

School of Civil and Environmental Engineering

Term 2, 2020

CVE 4202 ADVA CED IC I GE ECH ICA E GI EE I G

COURSE DETAILS

Units of Credit

Contact hours "#\$%&'(#)*'#+**,

Class - *./*(863.04564.4863.04531.761147.52578T4200

8\$;(#F%&'(*#+;::#C*#.*:;P*'*.#;/#0+%#)O'0(B#MO'0#%/*#Q+**,(#3R"\$#;(#E%F&(*.#%/#@'%&/.#*/*'@1#O/.#@'%&/.#
(%&'F*#\$*O0#)&?)#(1(0*?(2#F%??%/#.*(;@/#)O'O?*0*'(#O/.#O))'%OF\$*(#O/.#OPO;:OC:*#O/O:10;FO:#(%:&0;%/(#0%#&/.*'(0O/.#0\$*#F%/F*)0#%E#@*%0\$*'?O:#(1(0*?(B#8%#C*00*'#&/.*'(0O/.#0\$*#)\$1(;F(#O/.#@%P*'/;/@#*T&O0;%/(#C*0+**/#0\$*#(1(0*?(#O/.#0\$*#(&''%&/.;/@#@'%&/.2#0\$*#*.&FO0;%/O::E;/;0*#*:*?*/0#(%E0+O'*#GUVNUW#+;::#C*#&(*.#0%#F%?)&OO0;%/O::1#?%.*:#.;EE*'*/0#FO(*(#%E#@'%&/.#*/*'@1#(1(0*?(B###

 $8\$*\#(*F\%/.\#)0'0\#\%E\#0\$*\#F\%\&'(*\#Q+**,(\#9R35\$;(\#?O;/:1\#\%/\#\&/.*'(00/.;/@\#0\$*\#CO(;F\#)';/F;):*(\#\%E\#F';0;FO:\#(000*\#(\%;\#?*F\$O/;F(\#O/.\#(\%;\#):O(0;F;012\#O/.\#\&(*\#*:O(0;FR):O(0;F\#F\%/(0;0\&0;P*\#?\%.*':(\#QV\%$'RG\%.:\%?C2\#GO?RG:O12\#>\%&/.;/@\#N\&'EOF*#M:O(0;F;015\\%(;?\&:O0*\#(\%;\#(0'*((R(0'O;/\#C*\$OP;\%\&'B\#8\%\#\&(*\#0\$*\#E;/;0*\#:*?*'/0#?*0*0*0,F\%):0(0;FR):O(0;FR):$

COURSE PROGRAM

Term 2 2020

- * * ,#3#

RELEVANT RESOURCES

Par 1:

- ! # \$% ()# * #+ , &#-&./0123.40 .0#567/80970:09; <)# = 4:7; #% .1# \$% .1 ' > 7::)#?@!?"#
- ?"# ,:AB602/;)#C"#+D08E2.%.40&%:#F017::4&9#06#H6%::0>#I70.67/8%:#H;(.78(<)#DCD#J/7(("#
- K"# I HLJ ,)#+ I /02&1#H02/37#L7%.#J28E#C7(417&.4%:#%&1#M496.#D0887/34%:#*7(49&#%&1#-&(.%::%.40&#I2417<)#N':%608%#H.%.7#O&4P7/(4.; "##
- Q"# M%:O24)#M")# * 4# * O&&%)#, ")#+#R&7/9;# I 70A(./23.2/7(#\$#-&&OP%.40&#O&17/9/02&1#R&94&77/4&9<)# = 4:7;)#?@!K"#
- $T"\# \ M\%:024)\#M"\# U\#MO/4\%)\#, "\#V"\#C")\#+, \&\%:; (4(\#\%\&1\#*7(49\&\#00\#R\&7/9;\#I70(./23.2/7(10\#5670/7.43\%:\#R((7\&.4\%:(\#\%\&1\#Y)/3.43\%:\#, EE:43\%.40\&<)\#, 3\%17843\#J/7(()\#?@!X"\#)$

#

Par 2:

Y0#.7Z.[00'#4(#E/7(3/4[71#%:.60296#.67#64/(.#602/#[00'(#:4(.71#[7:0>#%/7#P7/;#9001#4&P7(.87&.(#60/#%&;#970.736&43%:#7&94&77/"#

