

राजीव गाँधी राष्ट्रीय विमानन विश्वविद्यालय
Rajiv Gandhi National Aviation University (RGNAU)

Syllabi of B. Tech. (Electronics and Communications Engineering-Avionics)

Sl. No.	Subject	L	T	P	Credit
Semester-1					
MA11005	Applied Mathematics -1	3	1	0	4
PH11003	Applied Physics	3	1	0	4
HS11001	Professional Communication	2	0	0	2
EE11001	Basic Electrical Technology	3	1	0	4
CS11001	Computer Programming	2	0	1	3
AE11003	Introduction to Aerospace Engg.	3	0	0	3
EC15001	Field visit	0	0	2	2
TOTAL					22
Semester-2					
MA11006	Applied Mathematics-II	3	1	0	4
AE11004	Applied Mechanics	3	1	0	4
BM11002	Innovation and Entrepreneurship	3	0	0	3
AE13002	Engineering Graphics	1	0	2	3
EC11002	Electronics Devices & Circuits (Basic Electronics Lab (EC19002) = 1 Credit)	3	1	1	5
EC11004	Network Theory	3	0	0	3
TOTAL					22
Semester-3					
Sub No	Subjects	L	T	P	Credit
MA21005	Applied Mathematics-III	3	1	0	4
EC21001	Signals and Systems	3	1	0	4
EC21003	Instrumentations and Measurement	3	0	1	4
EC21005	Communication Systems	3	1	0	4
EE21001	Introduction to Control Systems	3	1	0	4
EC29001	Lab. -I: Communication Lab.	0	0	1	1
EE29001	Lab. -II: Control Lab	0	0	1	1
TOTAL					22
Semester-4					
Sub No	Subjects	L	T	P	Credit
AE21008	Navigation Systems	3	0	0	3
EC21002	E.M. Theory and Radiating Waves	3	0	0	3
CS21002	Computer Organization and Architecture	3	0	0	3
AE21010	Flight and System Simulation	2	0	1	3
BM21006	Engineering Management and Ethics	3	0	0	3
EC21004	Digital Electronics	3	0	0	3
AE29006	Navigation Lab	0	0	1	1
EC29002	Digital Electronics Lab	0	0	1	1
EC28002	Summer Internship/Industrial Training	0	0	2	2

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		TOTAL			22	
Semester-5						
Sub No	Subject	L	T	P	Credit	
AE31009	Space Technology	3	0	0	3	
AE31011	Material Science	3	0	0	3	
AE31013	Surveillance Systems	3	0	0	3	
EE31001	Power Electronics	3	0	1	4	
EC31001	Digital Signal Processing	3	0	0	3	
EC31003	Microprocessor and Micro Controller	3	0	0	3	
AE39007	Lab.-I Surveillance Lab.	0	0	1	1	
EC39001	Lab-II Microprocessor and Micro Controller	0	0	1	1	
		TOTAL			21	
Semester-6						
Sub No	Subjects	L	T	P	Credit	
EC31002	Landing-Aid Systems	3	0	0	3	
EC31004	Display Technology	3	0	0	3	
CS31002	Computer Networks and Protocols	3	0	1	4	
EC31006	Digital Image Processing	3	0	0	3	
	Elective -1	3	0	0	3	
	Elective -2	3	0	0	3	
EC39002	Signal and Image Processing Lab-1	0	0	1	1	
EC39004	Landing-aid systems Lab-2	0	0	1	1	
		TOTAL			21	
Semester-7						
Sub No	Subject	L	T	P	Credit	
EC41001	Flight Test Instrumentation and Flight Testing	3	0	1	4	
BM41001	Safety Management Systems	3	0	0	3	
	Elective -3	3	0	0	3	
	Elective -4	3	0	0	3	
EC48001	Certification Projects in the Industry	0	0	3	3	
EC47001	Mini Project	0	0	4	4	
EC45001	Field Visit – Flight Instrumentation and Testing	0	0	1	1	
		TOTAL			21	
Semester-8						
Sub No	Subjects	L	T	P	Credit	
EC47002	Major Project/ Internship	0	0	12	12	
OL40002	MOOC/ On-Line/ NPTEL/SWAYAM Courses	3	0	0	3	
		TOTAL			15	

Summary of Credits

Semester	1	2	3	4	5	6	7	8	Total
Credit	22	22	22	22	21	21	21	15	166