

BATXI LLERAT



CONSTRUÏM EL FUTUR AMB TU



Hch' gY[i]h' dfYgYbhYa ' 'U' bcghfU' dfcdcgU' XY' a Uh, f]Yg' XY' a cXU'hUh']' cdhUh]j Yg' ei Y' \U' XY' dYfa YhfY' U' 'U'i a bY#U' XYZ]b]f' Y' gYi g' Yghi X]g' XY' VUH]' YfUh' Yb' fY' UW]CEU. ' 'U' a cXU'hUh' YgWt']XU' fNi a Ub]hUh']' W, bWYg' gcWU' g' c' W, bWYg']' hYWbc' c[]Ukz' Yg' gYj Yg' Yl dYWUh]j Yg']' \UV]]hUhgž']' U' g' Yghi X]g' gi dYf]cfg' ei Y' hf']bhYf, g' U' W fgUf' Yb' i b' Z' hi f' dfcdYf"'

@U' a cXU'hUh' XEi a Ub]hUhg']' W, bWYg' gcWU' g' gDXfY, U' U' 'U'i a bUh' Ua V']bei]Yh' Xg' fY' UW]cbUXYg' Ua V' Y' g' Yghi X]g']' b[' gh]Wg']' hYfUf]gž' 'U' Z]cgcZ]Už' Yg' a Ub]ZYghUW]cbg' W' hi fU' gž' Yg' W, bWYg' gcWU' gž' 'fX]ei Ygž' dc' th]ei Yg']' YWt' b' a]ei Ygž' 'U' [Ygh]CE' U' Xa]b]ghfUW]CEd' • V']WUž' 'U' Wt' a i b]WU]CEž' Yg' fY' UW]cbg' d' • V']ei Ygž' 'U' di V']WUhž' Y' hi f]ga Y']' U' hfYg' gYfj Y]g"'

@U' a cXU'hUh' XY' W, bWYg']' hYWbc' c[]U' gDXfY, U' U' 'U'i a bUh']bhYfYggUh' dYf' Yg' W, bWYg' Yl dYf]a YbhU' gž' Yg' a UhYa { h]ei Ygž' Y' g' Yghi X]g' fY' UW]cbUhg' Ua V' Wt' bh]b[i hg' WYbh]Z]Wt' gUb]hUf]g']' Y' a CE' XY' g' dfcW' ggcg' hYWbc' ' []Wg']' XY' g' a UhYf]U' gž']bghfi a Ybhgž' UdUfY' g']' a { ei]bYg' i h]]hUhg' Yb' 'U' dfcXi W]CEXY' Vfbg']' gYfj Y]g"'

@U' i a bY#U' \U' XY' W fgUf' cV'] [Uh' f]Ua Ybh' 'U' a Uh, f]U' Wt' a i bU' XEdW]CE XY' 'U' gYj U' a cXU'hUh' fYb' Y' W]g' XEi a Ub]hUhgž' \Ui f{ 'XY' hf]Uf' @@5H# / Yb' Y' W]g' XY' 7], bWYg' GcWU' g' \Ui f{ 'XY' hf]Uf' A 5H9A AEH=E I 9G' 5D@=7589G' 5' @9G' 7 =ä B 7 =9G' GC 7 =5 @G / Yb' Y' W]g' XY' 7], bWYg' \Ui f{ 'XY' hf]Uf' A 5H9A AEH=E I 9G']' Yb' Y' W]g' XY' hYWbc' c[]U' \Ui f{ 'XY' hf]Uf' A 5H9A AEH=E I 9G' k' \U' XE' gWt']f' YbhY' Xi Yg' c' hfYg' a Uh, f]Yg' XY' a cXU'hUh' XY' (' \cfYg' c' Vf' & a Uh, f]Yg' XY' a cXU'hUh' XY' (' \cfYg']' & a Uh, f]Yg' cdhUh]j Yg' XY' & ' \cfYg" DYf' hUbž' Yb' UWUVUf' Y' VUH]' YfUhž' 'U' i a bUh' cVh]bXf{ 'Y' h#c' XY' 6UH]' YfUh]g' \U' W fgUh']' gi dYfUh' 'U' a Uh, f]U' Wt' a i bU' XEdW]CEU' df]a Yf']' gY[cb']ž' Wt' a ' U' a #]a ž' ei UhY' a Uh, f]Yg' XY' 'U' gYj U' a cXU'hUh' Yb' Y' g' Xcg' W fgcg"'

5' dUfh' XY' g']bhYfYggcg' dYfgcbU' g']' Yg' UZ]b]hUhg' XY' WUXUgW' Ua V' Y' g' a Uh, f]Yg' ei Y' hch' gY[i]h' Yg' XYgW]i Ybž' fYWt' a UbYa 'ei Y' 'U' i a bY#U' ZUW' i b' Wt' d' XE' ' 'U' ']ghUh' XY' dcbXYfUW]CEXY' Yg' a Uh, f]Yg' XY' a cXU'hUh' dYf' U' 'U' W]g' U' 'U' i b]j Yfg]hUhž' Wt' a ' i b' W]hYf] a fg' U' hYb]f' Yb' Wt' a dhY' U' 'U' cfU' XY' ZYf' 'U' hf]U. ' \hnd. # # i b]j Yfg]hUhg" [YbWUh" WUh# WU# dfY] bgW] dW]c# hUi 'USdcbXYfUW]cbg#'

ASSIGNATURES COMUNES D'OPCIÓ



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Ciències i Tecnologia**
Matemàtiques



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ASSIGNATURES OPTATIVES PRÒPIES DE L'INSTITUT BOSCH DE LA COMA

- PSICOLOGIA
- ENGLISH FOR YOUR FUTURE
- A DRETA LLEI
- TRACTAMENT DIGITAL
DE LA INFORMACIÓ
- BIOLOGIA HUMANA



MATÈRIES COMUNES

MATÈRIES DE MODALITAT (4 hores setmanals)

MATÈRIES ESPECÍFIQUES (4 hores setmanals)

1
CURS

- LLENGUA CATALANA I LITERATURA
- LLENGUA CASTELLANA I LITERATURA
- LLENGUA ANGLESA
- FILOSOFIA I CIUTADANIA
- CIÈNCIES PER AL MÓN CONTEMPORANI
- EDUCACIÓ FÍSICA
- TUTORIA



- GREC I
- LITERATURA UNIVERSAL
- ECONOMIA
- EMPRESA I



- BIOLOGIA I
- QUÍMICA I
- TECNOLOGIA I
- DIBUIX TÈCNIC I

- HISTÒRIA DEL MÓN CONTEMPORANI
- FRANCÈS
- LITERATURA CASTELLANA
- FÍSICA I
- CIÈNCIES DE LA TERRA I

2
CURS

- LLENGUA CATALANA I LITERATURA
- LLENGUA CASTELLANA I LITERATURA
- LLENGUA ANGLESA
- HISTÒRIA
- HISTÒRIA DE LA FILOSOFIA
- TUTORIA



- GREC II
- GEOGRAFIA
- ART
- EMPRESA II



- BIOLOGIA II
- QUÍMICA II
- TECNOLOGIA II
- DIBUIX TÈCNIC II

- LITERATURA CATALANA
- FÍSICA II
- CIÈNCIES DE LA TERRA II
- 2 OPTATIVES - 2 H/SET.

INSTITUT BOSCH DE LA COMA

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@Yg'a Uh, f]Yg'cdhUh]j Yg'XY' & \cfYg'gYha UbU'g'XY' & b'XY'6UH]''YfUh'gCb''Yg'df' d]Yg'XY'WbhfY. Dg]Wc'c[]Už' 9b[]'g\Zcf'mci f'Zi hi fYž'5'XfYhU''Y]]'HfUWUJa Ybh'X][]hU'XY''U']bZcfa UW'CE'f'BCJ 9H5H. ''BcdhUh]j U'XY'6]c'c[]U' <i a UbU'Wbj]U'dYf'U'W fg'&\$! &%]Yg'hfUbgZcfa U'Yb''BcdhUh]j U'XY'6]c'c[]U']E i fā]W'YI dYf]a YbhU'' 9g'a Ubhf'Y''HfYVU''XY'FYWfWU'Wca 'U'a Uh, f]U'cV'] [Uh'f]U']''BghXU'U''B9a dfYgU'Wca 'U'a Uh, f]U'cdhUh]j U''

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%7I F G	@@5Hå = fla Uh, f]U`Wta i bU`XEdW]CEXY`(`\cfYgk`	%7I F G	A 5H9A AEH=E I 9G`5D@=7589G`5`@9G`7 =ãB 7=9G`GC 7 =5@G`= fla Uh, f]U`Wta i bU`XEdW]CEXY`(`\cfYgk`
	<p>@U` a Uh, f]U` XY` @Uh# = Ygh{` dYbgUXU` dYf` U`g` U`i a bYg` XY` VUH`]`YfUH` XEi a Ub]hUhg`]`W, bWYg`gcW]U`g`</p> <p>9ghi X]UfYa` Y`Z` bW]cbUa` YbhXY`U`Yb[i U`U`Uh]bU`dYf`hU`ei Y`W]i a bUh`di [i]` hfUXi]fz` Ua V`W]XU` XY` X]W]cbUf]z` hYI hcg` UXUdhUhg` HUA Vf` hfYVU`UfYa`` E]j c`i W]CEXY`g`a` chg`U`h]bg`U`W]hU`{ z`ZY`ei Y`Ybf]ei]f{` Y`j` cW]Vi`Uf]`]`U`gYj` U` i h]`]mUW]CEYb`U`fYghU`XY`a` Uh, f]Yg`YgdYWZ]ei Yg`XY`VUH`]`YfUH`</p> <p>DY`ei Y`ZU`U`U`W`hi fU`Yghi X]UfYa`` Y`g` dYfgcbUh[Yg`]` ZYhg` \]gh`f]W]g` a fg` fY`Yj` Ubhgz` Wta`` UfU`U`Z` bXUW]CE XY` Fca Uz`>]` 7,`gUf`]`U` [i YffU`XY``Yg` ; {`"}Ygz`9gd{ fhUW]`U`fYj`c`hU`XE]gWUi`gz`BYfCE` HUA Vf`j`Yi`fYa``Wta``j`]`Yb`U``W]bh][`U`Fca`Uz`ei`]bg`[`fi`dg`</p> <p>gcW]U`g`]`ei`]bYg`]bgh]h`W]cbg`dc`h]ei`Yg` \]` \Uj`]Uz`ei` ,` Yghi`X]Uj`Ybž`ei`]bg` \UV]hUh[`Yg`hYb]Yb`ž`Wta``a`Yb`Uj`Ybž`ei` ,`ZY]Yb`ei`Ub`bc`hfYVU`Uj`Yb`5ei`YghU`]bZcfa`UW]CE`Ybg`dYfa`Yhf{`YbhYbXfY`a`]`cf`Y`hUfUbb{`XY`g`fca`Ubg`ei`Y`j`Ub`]bghU`Uf!`gY`U`7`UhU`i`bmt`</p> <p>Xi`fUbhi`bg`ei`Ubhg`gY[`Yg`</p> <p>Hchg`Uei`Yghg`W`bh]b[i`hg`Ybg`dYfa`YhfUb`UXcbUf!`bcg`XY`E`Yf,`bW]U`ei`Y`Ybg` \Ub`XY]I`Uh`Y`g`fca`Ubg`]`Ybg`gYf{`a`fg`Z`W`YghUV`]f`i`b`j`]bWY`X]FYWY`YbhFY`U` W]j`]`]mUW]CEfca`UbU`]`U`bcghU`</p>		<p>G]`j`c`Yi``ZYf`Yghi`X]g`i`b]j`Yfg]hUf]g`XY`W,`bWYg`gcW]U`gz`WU`ei`Y`UbYi`VYb`dfYdUfUhg`XY`U`a`Uh, f]U`XY`a`UhYa`{`h]ei`Yg`Ud`]WUXYgž`U`ei`Y`V`{`g]W]a`Ybh`Yb`Y`g` [fUi`g` XE]Xa`]b]ghfUW]CE`]` X]fYW]CE`XE]a`dfYgUz` 7,`bWYg`Ya`dfYgUf]U`g`]` 9W`bca`]U`g]a`dUfhY]I`Uei`YghU`a`Uh, f]U`5`a`fg`XY`gYf`bYW]gg{`f]U`dYf`U` [fUi`Yb`9Xi`W]W]CE`hUa`Vf`fg`]a`dcfhUbh`hUbh`dYf`U`W]WY`XY` [fUi`gi`dYf]cf`Yb`5Xa`]b]ghfUW]CE`]` [Ygh]CE`Wta``dYf`U`XE]bZcfa`{`h]W]]`Wta`i`b]W]W]cbg`9b`a`c`hg`XY`g`Yghi`X]g`i`b]j`Yfg]hUf]g`W]hUhgž`Yg`a`UhYa`{`h]ei`Yg`Ud`]WUXYg`fg`i`bU`XY`Yg`a`Uh, f]Yg`XY`a`cXU`]hUh`U`hf]Uf`Yb`U`ZUgY` [YbYfU`c`Vf`i`bU`a`Uh, f]U`XY`a`cXU`]hUh`cdhUh]`U`dYf`di`Uf`bchU`Yb`U`ZUgY`YgdYWZ]W]9g`hfYVU`Uf{`.</p> <p>Uk` 5f]ha` ,`h]W]]` {` [YVfU.`W`b`i`bhg`bi`a` ,`f]W]z`dfcV`Ya`Yg`XE]bYei`UW]cbg`]bYU`gz`dc`]bca`]g`]`a`UhYa`{`h]W]Z]bUbW]fU`</p> <p>Vk` 5b{`]g,` X]ZYfYbhg`h]di`g`XY`Z`bW]cbg`ei`Y`dcXYb`gYf`a`cXY`g`XY`Zb`a`Ybg`gcW]U`g`]`YV`b`a`]W]g`</p> <p>Wk` DfcVUV]`]hUh`]` YghUX]gh]W].`Yghi`X]`XY`U`fY`UW]CE`YbhFY`j`Uf]UV`Yg`Yb`W`bhYI`hcg`gcW]U`gz`dfcVUV]`]hUh`]`Y`hfYVU`YghUX]gh]W`</p>

