Jordan University of Science and Technology
Faculty of Engineering
Aeronautical Engineering Department

Course name and number:

AE484 Aircraft Maintenance Systems

Credit, contact hours and categorization:

Credit and contact hours	Contact hours	Categorization
3 Credit Hours	Sunday-Tuesday-Thursday 1-hour lecture Or Monday-Wednesday 1.5-hours lecture	Engineering Topic

Instructor's or course coordinator's name:

Name	Dr. Montasir Hader
Office location	N1-L2
Email address	hader@just.edu.jo

Textbook and other supplemental materials:

Textbook			
Title	Aviation Maintenance Management		
Author(s)	H. A. Kinnison, T. Siddiqui		
Edition	2nd Edition		
Other Information	McGraw-Hill's		
References			
Book Name	Author(s)	Edition	Other Information
U.S. Department of Transportation, Federal Aviation Regulation	FAA		
U.S. Department of Transportation, Airframe & Powerplant General Handbook	FAA		
U.S. Department of Transportation, Airframe Handbook	FAA		
U.S. Department of Transportation, Powerplant Handbook	FAA		
Aircraft Systems	I.Moir and A.Seabridge	2nd Edition	
Aircraft Systems	D. Lombardo	2nd Edition	

Course information:

Course Catalogue
3 Credit Hours. introduction, Reliability theory, Life testing, maintained systems, Integrated logistic support (ILS), Aircraft handling, Repair station requirements, Quality

systems, Inventory control, Structural repair, Engine maintenance and overhaul, Maintenance of aircraft systems and instruments.		
Course type: This course is **required** to fulfill the program.		
Prerequisites or co-requisites		
Line Number	Course Name	Prerequisite Type
713030	AE303 Applied Math For engineers	Prerequisite / Study
713440	AE344 Aerodynamics (1)	Prerequisite / Pass

Specific goals of the course :

Specific outcomes of instruction and the student outcomes (SO) mapping		
Outcomes	SO Mapping	Course Outcome Weight (Out of 100%)
To familiarize students with the basic working principles, functions, major components and technologies of aircraft systems and their integration into overall system.	30SO 2, 20SO 4, 10SO 7, 40SO 8	50%
To provide students with a comprehensive knowledge of regulations, safety rules, procedures, methods about maintenance and servicing of aircraft systems with economic and managerial considerations and enable them to use this knowledge in practice.	20SO 2, 10SO 3, 20SO 4, 50SO 7	50%

Brief list of topics to be covered:

Tentative List of Topics Covered		
Weeks	Topic	References
Week 1	Introduction, Development of Maintenance Programs, Definitions, Goals and Objectives	From **Textbook**
Week 2	Aviation Industry Certification Requirements, Documentation for Maintenance, Requirements for a Maintenance Program	From **Textbook**
Week 3	The Maintenance and Engineering Organization, Engineering	From **Textbook**
Week 4	Production and Planning Control, Technical Publication, Technical Training	From **Textbook**
Week 5	Computer Support, Line Maintenance,	From **Textbook**
Week 6	Hangar Maintenance, Maintenance Overhaul Shops	From **Textbook**
Week 7	Material Support, Quality Assurance, Quality Control	From **Textbook**
Week 8	Reliability	From **Textbook**
Weeks 9-16	Aircraft systems	Course handout