

(Level and Major)

Course Title Intake Aerodynamics:

Number of Credi : 3

Prerequisite

Lecturer

Course Description

This course is aimed to teach the basics characteristics of intakes and the most important parameters about them

Course Goals and Objectives

Teaching the Intake important parameters and their basic design procedure

Course Topics

Review on Aerodynamics (II) 1-Introduction 2-pressure recovery in subsonic Intakes 3-transonic effects on the entering flow 4-cowl lip separation 5-supersonic external compression 6-supersonic internal compression 7-additional energy loss in supersonic intakes

The course aims to :

Reading Resources :

Seddon, "Intake Aerodynamics"

Evaluation

final exam: 80%

projects: 20%