Progress

Mentor

Course outline

course work?

MATLAB

Introduction

How does an NPTEL online

Overview and Pre-Requisites

Week-1: Background and

Week-2: Linear Algebra

Response Models

Recap of Week-2

Overview

Models

Model

Model Classification

Discrete-Time Models

Discrete-Time Models

Finite Impulse Response

Week 3 Feedback Form : Model Predictive Control: Theory and Applications

Quiz : Assignment 3

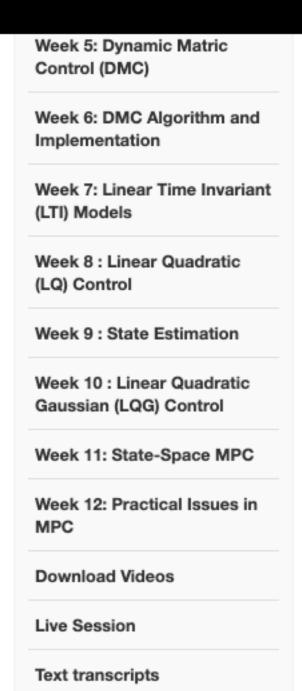
HW-3: MIMO Step Response

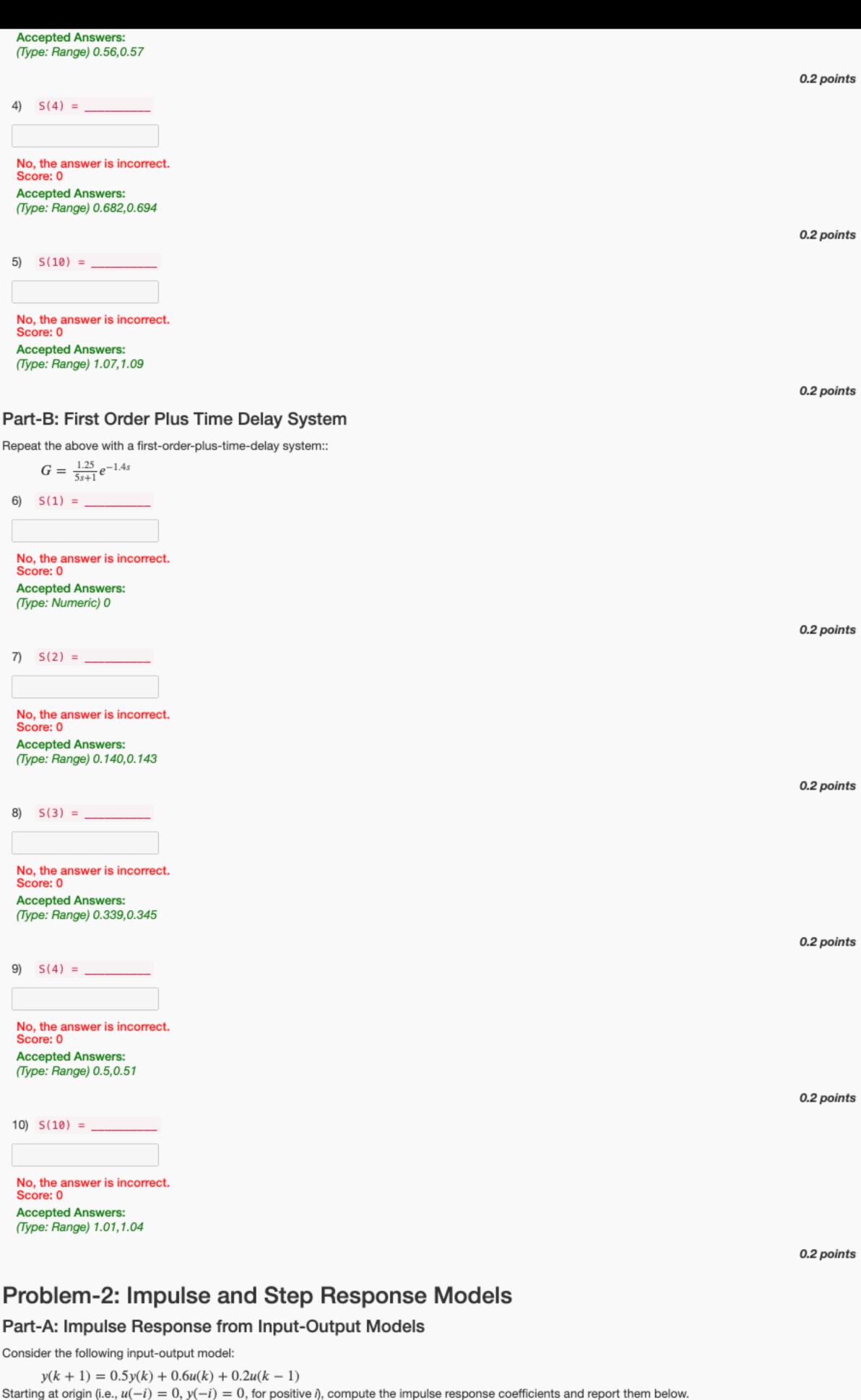
Accepted Answers:

(Type: Range) 0.408,0.416

Finite Step Response Models

Week 3: Discrete-Time Step





Consider the following input-output model:

11) Impulse coefficient, H(1) = _____

No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Range) 0.595,0.605 12) Impulse coefficient, H(2) = _____ No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Range) 0.495,0.505 13) Impulse coefficient, H(3) = _ No, the answer is incorrect.

Accepted Answers: (Type: Range) 0.248,0.252 0.25 points 14) Impulse coefficient, H(4) = _____ No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Range) 0.124,0.126 0.25 points Part-B: Step Response Model

0.25 points

0.25 points

0.25 points

0.25 points

0.25 points

No, the answer is incorrect.

Accepted Answers:

Accepted Answers: (Type: Range) 1.09,1.11

Score: 0

Score: 0

15) Step coefficient, S(1) = _____

18) Step coefficient, S(10) = _____

No, the answer is incorrect.

(Type: Range) 0.595,0.605 16) Step coefficient, S(2) = _____ No, the answer is incorrect.

0.25 points 17) Step coefficient, S(3) = _____ No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Range) 1.335,1.365

Accepted Answers: (Type: Range) 1.58,1.61

Using the results for the above system, compute and report the step response model coefficients below.

Problem-3: Step-Response for MIMO System (2 marks)

This is a subjective type question, and will be manually graded. Please use this link to the Problem Statement and upload your answers there as a single PDF <u>file</u>.