

Curriculum of B.Sc in Aeronautical Engineering (Avionics)

SL	Course Code	Course Name	Course Type	Credit
1	PHY 4101	Physics	Theory	3.00
2	PHY 4102	Physics Sessional	Sessional	1.50
3	AVE 4101	Electrical Circuits Analysis I	Theory	3.00
4	AVE 4102	Electrical Circuits Analysis I Sessional	Sessional	1.50
5	MAT 4101	Differential and Integral Calculus	Theory	3.00
6	ASE 4101	Introduction to Aeronautical Engineering	Theory	3.00
7	ASE 4102	Aeronautical Engineering Drawing	Sessional	1.50
8	HUM 4101	Communicative English	Theory	3.00
9	HUM 4102	Communicative English Sessional (Technical Report Writing)	Sessional	0.75
10	AVE 4201	Electrical Circuits Analysis II	Theory	3.00
11	AVE 4202	Electrical Circuits Analysis II Sessional	Sessional	0.75
12	CHM 4201	Chemistry	Theory	3.00
13	CHM 4202	Chemistry Sessional	Sessional	0.75
14	MAT 4203	Ordinary and Partial Differential Equations	Theory	3.00
15	CSE 4201	Computer Programming and Application	Theory	3.00
16	CSE 4202	Computer Programming and Application Sessional	Sessional	1.50
17	HUM 4203	Bangladesh Studies and Society	Theory	3.00
18	ASE 4202	Workshop Technology Sessional	Sessional	1.50
19	AVE 4301	Electronic Circuits I	Theory	3.00
20	AVE 4302	Electronic Circuits I Sessional	Sessional	1.50
21	ASE 4341	Thermodynamics	Theory	3.00
22	ASE 4342	Thermodynamics Sessional	Sessional	0.75
23	ASE 4353	Engineering Mechanics (Statics & Dynamics)	Theory	4.00
24	MAT 4305	Linear Algebra, Coordinate Geometry and Complex Variables	Theory	3.00
25	CSE 4305	Data Structures and Algorithm	Theory	3.00
26	CSE 4306	Data Structures and Algorithm Sessional	Sessional	1.50
27	AVE 4401	Electronic Circuits II	Theory	3.00
28	AVE 4402	Electronic Circuits II Sessional	Sessional	1.50
29	AVE 4403	Electric Machine and Drives	Theory	3.00
30	AVE 4404	Electric Machines and Drives Sessional	Sessional	1.50
31	MAT 4407	Fourier and Laplace Transform	Theory	3.00
32	AVE 4405	Digital Logic and Computer Design	Theory	3.00
33	AVE 4406	Digital Logic and Computer Design Sessional	Sessional	1.50
34	HUM 4413	Engineering Economics	Theory	3.00
35	AVE 4501	Signals and Systems	Theory	3.00
36	AVE 4502	Signals and Systems Sessiona	Sessional	0.75
37	AVE 4503	Microprocessor and Microcontroller Systems	Theory	3.00
38	AVE 4504	Microprocessor and Microcontroller Systems Sessional	Sessional	0.75
39	AVE 4505	Electromagnetic Field Theory	Theory	3.00
40	ASE 4513	Aerodynamics	Theory	3.00
41	ASE 4514	Aerodynamics Sessional	Sessional	1.50
42	MAT 4509	Probability & Statistics	Theory	3.00
43	AVE 4510	Modelling & Simulation Sessional	Sessional	1.50
44	AVE 4600	Industrial Training	Sessional	1.00
45	AVE 4601	Communication Systems	Theory	3.00
46	AVE 4602	Communication Systems Sessional	Sessional	1.50
47	AVE 4603	Real Time Embedded Systems	Theory	3.00
48	AVE 4604	Real Time Embedded Systems Sessional	Sessional	0.75
49	AVE 4605	Microwave and Antennas	Theory	3.00
50	AVE 4607	Numerical Methods	Theory	3.00
51	AVE 4608	Numerical Methods Sessional	Sessional	0.75
52	AVE 4609	Control Systems	Theory	3.00
53	AVE 4610	Control Systems Sessional	Sessional	0.75
54	AVE 4701	Digital Signal Processing	Theory	3.00
55	AVE 4702	Digital Signal Processing Sessional	Sessional	0.75
56	AVE 4703	Aircraft Electrical, Instrument and Autopilot	Theory	3.00
57	AVE 4704	Aircraft Electrical, Instrument and Autopilot Systems Sessional	Sessional	1.50
58	AVE 4705	Avionics System Design	Theory	3.00
59	AVE 4706	Avionics System Design Sessional	Sessional	0.75
60	AVE 4707	Engineering Ethics & Professionalism	Theory	2.00
61	AVE 47XX	Elective - I	Theory	3.00
62	AVE 4801	Radar System Engineering	Theory	3.00
63	AVE 4802	Radar System Engineering Sessional	Sessional	1.50
64	AVE 4803	Aircraft Communication, Navigation & Surveillance System	Theory	3.00
65	AVE 4804	Aircraft Communication, Navigation & Surveillance System Sessional	Sessional	1.50
66	ASE 4807	Industrial & Business management	Theory	3.00
67	AVE 48XX	Elective - II	Theory	3.00
68	AVE 48XX	Elective - II Sessional	Sessional	0.75
69	AVE 4700	Final Year Research and Design Project (FYRDP)	Sessional	9.00