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%7I FG	97CBCA =5 89 @9A DF 9G5 = fla Uh, f]U'XY'a cXU'hUh'XY' (\cfYgk'	%7I FG	97CBCA =5 fla Uh, f]U'XY'a cXU'hUh'XY' (\cfYgk'
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@U' a Uh, f]U' Yg'XYgYbj c'i dU'U'U'U'f['XY'g'Xcg'W fgcg'XY'VUH]''YfUH''5' df]a Yf' W fg' Yg' hfYVU'U'Y''ei Y''E'a dfYgU'g][b]Z]VW' Yb' i bU'YVW'bc a]U'XY'a YfWU'h'W'a U']bgh]h' W]CE [YbYfUXcfU' XE]VW]j]hUh'YVW'b' a]WU'z'XY' dfcXi WY'g'ei Y' V'VfY]I Yb' bYV'gg]hUhg']' [YbYfYb' VYbYghUfz'XY' hfYVU'U']'XY' f]ei YgU'Yb'U'gcW]YhUh'z' hUbh' a UhY]I z'XY'U'gYj U'fY'UW]CEUa V''E'bhcfb''

5''Uf['XY'W fg'g]U'Xe]]fY]I 'i bU'j]g]CEXY''Yg'Zi bV]cbg' [YbYfU'g'XY''E'a dfYgU'] XY''Yg'Zi bV]cbg'YgdYVW]zei Yg'XY' WUXUgW bU'XY''Yg' { fY'Yg'Yb'ei Y'g'U'f[Ub]mU' fY'W fgcg' \i a Ubgz' dfcXi W]CE' W'a YfWU']mUW]CE''''] XY' W'a ' Yg' fY'UW]cbYb']]bhYfUW]i Yb'dYf'UW'cbgY [i]f'Y'g'cV'YW]i g'Z]I Uhg''9g' hfUWU'U'd'Ub]Z]VW]CEXY'U' dfcXi W]CE' Y'g' V'g'hcg'z' gD'UbU']mYb' 'Yg' UW]cbg' W'a YfWU'g'z']bhYdfYhUbh'Yg' X]j YfgYg'YghfUh, []Yg'dcgg]V'Yg'hch'j U'cfUbh'f]a dUWY'ei Y' [YbYfYb'gcVfY'Y' W'a dcfhUa Ybh'XY''Yg'dYfgcbYg'V'cbgi a]XcfYg''

FYV'W'b,]I Yf'Y''f]gWYa dfYgUf]U''] Y''dfcW'f'g'XY' dfYgU'XY'XYW]g]CEXUj Ubh'U' bYV'gg]hUh'ei Y''E]VW]j]hUh' dfcXi W]j U'g][i] gcghYb]V'Yz' hUbh'dYf'U'U'df' d]U' Ya dfYgU'É' VYbYZ]V]! W'a 'dYf'U'U'gcW]YhUh'Yb' [YbYfU''

GY [i]f'Uei YghU'Ugg][bUhi fU'dYfa Yh'UXei]f]f'i bg'W'cbY]I Ya Ybhg'XY''Yg' W]i, bV]Yg'YV'W'b' a]ei Yg']'f'X]ei Yg'ei Y'Y'g'dYfa Yhf{ 'Yg'W']f'Ua V'a c'h'a fg' W]hYf'Y'g'Ygh' X]g'ei Y'\]Ygh][i]b'fY'UW]cbUhg'f]9V'W'bc a]Uz'589z'7ca dhUV]]hUh'] :]bUbW'g'z'8fYh''''E'

@9V'W'bc a]U'Ygh{ 'cW'dUbh'Yg'dcfhUXYg'XY'hchg'Y'g'a]h'Ubg'XY'W'a i b]WUW]CE'Ygh{ ' UZYVWUbh'Y''X]U'U'X]U'XY''Yg'Z]a #]Yg''@U'gcW]YhUh'UW]i U''YI] [Y]I U'hchg'Y'g'W]i hUXUbg' Y''W'cbY]I Ya Ybh'XY'W'cbW'dhYg'XY'h]di g'YV'W'b' a]W'

5''E'bhcfb'Z]a]]Uf'hchg'\Ya 'XY'dcfhUf'Y''W'bhcf''XY'g']b[fYggcg']'Yg'XYgdYgYg'] dfYbXfY'XYW]g]cbg'W'a 'U'W'cbgi a]Xcf'g'XY'W'a 'fUW]cbU']mUf'Y''bcghfY'W'cbgi a z' XY'W'a 'UW]i Uf'ei Ub'di [Yb'c'VU]I Yb'Y'g'dfYi g'c'Y'g'gU'Uf]g'z'YbXYi hUf'bcg'c' YghU']Uf''''''

7ca 'U'W'cbgi a]Xcf'g'\Ya 'XY'W'cb,]I Yf'W'a 'Yg'Z]I Yb'Y'g'dfYi g'XY'g'V'fbg']gYf]Y]g' ei Y'W'a dfYa ']W'a 'UW]i Yb'Y'g'a YfWUhg''

9b'Y''a E' 'U'VcfU'gca 'dUfh']bhYfYggUXU'Yb'W'a dfYbXfY''Yg'XYW]g]cbg'ei Y'dfYb' 'E'a dfYgUz'W'a 'Zi bW]cbU'Y''a YfWU'h'XY''hfYVU'z'W'a 'Yg'XYh'fa]bU'Y''gU'Uf]z' 'E'W'dUW]CE']U'hU'U'X'U'h' f''''''

@U'fY'UW]CEUa V''Yg'Ybh]hUhg'Z]bUbW'fYg'ei Ub'\Ya 'XY'dfYbXfY'XYW]g]cbg'gcVfY'Y'g' bcghfYg' d'Ubg' X'E]ghU'j]'fd'Ubg'XY' dYbg]cbg'z' X]d'g]hg' ''''E' c' X'E]bXYi hUa Ybh' fdf'fgh]V'g'\]dchYVW]f]g'z'df'fgh]V'g'dYfgcbU'gk''

7ca 'U'W'bh]Vi Ybhg'\Ya 'XY'W'cb,]I Yf'Y'g'h]di g'X'E]a d'c'hc'g']gUVYf'ei]b'•g'Yb'Z]b' 'Yg'UXa]b]ghfUW]cbg'd'•V']ei Yg'U]I #W'a ']XYbh]Z]WUf''Yg'dc' #]ei Yg'YV'W'b' a]ei Yg' ei Y'Ud']ei Yb'Y'g' [c] Yfbg''

.....7ca 'U'W]i hUXUbg'Yi fcdYi g'Yb' i b'a E' ['cVU']mUhYbg']bhYfYggU'gUVYf''W'a 'Yg' Z]I U'Y'h]di g'XY'W]bj]X'D' bU'X]j]gU'U]I #W'a 'W'cb,]I Yf'Y'Zi bV]cbUa Ybh'XY'U' i b]CE 9i fcdYU']A cbYh' f]U']'Yg'gYj Yg'fY'UW]cbg'Ua V''U'fYghU'XY''a E''

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a les Ciències Socials

<p>%7I FG' @=H9F 5HI F 5'75GH9@@5B 5'</p> <p>fla Uh, f]U'XY'a cXU'hUh'XY'(\cfYgk'</p>	<p>%7I FG' < =GHë F =5'89@'A é B'7CBH9A DCF 5B ='</p> <p>fla Uh, f]U'XY'a cXU'hUh'XY'(\cfYgk'</p>
<p>9b' Uei YghU' Ugg][bUhi fU' Yg' hfYVU''fUub' i bU' g, f]Y' XY' ZFU[a Ybhg']' XE'VfYg']a dcfhUbbhg' XY' 'U']hYfUhi fU' WUghY''UbUz' ei Y' Ybg' dYfa YhfUb' XYgWëVf]f' i bYg' \]gh' f]Yg' UdUgg]cbUbhgz' i bg' dYfgcbUh[Yg' a c'hj' Uf]Uhgz' i bYg' , dcei Yg']' i bYg' a YbhU']hUhg' ei Y' g'Cb' U' U' VUgY' XE' bU' W' hi fU' ei Y' Ybg' fg' a c'h' d' fcdYfU']' ei Y' \U' h]b[i h' i b' [fUb' dYg' Yb' 'Ea U[]bUf] Wë' 'YVW]i' XY' 'bcghfY' Ybhcfb' '9bhYbXfYa' ei]b' fg' Y' g][b]Z]WU' h' XY' ZFUgYg' Wëa' . [5bXzVUa' cg' g]b' Vi' gWU' fbcg' dYfc' gUV]YbXc' ei Y' UbXzVUa' cg' dUfU' YbWë' bhfU' fbcg']']' XY' a c'hYg' U' hfYg' "9' hfYVU' 'XY' hch' Y' 'W' fg' Yg' Wëa' d' Ya' YbhUf{ ' Ua' V' 'U' d' fc' YVW]CE' XY' dY' 'W' Yg' j']bW' UXYg' Ua' V' 'Yg' cVfYg' hfYVU' UXYg' U' WUggYz' 'Ei X]W]CE' XE'YbhfYj']ghYg' fUX]cZ' b]ei Yg' c' h' Yj']gUXYg' U' dYfgcbU']hUhg' XY' 'U' W' hi fUz' U' j']g]hU' U' hYUhfY' fgYa' dY' ei Y' 'U' d' fc[fUa' UW]CE' hYUhfU' g][i]' UhfUW]U' Uë' dYf' j']i' fY' i bU' U' hfU' YI' dYfgg]CE']hYf{ f]Uz' YhW'</p> <p>9' WëbY] Ya Ybh']' 'EYgh' X] XE'Uei YghYg' cVfYgz' Wëb' 'i bhJa' Ybhz' g] YgWU' i z' Ua' V' Yg' ei Y' Yh' d' fcdcfW]cb]b' U' hfYg' Ugg][bUhi fYg' Wëa' 'U']hYfUhi fU' WUhu' UbUz' Yh' XcbUfUb' i b' VU[Uh[Y']hYfUf]z' WëbYa' Uhc[f{ Z]Wë' Ufhtgh]W']' W' hi fU']']' i bYg' h, Wë]ei Yg' XY' Wëa' YbhUf] XY' hYi h' f]Y[]fz' UbU']mUfz' YI' d']WUf']' j' U' cfUf' XY' a UbYfU' Wëh]W' 'Ez' ei Y' Yh' gYfUb' V[g]Wë' dYf' dcXYf' [Ui X]f' XY' a Cë' XY' WëbY] Ya Ybh']' gY[i]f' Ua' V' [UfUbh]Yg' i bg' Ygh' X]g' i b] Yfg]hUf]g' XE' a V]hg' X]j' Yfgcg' fUfhgz' \i a Ub]hUhgz' Z]c' c[]Ygz' Wëa' i b]WUW]CE' YbgYbUa' Ybhz' Wë, bW]Yg' gcW]U'g']' 'i fX]ei Yg' ' ' ']' hchg' Uei Y' g' ei Y' di [i]b' YghUf' fY' UW]cbUhg' Ua' V' Y' a Cë' XY' 'U' WYUW]CE' Yb' [YbYfU' E'</p>	<p>@U' \]gh' f]U' XY' a Cë' WëbhYa' dcfUb] fg' i bU' a Uh, f]U' ei Y' hf' 'U' j' c' i bhU' h' XY' ZYf]hY' YbhYbXfY' 'U' Wëa' d' YI' U' fYU']hU' h' XY' a Cë' UW]U' z' gcha' YgU' U' WUbj']g' UWW' YfUhg']' U' hfUbgZcfa' UW]cbg' d' fcZ' bXYg' XYf]j' UXYg' XY' 'fUd']WUW]CE' XY' 'Yg' bcj' Yg' hYWë' c' c[]Ygz' XY' g' d' fc[fYggcg' W]YbhZ]Wë']' XY' 'U' ['cVU']mUW]CE' a' i bX]U' '9b' XYZ]b]h]j' Uz' XcbUf] hY' Yg' d' U' hYg' d' Yf' YbhYbXfY' Y' a Cë' c' b' j']i' g'</p> <p>DYf' Uggc']f' Uei Ygh' cV' YVW]i' z' i h]]mUfYa' i bU' [fUb' X]j' Yfg]hU' h' XY' fYW' fgcg' XcW' a Ybhg' YgW]hgz' U' i X]c]]g' U' gz' YW]i' fU' XY' hYi hcgz' Y' UVcfUW]CE' XY' Xcgg]Yfg' YI' d']WU]h]i' gz' YhWz' gYbh' 'U' i h]]mUW]CE' XY' g' bci' g' fYW' fgcg' XY' 'U']bZcfa' UW]CE' f]bhYfbYhYb' YgdYV]U' E' i b' XY' g' a' fg' • h] g'</p> <p>@f] a V]h' Wëcbc' []W' XY' 'U' \]gh' f]U' XY' a Cë' WëbhYa' dcfUb] gY' g]h' U' Yb' Yg' gY['Yg' L' L']' LL']' Y' a Cë' UW]U' '9b' WUfU' ei Y' fYbZcW]a' Ybh' hYa' { h]Wë' bg]XYfU' df]bW]dU' a Ybh' Y' bcghfY' WëbhYI' h' a' fg' d' f']a' ' !' fYi' fcdYi']' Y' a Cë' c' W]XYbHU' !' z' i bU' XY' 'Yg' WUfUW]Yf]gh]ei Yg' X]gh]bh]j' Yg' XY' 'U' \]gh' f]U' WëbhYa' dcf[b]U' fg' 'i' ghUa' Ybh' Y' gYi' UVUgh' a' i bX]U' z' XY' a UbYfU' ei Y' YI' d']WUfYa' 'ZYhg' hfUbgW]bXYbHU' g' dYf' U' U' \]gh' f]U' XY' 'U' \i a Ub]hU' h' Wëa' 'UfU' U' FYj' c' i W]CE'</p> <p>: fUbW]gUz' 'U' FYj' c' i W]CE' =bXi' ghf]U' z' 'U' FYj' c' i W]CE' Fi' ggUz' 'Yg' Xi' Yg' ; i YffYg' A' i bX]U' g']' U' ; i YffU' : fYXU'</p> <p>9' WëbY] Ya Ybh']' 'EYgh' X] XE'Uei YghU' a Uh, f]U' XcbUf{ 'U' g' U' i a bYg' i b' VU[Uh[Y' UWX, a]WYb' E' a V]h' Ufhtgh]W] XY' dUhf]a' cb]z' ei Y' gYfUb' XY' a c' hU' i h]]hU' dYf' gY[i]f' Ua' V' [UfUbh]Yg' i bg' Ygh' X]g' i b] Yfg]hUf]g' XY' g' { a V]hg' XE' i a Ub]hUhg'] XY' 'Yg' 7' "GcW]U' g"</p>

