

UNIVERSITY DEPARTMENTS
ANNA UNIVERSITY, CHENNAI 600 025

REGULATIONS - 2013

M.E. AVIONICS

CURRICULUM AND SYLLABUS I TO IV SEMESTERS (FT & PT)

SEMESTER I

SL NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	AV8101	Avionics System Engineering	3	0	0	3
2.	AV8102	Bridge Course Aerospace Engineering (For Non-Aero students)	3	0	0	3
	AV8103	(OR) Electronic Systems (For Aero students)				
3.	AV8104	Digital Avionics	3	0	0	3
4.	AV8105	Electro Optic Systems	3	0	0	3
5.	AV8151	Flight Instrumentation	3	0	0	3
6.	MA8163	Advanced Applied Mathematics	3	1	0	4
PRACTICAL						
7.	AV8111	Avionics Integration Laboratory	0	0	4	2
TOTAL			18	1	4	21

SEMESTER II

SL NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1.	AV8201	Navigation Systems	3	0	0	3
2.	AV8202	System Modeling and Simulation	3	0	0	3
3.	AL8253	Rocketry and Space Mechanics	3	0	0	3
4.	AV8251	Aerospace Guidance and Control	3	0	0	3
5.		Elective I	3	0	0	3
6.		Elective II	3	0	0	3
PRACTICAL						
7.	AV8211	Automatic Flight Control Systems Laboratory	0	0	4	2
TOTAL			18	0	4	20

SEMESTER III

SL NO	COURSE CODE	COURSE TITLE	L	T	P	C
THEORY						
1		Elective III	3	0	0	3
2		Elective IV	3	0	0	3
3		Elective V	3	0	0	3
PRACTICAL						
4	AV8311	Project Work, Phase I	0	0	12	6
TOTAL			9	0	12	15

M E Avionics Annauniv

**S. Smys, Robert Bestak, Joy long-Zong
Chen, Ivan Kotuliak**

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Handbook of Universities Ashish Kumar,2006 The Most Authentic Source Of Information On Higher Education In India The Handbook Of Universities Deemed Universities Colleges Private Universities And Prominent Educational Research Institutions Provides Much Needed Information On Degree And Diploma Awarding Universities And Institutions Of National Importance That Impart General Technical And Professional Education In India Although Another Directory Of Similar Nature Is Available In The Market The Distinct Feature Of The Present Handbook That Makes It One Of Its Kind Is That It Also Includes Entries And Details Of The Private Universities Functioning Across The Country In This Handbook The Universities Have Been Listed In An Alphabetical Order This Facilitates Easy Location Of Their Names In Addition To The Brief History Of These Universities The Present Handbook Provides The Names Of Their Vice Chancellor Professors And Readers As Well As Their Faculties And Departments It Also Acquaints The Readers With The Various Courses Of Studies Offered By Each University It Is Hoped That The Handbook In Its Present Form Will Prove Immensely Helpful To The Aspiring Students In Choosing The Best Educational Institution For Their Career Enhancement In Addition It Will Also Prove Very Useful For The Publishers In Mailing Their Publicity Materials Even The Suppliers Of Equipment And Services Required By These Educational Institutions Will Find It Highly Valuable

Universities Handbook ,2014 **Manorama Year Book** ,1998 **Control and Intelligent Systems** ,1999 **International Conference on Computer Networks and Communication Technologies** S. Smys,Robert Bestak,Joy Iong-Zong Chen,Ivan Kotuliak,2018-09-17 The book features research papers presented at the International Conference on Computer Networks and Inventive Communication Technologies ICCNCT 2018 offering significant contributions from researchers and practitioners in academia and industry The topics covered include computer networks network protocols and wireless networks data communication technologies and network security Covering the main core and specialized issues in the areas of next generation wireless network design control and management as well as in the areas of protection assurance and trust in information security practices these proceedings are a valuable resource for researchers instructors students scientists engineers managers and industry practitioners

Annual Statistical Abstracts for Tamil Nadu Tamil Nadu (India). Department of Statistics,2001 **Annual Statistical Abstract for Tamil Nadu** Tamil Nadu (India). Department of Economics and Statistics,2000 **IEEE Membership Directory** Institute of Electrical and Electronics Engineers,1996 **Introduction to Avionics Systems** R.P.G. Collinson,2023-06-01 Now in a revised fourth edition this course tested textbook explains the basic principles and underlying theory of the core avionics systems in modern civil and military aircraft The new edition includes extensive revisions on the latest developments in helmet mounted displays HMDs the use of helmet mounted rate gyros for helmet tracking HUD HMD optical waveguide system technology and the latest advances on replacing CRTs with solid state displays in HUDs Updates on controls and fly by wire include a section on civil aircraft to cover the Airbus A350 and the advances in its flight control

system over the Airbus A380 A new section on automatic flight control of vectored thrust aircraft covers the BAE Systems Harrier and the Lockheed Martin F 35B Lightning 2 Joint Strike Fighter Detailed coverage is provided for F 35B flight control systems for vertical landing Introduction to Avionic Systems Fourth Edition is an ideal textbook for undergraduate and graduate courses in avionics and aeronautical engineering as well as professional development and training courses for post graduates entering the aerospace industry from a wide range of technical backgrounds and practicing engineers at all levels who require an understanding of avionic systems aircraft navigation flight control and data transmission and systems

