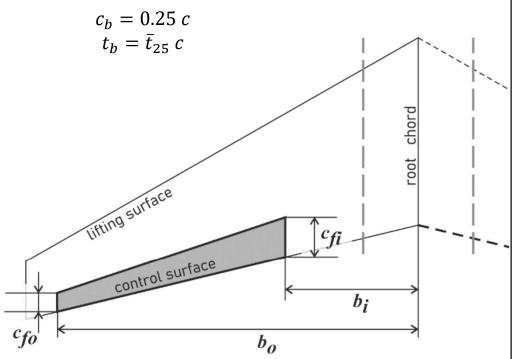
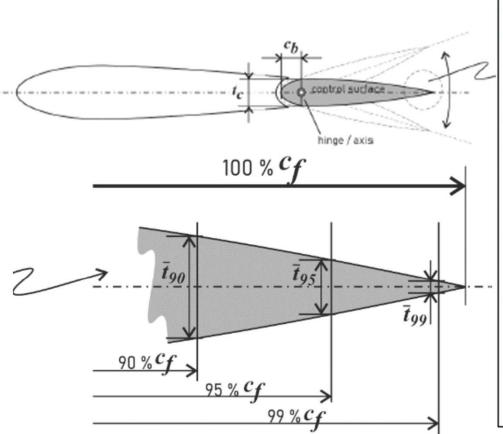
Tutorial Modul 3