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<p>%7I FG' A 5H9A ÆH=E I 9G' = fla Uh, f]U'Wc'a i bU'Xb'dW]CEXY' (\cfYgk'</p>	<p>%7I FG' 6=C @C; =5' = fla Uh, f]U'XY'a cXU']hUh'XY' (\cfYgk'</p>
<p>G] j c'Yi ' Zf' Yghi X]g' i b]j Yfg]hUf]g' XY' W, bW]Yg' Yi dYf]a YbhU'gž' V]cW], bW]Ygž' Yb[]bmYf]Ygž' 75: 9'c'dg]Wc'c[]Už'WU'ei Y'UbYi 'VYb'dfYdUfUhg'XY''U'a Uh, f]U'XY' a UhYa {h]ei Ygž' 'U' ei Y' Yb' Uei Yghg' [fUi g' g]a dUfhY]I Yb' 'Yg' a Uh, f]Yg' XY' a UhYa {h]ei Ygž' { '[YVfUž' W' W' ']' [Yca Yhf]U'' 5' a fg' XY'' [fUi 'Yb' 9Xi WU]CE' hUa Vf' fg']a dcfhUbbi hUbbi dYf' U' W]WY' XY' [fUi 'gi dYf]cf' Yb' 5Xa]b]ghfUW]CE'] Ygh]CEWc'a 'dYf'U' Xb'Zcfa {h]WU']Wc'a i b]WU]cbg''</p> <p>9b' a c'hg' XY'g' Yghi X]g' i b]j Yfg]hUf]g' W]hUgž' 'Yg' a UhYa {h]ei Yg' gCB' i bU' a Uh, f]U' XY' a cXU']hUh' U' hf]Uf' Yb' 'U' ZUgY' [YbYfU' c' Vf' i bU' a Uh, f]U' XY' a cXU']hUh'cdhU]j U'dYf'di 'Uf' bchU'Yb' 'U' ZUgY' YgdYWZ]WU'' 9g' hfYVU''Uf{ .</p> <p>Uk 5f]ha , h]WU'] { [YVfU. 'Wc'b' b] b]g' bi a , f]Wgž' dc'] bca]gž' dfc[fYgg]cbg'] gi W]Ygg]cbg''</p> <p>Vk ; Yca Yhf]U. 'hf][cbca Yhf]U'] [Yca Yhf]U' d'UbU''</p> <p>Wk 5b{]g]. 'Zi bW]cbg'ei Y'dcXYb'gYf'a cXY'g'XY'ZYb' a Ybg' W]Ybht]Wgž' hYWc' []Wg']gcW]U'g'' 8Yf]j UXYg'' DfcV'Ya Yg' Xb'dh]a]mUW]CE'</p> <p>DfcVUV]]hUh']' YghUX]gh]WU. 'fY'UW]CE YbhfY' j Uf]UV'Yg' Yb' Wc'bhYI hcg' W]Ybht]Wg'] gcW]U'g'' DfcVUV]]hUh']' Y' hfYVU'' YghUX]gh]W'</p>	<p>@U'V]c'c[]U'fg'i bU'X]g]W]d']bU'W]Ybht]WU'ei Y']bWci 'hchYg' 'Yg'e' Ygh]cbg'ei Y' hYbYb'U'j Yi fY'Ua V'Y'g'fggYfg'j]i g']'Ygh' X] Xb]ei Yghg'Yg'dchZf'XYg'XY' di bhg'XY'j]ghU'a c'hX]j Yfgcgž'hch']ei Y'gCB'Wc'a d'Ya YbhUf]g'/dYf'U]I ' 'Y' dfc[fUa U'XY''U'a Uh, f]U'fg'hUb'Ua d']'Ygh{ 'X]ghf]Vi \$iU''Uf['XY'Xcg'Wfgcg' XY'VUH']''YfUH''</p> <p>5' dUfh'Xb]W]W]X]f'U' Yg' 'h]a Yg']XYgž'a c'hYg'fYj c'i W]cb{ f]Ygž'ei Y''U'V]c'c[]U' \U' UdcfHUh' U' Wc'bY]I Ya Ybh' \i a {ž' 'b'V'YW]j' df]bW]dU' XY' 'U' a Uh, f]U' fg' Wc'a dfYbXfY' Wc'a ' g]U' b' dc[i h' [YbYfUf' hchYg' Uei YghYg']XYgž' fg' U' X]fž' Wc'b,]I Yf' Y' a , hcXY' W]Ybht]WU' HUa Vf' d'cgUfYa ' b]W]W]bh' Yb' 'U' bYW]gg]hUh'XY' fYgdYWUf'] Wc'bgYfj Uf' hchYg' 'Yg' a Ub]ZYghUW]cbg' XY' 'U' j]XUž' i bU'XY' 'Ug'ei U'g' gca 'bcgU'hfYg'a UH]I cg''</p> <p>DY'ei Y'ZU'U'g'Wc'bh]b[i hgž'j Yi fYa 'Yb'ei , Wc'bg]ghY]I 'Y'a , hcXY' W]Ybht]WU' 'U' gYj U'Ud']WU]CE' 9ghi X]UfYa 'Yghfi W]i fUž'Wc'a d'cg]W]CE'] bW]cbg' XY' 'Yg' a c' , W' Yg'cf[{ b]ei Ygž'U]I f'Wc'a 'Yg'a , hcXYg'Xb]gh' X] XY' 'U' W' 'i Už'Y'g' h]di g'df]bW]dU'g'XY' W' 'i 'Yg']'Wc'a 'Yg'XYgYbj c'i dU'Y' W]W]W' 'i Uf''] Yi fYa ' hUa Vf' Wc'a 'Yg'dcXYb' WUgg]Z]WUf' Y'g'cf[Ub]ga Yg'Yb'Zi bW]CEXY' 'gi ' dUfYbh]i ' Yj c'i h]i ''</p>

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<p>%7I FG' EI āA =75 '=</p> <p>fla Uh, f]U'XY'a cXU'hUh'XY' (\cfYgk'</p>	<p>%7I FG' H97BC@C; =5'=B8I GHF =5@='</p> <p>fla Uh, f]U'XY'a cXU'hUh'XY' (\cfYgk'</p>
<p>@U' a Uh, f]U' XY' Ei ā J]WU' = Ygh(dYbgUXU' dYf' U'g' U'i a bYg' XY' VUH]'YfU' ei Y' hYbYb']bhYf, g' dY' WēbY]l Ya Ybh' WYbhtZ]W]' hYWbc' []W]#c' ei Y' dYbgYb' W fgUf' Ygh' X]g' d'cgYf]c]fg' fY'UV]cbUhg' Ua V' Uei Ygh' { a V]h''</p> <p>9''df]a Yf' W fg' XY' ei ā J]WU' Ygh(YbZcWU' U'YbhYbXfY' Wēa 'Ygh(Zcfa UXU' U' a Uh, f]U']' fY'UV]cbUf! \c' Ua V' Y'g'g]Y' Yg'dfcd]YhUhg']' Y'g'Yi' Wēa dcfhUa Ybh''</p> <p>9b' df]a Yf' cW' Yg' dYf' h' b' Wēa dYf' bXfY' Yg' \]d' h'g]g']' Yg' Y]]X, bW]Yg' Yl dYf]a YbhU'g' ei Y' j' Ub' XcbUf' cWU' fY'UVcfUW]CE XY'g' X]ZfYb'g' a cXY'g' dYf' U' U' a Uh, f]U' XY'g' XY' a cXY' Wb, h]WZ]bg' U'i bU']bhfcXi W]YCEU' a cXY' ei { bh]W' HUa Vf' Yg' Wēb'gc']XU' U' a Ygi fU' XY' U' ei Ubh]hUh' XY' gi Vgh(bW]U']' Yg' fYgc' Yb' e' Ygh]cbg' Wēa 'U' XYhYfa]bUW]CE XY' Yg' a UggYg']' XY' Yg' Zcfa i Yg'' GfYgh' X]Yb' Yg' Y]g' XY'g' [Ugcg' ei Y' Ybg' dYfa YhfUb' dYf] Yi fY' Y' gYi' Wēa dcfhUa Ybh'' GfYgh' X]Yb'z' dYf' U' hfU' VUbXUz' Yg' X]ZfYb'g' a UbYfYg' XfYl dYfYggUf' U' Wēa d'cg]W]CEXY' Yg' gc' i W]cbg']' Wēa' dYfYdUfUf! Yg''</p> <p>5]l ā a UhY]l z' Yg' dfcdcgYb' X]j Yfgcg' a cXY'g' dYf' U' fYb' U, ei ā J]W ei Y' dYfa YhYb' Yl d']WUf' U' X]j Yfg]hUh' XY' dfcd]YhUhg' XY' Yg' gi Vgh(bW]Yg'z' XYghUWU'bh' U' [fUb' fY'UV]CE Yl]ghYbhYbhfY' fYghfi W]i fU' ei ā J]WU']' Yg'dfcd]YhUhg' Z]g]ei Yg' X]W]ei YghYg''</p> <p>7ca' f'g' XE]gdYfUfz' UdfYbYa' U']bhYfdYfUf' Yg' fYUW]cbg' ei ā]ei Yg']' U' hfcVUf' Yg' fY'UV]cbg' ei Ubh]hUh] Yg' YbhfY' Y'g' fYUW]h] g']' Y'g'dfcXi W]Yg'z' dUfUbhYga YbhYb' Uei Y' Yg' ei Y'g'YgXYj YbYb' U' U' j']XU' ei ch]X]UbU''</p> <p>:]bU'a Ybh'z' ZYa' i bU']bW fg]CE Yb' Y' a Cēb' XY' U' ei ā J]WU' cf[{ b]WU' UdcfhU'bh' i bU' j']g]CE [YbYfU']' UdfYbYbh' U' \cfU' U' Zcfa i 'Uf']' Ubca YbUf' Y'g' Wēa d'cg]h'g' cf[{ b]W]g''</p> <p>Hch'd'Y[Uh]g]bhYbhU' fY'UV]cbUf' Ua V' Y'g' ZYb' a Ybg' ei ch]X]Ubg' ei Y' dYfW]VYa ''</p>	<p>5ei YghU'a Uh, f]U' Ygh(X]j]X]XU' Yb' hfYg' V'cWg' .</p> <p>%k' 9'' df]a Yf' V'cWXY' g]ghYa Yg' YbYf[, h]Wg']' Y'YW]f'ch, Wb]Wg']' Yb' Uei Ygh' V'cWYl d']ei Ya ' Yg' VUgYg' XY' 'E'Y'W]f'W]hU'": 7ca YbW'a' dYf' Yg' W]bhfU'g' d'fcXi W]c'fYg' XE]bYf[]U']' Wēbh]bi Ya' Ua V' Yg' W]fW']hg' Y', W]f]Wg' V{g]Wg'z' hU'bh' XY' WēffYbh' Wēbh]bi' Wēa 'XY' WēffYbh' U' hYfb'' 9g' ZUb' WUggYg' hY' f]ei Yg' Ua V' U' i h]]mUW]CEXY' X]ZfYb'g' fYW fgcg']' df[W]ei Yg'z' Wēbh]l h' U']mU'bh'Y'g' Wēbh]b[i hg' Ygh' X]Uhg' Ua V' W]h' hXY' d'fc[fUa Yg' YgdYWZ]Wg' XY' W]XU' i b]hUh' Wēa 'E'Y'W]f' b]Wk' cf_VYbW''''</p> <p>&k' 9'' gY[cb' V'cWX]bhfcXi W]YCEU' a Cēb' XY' 'E'Y'W]f' b]WU']' Yb' Uei Ygh' V'cWYgh' X]Ya' Y'YW]f' b]WU' UbU' []WU'z' Yb' Wēb'W]h' Y'g' Wēa d'cbYb'g' Y'YW]f' b]Wg' V{g]Wg']' U' gYj' U' Ud']WU]CE Yb' W]fW']h' Y'YW]f' b]Wg' j' Uf]g'": UfYa' i b' Wēh' Y' hY'YX]f] []h' Ua V' UfXi]bc' ei Y' Y' Wēbh'fc' UfYa']' U' i hca Uh]mUfYa' "i b]hUh' [U]fYV'f' hch' df[W]h]WU' dYf' hYb]f' i bU' j']g]CEXY' W]VUgh' XY' 'E'Y'W]f' b]WU' Yb' Y' a Cēb' hY'Wbc' []W' 5' &b' Yg' Wēbh]bi Uf[Ua V' 'E'Y'W]f' b]WU' X] []hU''''</p> <p>' k' 9'' hYfW]f' V'cWXY' g]ghYa Yg' a YW' b]Wg']' a UhYf]U'g']' Yb' Uei Ygh' V'cWYgh' X]Ya' Y'g' Y]g' XY' 'E'Y'gh(h]WU'z' Yg' a { ei]bYg' g]a d'Yg'z' Y'g' a YWU' b]ga Yg' XY' hfUbga]gg]CE XY' a c]]a Ybh' Wēa' d'c']h' Yg']' Yb[fUbUh] Yg']' Y'g' UW]cbUa Ybhg' dbYi a { h]Wg']' Yf' d'cXYf' Yl d']WUf' Uei Ygh'g' Wēbh]b[i hg' W' Ygh' X]Uf' Y'g' h]di g'z' cf[] Ybg']' Ud']WU]cbg' XY'g' a UhYf]U'g']' Y'g' gYj' Yg' dfcd]YhUhg'z' U' ei Y' Yb' h'ch'g' Y'g' d'fcW]ggcg']bXi gh]f]U'g' g' Cēb' bYW]gg(f]Yg' a { ei]bYg']' a YWU' b]ga Yg' ZYhYg' XY' X]ZfYb'g' a UhYf]U'g' 9g' ZUb' d'f[W]ei Yg' Ua V' U' i h]]mUW]CEXY' fYW fgcg' Wēa 'E'Y'ei]d' XY' dbYi a { h]WU' dYf' HU' XE]ggcg']f' Y'g' WēbY]l Ya Ybh'g' hY' f]Wg' Ua V' Y'gi dcfhXY' d'fc[fUa Yg']bZcfa { h]Wg' YgdYWZ]Wg' Wēa 'Y' Zi]XG=A ''</p> <p>@U' fYU']mUW]CE XE]ei YghU' a Uh, f]U' f'g' YggYbWU' dYf' h'ch'g' Uei Y'g' ei Y' Yb' i b' Z' h' f' j' i [i Yl fYU']mUf' ei U'gY] c' h]di g' XE]b[]bnYf]U' Y', W]f]WU'z' Y'YW]f' b]WU'z' a YW' b]WU'z' Ufei]hY'W]i fU' c' i b' 7: ; G'UZf''</p>

