

# **EAS425 Flight Line and Hangar Management**

**Level:** 4

**Credit Units:** 5 Credit Units

**Language:** ENGLISH

**Presentation Pattern:** EVERY SEMESTER

## **Synopsis:**

The course will provide students with an understanding how flight line and hangar operations are managed both in the civilian and military aerospace sectors. Local case studies will be used in assessments and seminar discussions.

## **Topics:**

- Development of maintenance programmes in the hangar and flight line
- Definitions, goals and objectives of aerospace maintenance
- Aerospace industry certification requirements
- Documentation for maintenance
- Requirements for a maintenance programme
- Maintenance and engineering organization
- Production planning and control
- Importance of technical publications and technical training
- Line and hangar maintenance concepts in civil and military aerospace operations
- Logistical support for maintenance shops
- Quality assurance and control in the flight line and hangar
- Reliability and maintenance safety

## **Textbooks:**

Harry A. Kinnison, Tariq Siddiqui: Aviation Maintenance Management (eTextbook) 2nd Edition  
McGraw-Hill  
ISBN-13: 9781307341751

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**Learning Outcome:**

- Appraise general aviation maintenance practices and management
- Analyse fundamental legislative framework governing hangar design.
- Evaluate factors in the principles of hangar facilities design and flight line management.
- Design and improve hangar facilities.
- Construct flight line management system.
- Analyse case studies and apply aviation maintenance concepts and practices on actual scenarios.

**Assessment Strategies:**

<b>Continuous Assessment Component</b>	<b>Weightage (%)</b>
QUIZ	12
TUTOR-MARKED ASSIGNMENT	18
<b>Sub-Total</b>	<b>30</b>

<b>Examinable Component</b>	<b>Weightage (%)</b>
Written Exam	70
<b>Sub-Total</b>	<b>70</b>

**Weightage Total** **100**