Avionics Systems Laboratory Development E. Field,1991 **Submission for the Reaccreditation of EE43 Bachelor of Engineering (Aerospace Avionics) 1997-2001** Queensland University of Technology. Faculty of Built Environment and Engineering,1996 **Transcription of the Workshop on General Aviation Advanced Avionics Systems** Stanford University,1976 Papers are presented dealing with the design of reliable low cost advanced avionics systems applicable to general aviation in the 1980 s and beyond Sensors displays integrated circuits microprocessors and minicomputers are among the topics discussed The Principles of Integrated Technology in Avionics Systems Guoqing Wang,Wenhao Zhao,2020-01-17 The Principles of Integrated Technology in Avionics Systems describes how integration can improve flight operations enhance system processing efficiency and equip resource integration The title provides systematic coverage of avionics system architecture and ground system integration Looking beyond hardware resource sharing alone it guides the reader through the benefits and scope of a modern integrated avionics system Integrated technology enhances the performance of organizations by improving system capacity and boosting efficiency Avionics systems are the functional center of aircraft systems System integration technology plays a vital role in the complex world of avionics and an integrated avionics system will fully address systems information and processes Introduces integration technology in complex avionics systems Guides the reader through the scope and benefits of avionic system integration Gives practical guidance on using integration to optimize an avionics system Describes the basis of avionics system architecture and ground system integration Presents modern avionics as a system that is becoming increasingly integrated *Fundamental of Avionics Systems* Krishna D. Kumar,2014-09-01 This book is an outcome of the lectures delivered by the author for engineering students at Kyushu University Japan Korea Advanced Institute of Science and Technology South Korea and Ryerson University Canada The text started when the author was at Kyushu University Japan The author has been doing research on the subject of sensors and actuators for aerospace systems for the last fifteen years During the course of research and teaching this subject the author realized that there is an earnest need of a text which may provide basic understanding of inherent complexity in modelling avionics systems This text fulfils this goal through a step by step approach that explains each concept in a simple way with mathematical details and simple notations This textbook is written for engineers and students pursuing study or research on the dynamics and control of aircraft or space systems The author has used all contents of this textbook in a core course on

Avionics and Systems one semester four hours a week This text assumes that the reader is well acquainted with elementary calculus and linear algebra Enough care has been taken so that the reader may attempt different types of problems Each concept has been discussed with sufficient mathematical background supported by examples A complete set of problems has been added to the end of every chapter This textbook provides the practical aspects of designing aerospace systems with a focus on sensors and actuators In writing this textbook I have tried my best to provide the best relevant materials on the subject I encourage and welcome all comments and suggestions to make this book more relevant to the contents of your course or research study Please address your comments to kdkumar ryerson ca

Integrated Avionics Communication, Navigation, and Penetration Aids Systems Specialist (F/FB-111), (AFSC 32658A) William W. Nicholson,1984

Avionic Systems Design John R. Newport,2024-12-15 Avionic Systems Design presents an engineering look at the impact of emerging policies such as joint service programs and commercial co developments designed to broaden market sectors for real time embedded systems It also touches on the different review and specification practices of DoD NASA and FAA The topics cover a complete how to overview of the design process including trade studies detailed design and formal reviews In addition the discussion links design decisions to a theoretical basis including architecture integration strategy and communication models The book also includes performance measurement analysis interpretation of results formulation of benchmarks and numerous examples Finally it provides examples of the strategies and effects of requirements analysis and validation An appendix offers an extensive list of acronyms

Flight Management Systems Samuel B. Fishbein,1995-06-13 This work describes the historical evolution of a critical aspect of aerospace technology avionics and navigation systems This history is important to understanding current and future issues associated with aeronautics space flight development and flight management because avionics is crucial to commercial air traffic control and space flight Samuel Fishbein provides a historical overview of aviation electronics and instrumentation the evolution of automated systems and their integration and the role of the pilot in this environment In addition he reviews the major elements comprising the flight management system and the evolution and operation of these instruments discussing why the instrument panel is configured the way it is and how ground and space based components of the systems have influenced the design of airplane components

Avionics Cary R. Spitzer,2018-10-03 Renamed to reflect the increased role of digital electronics in modern flight control systems Cary Spitzer s industry standard Digital Avionics Handbook Second Edition is available in two comprehensive volumes designed to provide focused coverage for specialists working in different areas of avionics development The second installment Avionics Development and Implementation explores the practical side of avionics The book examines such topics as modeling and simulation electronic hardware reliability certification fault tolerance and several examples of real world applications New chapters discuss RTCA DO 297 EUROCAE ED 124 integrated modular avionics development and the Genesis platform

Avionics Navigation Systems Myron Kayton,Michael

Braasch,2013-02-06 The first two editions of the proposed are considered classics They provide broad based coverage of avionics and navigation systems with chapters written by the top experts and researchers from around the globe A great deal has changed since the last edition was published in 1997 Not only has there been critical system changes in the aircraft the navigation systems themselves have gone through changes that make much of the current edition completely out of date The lead editor Myron Kayton will be adding a new co editor to this edition Michael Braasch from Ohio University one of the top research centers in avionic engineering The content will be thoroughly revised and updated but at the same time basic and historical material will be left in to provide a firm grounding in history New and expanded content includes information on all navigation aids in current use world wide e g GLONASS and GALILEO trilateration Required Navigation Performance Integrated Avionics baro inertial coverage and reduced vertical separation **Integrated Avionics Instruments and Flight Control Systems Specialist (F-16) (AFSC 32657C)** Dennis M. Holliday,1985

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