- ?"# F24/# = 001)#*"#+ I 70.736&43%:#8017::4&9<)#HE0&#J/7(()#?@@Q"#
- K"# J2\/4&)#, "F")#,:0&(0)#R"R"#%&1#J4&;0:)#Y"F"#+I708736%&43(#0;#6;4:2/7(<"#HE/4&97/"#?@!@"#
- "# ,.'4&(0&#%&1#J"M"#\$/%&([;)#^567#8736%&43(#0G#(04:(\|\|##, &./0123.40&\|#.0\|#3/4.43%:\|#(.%.7\|#(04:\|8736%&43(^)\|#F3I/%>AL4::)\|#!Xab"\|#
- a"# L0:.\)#B0P%3(#%&1#H67%6%&)#^, &./0123.40&#.0#970.736&43%:#7&94&77/4&9^\#J7%/(0&)#?@!!"#
- b"# C711;# "Y"#, &#-&./0123.40&#.0#.67#V4&4.7#R:7878.#F7.601)#K/1#71")#F31/%>AL4::)#Y7>#c0/')#?@@`"#
- ! @ " # J O.. (# * "F") # d1/%P' OP43 # M" # V4&4.7 # R:7878. # , &%: ; (4(# 4& # I 70.736&43%: # R&94&77/4&9 # A# , EE:43%.40&) # 5608% (# 57:60/1 # J2 [:4(64&9) # M0&10&) #?@@!" #

#

DATES TO NOTE

C767/#.0#F; $OYH = \#60/\#-8E0/.\%\&.\#*\%.7(\#\%P\%4:\%[:7#%.\\###$

6..E(Wee(.217&."2&(>"712"%2e1%.7(##

#

PLAGIARISM

 $7-\%/7f + .4\%(49&87\&.#.6\%.#4\&3:217(#E:\%94\%/4(71#8\%.7/4\%:#>4::#/7374P7#\@g #V\%4:)#\&1#(.217\&.(#>60#E:\%94\%/4(7#8\%.7/4\%:#>4::#/7374P7#\@g #V\%4:)#\&1#(.217&.(#>60#E:\%94\%/4(7#8/7#\%:(0#:4\%[:7#.0#14(34E:4\&\%/;#\%3.40\&)#4\&3:214\&9#7Z3:2(40\&#\G/0 8#G/0 8#7\&/0:87\&.\##$

J:%94%/4(8#4(#.67#2(7#0G#%&0.67/#E7/(0&h(#>0/'#0/#417%(#%(#4G#.67;#>7/7#;02/#0>&"#=67.#4(#&737((%/;#0/#17(4/%[:7#.0#2(7#0.67/#E70E:7h(#8%.7/4%:#;02#(602:1#%17i2%.7:;#%3'&0>:7197#>60(7#>0/1(#0/#417%(#.67;#%/7#%18-67/7#;02#02&1#.678#j94P4&9#.67#308E:7.7#/767/7&37#17.%:()#4&3:214&9#E%97#&28[7/j(kk"#567#M7%/84&9#D7&./7#E/0P417(#62/.67/#&60/8%.40/#>6%.#30&(.4.2.7(#J:%94%/4(8#%.))#

6..E(Wee(.217&."2&(>"712"%2eE:%94%/4(8##

#

ACADEMIC ADVICE

VO/#4&GO/8%.40&#%[02.\\#

0

- •# Y0.7(#0&#%((7((87&.(#%&1#E:%94%/4(8I#

- •# c7%/#F%&%97/(#%&1#I/47P%&37#NG437/#OG+57%364&9#%&1#M7%/&4&9#D0884..77)#%&1##
- •# DR]HNDeHOC]HNDeDRJD,#

C767/#.0#, 3%17843#, 1P437#0&#.67#H3600:#>7[(4.7#%P%4:%[:7#%.1])#

 $\underline{6..E(\text{Wee}>>> \text{"}7\&94\&77/4\&9\text{"}2\&(>\text{"}712\text{"}\%2e34P4:A7\&94\&77/4\&9e(.217\&.A/7(02/37(eE0:4347(AE/03712/7(A\%&1A^2)460/8)))))}$

#

Appendi A: Engineer A A ralia (EA) Compe encie

!"#\$%&'&() *+%"%, -.%/&0)1&21)0%//.),#&4,\$.,%%1/&

#	Program In ended Learning O come [⊊]
	JR!"!#D08E/767&(4P7)#.670/;A[%(71#2&17/(.%&14&9#06#2&17/E4&&4&9#62&1%87&.%:(#

JR!"?#D0&37E.2%:#2&17/(.%&14&9#0\;#2&17/E4&&4&9#8%.6()#%&%:;(4()#(.%.4(.43()#308E2.4&9#

PE1: Kno ledge and Skill Ba≨e