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CURS

<p>% 7I F G : 8 =6I =L Hä 7B =7 = fla Uh, f]U`XY`a cXU`hUh`XY` (`cfYgk`</p>	<p>% 7I F G : äG=75 = fla Uh, f]U`XY`a cXU`hUh`XY` (`cfYgk`</p>
<p>9: X]Vi]i` h, Wb]Wfg` i bU`Y]bU`XY` VëbY]i Ya Ybh`]` XY` dYbgUa Ybh` ei Y` Ybg` ZUW]`hU` UdfcdUf!bcg` XÐ bU` a UbYfU` fYZYI]j` U` U` ei Y` Ybg` Ybj` c`hU`]` Ybg` ZUW]`hU`]bW]X]f!\` hc`h` dfYj` Y]Ybh` Zcfa` Ygž` cV`YVWYg`]` YgdU]g` bci` g"" 5[`i` h]bU` i bU`g, f]Y` XY` Vëbh]b[`i` hg` ei Y` gCëb` XÐd`]WUW]CE` U` UW]ij`]hUhg` XY` h]di` g` h, Wb]W V]Ybht]W]` hUa` Vf` U` hfYg` XY` h]di` g` Yl` dfYgg]i` ž` WYU`h]i`]` Ygh, h]W` vg` i bU`Y]bU` Ua` V` i b` Yb[`i` Uh[Y` dfcd]ž` ei Y` gfii` h`]mU` Yb` X]gW]d`]bYg` ei Y` gfc`W` dYb` df]bW]dU`a` Ybh` XY` X]ggYbmi` XY` U` Zcfa` U`]` U` Z` bW]CE` XY`g` cV`YVWYg`]` Y`g` YgdU]gž`]` YgXYj` f` Yb` a` c`hg` WUg`cg` i b`]bghfi` a` Ybh` Xf]bj` Ygh[]UW]CE`]` XY` WYUW]CE` XY` Yg` gc`i` W]cbg` ei Y` XYa` UbYb` Y`g` dfc`YVWYg` XY` X]ggYbmi` [f(Z]W]]bXi` ghf]U`ž` XfUfei`]hYVWi` fUž` XfYb[]bmYf]U` c` Xfi` fVUb]ga` Yž` YbhY` U` hfYg` Hf` Y` gYi` c`W` hUa` Vf` Yb` Y` a` Cëb` XY` Yg` Ufhg` Yb` [YbYfU` cb` gÐ.]` bhY[fU` df]bW]dU`a` Ybh` Vëa` U` gi` dcfh` U` dfcW]fg` WYU]h]i` " 7cbWYhUa` Ybh` Yg` hfUWU` XÐ bU` Ugg][bUhi` fU` j]bW` UXU` U` Yg` VfUbei` Yg` XY` VëbY]i` Ya` Ybh` XY`]9b[]bmYf]U`]` Ufei`]hYVWi` fU`]` i5fhg`]` \i` a` Ub]hUhgl`"</p> <p>@Ygh` X]` XY` X]Vi]i` h, Wb]WgÐ]fh]W` Uf{ `U` EY`bhcfb` XY` X]Vi]i` gcVfY` Y` d` U` XY` Zcfa` Yg` d` UbYg` ft` Yca` Yhf]U` D` UbUë`]` XY` dUg` XY` Yg` hfYg` X]a` Ybg]cbg` U` Yg` Xi` Yg` ft` Yca` Yhf]U` 8YgW]dh]j` Uë` W`bh`f`Ubh`gY` Yb` i` bg` XYhYfa`]bUhg` G]ghYa` Yg` XY` F`Y`dfYgYbhUW]CE` 9` G]ghYa` U` 8], Xf]W8]fYVWY` Ybh, g` Vëa` U` YggYbW]U`a` Ybh` cdYfUh]i` Yb` Y` Vëbhfc` a` , hf]W]` Y` G]ghYa` U` 5l` cbca` , hf]W]ei` Y` gYfj` Y]i` dYf` j`]gi` U`]mUf` i` b]h[f]Ua` Ybh` Y`g` j` c`i` a`g"" 9g` Vëa` d` Ya` YbhUf{ ` Ua` V` U` DYfgdYVW]j` U` 7` b]WU`]` Y` 8]Vi]i` Ugg]gh]h`dYf`cfX]bUXcf`"</p>	<p>@U` a` Uh, f]U` XY` Ztg]WU` U` VUH`]` YfUh` hf` i` b` WUf{ WYf` Zcfa` Uh]i`]` dfYdUfUhc]f]" 9` gYi` W` ffW` i` a`]bWci` Vëbh]b[`i` hg` ei Y` dYfa` YhYb` UVcfXUf` Yghi` X]g` d` cgYhf]cf]gž` Uh, g` ei Y` U` Ztg]WU` fg` i` bU` a` Uh, f]U` ei Y` Zcfa` U` dUfh` XY`g` Yghi` X]g` i` b]j` Yfg]hUf]g` XY` WU]fY` W]Ybht]W]` h, Wb]Vž`]` fg` bYVW]gg{ f]U` dYf` U` i` b` Ua` d`]` bca` VFY` XY` ZJa` f]Yg` dfcZ]gg]cbU`g` dfYgYbhg` Yb` U` Zcfa` UW]CEdfcZ]gg]cbU` XY` [fU` i` gi` dYf]cf`"</p> <p>9`g` Vëbh]b[`i` hg` XY` U` a` Uh, f]U` gCëb` Yg` gY[` Y` Ybhg` .</p> <p>9`a` cj`]a` Ybh` df]bW]dU`g` a` U[b]hi` Xg` W]bYa` { h]ei` Ygž` YgdYW]U`a` Ybh` dYf` U`g` a` cj`]a` Ybhg` a` fg` gYbn]`g`]` fY` Yj` Ubhg`"</p> <p>@fi` b]j` Yfg` a` YW` b]W` ZcFW]g`]` a` cXY` XY` U` X]b{ a`]WU` W{ gg]WUž`]bWcYbht` \`]`]a` di` g`]` U` VëbgYfj` UW]CEXY` U` ei` Ubh]hUh`XY` a` cj`]a` Ybh`"</p> <p>@YbYf[]U` Ub{]g]` XYg` XY` di` bh`XY` j`]ghU` YbYf[, h]WXY`g` dfcW]ggcgž` i` h`]mUbh` Yg`]XYg` XY` VëbgYfj` UW]CE`]` XY[fUXUW]CE` XfYbYf[]Už` Ua` V` U`]bhYfj` YbW]CEXY` hfUbgZ]f, bW]Yg` XfYbYf[]U` a`]h`Ub, Ubh`hfYVU` c` WU` cfž`"</p> <p>9` VëffYbh` Y` , W]f]W` W]fW`]hg`]` Y` Ya` Ybhg` Y` , W]f]W]g` Yb` VëbX]W]cbg` XY` VëffYbh` Vëbh]bi` ""</p> <p>@Yg`]a` Uh[Yg. `fi` dh]WU` [Yca` , hf]WU`]` U` [i` bg` Y` Ya` Ybhg` Xfi` dh]WU` Ztg]WU`"</p> <p>@U` Ztg]WU` XY` VUH`]` YfUh` fg` • h]` dYf` U` W` fgUf` Yghi` X]g` i` b]j` Yfg]hUf]gž` dYf` Yl` Ya` d` Y` : tg]WU` ž; Yc` c[]U` ž` E` i` ža`]WU` ž` ë` dh]WU`]` cdhca` Yhf]U` ž` 7], bW]Yg` Ua` V]YbHU` gž` 9b[]bmYf]U`]bXi` ghf]U` ž` 5fei`]hYVWi` fUž` 9b[]bmYf]U` ei` ža`]WUž` ""]` X]j` Yfgcg` W]WYg` Zcfa` Uh]i` g` fY` UW]cbUhg` Ua` V` Uei` YghYg` VfUbei` Yg`"</p>

1 CURS

1 CURS



Batxillerat Humanitats Llatí



Batxillerat Ciències Socials Matemàtiques Aplicades a les Ciències Socials

%7I FG	7=äB7=9G'89'@5'H9FF5'= fla Uh, f]U'XY'a cXU'hUh'XY'(\cfYgk'	%7I FG	: F5B7äg' fla Uh, f]U'cdhUh]j U'XY'(\cfYgk'
<p>GY' WbhfU' Yb' Æghi X] XY' Z bWcbUa Ybh XY' bcghfY' d'UbYHUz' XYg' XY' U' [Yc'c []U' Z]bg' U'g' fggYfg' j]i g' ei Y' ÆUV]hYb']' U' gYj U']bhYfY'UW]CE' 8i fUbh Uei YghU' Ugg][bUhi fU' XYgYbj c'i dUfYa' d'fcWggcg' [Yc' []Wg' V{g]Wg']' Yg' fY'UW]cbg' YbhfY' ÆggYf' \i a { ']' Æbhcfb''</p> <p>9'fYgi a' XY'Wcb]b[i hg'XY'U'a Uh, f]U'fg'Y'gY[' Ybh'</p> <p>5d']WUW]CEXY'U'hYcf]U' [YbYfU'XY'g]ghYa Yg'U' Æghi X] XY'a YX]''''7ca dcbYbhg' [Yc' []Wg'XY'a YX]Ua V]Ybh''9ghi X] XY'g'a UhYf]U'g'XY'U'']hcgZYfU/'a]bYfU'g]' fcei Yg''@U'hYW] b]WU'XY'd'Uei Yg''@Yg'f'cei Yg' [b]Ygž'gYX]a Ybh[f]Yg]' a YhJa' fZ]ei Yg''DfcWggcg' [Yc' []Wg']bhYfbg]' YI hYfbg'ei Y' UZYWYb''@UW]j]hUh' \i a UbU''F]gWg' [Yc' []Wg' Y'g'fYW'fgcg'bUhi fU'g''@U'fYdfYgYbhUW]CEXY' hYff]hcf]''; Ygh]CE]]ja dUWY'Yb'Y'a YX]Ua V]Ybh''</p>		<p>@cdhUh]j U'XY''Yb[i U' ZFUbWgU'U'%f'6UH]'YfUhz' XY'(\cfYg'gYha UbU'g'Ygh['dYbgUXU' dYfei , Y'g' U'i a bYg' d'fc[fYgg]b']' Uj UbW]b' Yb' U' gYj U' Wca dYh, bWU']b[' gh]WU' Yb' Uei YghU' gY[cbU''Yb[i U' YghfUb[YfUz' Yb' Yg' ei UhY' \UV]]hUhg. ' Wca dYfbg]CEžYI dfYgg]CE YgW]hYg]' Wca dYfbg]CEžYI dfYgg]CEcfU'g'U'hfUj fg'XY'gYi' 'g''</p> <p>9g' d'fca ci f{ ' i bU' a YhcXc'c []U' XY' hfYVU'' ei Y' UZj cfY]]' @dfYbYbhUh[Y' Uih' bca']' Wca dYhYbWU'XY'U''Yb[i U' YghfUb[YfU''</p> <p>8@WcfX' Ua V' Y'g' b]j Y'g' XYgW]hg' dY' 7cbgY'' X@i fcdU' Yb' Y' A UfWYi fcdYi' Wca' XY' fYZf, bWU' dYf' U'' @dfYbYbhUh[Y' XY' Yg''Yb[' Ygž' hfYVU'' UfYa' dYf' UXeI]f]f' i b' b]j Y''6% Yb''Yb[i U' ZFUbWgU'] Yg' d'cXf[' UWWX]f' U' U' Wfh]ZWUW]CEcZ]WU' U' hfUj fg' XY' Yg' d'fcj Yg' 89@' 6%ei Y' Yg' Wcb] cei Yb' XYg'XY''8YdUfhUa Ybh'XfYbgYbmla Ybh''</p> <p>5'g' U'i a bYg' XY' U'a Uh, f]U']bhYfYggUhg' gYfig' cZyf]f[' U' d'cgg]V]]hUh' XY' ZYf' fYghUXU' U' fYa dYfYgU'U': fUb, U''</p> <p>9' ZFUbWg'i g'dYfa Yhf[' Yghi X]Uf' U'a c'hYg' i b]j Yfg]hUhg' YI fcdYYgž'fg' i bU'WU' XfYbhfUXU' U'a @B'XY' hfYVU''ž'fg' U'gY[cbU''Yb[i U' Yb' Yg' fY'UW]cbg']bhYfbUW]cbU'g'ei Y'i g'dYfa Yhf[' j]UhUf']Zcfa Uf]j cg''</p>	