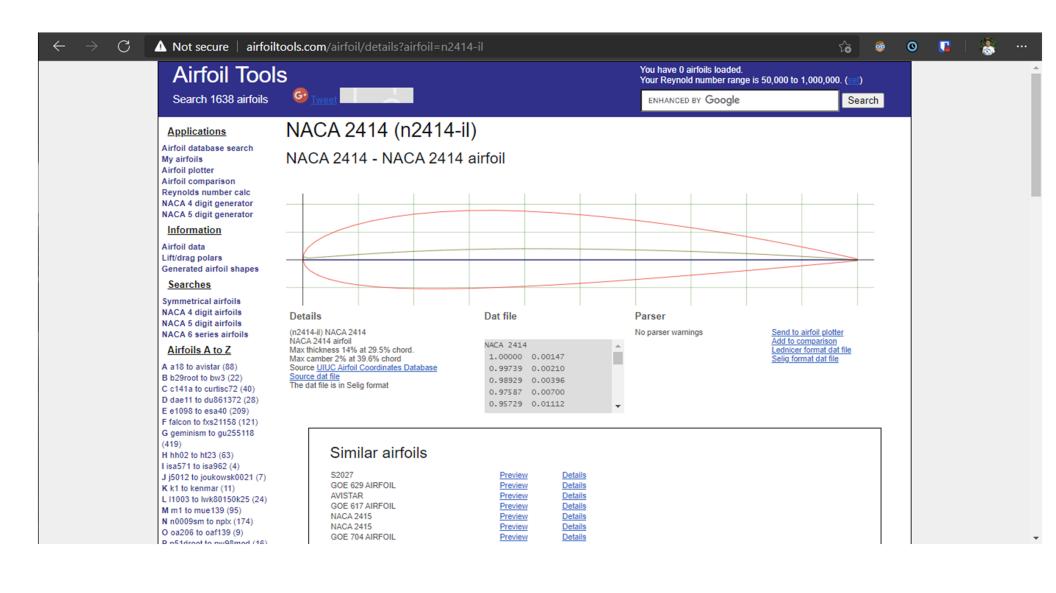
AE3220 Dinamika Terbang 1 April 2021



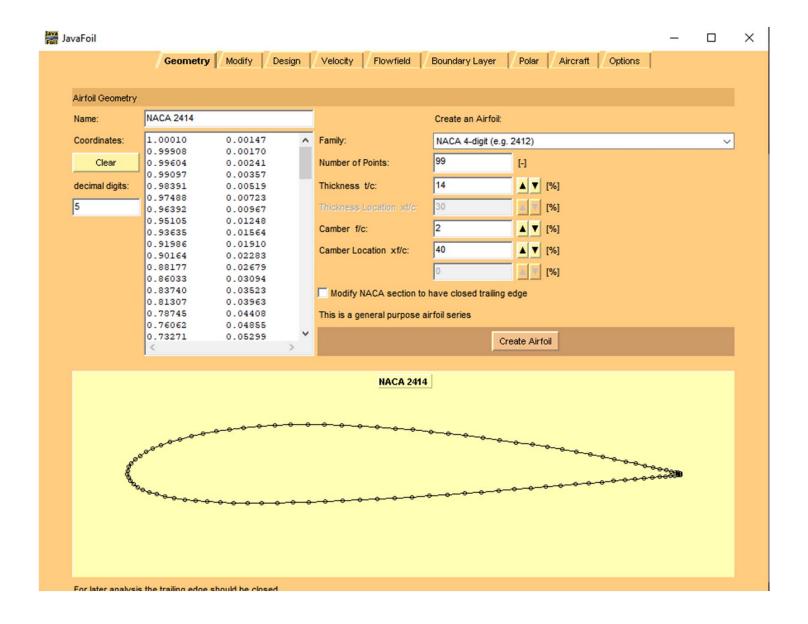
	ELEVATOR		
	Chord Inboard (Cf):	[m]	
	Chord Outboard (Cfo):	[m]	
	Chord rata-rata (C):	[m]	
	Semispan Inboard (<i>bfi</i>):	[m]	
`	Semispan Outboard (bjo):	[m]	
	Axis Hor-pos (C _b):	[m]	
	Tebal airfoil pada pos. axis (t _b):	[m]	
	Tebal airfoil (per c) pada 90% chord (\overline{l}_{90}):	[-]	
	Tebal airfoil (per c) pada 95% chord (\overline{t}_{95}):	[-]	
•	Tebal airfoil (per c) pada 99% chord (\overline{t}_{99}):	[-]	
	Kemiringan profil airfoil antara 90% - 99% \rightarrow		
	$\tan\left(\frac{\phi_{TE}}{2}\right) = \frac{1}{2} \left[\frac{\overline{t}_{00} - \overline{t}_{00}}{0.09}\right]$	[-]	
	Kemiringan profil airfoil antara 95% - 99% $ ightarrow$		
	$\tan\left(\frac{\phi_{TS}}{2}\right) = \frac{1}{2} \left[\frac{\overline{\iota}_{05} - \overline{\iota}_{90}}{0.04}\right]$	[-]	



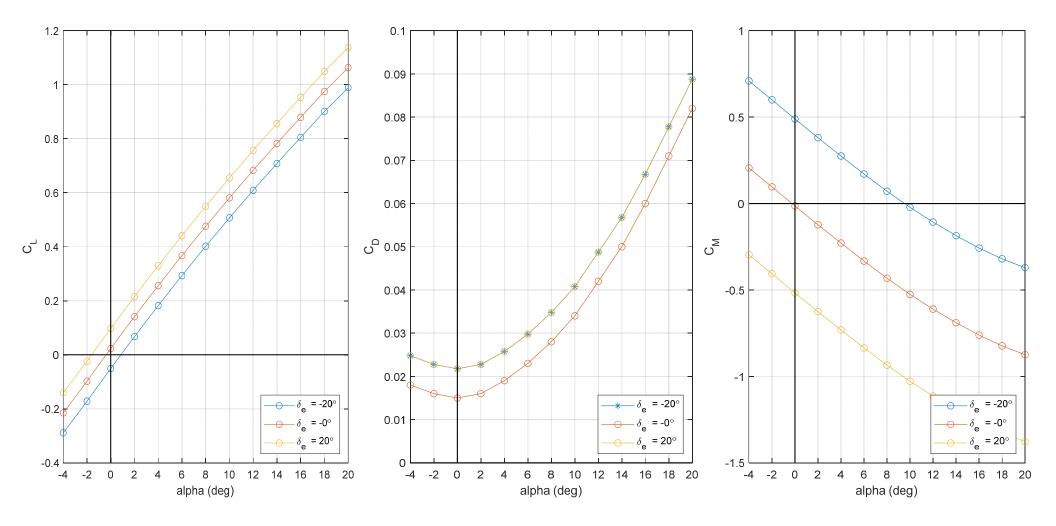
	ELEVATOR				
	Chord Inboard (Cfi):	[m]			
	Chord Outboard (Cfo):	[m]			
	Chord rata-rata (C):	[m]			
	Semispan Inboard (<i>bfi</i>):	[m]			
	Semispan Outboard (<i>bfo</i>):	[m]			
	Axis Hor-pos (C _b):	[m]			
	Tebal airfoil pada pos. axis (t _b):	[m]			
	Tebal airfoil (per c) pada 90% chord (\overline{l}_{90}):		[-]		
	Tebal airfoil (per c) pada 95% chord (\overline{t}_{95}):		[-]		
	Tebal airfoil (per c) pada 99% chord (\overline{t}_{99}):		[-]		
	Kemiringan profil airfoil antara 90% - 99% \rightarrow				
	$\tan\left(\frac{\phi_{TE}}{2}\right) = \frac{1}{2} \left[\frac{\overline{t}_{00} - \overline{t}_{00}}{0.09}\right]$		[-]		
	Kemiringan profil airfoil antara 95% - 99% →				
	$\tan\left(\frac{\phi_{TS}}{2}\right) = \frac{1}{2} \left[\frac{\overline{\iota}_{ss} - \overline{\iota}_{so}}{0.04}\right]$		[-]		

