



ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)  
 ORGANISATION OF ISLAMIC COOPERATION (OIC)  
DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

**Mid Semester Examination**

Course No: TVE 6153

Course Title: Educational Research

**Winter Semester (2022-2023)**

Time : 90 minutes

Full Marks : 75

There are 4 (Four) questions. Answer 3 (three) questions. Question 1 is mandatory. You can choose any two from 2, 3, 4. The symbols have their usual meanings.

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1. a) Distinguish between *Realism* and *Relativism* while considering Ontological view of your research problem by using proper examples. 10
  - b) What are the primary reasons for conducting educational research within the technical, and engineering disciplines? Identify and justify your answer focusing on five major areas in this realm. 15 CO1
  
  2. (a) What is evaluation research? Elaborate on its key features within the realm of technical education with an example. 11
  - (b) Provide your own understanding about the following two quantitative research and bring one example in each case: 14
    - Correlational research CO2
    - Experimental research
  
  3. a) Compare qualitative and quantitative research methodology emphasizing five distinct characteristics that differentiate the two approaches. 15
  - b) Do you agree with the statement that 'subjective research is of lesser importance in the field of technical education'? Please clarify your response with an example. 10 CO2
  
  4. a) Provide your own understanding about Independent, Dependent, and Extraneous Variables. 10 06
  - b) Identify two examples from your own area that shows Independent and Dependent variables. 09 CO2
  - c) Explain how an Extraneous Variable in a research problem can function as an independent variable. Provide a research problem as an illustration to support your explanation.