(4)

Name of the Program: BScTE (3 Year Program) **Date: 10 April 2026, Friday**
Semester: Final Examination **Time: 02.30 PM – 4.30 PM**

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

Final Semester Examination **Summer Semester: 2024 - 2025**
Course Number: TVE 4125 **Full Marks: 120**
Course Title: Methods & Techniques of Teaching **Time: 120 minutes**

There are **4 (four)** questions. Answer all **4 (Four)** questions. The symbols have their usual meaning.

1.	Select a topic from your area of specialization (Computer, Electrical, or Mechanical Engineering) and develop a comprehensive lesson plan that clearly demonstrates the key steps required to ensure effective teaching in technical education.	30	CO3
2.	a) Why is it necessary to use a variety of teaching aids to ensure effective teaching in technical education?	13	CO2
	b) Which teaching aid connects a computer to a projector and a touch-sensitive screen? Discuss its advantages and disadvantages in teaching and learning contexts.	17	
3.	a) How can ICT be utilized by teachers to enhance their pedagogical practices in technical education?	12	
	b) Do you think the use of Artificial Intelligence (AI) in students' learning within TVET is beneficial? Justify your answer.	10	CO2
	c) What ethical practices should students follow when using AI in their learning in technical education?	08	
4.	a) How can extrinsic motivation be transformed into intrinsic motivation among students? Illustrate your answer with a relevant example.	13	CO1
	b) Elaborate on the following key factors that enhance students' motivation in classroom teaching and learning: (i) Active student participation (ii) Use of rewards and recognition (iii) Meeting students' learning needs and satisfaction (iv) Incorporation of visual learning strategies (v) Fostering positive emotions to enhance students' learning and motivation	17	