CURRICULUM I TO IV SEMESTERS (FULL TIME)

M.E. AVIONICS

SEMESTER I

SL.	COURSE					
NO	CODE	COURSE TITLE		Т	Р	С
THEO	RY		ı			
1	MA9116	Applied Mathematics for Avionics Engineers	3	1	0	4
2	AV9111	<u>Digital Avionics</u>	3	0	0	3
3	AV9112	Electro-optic systems	3	0	0	3
4	AV9113	Flight Instrumentation	3	0	0	3
5		Bridge Course	3	0	0	3
	AV9115	Aircraft Engineering (For Non-Aero students) (OR) Electronic Systems (For Aero students)				
	AV9115					
6	E1	Elective I	3	0	0	3

PRACTICAL								
7	AV9118	Avionics Integration Lab	0	0	4	2		
		TOTA	L 18	1	4	2		
						1		

SEMESTER II

SL.	COURSE								
NO	CODE	COURSE TITLE		L	Т	Р	С		
THEO	THEORY								
1	AV9121	Navigation Systems		3	0	0	3		
2	AV9122	Aerospace Guidance and Control		3	0	0	3		
3	AV9123	Mathematical Modeling & Simulation		3	0	0	3		
4	AV9124	Rocketry & Space Mechanics		3	0	0	3		
5	E2	Elective II		3	0	0	3		
6	E3	Elective III		3	0	0	3		
PRAC	TICAL								
7	AV9127	Flight Control Lab		0	0	4	2		
		•	TOTAL	18	0	4	20		

SEMESTER III

SL. NO	COURSE CODE	COURSE TITLE		L	Т	Р	С
THEO	RY						
1	E4	Elective IV		3	0	0	3
2	E5	Elective V		3	0	0	3
3	E6	Elective VI		3	0	0	3
PRAC	TICAL						
4	AV9134	Project Work (Phase I)		0	0	12	6
			TOTAL	9	0	12	15

SEMESTER IV

SL. NO	COURSE CODE	COURSE TITLE	L	Т	Р	С			
PRACT	PRACTICAL								
1	AV9141	Project Work (Phase II)	0	0	24	12			
		TOTAL	0	0	24	12			

Total no.of credits to be earned for the award of Degree = 68

LIST OF ELECTIVES

SL.	COURSE					
NO	CODE	COURSE TITLE	L	т	Р	С
1	AV9151	Digital Fly-By-Wire Control	3	0	0	3
2	AV9152	Avionics System Engineering	3	0	0	3
3	AV9153	Display Engineering	3	0	0	3
4	AV9154	Fault Tolerant Computing	3	0	0	3
5	AV9155	Programming in Ada	3	0	0	3
6	NE9164	Microwaves and Radar	3	0	0	3
7	AV9166	Electronic Warfare	3	0	0	3
8	AV9164	Instrumentation for Flight testing	3	0	0	3
9	AV9168	Human Engineering	3	0	0	3
10	AV9169	UAV System Design	3	0	0	3
11	AV9170	Aircraft Product &System Engineering. Standards & Certification	3	0	0	3
12	AV9171	Active Control Technology	3	0	0	3
13	AV9172	Airborne Fire Control	3	0	0	3
14	AV9173	Flight Mechanics	3	0	0	3
15	AV9174	Missile Technology	3	0	0	3
16	AV9175	Fault Tolerant Control	3	0	0	3
17	AV9176	Satellite Architecture and communication	3	0	0	3
18	CP9167	Digital Image Processing	3	0	0	3
19	AV9177	Airborne Actuators & Sensors	3	0	0	3
20	NE9156	Real Time Embedded System	3	0	0	3
21	AV9178	Electromagnetic Interference and Compatibility	3	0	0	3
22	NE9167	Detection and Estimation theory	3	0	0	3
23	AV9183	Soft computing for Avionic Engineers	3	0	0	3
24	AV9179	Avionics Network Technology	3	0	0	3
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