

Electrical Airplane

Technical Lessons of Acronautics

Secondary Fig. School

DaneshParvaz Techi, cai Aviation School

Under supervision: CAO.IRI

فتحى، محمد حسن، ١٣٣٠ سرشناسه

الكتريك هواپيما درس فني و مهارتي رشته هوانوردي أموزش متوسطه ، دوره دوم عنوان و نام پدیدآورنده

مشهد: مؤسسه فرهنگی، هنری و انتشاراتی ضریح آفتاب. مشخصات نشر

مشخصات ظاهرى

944-8..-448-188-8 شابک

> فساي مختصر وضعيت فهرست نويسي

سازمان هواپیمایی کشوری، ناظر شناسه افزوده

هنرستان هوا نوردي دانش پرواز شناسه افزوده

0711997 شماره کتابشناسی ملی



نام كتاب الكتريك مراييما به سفارش.....هنرستان مانه ی دادی پرواد مشهد مولف....... محمد حسن ذ-ویراستار......... گرمرو ی ناشر مؤسسه فرهنگی، هنری و انتثر اتر خریح آفتاب طراح و صفحه آرایی..... رامین کیشی گرمرودی نوبت چاپ..... اول ۱۳۹۷ قطع...... وزيري شمارگاننسخه قيمت ٩۴٠٠ تومان چاپ.....معین شابک.....*۲۷۶–۱۶۶۰ شابک....

اساتید ارجمند، اولیای گرامی، هنرجویان عزیز؛ شما می توانید، پیشنهادات و نظرات اصلاحی خود را درباره مطالب این کتاب، به آدرس سایت آموزشگاه ارسال فرمایید. site: www.danesh-parvaz.ir

«حق چاپ برای هنرستان هوانوردی دانش پرواز مشهد محفوظ می باشد.»

Introduction

"Aviation" as an international discipline in the field of training the highly qualified and dedicated forces required by the industry in a variety of countries including:

1- Pilot 2- Aircraft maintenance Engineering 3- Avionics 4- Airhostess 5- Dispatcher 6 - Airport ground safety Definition and foundation for teaching interested students.

Students in this field, in addition to passing general classes, will acquire relevant skills in accordance with the standards announced by the CAO.IRI (technical language and English conversation, aircraft modeling, Aircraft's electric. Sheet metal and practical flight period) In order to acquire the necessary skills and abilities, then after graduating from high school, they can continue their studies at the undergraduate and then undergraduate level to the applied university in one of the fields, and after graduating in one of the Airlines and the national aviation organization (CAO.IRI.) To work.

The field of aeronautics is now in accordance with a common standards announced by the Ministry of Education and the Ci il (v) ion Organization with 1770 hours of technical training that is theoretical and practical during the third secondary year of secondary education at the technical twelfth grades Gets

Aviation Courses with approval and approval from the Ministry of Education and Monitoring and Coordination of the Civil Aviation Organization since the establishment of the first aeronal tical astronomy in the country, established in 2000 in the country named " and he parvaz Technical Aviation School", was established in Mashhad and he in the operate They made

Danesh Parvaz Techn is viation School has been operating since 2000, with the selection of or minent professors in courses related to the science and technology of the day in the aeronautics industry and So far, many graduates have been trained at graduated, and now they are employed at various centers related to the assistance industry and domestic airlines, and even some in other countries and in all the fields mentioned.

At the end of the board of the founders and the administrative staff of the school (Mr. Esmati, Bozorgzadeh Razavi, Khaghani, Ghafari, Kishi Garmoudi) and technical staff (gentlemen Eathi, Alizadeh, Akrami, Beheshti Rooy, Askarizadeh, Rafiei, Rashidi, Pendar, Soroush) is grateful and appreciated

((Better days for our children))

Index

Title	Page No
ELECTRICITY DEFINED	1
MATTER	1
MOLECULE	1
ELEMENTS •	1
ATOM	2
CONDUTORS	2
SEMICONDUTOR	3
INSULATOR	3
CURRENT, (INTENSITY)	3
VOLTAGE	3
RESISTANCE	4
MAGNETISM	5
Types of magnet	5
AIRCRAFT BATTERY	6
Lead Acid battery	8
Battery inspection	9
Battery servicing	10
Nickel Cadmium Battery	10
GENERATOR	12
AC Generator	13
OVER HEAT DETECTION SYS	15
LIGHTING SYSTEM	16
EXTERIOR LIGHTING SYS. EM	16
NAVIGATION LIGHT.	16
FORMATION, LIGATE	16
LANDING LIG. (15	16
LEADNING . PC E, LIGHTS	16
TAXI LIG. T.	17
ANTI-CC'LLISION LIGHT	17
INTENIC' LIGHTING SYSTEM	17
WAR, WG LIGHTS	18
SERIES CIRCUIT	19
Electrical troubles in series circuit	20
PARALLEL CIRCUIT	21
SOLDERING	23
TYPES OF SOLDERING	23
TITES OF BOLDERING	3,000