<p>& 7I FG' @@5Há' == fla Uh, f]U'Wc'a i bU'XĐ:dW]CEXY' (\cfYgŁ'</p>	<p>& 7I FG' A 5H9A ÆH=E I 9G' 5D@=758 9G' 5' @9G' 7 =ãB 7=9G' GC 7 =5 @G' == fla Uh, f]U'Wc'a i bU'XĐ:dW]CEXY' (\cfYgŁ'</p>
<p>5ei Ygh'gY[cb'W fg'XY' Uhf'YgXY' f' i bU'Ua d'JUW]CEXY'g' UgdYWW'g' hfUWUhg' Yb' Y' df]a Yf' W fgz' Ua V' i bU']bg]gh, bW]U' YgdYW]U' Yb' Y'g' UgdYWW'g']hYfUf]g'] XY' hfUX]W]CE'</p> <p>7cbh]bi UfYa' hfYVU'Ubh' Y' , I]W W]HU' { U' dUfh]f' XY' gYi' cf] [Yb' Uhf'] hZ]Yf]fYa' Y'g' Y]bYg' bYWW'gg(f]Yg' dYf' hU' ei Y' di [i]g' a UbY'Uf' a]'cf' Y' j cW]Vi' Uf] YgdYW]W XY' Z' hi fg' Ygh' X]g' i b]j Yfg]hUf]g'] JYi fYa' hUa Vf' Yg' Yl dfYgg]cbg' U]h]bYg' a fg' i h]]mUXYg' Yb' X]Z]fYb]g' { fYYg']b []'gh]ei Yg' "</p> <p>@U' W' hi fU' XY' gY[cb' Yg' VUgU' YgdYW]U' a Ybh' Yb' Đi fVUb]ga Y' fca { " JYi fYa' ei]bU' YfU' Đ'ghfi W]i fU' XY' Y'g' W]i hUhg' fca UbYg' z' ei]bg' YfYb' Y'g' gYi' g' YX]Z]W]g' df]bW]dU'g']' Yg']bZ]UYghfi W]i fYg' ei Y' \] \ Uj]U' " 9bg' W]bh'UfYa' Yb' Y'g' W]i hUhg' XY' ; Yfi bXUz' 6' fV]bcz' H' ffUWc']' =YfXU'] hUa Vf' 9a , f]hU' 5i [i ghU' 5bU']mUfYa' Wc'a YfYb' Uei Ygh'Yg' Wc' b]Yg' XĐ , dcW] fca UbU']' Yg' fYgh'Yg' Ufei Yc' []ei Yg' ei Y' Yg' dcXYb' j]g]hUf' UW]i U' a Ybh' "</p> <p>9ghi X]UfYa' Y'g' YgW]dhc'fg' a fg' XYghUWUhg' XY' U']hYfUhi fU' Uhf]bU' fU']f []]z' D'Ui hYz' Cj]X]z' <cfUW]z' H]h' @j]]' 7]W]f'CE' "</p> <p>9'g' Wc' bY]l Ya Ybhg' UXe']f]hg' Uei Ygh' Xcg' W' fgcg' dYfa YhfUb' U' Đ' i a bU' h' dcXYf' Ybh' Yb' XfY']' a]' cfUf' Đ' g' XY' W]HU' {]z' U' a fg' U' a fgz' hYb]f' i bU' VUgY']a dfYg' W]bX]V' Y' U' Đ' cfU' XY' Z]f' Zcbh' U' Z' hi fg' Ygh' X]g' XĐ i a Ub]hUhg' c' XY' W] , bW]Yg' gcW]U'g' "</p>	<p>G] j c' Yi' ZYf' Ygh' X]g' i b]j Yfg]hUf]g' XY' W] , bW]Yg' gcW]U'g'z' W] ei Y' UbYi' VYb' dfYdUfUhg' XY' U' a Uh, f]U' XY' a UhYa { h]ei Yg' Ud']W]XYgz' U' ei Y' V' [g]W]Ua Ybh' Yb' Y'g' [fUi' g' XĐ 5a]b]ghfUW]CE]' X]fYW]Y]CE XĐ a dfYgUz' 7] , bW]Yg' Ya dfYgUf]U'g']' 9Wc' bca]U' g' Đ' a dUfh]l' Uei YghU' a Uh, f]U' 5' a fg' XY' gYf' bYWW'gg(f]U' dYf' U' [fUi' Yb' 9Xi W]W]CE' hUa Vf' fg']a dcfhUbh' hUbh' dYf' U' W]W]Y' XY' [fUi' gi dYf]cf' Yb' 5Xa]b]ghfUW]CE]' [Ygh]CE Wc'a dYf' U' XĐ bZcfa { h]W]]' Wc'a i b]W]W]cbg' " 9b' a c' hg' XY'g' Ygh' X]g' i b]j Yfg]hUf]g' W]hUhg'z' Yg' a UhYa { h]ei Yg' Ud']W]XYg' fg' i bU' XY' Yg' XY' a cXU']hU' U' hf]Uf' Yb' U' ZUgY' [YbYfU' c' Vf' i bU' a Uh, f]U' XY' a cXU']hU' cdhU]j U' dYf' di Uf' bchU' Yb' U' ZUgY' YgdYW]W] "</p> <p>UŁ Æ [YVfU']bYU' . A Uhf]i g'z' g]ghYa Yg']bYU'g']dfcV'Ya Yg'z' g]ghYa Yg' XY' Xi Yg' Yei UW]cbg']bYU'g' Ua V' Xi Yg']bW [b]hYg' "</p> <p>VŁ Dfc [fUa UW]CE]bYU' . A cXY' dYf' fYgc' XfY' dfcV'Ya Yg' a c' h'gcj]bh'] [Uhg' U' U' dfcXi W]Y]CE' "</p> <p>WŁ 5b {]g] , 9ghi X] c' W]]' [c' VU' XĐ bU' Z' bW]CEU' g]hi UW]cbg' df' d]Yg' XY' Yg' W] , bW]Yg' gcW]U'g'] YWc' b' a]ei Yg' "</p>



<p>& 7I FG ; F 97 == fla Uh, f]U`XY`a cXU`hUh`XY` (`cfYgk`</p>	<p>& 7I FG @=H9F 5HI F 5`75H5@5B 5` fla Uh, f]U`XY`a cXU`hUh`XY` (`cfYgk`</p>
<p>@U` a Uh, f]U` XY` [fYW = j U` UXfY, UXU` U`g` U`i` a bYg` ei Y` j c`Yb` W fgUF` Y` VUH`]`YfUH` XEi` a Ub]hUhg`]` W, bWYg` gcWU`g`]` ei Y` j i` [i] b` Ua d`]Uf` Y`g` W`bY]` Ya Ybhg`XY`df]a Yf`"</p> <p>5`gY[cb`Yg`W`a Yb, U`Ua V`i` b`fYd{g`}]i` bU`W`bgc`]XUW]CEXY`U` [fUa {h]WU`]`XY` U`g]bhU]`]`XY`df]a Yf`dYf`hU`XY`hYb]f`i` bU`VUgY`a`cfZcg]bh{W]WU`W`bgc`]XUXU`" 5b]fYa`]bhfcXi`]bh`Yghfi`W`i`fYg`bcj`Yg`ei`Y`Ybg`dYfa`YhfUb`hfUXi`]fz`gYa`dfY`Ua`V`X]WU]cbUf]z`hY`hcg`XY`X]Z]W`hUh`dfc[fYgg]j`U`"</p> <p>9gh`X]UfYa`]`EYI`dUb]g]CE`XY`"dcV`Y` [fYW`WUd`U`"A`YX]hYffUb]`]`WUd`U`C`f]Ybh`" HfYVU`UfYa`]`YgdYWU`a`Ybh`U`W`"b]U` [fY[U`X`E`a`d`f]YgZ`dcfHU`X`E`bhfUXU`XY` U`W`hi`fU`W`[gg]WU`U`U`dYb]bgi`U`]`Yg`W`cb]mUW]cbg`ei`Y`j`U`ZYf`5`YI`UbXfY`Y` ; fUb`"5a`d`]UfYa`]`Yg`W`bY]` Ya Ybhg`XY`"hYfUH`fU`Ygh`X]Uhg`U`df]a Yf`Ua`V`U`Y`W`i`fU`XY`hfU[, X]Yg` [fY[i`Yg`"</p> <p>5dfcZ`bX]fYa`]`Yg`W`bY]` Ya Ybhg`XY`a`]hc`c` [U`Ua`V`U`[i`bg`a`]hYg`ei`Y`"Ub`]bgd]fUh`Ufh]ghYg`W`bhYa`dcfUb]g`W`a`"8U`z`6chYfc`]"X`E`hfYg`"</p> <p>7cb,] Yf`"U`W]]`]mUW]CE[fY[U`f`g`W`b,] Yf`E`f] [Yb`XY`a`c`hYg`a`Ub]ZYghUW]cbg` \]gh`f]ei`YgZ`dc`h]ei`YgZ`W`hi`fU`g`]`Ufh]gh]ei`Yg`ei`Y`"Ub`W`bZ] [i`fUH`Y`a`E`b`Yb` ei` , j]j`]a`"</p>	<p>9b`Uei`YghU`Ugg][bUhi`fU`Yg`hfYVU`UfUb`U`Z`cbg`g]g`cVfYg`]a`dcfHUbhg`XY`"U`bcghfU`"hYfUH`fUz`ei`Y`Ybg`dYfa`YhfUb`XY`W`b,] Yf`i`bYg`"gh`f]Yg`]`i`bYg`fYU`]hUhg`ei`Y`g`E`b`U`"U`VUgY`XY`"U`W`hi`fU`ei`Y`Ybg`f`g`d`f`d]U`"</p> <p>@Y[]f]`Yg`]`W`a`YbhUf`Yg`XYhU`UXUa`Ybh`Ybg`dYfa`Yhf`"XYgW`Vf]f`]"YbhYbXfY`dYfgcbUH`YgZ`UW]hi`Xg`]"j`j` , bWYg`Ua`V`"Yg`gYj`Yg`a`ch]j`UW]cbg`]"U`gYj`U`Yj`c`i`W]E`UbU`]mUf`]"Ygh`X]Uf`Y`di`bh`XY`j`]ghU`XY`"bUffUXcfz`]"dUggY`Uf!`bcg`dYf`YgdU]g`]" , dcei`Yg`ei`Y`Ybg`ZUfUb`XYgW`Vf]f`"bci`g`dU]gUH`Yg`]"X]ZYfYbhg`a`UbYfYg`XY`j`]i`fY`"U`j`XU`]"X`E`Z`cbhUf`"Yg`fY`UW]cbg`"i`a`UbYg`"</p> <p>9`"W`bY]` Ya Ybh`]"`EYgh`X`"X`E`Uei`YghYg`cVfYgZ`W`b`"i`bhUa`Ybh`Ua`V`"Yg`XY`"U`"hYfUH`fU`WUghY`"UbU`]"i`b]j`YfgU`z`Ybg`XcbUf`{`i`b`VU[Uh`Y`W`hi`fU`]"i`bYg`h, W`b]ei`Yg`XY`W`a`YbhUf`]"XY`hY`hi`f`Y`[fz`UbU`]mUfz`YI`d`]WUf`]"j`U`cfUF`XY`a`UbYfU`W`h]WU`""Ez`ei`Y`Ybg`gYfUb`V`{g]Wg`dYf`dcXYf`[Ui`X]f`]"gY[]f`Ua`V`[UfUb]Yg`i`bg`Ygh`X]g`i`b]j`Yfg]hUf]g`X`E`a`V]hg`X]j`Yfgc`fUfhgz`"i`a`Ub]hUhgZ`Z]c`c`[YgZ`W`a`i`b]WUW]E`YbgYbmUa`YbhZ`W, bWYg`gcWU`g`]"i`f`X]ei`Yg`""`]"hcg`Uei`Y`g`ei`Y`di`[i]b`hYb]f`U`j`Yi`fY`Ua`V`Y`a`E`b`XY`"U`WYUW]CEYb`[YbYfU`E`"</p>



& 7I FG	97CBCA =5 89 @DA DF 9G5 == fla Uh, f]U'XY'a cXU']hUh'XY' (\cfYgk'	& 7I FG	; 9C; F 5: =5 fla Uh, f]U'XY'a cXU']hUh'XY' (\cfYgk'
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9b`U' a Uh, f]U' X@Wcbca]U' XY' `E'a dfYgU' = Yg' hfYVU`U' Yb`U']bZcfa UW[CE] Ub{ `]g] XY`U'g]hi UW[CEdUhf]a cb]U'] YWcb' a]WU'XY`E'a dfYgUz`Yg']b] Yfg]cbg`] Y` gYi` Z]bUb, Ua Ybh`U' X]fYVW]CE YghfUh, []WU']`U' j]UV`]hUh'X@bU']XYU'XY' bY[cW`]`

- DY`ei Y' ZU' U' `U' g]hi UW[CE dUhf]a cb]U'] YWcb' a]WU'z' g@df, b`U' cVhYb]fz' fY[]ghfUf']]bhYfdYhUf' U']bZcfa UW[CE Vta dhUV`Y' XY`Yg' Ya dfYgYgz' U' XYhYVWUf' Y'g' XYgYei]]Vf]g' a fg' Vta i bg'] dfcdcgUf' a Ygi fYg' VtffYWcfYg` G@ghi X]UfUb`Yg']b] Yfg]cbg' Yb`E'a dfYgU']`Yg' Zcbhg'XY' Z]bUb, Ua Ybh`
- DY`ei Y' ZU' U' X]fYVW]CE YghfUh, []WU'z' Y` fYVcbY]I Ya Ybh' XY`U' bYVW]gg]hUh'XY' d`Ubh'Uf' YghfUh, []Yg'] dfYbXfY' XYW]g]cbg'U' dUhf]f' XY`@b{ `]g] XY'g' Uj UbhUh[Yg' Vta dYh]h]i gZ'U'WUXYbU'XY'j U'cf`]Y` XYgYbj c'i dUa Ybh'Ya dfYgUf]U'`9`VcbY]I Ya Ybh'XY`Yg'X]j YfgYg' YghfUh, []ei Yg' Vta dYh]h]j Yg' XY` bY[cW`]` VtfdcfUh]j Ygz' XY' WY]I Ya Ybh']` X@bhYfbUW]cbU']hUW]CE Yb` Y` VcbhY]i h' Xfi bU' YWcbca]U' [`cVU']hU XU`
- DY`ei Y' ZU' U' @b{ `]g] XY`U' j]UV`]hUh'X@bU']XYU'XY' bY[cW]z' g@XYbh]Z]ei Yb` Y'g' Y'Ya Ybhg' X@b' d`U' XE'a dfYgUz`U' j]UV`]hUh' i fX]WU'z' YWcb' a]WU']` Vta YfW]U' Yb` i b' dfc`YVWY' gYbn]` XfYa dfYgU`

DYf' W fgUf' Uei YghU' a Uh, f]U' U' gY[cbz' hch']` ei Y' fg' fYVta UbUV`Yz' bc' fg']a dfYgV]bX]V`Y` \Uj Yf' W fgUh'U'a Uh, f]U' U' df]a Yf`vg'UXYeI UXU'dYf'hch\ca`ei Y' YbWUa]b] Y` gYi` Z hi f' WUd' U' Yghi X]g' X@Wcbca]Uz' 589z' 7ca dhUV`]hUh']` :]bUbW]gz' 8fYhZ' 7ca i b]WUW]CE`]`hUa Vfz'dYf' Uei Y`g'ei Y'dYbg]b' Yb' Yb []bmYf]Yg' c`Yghi X]g'ei Y'XYgYbj c'i dYb`U'gYj U'Ud']WUW]CEYb`@a V]hYa dfYgUf]U`

