Course outline

Week 0
Week 1
Week 2
Week 3
Week 4
Week 5

How does an NPTEL online course work?

 Hypothesis Testing: Two sample test- II
 Hypothesis Testing: Two sample test- III

O Post Hoc Analysis(Tukey's

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Problem Solving Session

O ANOVA - II

test)
Important Data files
Quiz: Week 5: Assignment 5
Week 5 Solution
Week 6
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he due date for submitting this assignment has passed.	Due on 2023-03-01, 23:59 IS
Assignment submitted on 2023-02-27, 18:31 IST	,
The 'F' ratio in a completely randomized ANOVA is the ratio of 1)	1 poi
	Τροι
○ MST/MSE ◎ MSTR/MSE	
O MSE/MSTR	
○ MSE/MST	
Yes, the answer is correct.	
Score: 1 Accepted Answers:	
MSTR/MSE	
2) A term that means the same as the term "variable" in an ANOVA procedure is	1 poi
factor	
O treatment	
replication	
O variance within	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
factor	
3) An ANOVA procedure is used for four samples, each comprised of 30 observations, were taken from the four polenominator (respectively) degrees of freedom for the critical value of F are	opulations. The numerator and 1 poi
3 and 30	
4 and 30	
3 and 119 3 and 116	
Yes, the answer is correct.	
Score: 1	
Accepted Answers: 3 and 116	
Which of the following is not a required assumption for the analysis of variance?	1 poi
The random variable of interest for each population has a normal probability distribution	
The variance associated with the random variable must be the same for each population	
At least 2 populations are under consideration	
Populations have equal means	
Yes, the answer is correct. Score: 1	
Accepted Answers: Populations have equal means	
 If, sum of square between treatments (SSTR) = 6,750 H0: m1=m2=m3=m4 Sum of square of error (SSE) = 8,0 lifferent Total number of elements (nT) = 20 The mean square between treatments (MSTR) equals 	00 Ha: at least one mean is 1 poi
○ 400 ○ 500	
O 1.687.5	
© 2,250	
Yes, the answer is correct.	
Score: 1 Accepted Answers:	
2,250	
6) Refer to Q 5. The mean square within treatments (MSE) equals	1 poi
○ 400	
© 500	
○ 1687.5	
○ 2250	
Yes, the answer is correct. Score: 1	
Accepted Answers: 500	
7) Refer to Q.5. The test statistic to test the null hypothesis is equals	1 poi
0.22	
0.84	
O 4.22	
◎ 4.5	
Yes, the answer is correct.	

Score: 1 Accepted Answers: 4.5	
8) An ANOVA procedure is applied to data obtained from 6 samples where each sample contains 20 observations. The degrees of freedom for the critical value of F are	1 point
6 numerator and 20 denominator degrees of freedom 5 numerator and 20 denominator degrees of freedom 5 numerator and 114 denominator degrees of freedom 6 numerator and 114 denominator degrees of freedom	
Yes, the answer is correct. Score: 1	
Accepted Answers: 5 numerator and 114 denominator degrees of freedom	
9) The critical F value with 6 numerator and 60 denominator degrees of freedom at alpha = .05 is	1 point
○ 3.74	
© 2.25	
O 2.37	
○ 1.96	
Yes, the answer is correct. Score: 1	
Accepted Answers: 2.25	
2.20	
10) The ANOVA procedure is a statistical approach for determining whether or not	1 point
the means of two samples are equal	
the means of two or more samples are equal	
the means of more than two samples are equal	
the means of two or more populations are equal	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
the means of two or more populations are equal	