

COURSE LIST



Aviation and Aerospace University, Bangladesh Department of Aerospace Engineering

Class Routine: July - Dec 2026

Program: B.Sc. in Aerospace Engineering

Batch: 05

Semester: 05

Course Coordinator: Flt Lt Anik Chawdhury

Faculty Member, Department of Aerospace Engineering

Mob: +88 01769995099 Email: anikchawdhury@aaub.edu.bd

Course Code	Course Name	Course Type	Faculty 01	Faculty 02
ASE 4513	Aerodynamics	Theory	Lec. Md. Toufiq Islam Noor (TFQ)	Lec. Mushfiq Al Arafa (MSFQ)
ASE 4557	Aerospace Vehicle Dynamics and Control	Theory	Chairman of Department (COD)	Lec. Samia Islam (SAM)
ASE 4533	Aerospace Vehicle Structure	Theory	Asst. Prof. Dr. Saiaf Bin Rayhan (SAF)	Lec. Shafiul Islam (SHF)
ASE 4543	Heat Transfer	Theory	Lec. Md Ikramul Hasib (HSB)	Lec. Riaj Mahmud (RIAJ)
ASE 4551	Aircraft Systems	Theory	Air Cdre (Retd) Md. Abdus Salam (SLM)	Sqn Ldr Shahrukh Arman (SAR)
ASE 4514	Aerodynamics Sessional	Sessional	Lec. Md. Toufiq Islam Noor (TFQ)	Lec. Mushfiq Al Arafa (MSFQ)
ASE 4534	Aerospace Vehicle Structure Sessional	Sessional	Asst. Prof. Dr. Saiaf Bin Rayhan (SAF)	Lec. Shafiul Islam (SHF)
ASE 4544	Heat Transfer Sessional	Sessional	Lec. Md Ikramul Hasib (HSB)	Lec. Riaj Mahmud (RIAJ)
ASE 4552	Aircraft Systems Sessional	Sessional	Air Cdre (Retd) Md. Abdus Salam (SLM)	Sqn Ldr Shahrukh Arman (SAR)



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Sunday 09-08-26		ASE 4543 HSB / RIAJ Classroom: 301 1/42: Heat transfer modes 2/42: Thermal conductivity temperature effects		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 1/14:		
Monday 10-08-26	ASE 4543 HSB / RIAJ 301 3/42: Conduction equation coordinate forms	ASE 4557 COD / SAM Classroom: 301 1/42: Stability Concept Overview 2/42: Requirements for Dynamic Stability		R	ASE 4513 TFQ / MSFQ 301 1/42: Fundamental Aerodynamic Variables		
Tuesday 11-08-26		ASE 4533 SAF / SHF Classroom: 301 1/42: Orientation; fundamentals review 2/42: Plane stress; principal stresses		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 1/14:		
Wednesday 12-08-26	HOLIDAY						
Thursday 13-08-26	ASE 4533 SAF / SHF 301 3/42: Von Mises and Tresca	ASE 4513 TFQ / MSFQ Classroom: 301 2/42: Aerodynamic Forces and Moments 3/42: Centre of Pressure, Aerodynamic Centre		K	ASE 4551 SLM / SAR 301 1/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 1/14:	



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Sunday 16-08-26		ASE 4543 HSB / RIAJ Classroom: 301 4/42: Conduction boundary conditions 5/42: Composite plane-wall conduction		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 2/14:		
Monday 17-08-26	ASE 4543 HSB / RIAJ 301 6/42: Composite cylindrical conduction	ASE 4557 COD / SAM Classroom: 301 3/42: Wing Contribution to Stability 4/42: Fuselage and Tail Contribution		R	ASE 4513 TFQ / MSFQ 301 4/42: Review of Vector Relations		
Tuesday 18-08-26		ASE 4533 SAF / SHF Classroom: 301 4/42: Energy methods: strain energy 5/42: Virtual work; Castigliano's theorem		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 2/14:		
Wednesday 19-08-26	ASE 4557 COD / SAM 301 5/42: Fuselage & Interference Effect	ASE 4551 SLM / SAR Classroom: 301 2/42: 3/42:		A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 1/14:		
Thursday 20-08-26	ASE 4533 SAF / SHF 301 6/42: Statically indeterminate structures	ASE 4513 TFQ / MSFQ Classroom: 301 5/42: Models of the Fluid 6/42: Review of Governing Equations		K	ASE 4551 SLM / SAR 301 4/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 2/14:	



