Course outline

course work?

Prerequisites

How does an NPTEL online

Week 0: Assignment on

Week 1: Introduction

Week 3: User-Centric

Centric Systems

models (classical)

Computing

models

Methods

Week 2: Engineering User-

Week 4: Computational user

Week 5: M5-Computational user models (contemporary)

Week 7: Empirical Research

Lec 26: Introduction and

Lec 27: Variables

Lec 28: Data analysis

Quiz : Assignment 7

Weekly feedback form for

Solution: Assignment 7

Week 8: User-Centric Design

Evaluation

Download Videos

Text Transcripts

Week 6: Formal system

1 point

1 point

NPTEL » User-Centric Computing for Human-Computer Interaction

Announcements

Unit 10 - Week 7: Empirical Research Methods

ourse outline	Accienment 7	
w does an NPTEL online urse work?	Assignment 7 The due date for submitting this assignment has passed. As per our records you have not submitted this assignment.	59 IST.
eek 0: Assignment on erequisites	Rearrange the following 5 steps of an empirical research in the proper sequence.	1 poin
ek 1: Introduction	I. Design of experiment II. Building of a model	
ek 2: Engineering User- ntric Systems	III. Analysis of empirical data IV. Identification of research question(s) V. Determination of variables	
ek 3: User-Centric mputing	○ I, IV, II, III, V ○ IV, V, I, III, II ○ I, IV, III, II, V	
ek 4: Computational user dels (classical)	II, IV, I, III, V No, the answer is incorrect.	
ek 5: M5-Computational er models (contemporary)	Score: 0 Accepted Answers: IV, V, I, III, II	
ek 6: Formal system dels	In a study involving observation-based data collection, the data obtained is known as	1 poin
ek 7: Empirical Research	experience data empirical data inspection data	
Lec 26: Introduction and research question formulation	O aleatory data No, the answer is incorrect.	
Lec 27: Variables determination and experiment design	Score: 0 Accepted Answers: empirical data	
Lec 28: Data analysis including model building	3) An informal and unstructured small-scale studyconducted to prepare for a full-scale study is known as	1 poin
Quiz : Assignment 7	preliminary inquiry	
Weekly feedback form for week 7	prelude study pilot study groundwork study	
Solution: Assignment 7	No, the answer is incorrect.	
ek 8: User-Centric Design aluation	Score: 0 Accepted Answers: pilot study	
wnload Videos	4) "How my interface looks like?" is a good example of research question.	1 poin
xt Transcripts	○ True ○ False	
	No, the answer is incorrect. Score: 0 Accepted Answers: False	
	5) Match the following I. Nominal A. 1=Male, 2=Female II. Ordinal B. Temperature in °C (98°C, 99°C, 100°C) III. Interval C. WPM (word per minute) IV. Ratio D. Rank (1st, 2nd, 3rd,)	1 point
	 I - B, II - C, III - D, IV - A I - A, II - D, III - B, IV - C I - C, II - D, III - A, IV - B I - D, II - A, III - B, IV - C No, the answer is incorrect. Score: 0 Accepted Answers: 	
	Accepted Answers: I - A, II - D, III - B, IV - C 6) Generally five participants are sufficient for conducting a pilot study, whereas the number lies between for a controlled empirical study 10 and 30 100 and 300 12 and 25 50 and 100 No, the answer is incorrect. Score: 0 Accepted Answers:	. 1 poin
	 12 and 25 A participant's performance is influenced by his experience of a repetitive task. This phenomenon is known as 	1 poin

opractical learning

temporal learning

proficiency effect

 practice effect No, the answer is incorrect.

Score: 0 Accepted Answers:

practice effect

t-test is a _

parametric test

 non-parametric test No, the answer is incorrect.

Score: 0

Accepted Answers: parametric test

9) Suppose these are 100 tasks in an empirical study, and 50 participants. You ask the first 25 participants for completing the first 50 tasks, and rest of 1 point the participants for completing the next 50 tasks.

- This is "within-subject" experiment This is "between-subject" experiment

10) Statistical significance test are required _

- This type of experiment can be termed as both the "within-subject" and the "between-subject" experiments None of the above
- No, the answer is incorrect.

Score: 0 Accepted Answers:

This is "between-subject" experiment

to verify whether the participants are statistically significant or not to verify whether the data occurred by chance or due to specially designed test conditions

to verify the null hypothesis

to verify the alternative hypothesis No, the answer is incorrect.

Score: 0 Accepted Answers:

to verify whether the data occurred by chance or due to specially designed test conditions