation Systems and Applications	MAE665	Advanced Navigation Systems and Applications	Abolition		
Graduate	AE655	Experiments in Flight Control	MAE663	Experiments in Flight Control	Abolition		
Graduate	AE810	Special Topics in Propulsion and Combustion	MAE860	Special Topics in Propulsion and Combustion	Abolition		
Graduate	AE820	Special Topics in Aerodynamics	MAE820	Special Topics in Aerodynamics	Abolition		
Graduate	AE830	Special Topics in Flight Vehicle Structures	MAE840	Special Topics in Flight Vehicle Structures	Abolition		
Graduate	AE850	Special Topics in Flight Mechanics and Control	MAE880	Special Topics in Flight Mechanics and Control	Abolition		

Substitute courses in the department							
Category	Course of	fered by the department	Course offered by other departments				
	Course no.	Course title	Course no.	Course title	Remark		
Under- graduate	AE210	Aerospace Thermodynamics	ME211	Thermodynamics	unidirectional		
Under- graduate	AE230	Mechanics of Aerospace Materials	ME231	Solid Mechanics	unidirectional		
Under- graduate	AE311	Aerospace Heat Transfer	ME311	Heat Transfer	unidirectional		
Under- graduate	AE370	Numerical Methods	ME301	Numerical Methods	unidirectional		