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Sunday 23-08-26		ASE 4543 HSB / RIAJ Classroom: 301 7/42: Contact resistance insulation thickness 8/42: Fin heat transfer fundamentals		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 3/14:		
Monday 24-08-26	ASE 4543 HSB / RIAJ 301 9/42: Fin efficiency effectiveness resistance	ASE 4557 COD / SAM Classroom: 301 6/42:Engine and Nacelle Effects 7/42:Dorsal Fin and Contribution		R	ASE 4513 TFQ / MSFQ 301 7/42: Pathlines, Streamlines and Streaklnes		
Tuesday 25-08-26		ASE 4533 SAF / SHF Classroom: 301 7/42: Unsymmetrical bending: section properties 8/42: Unsymmetrical bending: stresses		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 3/14:		
Wednesday 26-08-26	HOLIDAY						
Thursday 27-08-26	ASE 4533 SAF / SHF 301 9/42: Unsymmetrical bending: neutral axis	ASE 4513 TFQ / MSFQ Classroom: 301 8/42: Angular Velocity, Vorticity and Strain 9/42: Circulation		K	ASE 4551 SLM / SAR 301 5/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 3/14:	



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Sunday 30-08-26		ASE 4543 HSB / RIAJ Classroom: 301 10/42: Conduction with heat generation 11/42: CT-1		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 4/14:		
Monday 31-08-26	ASE 4543 HSB / RIAJ 301 12/42: Multidimensional conduction methods	ASE 4557 COD / SAM Classroom: 301 8/42: Analytical Directional Stability Evaluation 9/42: Basics of Directional Control		R	ASE 4513 TFQ / MSFQ 301 CT-1 10/42: CT-01		
Tuesday 01-09-26		ASE 4533 SAF / SHF Classroom: 301 10/42: Unsymmetrical bending: deflections 11/42: Introduction to shear flow		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 4/14:		
Wednesday 02-09-26	ASE 4557 COD / SAM 301 CT-1 10/42:	ASE 4551 SLM / SAR Classroom: 301 6/42: 7/42:		A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 2/14:		
Thursday 03-09-26	ASE 4533 SAF / SHF 301 CT-1 12/42:	ASE 4513 TFQ / MSFQ Classroom: 301 11/42: Stream Function 12/42: Velocity Potential		K	ASE 4551 SLM / SAR 301 CT-1 8/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 4/14:	



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Sunday 06-09-26		ASE 4543 HSB / RIAJ Classroom: 301 13/42: Conduction shape factors 14/42: Finite-difference energy balance		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 5/14:		
Monday 07-09-26	ASE 4543 HSB / RIAJ 301 15/42: Lumped transient conduction	ASE 4557 COD / SAM Classroom: 301 11/42: Engine Failure Directional Control 12/42: Adverse and Proverse Yaw		R	ASE 4513 TFQ / MSFQ 301 13/42: Measurement of Airspeed		
Tuesday 08-09-26		ASE 4533 SAF / SHF Classroom: 301 13/42: Shear flow: symmetric sections 14/42: Shear flow: unsymmetric sections		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 5/14:		
Wednesday 09-09-26	ASE 4557 COD / SAM 301 13/42: Roll-Yaw Coupling Effects	ASE 4551 SLM / SAR Classroom: 301 9/42: 10/42:		A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 3/14:		
Thursday 10-09-26	ASE 4533 SAF / SHF 301 15/42: Shear centre: open sections	ASE 4513 TFQ / MSFQ Classroom: 301 14/42: Pressure Coefficient, Laplace's Equation 15/42: Uniform, Source and Sink Flow		K	ASE 4551 SLM / SAR 301 11/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 5/14:	



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Sunday 13-09-26		ASE 4543 HSB / RIAJ Classroom: 301 16/42: Semi-infinite transient conduction 17/42: Heat equation finite-difference discretization		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 6/14:		
Monday 14-09-26	ASE 4543 HSB / RIAJ 301 18/42: Thermal radiation laws	ASE 4557 COD / SAM Classroom: 301 14/42: Requirements for Lateral Stability, Components Contribution to Stability 15/42: Sweepback Effect on Stability		R	ASE 4513 TFQ / MSFQ 301 16/42: Doublet Flow		
Tuesday 15-09-26		ASE 4533 SAF / SHF Classroom: 301 16/42: Torsion of closed sections 17/42: Shear flow: closed sections		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 6/14:		
Wednesday 16-09-26	ASE 4557 COD / SAM 301 16/42: Dihedral Effect	ASE 4551 SLM / SAR Classroom: 301 12/42: 13/42:		A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 4/14:		
Thursday 17-09-26	ASE 4533 SAF / SHF 301 18/42: Euler column buckling	ASE 4513 TFQ / MSFQ Classroom: 301 17/42: Flow Combinations 18/42: Non-lifting flow over Cylinder		K	ASE 4551 SLM / SAR 301 14/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 6/14:	