@U' [Yc[FUZ]U'XY`VUH]`YfUh'gfYbZcW]XYg'XY`U' dYfgdYVW]j U'Xfi bU' [Yc[FUZ]U' fY[]cbU'XY' 7UHU'i bU']`9gdUbrU'X]bg' X@i fcdU']` Y` a @b` 9b' Uei Ygh' gYbh]hZ' Yg' hfUWU' X@bU' a Uh, f]U' ei Y' Yh' dYfa Yhf{ `YbhYbXfY'a]`cf`Y'a @b`X@j]]z'hch'j U'cfUbh`U']a dcfh{ bW]U'ei Y'dYf' U' `Yg' gcV]YhUhg' \i a UbYg' hYbYb' UgdYVW]Yg' Vta`UfU'U' X]gdc]V`]hUh'XY'g' fYW fgcg' bUhi fU'gz' `Yg' UW]j]hUhg' YWcb' a]ei Yg']`U' dYfh]bYb, U' U' i bU' Vta i b]hUh'Ua V`hfYhg']XYbh]hUf]g' dUfh]W`Ufg' Yb' i b' YgdU' d`UbYhUf']` `cVU']hU`

@Yghi X]]` VcbY]I Ya Ybh'XY'g' Vcb]b[i hg' [Yc[f{ Z]W]g' Yh'gYf{ `•h`]hUbh'XYg'XY` di bh'XY'j]ghU'XY'Zcfa UW[CEdYfgcbU' Vta`XY'WUfYg'U'U'hYj U'Zi hi fU'Zcfa UW[CE dfcZYgg]cbU` = hch'U]]` \c' dcXf{ g' ZYf' U' dUhf]f' XY` hfYVU` Ua V`a]h'Ubg' Ui X]c]]gi U'g']` XY`E'UVcfUW]CE XY' Xcgg]Yfgz' hUbh'XY' a UbYfU']bX]j]Xi U' Vta` Vt` YVW]j U`

9`VcbY]I Ya Ybh']`E'ghi X]X@]ei YghU'a Uh, f]U'XcbUf{ `U'g'U'i a bYg'i b`VU[Uh[Y' UWUX, a]Wa c'h]a dcfhUbh'Yb`@a V]h'XY`Yg'fY'UW]cbg'ei Y'g@ghUV`Y]I Yb'YbhfY' `Yg' Vta i b]hUhg' \i a UbYg']` Y` gYi` a YX]z' i b' VU[Uh[Y'ei Y'gYf{ `XY' a c`hU' i h]]hUh' dYf' gY[i]f' Ua V` [UfUbh]Yg' i bg' Yghi X]g' i b]j Yfg]hUf]g' XY'g' { a V]hg'XY' `Yg' < i a Ub]hUhg']`XY`Yg' 7], bW]Yg'GcW]U'g`



& 7I FG	< =GHè F =5 8 9 @EFH fla Uh, f]U'XY'a cXU']hUh'XY' (\cfYgk'
<p>5ei YghU' Ugg][bUhi fU' hf' Wèa 'U' cV'YWji ' 'U']XYbh]Z]WVW]CE] 'ÈUb{ ']g] XY'g' Ygh]g' Ufh]gh]Wg] 'Yg' cVfYg' a fg' fY''Yj Ubhg' XY' WXUgW' b' XÈ''gž' ei Y' gÈ.Ub' XcbUh' U' ''Uf['XY''U'\]gh' f]U'XY''Èi fcdU'cWV]XYbhU''</p> <p>@U' gY'YWV]CE XY'g' Wèbh]b[i hg' XÈ']gh' f]U' XY' 'Èfhi' gY' W'bhfU' Yb' Y'g' a cXY'g' W[gg]Wgž' Yb''ÈUb{ ']g] XÈ' [i bg' hYa Yg' XY''a Èb' a YX]Yj U'']'a cXYfbž'] Yb''ÈYgh' X] XÈ' [i bYg' 'Èb]Yg' XY' 'Èfhi' WèbhYa dcfUb] XY'' gY['Y' LL' U' dUfh]f' XY'g' gYi g' dfYVWXYbhg' XY' gY['Y' UbhYf]cf''</p> <p>@ÈYgh' X] XY''U' <]gh' f]U' XY' 'Èfhi' fg' XY' [fUb' i h]]hUh' Yb''U' Zcfa UW]CE \i a UbU'] gcW]U' XY'g' bc]g'] XY' Yg' bc]Yg' XY' 6UH]''YfUh' Yb''U' a Ygi fU'ei Y'UZUj cfY]i ''U' a UXi fYgU']bhY'' YW'hi U'']' \i a UbU' XY'g' U'i a bYgž' ZUW]]hU' Y'' hfYVU'' U' h' bca ž' d'cgY]i ' i bYg' h, Wè]ei Yg' XÈ' bXU[UW]CE]]bj Ygh][UW]CE gcVfY' cVfYg' Wè bWYhYg'] dYfVWdh]V'Yg' ei Y' U' XYb' U' 'ÈU'Xe']g]W]CE XÈ' UV]]hUhg' XÈ' VgYfj UW]CE] Wèa i b]WV]CEž' ž' Z]bg'] hčž' Yg' dch' Ud']WVf' U''U' j]XU' df{ W]W]ž' YgdYW]U' a Ybh' Yb' Y'g' j]Uh[Yg' hi f]gh]Wg] Yb''U' Zcfa UW]CEXY''U' gYbg]V]]hUh''</p> <p>9'' WèbY] Ya Ybh'] 'ÈYgh' X] XÈ'ei YghU' a Uh, f]U' XcbUf{ 'U'g' U'i a bYg' i b' VU[Uh[Y' W' hi fU' Yb' 'È' a V]h' Ufh]gh]W] XY'' dUhf]a cb]ž' ei Y' gYf{ 'XY' a c'hU' i h]]hUh' dYf' gY[i]f' Ua V' [UfUbh]Yg' i bg' Ygh' X]g' i b]j Yfg]hUf]g' XY'g' { a V]hg' XY' Yg' 5fhg'] < i a Ub]hUhgž'] XY' Yg' 7], bW]Yg' GcW]U'g''</p>	



& 7I FG	A 5H9A AEH=E I 9G == fla Uh, f]U`Wca i bU`XEdW]CEXY (\cfYgt`	& 7I FG	6=C @C; =5' == fla Uh, f]U`XY`a cXU`]hUh`XY` (\cfYgt`
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G] j c`Yi` ZYf` Yghi X]g` i b]j Yfg]hUf]g` XY` W, bW]Yg` YI dYf]a YbhU`gz` V]cW], bW]Ygz` Yb[]bmYf]Ygz` 75: 9`c`dg]Wc`c[]U`WU`ei Y`UbYi` VYb`dfYdUfUhg`XY`U`a Uh, f]U`XY` a UhYa { h]ei Ygz` U` ei Y` Yb` Uei Yghg` [fUi`g` g]a dUfhY]I Yb` Yg` a Uh, f]Yg` XY` a UhYa { h]ei Ygz` { [YVfUz` W`W`] [Yca Yhf]U` 5`a fg`XY`gYf`bYW]gg{ f]U`dYf`U` [fUi` Yb` 9Xi W]W]CE`hJa Vf`fg`]a dcfhUbh`hUbh`dYf`U` W]W]XY` [fUi` gi` dYf]cf`Yb` 5Xa]b]ghfUW]CE` [Ygh]CEWca` dYf`U` XEdZcfa { h]W]` Wca i b]W]W]cbg`

9b` a c`hg` XY`g` Yghi X]g` i b]j Yfg]hUf]g` W]hUhgz` Yg` a UhYa { h]ei Yg` g]E` i bU` a Uh, f]U` XY` a cXU`]hUh`U` hf]Uf` Yb` U` ZJgY` [YbYfU` c` Vf` i bU` a Uh, f]U` XY` a cXU`]hUh`cdhUh]j U`dYf`di` Uf`bchU`Yb`U` ZJgY` YgdYW]Z]WU`

UŁ AE[YVfU`]bYU` A Uhf]i`g`]` g]ghYa Yg`]bYU`gz` Y]bYg` dYf` fYgc`XfY` dfcV`Ya Yg`

VŁ ; Yca Yhf]U`U` EYgdU].` g]ghYa Yg`]bYU`g` Ua V`hfYg`]bW [b]hYg`]` fYgc`i` W]CE` XY`dfcV`Ya Yg`a , hf]W]U` EYgdU]`

c) 5b{]g].` Yghi X]`cW]`] [`cVU` XEd bU` Z` bW]CE`U`g]h` UW]cbg [Yca , hf]ei Ygz` W]Ybht]ei Yg`]`hYWbc` []ei Yg` =bhY` fUW]CEdY`W`W` XEd fYyg`d`UbYg`

5`dUfh`XEdW]W]X]f`U`Yg` • h]a Yg`]XYygz`a c`hYg`fYj`c`i` W]cb{ f]Ygz`ei Y`U` V]c`c[]U`U`U`dUcfhUh`U`WcbY]I Ya Ybh`i`a { Z`E`V`YW]i` df]bW]dU`XY`U` a Uh, f]U`fg`Wca` dfYbXfY`Wca` g]U`b`dc[i h] [YbYfUf`hchYg`Uei YghYg`]XYygz`fg` U`X]fz`Wcb,]I Yf`Y`a , hcXY`W]Ybht]W`HUa Vf`dcgUfYa` E]W]W]bhYb`U` bYW]gg]hUh`XY`fYgdYW]Uf`]`WcbgYfj`Uf`hchYg`Yg`a Ub]ZYghUW]cbg`XY`U`j]XUz` i bU`XY`U`g`ei U`g`gca`bcgU`hfYg`a UhY]I cg`

7ca Yb, UfYa` dYf`Wca`d`YhUf` EYghi X]`XY`g`a UhYf]U`g`Ua V`Y`g`ei U`g`YghYa` Wcbghfi` Sg`Y`g`fggYf`j]i`g` F YWcfXUfYa` Wca` Z` bW]cbYb`Y`g`Ybn]a`g`dYf`hU` XEdbhYbXfY`Wca` Y`g` [Ybg`Wcbhf`Yb`hch`Y` Z` bW]cbUa`Ybh`XY`bcghfY`Wcg`]` Yghi X]UfYa` Z]bU`a`Ybh`Y`g`Wcb`i`bhg`XY`W]bj`g`ei`ta`]W]`ei`Y`Yg`dfcXi`Y]I`Yb`U` E]bhYf]cf`XY`Yg`W`i`Yg` @U`V]cei`ta`]W]`fg`ZJgW]bUbh`]`]bX]gdYbgUV`Y`dYf` YbhYbXfY`Y`ZYbca`Yb`XY`U`j]XU`

9ghi X]UfYa` EYgg, bW]U` a UhY]I U`XY`g`fggYfg`j]i`gz`U`gYj`U`W]dUW]hUh`XY` fYdfcXi`]f]gY`]` Yj`c`i`W]cbUf` HfUW]UfYa` U`V]cX]j`Yfg]hUh`]`Y`gYi`cf][`Yb` Yj`c`i`h]i`]`fYj`gUfYa` Yg`]XYyg`]`h, W]ei Yg`XY`U`V]chYW]c`c[]Uz`XYg`XY`U` gYe`YbW]UW]CE`XY` E8B`U`U`WcbUW]CE`]`Yg`h, W]ei Yg`XY` EYb[]bmYf]U` [Yb, h]W]`



& 7I FG	E I âA =75 == fla Uh, f]U`XY`a cXU`hUh`XY`(`\`cfYgk`	& 7I FG	H97BC@C; =5`=B 8I GHF =5@`== fla Uh, f]U`XY`a cXU`hUh`XY`(`\`cfYgk`
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@U` a Uh, f]U` XY` E i ta]WU` = Ygh(`dYbgUXU`dYf`U`g`U`i a bYg`XY` VUH]`YfUh`ei Y` hYbYb`]bHYf, g` dY` VcbY]I Ya Ybh` WYbhtZ]W]` hYVbc` []W]#c` ei Y` dYbgYb` W fgUf` Ygh` X]g` dcghYf]c]fg`fY`UW]cbUhg`Ua`V`Uei`Ygh`{`a`V]h`

5`gY[cb`W`fg`XY`ei`ta`]WU`g`Ygh`X]Uz`Yb`df]a`Yf`c`W`U`]a`dcfh`bWU`XY`Yg`fUX]UW]cbg`dYf`U`Ygh`X]`XY`U`a`Uh, f]Uz`Yg`gY]`Yg`Ud`]WU]cbg`Yb`U`a`YX]W]bU`]`U`fYdYfW`gg]`CEYb`Y`a`YX]Ua`V]Ybh`

9`g`VcbY]I Ya Ybhg`UXei`f]hg`U`df]a`Yf`W`fgz`Ybg`dYfa`YhYb`UdfcZ`bX]f`Yb`WUXU`h]di`g`XY`fYUW]cbg`ei`ta`]ei`Yg`5]`z`g`Ygh`X]Yb`Yg`fYUW]cbg`X`E`ei`]`Vf]z`YgdYWU`a`Ybh`Yg`XY`hfUbgZYf, bWU`XY`dfchcbgz`ei`Y`Ybg`U`i`XYb`U`]bhYfdYhUf`Y`d`<`]`U`]a`dcfh`bWU`ei`Y`hf`Y`[`fUi`X`W]XYgU`Yb`hchg`dfcW`ggcg`]`YgdYWU`a`Ybh`Yb`Yg`V]c`[`]Vg`9bhYbXfYa`hJa`Vf`V`a`Yg`ZU`i`bU`Ub`{`g]`XY`W]I`[`i`U`]`U`]a`dcfh`bWU`XY`V`b,]I`Yf`U`dfYg, bWU`XY`XYHYfa`]bUhg`]cbg`Yb`Uei`YghUz`Yb`ei`Ubh`UZYWU`U`U`bcghfU`gU`i`h`

GUVfYa`V`a`Z`b]V]cbU`i`bU`d]`U`]`j`U`cfUfYa`U`U`V`a`Vi`gh]`CE`X`E]`Xfc[`Yb`dYf`U`E`VhYbW]`CE`X`E`bYf[`]U`

:]bU`a`Ybh`hfUWUfYa`Xi`Yg`j`YggUbhg`a`fg`XY`U`ei`ta`]WU`ei`Y`Ybg`dYfa`YhfUb`UWUfUf`X`E`YbhYbXfY`dYfei`Yg`dfcXi`Y]I`Yb`U`[`i`bg`Zyb`a`Ybg`5]I`f`fgz`V`b,]I`Yf`ei`]bYg`fYUW]cbg`g`E`Ygdcbh`b]Yg`]`ei`]bYg`Ybg`dfcdcfW]cbYb`YbYf[`]U`]`ei`]b`V`ghigi`dcgU`dY`a`YX]Ua`V]Ybh`

GYa`dfY`ei`Y`g]`[`i`]`dcgg]V`Yz`g`E`bhYbHf`{`YI`d`]WU`f`Y`V`b]b]b[`i`h`XY`U`a`Uh, f]U`U`dUfh]f`XY`ZYb`a`Ybg`ei`Y`Yg`dfcXi`Y]I`Yb`U`bcghfY`Ybhcfb`]a`YX]U`

Aquesta matèria està dividida en 4 blocs:

- 1) El bloc de sistemes mecànics:** en aquest bloc estudiem els principis de màquines. De l'energia mecànica saltem a altres manifestacions energètiques i entrem en els principis de la termodinàmica. Aquesta base ens permet estudiar les màquines com un motor d'explosió o un refrigerador. Acabem fent una pinzellada d'oleohidràulica.
- 2) El bloc de sistemes electrotècnics:** parlem dels efectes del magnetisme lligats al corrent elèctric, l'electromagnetisme. Això ens porta a parlar del corrent altern, monofàsic i trifàsic i de les màquines elèctriques.
- 3) El bloc de sistemes automàtics:** ens centrem en els sistemes electrònics digitals, base actual de la majoria d'aparells i dispositius. Treballem l'àlgebra de Boole i els sistemes automàtics de control.
- 4) El bloc d'estructures i sistemes de fabricació:** en aquest bloc veurem el càlcul d'elements estàtics de les estructures de les màquines o edificis (repàs d'estructures) i la forma en què es mesuren i es normalitzen els elements mecànics (toleràncies, ajustos, etc.).



