

اتجاهات وميول طلبة أقسام الإدارة في الجامعات العراقية نحو مناهج مادة الحاسوب وتطبيقاته العملية.

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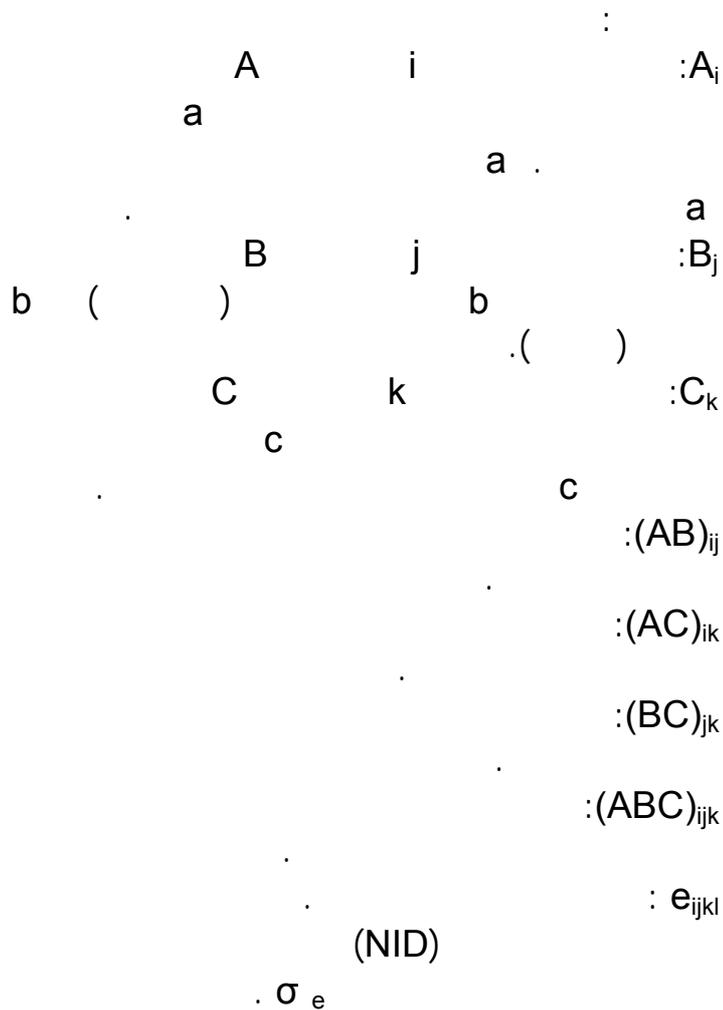
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$$Y_{ij} = \mu + A_i + B_j + C_k + (AB)_{ij} + (AC)_{ik} + (BC)_{jk} + (ABC)_{ijk} + e_{ijkl}$$

$i = 1, \dots, a$
 $j = 1, \dots, b$
 $k = 1, \dots, c$
 $l = 1, \dots, r$



$$\hat{e}_{ij} \sim \text{NID}(0, \sigma_e)$$

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S.O.V	D.F	S.S
A	a-	SSA=A-C.F
B	b-	SSB=B-C.F
C	c-	SSC=C-C.F
AB	(a-) (b-)	SS(AB)=AB-A-B+C.F
AC	(a-) (c-)	SS(AC)=AC-A-
BC	(b-) (c-)	C+C.F
ABC	(a-) (b-) (c-)	SS(BC)=BC-B-
ERROR	(r-) (abc)	C+C.F SS(ABC)=ABC-AB- AC-
TOTAL	rabc-	BC+A+B+C-C.F SSe=RABC-ABC SST=RABC-C.F

C.F

$$C.F = \frac{(Y \dots)^2}{abc}$$

: A

A

$$A = \frac{\sum Y^2_{i\dots}}{bcr}$$

	:	B	B
$B = \frac{\sum Y^2_{.j.}}{acr}$			
	:	C	C
$C = \frac{\sum Y^2_{..k.}}{abr}$			
	:	(AB)	AB
$AB = \frac{\sum Y^2_{ij.}}{cr}$			
	:	(AC)	AC
$AC = \frac{\sum Y^2_{i.k.}}{br}$			
	:	(BC)	BC
$BC = \frac{\sum Y^2_{.jk.}}{ar}$			
		(ABC)	ABC
			:
$ABC = \frac{\sum Y^2_{ijk.}}{r}$			
		()	RABC
			:

$$R_{ABC} = \sum Y^2_{ijkl}$$

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. ABC
 .AB B A
 , AC C
 BC

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S.O.V	D.F	S.S	M.S	F
Treatments		,	,	, **
A		,	,	, **
B		,	,	, **
C		,	,	, **
AB		,	,	,
AC		,	,	,

BC		,	,	,	**
ABC		,	,	,	**
Error			,		
Total		,			

$$F(\quad)$$

$$F$$

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$$F$$

$$F$$

$$F$$

$$AC$$

$$AB$$

$$)B ($$

$$)A ($$

$$(\quad) C$$

$$(\quad) BC$$

$$)ABC ($$

$$) ABC ($$

$$) B ($$

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10_ Fullata ,M.(1982)"An Experimental study for
 Modernizing instruction through educational
 technology". New york.

11- www.almualem.net

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