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Sunday 20-09-26		ASE 4543 HSB / RIAJ Classroom: 301 19/42: Blackbody radiation properties 20/42: View factors solar prospects	B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 7/14:			
Monday 21-09-26	ASE 4543 HSB / RIAJ 301 21/42: Mid-Term Examination	ASE 4557 COD / SAM Classroom: 301 17/42: Aileron Reversal 18/42: Spiral Divergence as Mode	R	ASE 4513 TFQ / MSFQ 301 19/42: Vortex Flow			
Tuesday 22-09-26		ASE 4533 SAF / SHF Classroom: 301 19/42: Thin plate buckling 20/42: Local buckling; effective width	E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 7/14:			
Wednesday 23-09-26	ASE 4557 COD / SAM 301 19/42: Dutch Roll	ASE 4551 SLM / SAR Classroom: 301 15/42: 16/42:	A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 5/14:			
Thursday 24-09-26	HOLIDAY						



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Sunday 27-09-26	ASE 4557 COD / SAM 301 20/42: Mid - Term	ASE 4551 SLM / SAR Classroom: 301 17/42: 18/42:		B	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 6/14:		
Monday 28-09-26	ASE 4557 COD / SAM 301 21/42: Review full topic	ASE 4551 SLM / SAR Classroom: 301 19/42: 20/42:		R	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 7/14:		
Tuesday 29-09-26	ASE 4533 SAF / SHF 301 21/42: Review	ASE 4513 TFQ / MSFQ Classroom: 301 20/42: Kutta-Joukowski Theorem 21/42: Numerical Source Panel Method		E	ASE 4551 SLM / SAR 301 21/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 7/14:	
Wednesday 30-09-26		ASE 4543 HSB / RIAJ Classroom: 301 22/42: Convection fundamentals mechanisms 23/42: Velocity thermal boundary layers		A	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 8/14:		
Thursday 01-10-26				K	ASE 4551 SLM / SAR 301 22/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 8/14:	



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Sunday 04-10-26		ASE 4543 HSB / RIAJ Classroom: 301 24/42: Laminar flat-plate boundary layer 25/42: Convection energy equation		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 9/14:		
Monday 05-10-26	ASE 4543 HSB / RIAJ 301 26/42: Key convection dimensionless numbers	ASE 4557 COD / SAM Classroom: 301 MID-TERM EXAM 22/42: 23/42:		R	ASE 4513 TFQ / MSFQ 301 22/42: MID-TERM EXAM		
Tuesday 06-10-26		ASE 4533 SAF / SHF Classroom: 301 MID-TERM EXAM 22/42: 23/42:		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 8/14:		
Wednesday 07-10-26	ASE 4557 COD / SAM 301 24/42:	ASE 4551 SLM / SAR Classroom: 301 23/42: 24/42:		A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 8/14:		
Thursday 08-10-26	ASE 4533 SAF / SHF 301 24/42:	ASE 4513 TFQ / MSFQ Classroom: 301 23/42: 24/42:		K	ASE 4551 SLM / SAR 301 25/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 9/14:	



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Sunday 11-10-26		ASE 4543 HSB / RIAJ Classroom: 301 27/42: Boundary-layer heat transfer coefficients 28/42: Class Test II		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 10/14:		
Monday 12-10-26	ASE 4543 HSB / RIAJ 301 29/42: Flat-plate forced convection	ASE 4557 COD / SAM Classroom: 301 25/42: 26/42:		R	ASE 4513 TFQ / MSFQ 301 25/42:		
Tuesday 13-10-26		ASE 4533 SAF / SHF Classroom: 301 25/42: 26/42:		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 9/14:		
Wednesday 14-10-26	ASE 4557 COD / SAM 301 27/42:	ASE 4551 SLM / SAR Classroom: 301 MID-TERM EXAM 26/42: 27/42:		A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 9/14:		
Thursday 15-10-26	ASE 4533 SAF / SHF 301 27/42:	ASE 4513 TFQ / MSFQ Classroom: 301 26/42: 27/42:		K	ASE 4551 SLM / SAR 301 28/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 10/14:	



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Sunday 25-10-26	HOLIDAY						
Monday 26-10-26	ASE 4543 HSB / RIAJ 301 30/42: Cylinder sphere forced convection	ASE 4557 COD / SAM Classroom: 301 28/42: 29/42:	R	ASE 4513 TFQ / MSFQ 301 28/42:			
Tuesday 27-10-26		ASE 4533 SAF / SHF Classroom: 301 28/42: 29/42:	E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 10/14:			
Wednesday 28-10-26	ASE 4557 COD / SAM 301 30/42:	ASE 4551 SLM / SAR Classroom: 301 29/42: 30/42:	A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 10/14:			
Thursday 29-10-26	ASE 4533 SAF / SHF 301 30/42:	ASE 4513 TFQ / MSFQ Classroom: 301 29/42: 30/42:	K				