& 7I FG	8=6I =L 'Hä 7B =7' == fla Uh, f]U'XY'a cXU'hUh'XY'(\`cfYgk'	& 7I FG	: äG=75' == fla Uh, f]U'XY'a cXU'hUh'XY'(\`cfYgk'
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9" X]Vi]l' h, Wb]Wfg' i bU' Y]bU' XY' WcbY]l' Ya Ybh']' XY' dYbgUa Ybh'ei Y' Ybg' ZUW]hU' UdfcdUfl'bcg' XØ bU' a UbYFU' fYZYI]j U' U' ei Y' Ybg' Ybj c'hU']' Ybg' ZUW]hU']bW]X]f]l' \]' hch' dfYj Y]Ybh' Zcfa Ygž' cV'YWYg']' YgdU]g' bci g" 5['i h]bU' i bU' g, f]Y' XY' Wcbh]b[i hg' ei Y' g'Ø' XØd']WU]CE U' UW]j]hUhg' XY' h]di g' h, Wb]W Y]Ybh]Z]W] hUa Vf' U' hfYg' XY' h]di g' Yl' dfYgg]i ž' WYU]h]i ']' Ygh, h]W' vgi bU' Y]bU' Ua V' i b' 'Yb[i Uh[Y' dfcd]ž' ei Y' gfii h]]mU' Yb' X]gW]d']bYg' ei Y' gfc'W dYb' df]bW]dU'a Ybh' XY' X]ggYbmi XY' U' Zcfa U']' U' Z' bW]CEXY' g' cV'YWYg']' Yg' YgdU]gž']' YgXYj f' Yb' a c'hg' WUgcg' i b']bghfi a Ybh' Xf]bj Ygh] [UW]CE]' XY' WYU]CE XY' Yg' gc' i W]cbg' ei Y' XYa UbYb' Y' g' dfc'YWYg' XY' X]ggYbmi [f{ Z]W]]bXi ghf]U'ž' XfUfei]hYW]i fUž' XfYb[]bmYf]U' c' Xfi fVUb]ga Yž' Ybh'Y' U' hfYg"

Hf' Y' gYi ' cW hUa Vf' Yb' Y' a Ø' XY' Yg' Ufhg' Yb' [YbYFU' cb' gØ]]bhY [fU' df]bW]dU'a Ybh' Wca ' U' gi dcfh' U' dfc'Wf'g' WYU]h]i " 7cbWYhUa Ybh' Yg' hfUWU' XØ bU' Ugg][bU] fU' j]bW' UXU' U' Yg' VfUbei Yg' XY' WcbY]l' Ya Ybh' XY' í 9b[]bmYf]U'] Ufei]hYW]i fU']' í 5fhg']' \ i a Ub]hU]g]"

@Y' ghi X] XY' X]Vi]l' h, Wb]WgØUfh]W' Uf{ ' U' Ø' Ybhcfb' XY' X]Vi]l' gcVfY' Y' d' U' XY' Zcfa Yg' d' UbYg' ft' Yca Yhf]U' D' UbUk']' XY' dUg' XY' Yg' hfYg' X]a Ybg]cbg' U' Yg' Xi Yg' ft' Yca Yhf]U' 8YgW]dh]j Uk' W' bhf'Ub]h' gY' Yb' i bg' XYhYfa]bUh]g' G]ghYa Yg' XY' FYdfYgYbhU]CE "

9" G]ghYa U' 8], Xf]W 8]FYWY' Ybh, g' Wca ' U' YggYbW]U'a Ybh' cdYfU]h]i ' Yb' Y' Wcbhfc' ' a , hf]W]' Y' G]ghYa U' 5l' cbca , hf]W ei Y' gYfj Y]l' dYf' j]gi U']mUf' i b]h[f]Ua Ybh' Y' g' j c' i a g" 9g' Wca d' Ya Ybh]f[' Ua V' U' DYfgdYW]j U' 7' b]WU']' Y' 8]Vi]l' Ugg]gh]h' dYf' cfX]bUXcf"

@U' a Uh, f]U' XY' Z]g]WU' U' gY [cb' W fg' XY' VUH]' YfUh' hfUWU' Y' g' gY [' Ybhg' hYa Yg' "

% " 9' g' d' UbYhYg']' gUh, ']hg']bhYfUW]CE [fUj]hUh' f]U' U' dUfh]f' XY' Y' fYghi X] XY' a' c]]a Ybh' XY' d' UbYhYg']' gUh, ']hg']' Yg']bhYfUW]cbg' ei Y' XYhYfa]bYb' Yg' gYj Yg' ' fV]hYg"

& " 9' W]a d' Y' , Wf]W ' Y] XY' 7ci ' ca Vž' j YWcf']bhYbg]hUh' XY' W]a d' Y' , Wf]Wž' dchYbW]U' Y' , Wf]Wž' a' c]]a Ybh' XY' d' Ufh]W' Yg' WUffY [UXYg' Yb' Y' g] XY' W]a dg' Y' , Wf]Wž' i b] Zcfa Yg"

' " 9' W]a d' a U [b, h]W]j YWcf']bhYbg]hUh' XY' W]a d' a U [b, h]Wž' Zcf, U' a U [b, h]WUž' Zi l' XY' W]a d' a U [b, h]Wž' Y' Xf]bXi W]CEXY' : UfUXUm] ' Y] XY' @Ybn"

(" @Yg' cbYg']' Y' gc' g' fYghi X] Yb' Yg' dfcd]YhUhg' XY' Yg' cbYgž' Ua V' i bU']bW]X' , bW]U' YgdYW]U' Yb' Yg' cbYg' YghU]cb{ f]Yg']' U' gYj U' fY' UW]CE Ua V' U' a • g]WU"

) " : ž]WU' a cXYfbU. ' WUfUWYf]mUW]CEXY' Y' fYZYWY' ZchcY' , Wf]Wž' Yei]j U' , bW]U' a UggU! YbYf []U' ž' U' Z]g]WU' bi WYUf']' Yg' gYj Yg' Ud']WU]cbg"

@U' Z]g]WU' XY' VUH]' YfUh' fg' • h] dYf' U' W fgUf' Yghi X]g' i b]j Yfg]hUf]gž' dYf' Yl' Ya d' Y' "

: ž]WU' ž' ; Yc' c []U' ž' E i ža]WU' ž' è dh]WU']' cdhca Yhf]U' ž' 7], bW]Yg' Ua V]YbhU' gž' 9b []bmYf]U']bXi ghf]U' ž' 5fei]hYW]i fUž' 9b []bmYf]U' ei ža]WUž' ' '] X]j Yfgcg' WYWYg' Zcfa Uh]i g' fY' UW]cbUh]g' Ua V' Uei YghYg' VfUbei Yg"



& 7I FG	7=äB 7=9G 89 @5 H9F F 5' == fla Uh, f]U'XY'a cXU`]hUh'XY' ('\cfYgk'
<p>GY`W`bhfU`Yb`'EYghi X]`XY`Yg`]bhYffY`UW]cbg`YbhfY`Y`g]ghYa U`\i a { `]`Y`g`U`hfYg` g]ghYa Yg`hYffYghfYg`" 9g`Včbg]XYfU`'U`hYffU`Vča`'i b`g]ghYa U`[`cVU`"" 5ei YghU` dYfgdYW]j U`]a d`]WU` hYb]f` Yb` Vča dhY` `Yg` UdcfhUW]cbg` XY` `U` [Yc`c[]Už` W]a Uhc`c[]Už` \]Xfc`c[]Už` YVč`c[]Už` ei řa]WU`]` [Yc[fUZ]U`" =bhYbhU` i b` fYd`UbhY`Ua Ybh'XY`Yg`fY`UW]cbg`YbhfY`'E'ggYf`\i a { `]`Y`a YX]"`</p> <p>9`fYgi a `XY`Včbh]b[i hg`XY`U`a Uh, f]U`fg`Y`gY[`Ybh`</p> <p>9`g`g]ghYa Yg`hYffYghfYg.`Uha`cgZYfUž`\]XfcgZYfU`]`dYXcgZYfU`"</p> <p>DfcW`ggcg`[Yc` ` []Vž`YI hYfbg`]`bhYfbg`ei Y`UZVWYb`'E]W]j]hUh`\i a UbU`"</p> <p>`F YW`fgcg`a`]bYfU`gž`YbYf[, h]Vž`\ řXf]Vž`]`YX{ Z]Vž`"</p> <p>`F]gVč`g`gřa]Vž`] c`W`b]Vž`X]bi bXUW]cbgž`]bYghUV`]hUh'XY`j YggUbhg`]`Yb` ncbYg`]]hc`fU`g`YbhfY`X]hfYg`"</p> <p>=a dUVWYg.`VčbhUa]bUW]CEXY`'E]fYž`'E][i U`]Y`g` ""`</p> <p>D`Ub]Z]WU]CE]`cfXYbUW]CEXY`hYff]hcf]"`</p> <p>`DFYj]g]CE]`dfYj YbW]CEXY`f]gVčg`"</p> <p>`C dh]a]hUW]CEXY`'E`g`XY`fYW`fgcg`]`Y[]g`UW]CEUa V]YbhU`"</p>	



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& 7I FG	9B; @=G< : CF MCI F : I HI F 9 fla Uh, f]U'cdhUh]j U'XY '&' \cfYgk'	& 7I FG	5 8F 9H5 '@@9= fla Uh, f]U'cdhUh]j U'XY '&' \cfYgk'
	<p>@fcdhUh]j U'XY''Yb[i U' Ub['YgU' U' &b' XY' VUH]''YfUh' Ygh('dYbgUXU' dYfei , 'Y'g' U'i a bYg' Ua d']\$ ' UdfcZ' bXY]i]b' U' gY] U' Wca dYh, bWU'']b[' tgh]W' Yb' ei UhfY' \UV]']hUhg. ' Wca dfYbg]CE] YI dfYgg]CE YgW']hYg'] Wca dfYbg]CE] YI dfYgg]CE cfU'g' U' b]j Y'' XY' 6&' Yb' Y'' a UfW9i fcdYi ' Wca • XY' fYZf, bW]U' dYf' fUdfYbYbHh[Y' XY' 'Yg'' Yb[' Yg''</p> <p>9'g' U'i a bYg' i h]']hUfUb' ' U' ''Yb[i U' Ub['YgU' dYf' hfYVU''Uf' hYa Yg' UW' U'g' UXYei Uhg' U'g' gYi g']bhYfYggcg' Ua V' fV'YVW]i ' XY' dfYdUfUf' !cg' dYf' U' gYi ' Z' hi f' UWUX, a]W fdFYdUfUW]CE dYf' U' ' VhYbW]CE XY' W'fh]Z]W]hg' XY'' Yb[i U' Ub['YgU' b]j Y'' 6&ž' fYei]g]h']bX]gdYbgUV' Y' dYf' ' fV' hYbW]CE XY'' h'hc'' XY' ei U'gY] c'' [fUi' i b]j Yfg]huf]k''</p>		<p>5' XfYhU' ''Y] dfcdcgU' i b' j c'' XE'] [U' dY'g' X]ZYfYbhg' XfYhg' ei Y' fY[i 'Yb' 'Yg' bcghfYg' j]XYg. ' Y'' XfYh' 7cbgh]h' W]cbU'ž' Y'' 7]j]ž' Y'' DYbU'ž' 'E' Xa]b]ghfUh]i ž' Y'' @UVcfU''] Y'' XY' U' I' 9' c' XfYh' 7ca i b]huf]''</p> <p>9g' dch' XYZYbgUfž' gYbgY' h' fW'f' U'' Y]ž' ei Y' Y'' XfYh' XY' a Ub]ZYghUW]CEYa dUfU' Y'' ZYh' XE]a dYX]f' ' W]WY'g' XY'g' X]di hUhg' U'' DUf' Ua Ybh3' =ei Y' Y'' XfYh' U'' U'']VYfHh' XE]I dfYgg]CE dfchY[Y]i ' XY' Yg' W] • a b]Yg']]b^ f]Yg' g]' Uei YghYg' Yg' dfcZYfY]i Yb' U'' Hk]hYf3' Dch' i b' ' h[Y' dfYj Uf]W]f3' E i , ' f'g' Y'' V'Ubei Y] [' XY' W]d]hU'g3' 9'g' dfcXi WY'g' Z]bUbW]fg' dcXYb' hYb]f' W' i gi 'Yg' UVi g]j Yg3' E i]bU'X]ZYf, bW]U' \] \U' YbhfY' i b' XY']WY' c' i bU' ZU' hU3' Dch' i b' Ya dfYgUf] fYj]gUf' Y'' W'ffYi ' Y'YWf' b]W' XY'g' gYi g' hfYVU''UXcf'g3' 9g' dch' UWca]UXUf' i b' hfYVU''UXcf' dYf' VU]i Yg' W'cbh]bi UXYg3' HYbYb' Y'g' a UhY]! cg' XfYhg' 'Yg' dUfY''Yg' XY' ZYh' ei Y' Y'g' a Uhf]a cb]g3' 9i]ghY]i ' i b' XfYh' W]]' W]HU' { 3' G] Yh' W]gYgž' ei]b' f, []a' YW'cb' a]W' hU] [fUXUf]U' ei Y' fY[t'g' Y'' hYi ' a Uhf]a cb]ž' U' gYdUfUW]CE XY' V'fbg' c' Y'' f, []a' XY' [i Ubmg3</p>



