

NPTEL

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Courses » Design and Analysis of Experiments

Announcements Course Ask a Question Progress Mentor

Unit 13 - Week 12

Course outline	Week12_A	Assig	nmen	t12				
	The due date for su	bmitting th	nis assignn	nent has pa	ssed. <mark>Du</mark>	e on 201	8-04-18, 2	23:59 IST.
How to access the portal	Submitted assig	nment						
Week 1	Question 1 & Question	on 2 are ba	sed on the f	following cas	se:			
Week 2	MINITAB output for a Compute the values				below. Som	ne of the qu	antities are r	missing.
Week 3	Variable	N	Mean	SE Mean	Std. Dev.	Variance	Minimum	Maximum
Week 4	Υ	9	19.96	?	3.12	?	15.94	27.16
Week 5	1) What is the value	of standard	error of me	an?				4 point
Week 6	0 1.04							
Week 7	1.50 2.04							
Week 8	19.96							
Week 9	No, the answer is i	incorrect.						
Week 10	Accepted Answers	Accepted Answers:						
Week 11	2) What is the value	of variance	?					4 point
Week 12	3.12							•
Feedback for	9.73							
week 12	0 10.21							
○ Quiz :	19.96							
Week12_Assignment12	No, the answer is	incorrect.						
Lecture 57 :	Score: 0							
ANOVA using MINITAB	Accepted Answers	s:						
Lecture 58 : Factorial Design using MINITAB	9.73							
Lecture 59 : Fractional	Question 3 to Questi	on 5 are ba	sed on the	following ca	se:			
Factorial Design using MINITAB	Consider the following	g Data sets	S.					
Lecture 60 : Response Surface Methodology								

Methodology using MINITAB

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Circuit Type	Circuit Type			Response Time		
1	9	12	10	8	15	
2	20	21	23	17	30	
3	6	5	8	16	7	

The analyst has done one-way ANOVA in MINITAB and has obtained the following results. There are some missing values.

ANOVA						
Source of Variation	SS	df	MS	F	P-value	F crit
Treatments	543.6		271.8		0.000402	3.8852938
Error		12	16.9			
Total	746.4	14				

Error		12	16.9		
Total	746.4	14			
		-			П
3) The sum of square	value of the error	is:			4 points
202.80					
543.60					
271.80					
746.40					
No, the answer is in Score: 0	ncorrect.				
Accepted Answers	:				
202.80					
4) The degree of free	dom of the treatme	ent is:			4 points
O 12					
0 14					
0 2					
O 3					
No, the answer is in	ncorrect.				
Score: 0					
Accepted Answers	:				
5) The F value for the	test statistics is				4 points
14.534					
15.062					
16.083					
17.058					
No, the answer is in Score: 0	ncorrect.				
Accepted Answers	:				
16.083					

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End

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