



SNS COLLEGE OF TECHNOLOGY

**An Autonomous Institution
Coimbatore – 35**

Accredited by NBA – AICTE and Accredited by NACC – UGC with ‘A++ Grade
Approved by AICTE , New Delhi and Affiliated to Anna University , Chennai.

DEPARTMENT OF AEROSPACE ENGINEERING

19ASO301 BASICS OF AERONAUTICAL ENGINEERING

UNIT 1 –HISTORY OF FLIGHT





HISTORY OF FLIGHT



- *History of Flights*
- *Ornithopters*
- *Hot Air Balloon*
- *Development of Flight - 18th & 19th century*
- *Development of Flight - 20th century*
- *Summary*



TEXT BOOK



- *Anderson. J D, “Introduction to Flight”, McGraw-Hill, 1995*
- *Richard S. Shevel, “fundamentals of Flight”, Prentice Hall, 2010*



HISTORY OF FLIGHT



“Birds fly, so why can't I?”

- That question was probably first asked by cave dwellers watching a bird swoop through the air. Perhaps even then, people understood the advantages of human flight.
- The desire to defy gravity and experience the freedom of flight compelled early attempts to unravel the mysterious technique the birds had mastered proficiently.





HISTORY OF FLIGHT



To the exciting world of aeronautics!!!!

- The term aeronautics originated in France
- Derived from Greek words for “air” and “to sail.”
- It is the study of flight and the operation of aircraft.



29-07-2020

Fundamentals of Aeronautical Engineering
KIT-Kalsagnarkaranamidhi Institute of Technology



HISTORY OF FLIGHT



Myths Flight of Fantasy

Greek Myth Daedalus and Icarus
Wings Fastened with Wax





HISTORY OF FLIGHT



Daedalus & Icarus



HISTORY OF FLIGHT



- *Daedulus was a skillful Architect & Craftsman. He was a symbol of Wisdom & Power*
- *He was envious of his nephew's accomplishments, attempted to murder him*
- *He tried to murder him by throwing him down from 'Acropolis', Athens*
- *In Greek, "Acro" means Highest Point & "Polis" means City*
- *Acropolis is an ancient citadel located on a flattish rock, above the city of Athens, Greece*



HISTORY OF FLIGHT



- *Daedulus & his son Icarus were imprisoned in the Mediterranean sea*
- *Daedulus is said to have made wings fastened with Wax*
- *With the wings they escaped flying through air*
- *Against his Father's warnings, Icarus flew close to the sun*
- *Wax melted and he fell to his death in the sea*



HISTORY OF FLIGHT



- ***ALL EARLY THINKING OF HUMAN FLIGHT CENTERED ON THE IMITATION OF BIRDS***
- *Various unsung ancient & medieval people fashioned wings and met with disastrous accidents*
- *They jumped from towers or roofs flapping vigorously*
- *Strapping a pair of wings to arms fell out of favor*