

Name of the Program: MSc, TE 2nd Sem
Semester: Summer semester

Date: 15 May, 2023, Wednesday
Time: 10:00 am – 1:00 pm

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

Semester Final Examination
Course Number: TVE 6233
Course Title: Online Teaching and learning

Summer Semester: 2022 - 2023
Full Marks: 150
Time: 3 Hours

There are **8 (eight)** questions. Answer **6 (six)** questions. The symbols have their usual meaning.

1. (a) Elaborate the following teaching contexts (teaching mode) considering 10
technical/engineering education with examples.
(i) Blended teaching,
(ii) Online teaching, and
(iii) Face-to-face (conventional) teaching.
(b) Consider you are a faculty member of an institution who would like to introduce 15
online teaching in the coming semester. Identify four areas of difficulties that you may
face for introducing online classes and provide reasons for each of them (consider your
country context).
2. (a) Design a model of e-learning which is compatible in your teaching context (your 15
country). Explain how this model is compatible in your teaching context through three
paragraphs.
(b) What do you understand by the Semantic Web in online teaching and learning 10
(write your answer with examples)?
3. a) The way students interact in face-to-face and online teaching, is not the same, 10
explain this statement with example.
b) Distinguish between *open* and *institutionally supported* technologies with the help 15
of five key features with examples.
4. a) After critically reviewing the *Constructive alignment in university teaching* (John 10
Biggs) paper, discuss briefly the problems in implementing constructive alignment
in your institution.
b) Choose a subject from your area of specialization and design course outcomes 15
(learning outcomes), teaching and learning activities, and assessment that
follow constructive alignment for meeting industrial demand.
5. a) Which one is important to consider first: *pedagogy* or *technology* while you are 13
planning your instruction (blended or online)? Clarify your answer with supporting
argument.
b) Elaborate useful planning strategies for online learning (blended learning class & 12
fully online class) in engineering/technical education?

6. a) How do you ensure students' motivation towards building initial momentum at your online/blended classes in engineering/technical education? 10
- b) Based on teachers' presence at online class, classify different form of online classes and provide clarification of each of them on how to conduct these online classes with related examples. 15
7. a) Identify four major reasons of using online resources in teaching and learning contexts with examples when it is required. 12
- b) Consider, your institution does not have any policy on copyright law in relation to using online resources. Under this circumstance, what will you do when you find an important online resource for your upcoming lecture at post-graduate level? Clarify your answer following international *Copyright law*. 13
8. a) Design an *assessment task* from your area of specialization in your online teaching (by using block diagram) that ensure course learning outcomes (CO). 13
- b) State four challenges in using online assessments and discuss how to overcome those challenges. 12