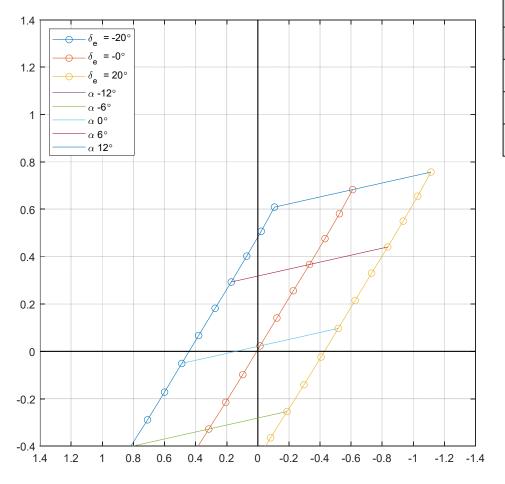


NACA 2414			Axis Hor-pos (C _b):	[m]
1.000000	0.001470	0.000000 0.000000		
0.997390	0.002100	0.003790 -0.010310	Tabal sideil and a nec suic (t)	[m]
0.989290	0.003960	0.012930 -0.019560	Tebal airfoil pada pos. axis (tь):	[m]
0.975870	0.007000	0.027300 -0.027700	_	
0.957290	0.011120	0.046690 -0.034710	Tebal airfoil (per C) pada 90% chord (\overline{t}_{90}):	[-]
0.933720	0.016200	0.070870 -0.040540		
0.905420	0.022070	0.099570 -0.045160	Tebal airfoil (per C) pada 95% chord (\overline{t}_{os}):	[1]
0.872670	0.028570	0.132460 -0.048580	reval airroli (per c) pada 35% chord (195).	[-]
0.835820	0.035520	0.169180 -0.050820		
0.795270	0.042740	0.209370 -0.051950	Tebal airfoil (per C) pada 99% chord (\overline{t}_{99}):	[-]
0.751430	0.050040	0.252600 -0.052080	,,	•••
0.704800	0.057230	0.298440 -0.051330	Kemiringan profil airfoil antara 90% - 99% -)
0.655860	0.064120	0.346440 -0.049870	Remaining an promitant and a solar 35%	•
0.605150	0.070530	0.396110 -0.047870	(4 /) 1[Z	- -
0.553240	0.076290	0.447390 -0.045370	$\tan\left(\frac{\phi_{TE}}{2}\right) = \frac{1}{2}\left[\frac{t_2}{t_2}\right]$	0 - L ₂₂₂ : [-]
0.500690	0.081200	0.499310 -0.042320	(72) 2[0.09
0.448080	0.085120	0.551290 -0.038860		
0.395980	0.087870	0.602760 -0.035160	Kemiringan profil airfoil antara 95% - 99% -)
0.344540	0.089130	0.653160 -0.031320		= 1
0.294820	0.088660	0.701940 -0.027450	$\tan\left(\frac{\phi_{TE}}{2}\right) = \frac{1}{2}\left[\frac{\overline{t}_{x}}{2}\right]$	<u>s - t₂₀ </u> : [-]
0.247400	0.086450	0.748570 -0.023650	(/2) 2	0.04
0.202850	0.082550	0.792520 -0.019980		
0.161690	0.077070	0.833310 -0.016500		
0.124400	0.070140	0.870480 -0.013280	0.1	
0.091410	0.061980	0.903600 -0.010350		
0.063100	0.052810	0.932300 -0.007760	0.05	
0.039770	0.042890	0.956260 -0.005570		
0.021650	0.032450	0.975180 -0.003810	0	
0.008920	0.021710	0.988860 -0.002520 ^{-0.2}	0.2 0.4 0.	6 0.8 1
0.001690	0.010850	0.997130 -0.001730	-0.05	
0.000000	0.000000	1.000000 -0.001470		
			-0.1	



DEMO DATCOM





	80% MTOW			мтоw		
Cu						
CG	Most Aft	Design	Most Forward	Most Aft	Design	Most Forward
$lpha_{ ext{trim}}$						
$\delta_{e ext{trim}}$						