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Sunday 01-11-26		ASE 4543 HSB / RIAJ Classroom: 301 31/42: Internal convection pipe flow 32/42: Pipe-flow convection correlations		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 11/14:		
Monday 02-11-26	ASE 4543 HSB / RIAJ 301 33/42: Natural convection fundamentals	ASE 4557 COD / SAM Classroom: 301 31/42: 32/42:		R	ASE 4513 TFQ / MSFQ 301 CT-2 31/42:		
Tuesday 03-11-26		ASE 4533 SAF / SHF Classroom: 301 31/42: 32/42:		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 11/14:		
Wednesday 04-11-26	ASE 4557 COD / SAM 301 CT-2 33/42:	ASE 4551 SLM / SAR Classroom: 301 31/42: 32/42:		A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 11/14:		
Thursday 05-11-26	ASE 4533 SAF / SHF 301 CT-2 33/42:	ASE 4513 TFQ / MSFQ Classroom: 301 32/42: 33/42:		K	ASE 4551 SLM / SAR 301 CT-2 33/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 11/14:	



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Sunday 08-11-26		ASE 4543 HSB / RIAJ Classroom: 301 34/42: Vertical-surface natural convection 35/42: Enclosure mixed convection		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 12/14:		
Monday 09-11-26	ASE 4543 HSB / RIAJ 301 36/42: Pool boiling fundamentals correlations	ASE 4557 COD / SAM Classroom: 301 34/42: 35/42:		R	ASE 4513 TFQ / MSFQ 301 34/42:		
Tuesday 10-11-26		ASE 4533 SAF / SHF Classroom: 301 34/42: 35/42:		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 12/14:		
Wednesday 11-11-26	ASE 4557 COD / SAM 301 36/42:	ASE 4551 SLM / SAR Classroom: 301 34/42: 35/42:		A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 12/14:		
Thursday 12-11-26	ASE 4533 SAF / SHF 301 36/42:	ASE 4513 TFQ / MSFQ Classroom: 301 35/42: 36/42:		K	ASE 4551 SLM / SAR 301 36/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 12/14:	



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Sunday 15-11-26		ASE 4543 HSB / RIAJ Classroom: 301 37/42: Nucleate film forced boiling 38/42: Film dropwise condensation regimes		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 13/14:		
Monday 16-11-26	ASE 4543 HSB / RIAJ 301 39/42: CT-3	ASE 4557 COD / SAM Classroom: 301 37/42: 38/42:		R	ASE 4513 TFQ / MSFQ 301 CT-3 37/42:		
Tuesday 17-11-26		ASE 4533 SAF / SHF Classroom: 301 37/42: 38/42:		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 13/14:		
Wednesday 18-11-26	ASE 4557 COD / SAM 301 CT-3 39/42:	ASE 4551 SLM / SAR Classroom: 301 37/42: 38/42:		A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 13/14:		
Thursday 19-11-26	ASE 4533 SAF / SHF 301 CT-3 39/42:	ASE 4513 TFQ / MSFQ Classroom: 301 38/42: 39/42:		K	ASE 4551 SLM / SAR 301 CT-3 39/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 13/14:	



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Sunday 22-11-26		ASE 4543 HSB / RIAJ Classroom: 301 40/42: Heat exchanger Classifications 41/42: Overall coefficient LMTD analysis		B	ASE 4514 TFQ + MSFQ Classroom: Aerodynamics Lab 14/14:		
Monday 23-11-26	ASE 4543 HSB / RIAJ 301 42/42: Effectiveness - NTU calculation	ASE 4557 COD / SAM Classroom: 301 40/42: 41/42:		R	ASE 4513 TFQ / MSFQ 301 40/42:		
Tuesday 24-11-26		ASE 4533 SAF / SHF Classroom: 301 40/42: 41/42:		E	ASE 4534 SAF + SHF Classroom: Aerospace Vehicle Structure Lab 14/14:		
Wednesday 25-11-26	ASE 4557 COD / SAM 301 42/42:	ASE 4551 SLM / SAR Classroom: 301 40/42: 41/42:		A	ASE 4544 HSB + RIAJ Classroom: Heat Transfer Lab 14/14:		
Thursday 26-11-26	ASE 4533 SAF / SHF 301 42/42:	ASE 4513 TFQ / MSFQ Classroom: 301 41/42: 42/42:		K	ASE 4551 SLM / SAR 301 42/42:	ASE 4552 SLM + SAR Classroom: Aircraft Systems Lab 14/14:	