

NPTEL

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Courses » Design and Analysis of Experiments

Announcements Course Ask a Question Progress Mentor

Unit 4 - Week 3

Course outline

How to access the portal

Week 1

Week 2

Week 3

- Lecture 13: Analysis of Variance (ANOVA)
- Analysis of Variance (ANOVA) (Contd.)
- Lecture 15:
 ANOVA Estimation of Model parameters and Adequacy Test
- Lecture 16:
 ANOVA Pairwise
 comparisons;
 Tukey's Test
 and Fisher's
 LSD Test
- Lecture 17: Two-way ANOVA
- Lecture 18: Multi-way ANOVA
- Lecture 19:
 Determination
 of Sample Size
 for ANOVA
- Quiz : Week_3_Assignment_3

Week 4

Week 5

Week_3_Assignment_3

The due date for submitting this assignment has passed. Due on 2018-02-14, 23:59 IST.

Submitted assignment

Questions 1-5 are based on the following case:

A manufacturer of television sets is interested in the effect of tube conductivity of four different types of coating for color picture tubes. The following conductivity data are obtained (Use α =0.05)

Coating Type 1	Conductivity					
	143	141	150	146		
2	152	149	137	143		
3	134	136	132	127		
4	129	127	132	129		

1) The mean square of the model is

2 points

- (i) 281.56
- (ii) 844.69
- (iii) 19.69
- (iv) 236.25

No, the answer is incorrect.

Score: 0

Accepted Answers:

(i) 281.56

2) Degree of freedom of the model is

2 points

- (i) 12
- (ii) 3
- (iii) 13
- (iv) 4

No, the answer is incorrect. Score: 0

Accepted Answers:

(ii) 3

3) Degree of freedom of the error is

2 points

- (i) 12
- (ii) 3
- (iii) 13
- (iv) 4

Week 6	No, the answer is Score: 0						
Week 7	Accepted Answe	rs:					
Week 8	(i) 12	o of the owner	ia				2 mainte
	4) The mean squar	e of the error	IS				2 points
Week 9	(i) 281.56 (ii) 844.69						
Week 10	(iii) 19.69						
Week 11	(iv) 236.25						
Week 12	No, the answer is Score: 0	s incorrect.					
DOWNLOAD VIDEOS	Accepted Answe	rs:					
	5) Treatment effec	t for the first o	coating type i	is			2 points
	(ii) 7.0625 (iii) 7.0178 (iv) 7.5423 No, the answer is Score: 0 Accepted Answer (ii) 7.0625 Questions 6- 10 and The response time be used in an auto α=0.01) Circuit Type	re based on the in millisecon matic valve sh	ds was deter utoff mechani	mined for thre sm. The result Response	s are shown i	n the following	
	1 2	9 20	12 21	10 23	8 17	15 30	
	3	6	5	8	16	7	
	6) The sum-square	e total of the d	ata set is				

Design and Analysis of Experiments offic 4 - Week 5	
No, the answer is incorrect. Score: 0	
Accepted Answers: (ii) 16.90	
8) The degree of freedom of the circuit type is	2 points
(i) 2 (ii) 12 (iii) 14 (iv) 3	
No, the answer is incorrect. Score: 0	
Accepted Answers: (i) 2	
9) The degree of freedom of the error is	2 points
(i) 2 (ii) 12 (iii) 14 (iv)3	
No, the answer is incorrect. Score: 0	
Accepted Answers: (ii) 12	
10)The mean square value of the circuit type is	2 points
(i) 271.80 (ii) 16.90 (iii) 543.60 (iv) 202.80	
No, the answer is incorrect. Score: 0	
Accepted Answers: (i) 271.80	

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