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Matemàtiques Aplicades a les Ciències Socials

& 7I FG'	HF 57H5A 9BH'5I HCA ÆH=7'89'@5' =B: CFA 57=é' fla Uh, f]U'cdhUhj U'XY'&' \cfYgk'	& 7I FG'	6=C@C; =5'='E I âA =75'9LD9F =A 9BH5@ fla Uh, f]U'cdhUhj U'XY'&' \cfYgk'
<p>9b' Y'' a ÆB' UWwi U'' U']bZcfa { h]WU' Ygh(' dfYgYbh Yb' hcHg' Y'g' { a V]hg' XY'' U' j]XU' dYfgcbU'']' dfcZYgg]cbU'. ' gYfj Y]gž']bX' ghf]Už' YXi WUW]CE' W' hi fUž' YhW' DYf' ' Y'' g][b]Z]WU' cf][]bU'' XY' ' U' dUfUi ' U']bZcfa { h]WU' fg' ' Æghi X] ' XY'' hfUWUa Ybh' Ui hca { h]WXY' ' U']bZcfa UW]CE' 5]l' ' Yb['cVU' XYg' XY' ' U' dYfgcbU' ei Y' dcfHU' Y'g' gYi g' Wèa dhYg' dYfgcbU'g' i h]]mUbhi i b' Z' ' XY' W' W' ž' Z]bg' U' Yg' fYWèa UbUW]cbg' XY' [ei ' j Yi fY' U' Wèbh]bi UW]CE' ei Y' fYU']mYb' ' Yg' d' UHUZcfa Yg' XY' streaming i h]]mUbh Data Miningž' dUggUbh' dYf' Ud']WUW]cbg' Ya dfYgUf]U'g' ei Y' [Ygh]cbYb' Y'' gYi ']b] YbhUf] i h]]mUbhi b' ' Yb[i Uh[Y' XY' dfc[fUa UW]CE'</p> <p>9b' Uei YghU' a Uh, f]U' Yghi X]UfYa ' U' [i bg' Yi Ya d' Yg' X]Uei YghU' VfUbWU' XY' ' U']bZcfa { h]WU''</p>		<p>@V'YW]ji ' XY'' U' a Uh, f]U' fg' ZJa]]Uf]mUf! gY' Ua V' Y'' a UhYf]U'ž' h, Wb]ei Yg' a fg' \UV]hi U'g']a ' , hcXY' XY' hfYVU'' ei Y' Yg' dcXYb' ZYf' gYfj]f' Yb' i b' ' UVcfUhc] ' X]U]bh]hi h''</p> <p>9ghi X]UfYa ' XY' a UbYfU' df{ W]WU' a c' hg' XY' g' WèbW' dhYg' ei Y' Zi' ' gYfj]fž' XY' a UbYfU' hY' f]WUžYb' ' Yg' a Uh, f]Yg' XY' V]c' c[]U']' ei ža]WU''</p> <p>HUa Vf' fYgc' XfYa ' dfcV' Ya Yg' XY' X]ggYbmX]YI dYf]a Ybhgž' XY' g' ei Y' h]d]WUa Ybh' d' UbhY[Yb' U'g' Yi { a Ybg' XY' gY' YW]j]hUž' ZYbh' gYfj]f' Y' a ' , hcXY' WYbht]Wž' ' \c' ZUfYa ' fYU']mUbh' ÆYI dYf]a Ybhž' dfcdcgUbh' \]d' hYg]gž' d' cgUbh' ' Yg' U' dfc] U'] UbU']mUbh' Y' g' fYgi ' hUg' dYf' hU' XY' hfYi fY' WèbW' g]cbg' fYU' g'] YbhYbXfY' Wèa ' Yg' [YbYfYb' ' Yg' ' Y]gž' a cXY' g'] hYcf]Yg''</p> <p>8Y' WU]XU' i bU' XY' ' Yg' Yi dYf] , bWY' gž' df{ W]ei Yg' WYbht]Z]ei Yg']' Yi dYf]a Ybhg' X]U]j Ygh] [UW]CEi Y' fYU']mUfYa ' U' ' ' Uf[' XY' W' fgž' \Ui fYi ' XY' ZYf' i b']bZcfa Y' WYbht]W' <]' \Ui f{ ' YgdU] dYf' U' ' U']a U[]bUW]CE] ' U' W' YU]j]hU' d' fcdcgUbh' \]d' hYg]g' bcj Yg'] X]ggYbmU]bh' bci g' Yi dYf]a Ybh' dYf' hU' XY' d' cgUf! ' Yg' U' dfc] U''</p>	



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Ciències Socials
Matemàtiques Aplicades
a les Ciències Socials**

& 7I FG	DG=7C@C; =5 fla Uh, f]U'cdhUh]j U'XY & \cfYgk'	& 7I FG	9GH585'5'@9A DF 9G5' fla Uh, f]U'cdhUh]j U'XØ b'hchU'XY'+\$ \cfYgk'
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9b' Yg' U'Vcfcg' XY' gY['Y' LL =z' j]j] a' i b' Wbj]' \]gh f]Vz' Y' XYgYbj c'i dUa Ybh XY' U' gcVYhUh Y' U']bZcfa UWCEZ' a UfWUXU' dYf' ei UhY' YgXYj Yb]a Ybhg']a dcfhUbhg. ' U' fY] c'i WCE XY' 'Yg' bcj Yg' hYVbc'c[]Yg' XY' U']bZcfa UWCEZ' U' ['cVU']mUWCEYVeb' a]WUz' i bU' fYcf[Ub]mUWCEXY' h'Ya dg']' 'EYgdU']' U']bgYfVCEgcV]c' UVcfU' XY' 'Yg' XcbYg''

5j i]' X]U' cVgYfj Ya' Wbj]g' Yb' Yg']bgh]i Wcbg' a cXYfbYg' hfUX]WcbU'g' fZY]bUz' ZJa #]Uz' YXi WUWCEZ' dUFY' U'z' XYa cWf']WUz' gcVYhUh Wj]z' YhWE' ei Y' fYdYfW hY]i Yb' Yb' Yg' WcbX]Wcbg' XY' j]XU' XY' hcYg' 'Yg' dYfgcbYg'' FYg' fca Ub' Yb' Uei Ygh' a CE' Zi Ybhz']ei]X']' gYbgY' Zcfa Uz' Wca' 'E'U' XYZ]b]h' Y' gcVY' 'Y['Nm[a i bh'6Ui a Ub''

@U' dg]Vz' c[]U' f'g' i bU' X]gVd']bU' XYX]WUXU' U' cfXYbUf']' WUgg]Z]WUf' Y'g' Zyb' a Ybg' dg]Vz' []Wj']' U' dfca ci fY' Y' VYbYghUf' dYfgcbU'' @U' dg]Vz' c[]U' bc' f'g' i bU' Wj' bWU' i b]Z]WUXUz' Yb' i b' Wla d' a i 'h]X]gVd']bUf']' Wca d'cgh' dYf' X]ZYfYbhg' dYfgdYVW]j Yg' hY' f]ei Yg']' a YhcXc' []ei Yg'' '9'g' X]ZYfYbhg' dYfgg' d' g]hg' Z]cg' Z]Wj' ei Y' gi V'Yi Yb' U' WUXU' h'cf]U' fFUW]cbU']ga Yz' Ya d]f]ga Yz' Wcbghf' W]j]ga Yk']' X]ZYfYbhg' fUcbg' \]gh f]ei Yg']' gcV]U'g' c]f[]bYb' Uei YghU' X]j Yfg]hUz' dYf' 'Wca' 'UZ]fa U' >' A VbU' m' i' U' X]j Yfg]hU' Yb' dg]Vz' c[]U' g] [b]Z]WU' j]hU']hU' ''

9gri X]UfYa' hfYg' X]a Ybg]cbg' U' dUfh]f' XY' 'Yg' ei U'g' j YfhYVfUfYa' 'U' dg]Vz' c[]U']' Uk'@U' X]a Ybg]CE WYbhZ]WU']' gcV]U'' @U' dg]Vz' c[]U' UVcfXU' h'Ya Yg' ei Y' UVUghYb' 'U' Z]g]c'c[]U' XY' Wf] Y' z' Z]bg' U' U' gcV]U']mUWCE' i a UbUz' XYg' XY'g' d'fcWggcg' Wc[b]h]i g' Z]bg' U'g' d'fcV'Ya Yg' W]b]Wj'' =bhYbhUfYa 'Yi d']WUf']' Wca d'fYbXfY' 'E'ggYf' \i a { z' U'g'Y' U'j]XU']' Y' gYi' a CE''

Vk8]a Ybg]CE]bX]j]Xi U'' @U' dg]Vz' c[]U' hf' i bU' X]a Ybg]CE' i a UbU']' gcV]U' z' Y'g' cV'YW]i g' XY' U' ei U' g' CE' U' g' U' i h dg]Vz' []WUz' U' ei U']hU' XY' j]XU']' Y' XYgYbj c'i dUa Ybh XY' 'Yg' dYfgcbYg']' Y'g' [fi dg'' @Egh' X]]' XY' U' dg]Vz' c[]U' Ybg' \Ui f]U' XY' gYf']f' dYf' gYf' a f'g' UggYf]h]i g'z' dYf' U' YghU']f' Ua]ghUg']' Wc'dYfUf' Yb' U' Z]]bUz' dYf' U' Yl dYfggUf' Y'g' gYbh]a Ybhg']' fYgc' XfY' WcbZ]WYg' gYbgY' fYVCEfYf' U' 'B] [fYgg]CE dYf' U' fYVcb.]l Yf' Y'g' j U' c'fg' dYfgcbU'g']' gYbh]f' b'cg' a Ya V'fYg' XØ b' [fi d''

W' 9b' Uei Ygh' gYbh]h' gYbh]h'z' U' dg]Vz' c[]U' hf' Y' j U' c'f' XY' [d'fYdUfUf' h'Y' dYf' U' U' j]XU' z' f'g' U' X]fz' Ud'fYbXfY' U' j]' fY' Yb' U']bWfYhU' dYf' U' a UbWU' XØi hc]f]hUg']bZU'']V'Yg'z' U' fYgdYVWUf' Y' XfYhU' gYf' X]ZYfYbhg'z' U' Ugg' a]f' Yg' hYj Yg' fYgdcbgUV']hUg' XY' 'Yg' hYj Yg' XYW]g]cbg']b' UW]]cbg'z' YhW' 9b' XYZ]b]h]j Uz' ei Y' WUXU' dYfgcbU' UdfYb[i]' ei ' ' j c' gYf']' XYgWcVfY]]' Y' h]di g' XY' a CE' Yb' Y' ei U' XYg]hU' j]i fY''

@U' a Uh, f]U'cdhUh]j U' XEYghUXU' U' 'EYa d'fYgU' gØXfY, U' U' Uei Y'g' U' i a bYg' ei Y' j i [i] b' d'fYbXfY' WcbhUWY' dYf' d]f]a Yf' Wc'd' Ua V' Y' a CE' 'UVcfU']' ei Yz' Yb' i bU' [fUb' a U' c'f]Uz' h]b[i] b']bhYbW]CEXY' Wcb]bi Uf' Y' gYi']h]bYfUf']' UWUX, a]W'

9b' d'f]bW]d]z' Uei Y' U' i a bU' h' ei Y' hf]S' 'EYghUXU' U' 'EYa d'fYgUz' h]bXf{ 'U']bhYbW]CEXY' j Yi fY' XY' d'fcd' UW]j]hUg' d'fcZ]gg]cbU'g' fY' UW]cbUXYg' Ua V' Uei Y' U' a cXU']hU' Yb' U' ei U' Ygh']' a Uhf]W' U'h#UXUz' hch']' ei Y' hUa V'f']' d'cXYb']bhYfYggUf' XØ' hfYg' { a V]hg' d'fcZ]gg]cbU'g''

@E'V'YW]i]' gYf[z' XcbVg'z' WUdUW]hUf' 'Ø' i a bU' h' dYfei ' ' di [i] d'fYbXfY' WcbhUWY' Ua V' Y' a CE' XY' hfYVU'']' ei Y']' g] [i] XØ h]]hU' dYf' UXei]f'f']bZcfa UW]CE Wca d'Ya Ybh[f]U' U' Z] XY' Wcb]bi Uf' YbZcW]bh' Y' d'fcd']' d'fc'YVWY' XY' Z' h' f' UWUX, a]W] d'fcZ]gg]cbU''

5ei YghU' a Uh, f]U' hf' i bU' Xi fUXU' XY' +\$ \cfYg' 'YW]j Yg'z']' Yg' W' fgU' Yb' i bU' Ya d'fYgU' d'f]j UXU' c' Yb' i bU']bgh]h' W]CE d' V']WU' Yb' \cfUf']' bc' 'YW]i '' @Ø' i a bY#U' hf' i b' h' hc'f' YgdYW]U']ghU' Yb' 'Ø' a V]h' UVcfU' YgdYW]z]Wz' ei Y' Y' [i] Uf[' Yb' Y' WcbY]] Ya Ybh XY' a CE' 'UVcfU']' XY' 'Yg' X]b{ a]ei Yg' a f'g' WcbWYhYg' XØ' ei Ygh' a CE''

9`gYfj Y]XĐcf]YbhUW]CEUWUX,, a]WU`XY`Đ=B G'6cgW
XY`U'7ca U'i g'UhYbXf{ 'XY'a UbYfU'
]bX]j]Xi U`]hnUXU'gYa dfY'ei Y'i g'WŁbj]b[i]"



WUdXYghi X]gVUh4 VcgWXY`UWŁa U"WUh'



- + & ' & * + \$ % &