



WINGS OF AERO

PRESENTS



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# T.E.M.S Academy

Online Course



## Lesson Recap

1

Initial sizing of Weight  
Estimation of gross weight

2

Determining the Fuel tank volume  
Based on the tank type and packing factor

3

How to design a wing ??  
To be continued with wing configuration,  
location, cross-section, aerodynamic  
characteristic and so on...

# Estimation of Wing parameters

- 01** WING CONFIGURATION  
Planform, number of wings & its location

- 02** AERODYNAMIC CHARACTERISTICS  
Ideal coefficient of lift and stall characteristics





# Aircraft Design Course

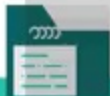


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APPLY



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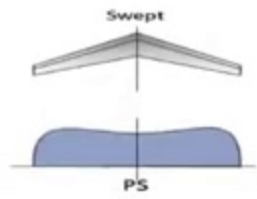
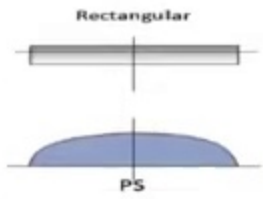
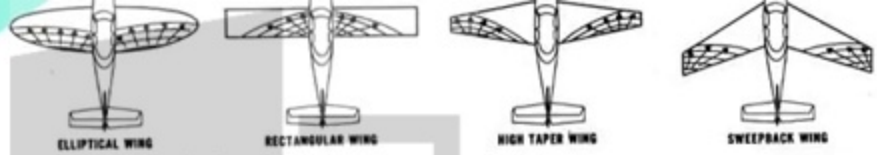




# Determining wing configuration

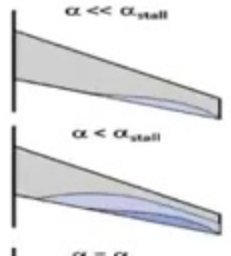
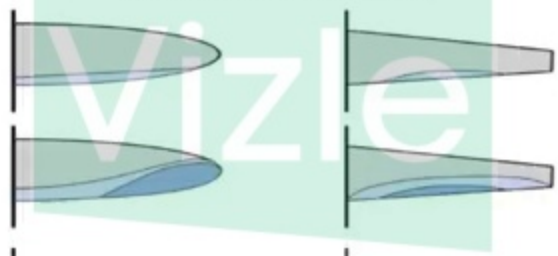
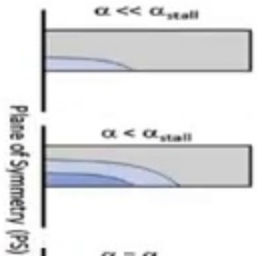
Based on Federal & military Aviation Regulations





Spanwise Distribution of Section Lift Coefficients

Stall Progression (Half Wing)







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# Rectangular wing

simplest to  
manufacture

Not aerodynamically  
efficient



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