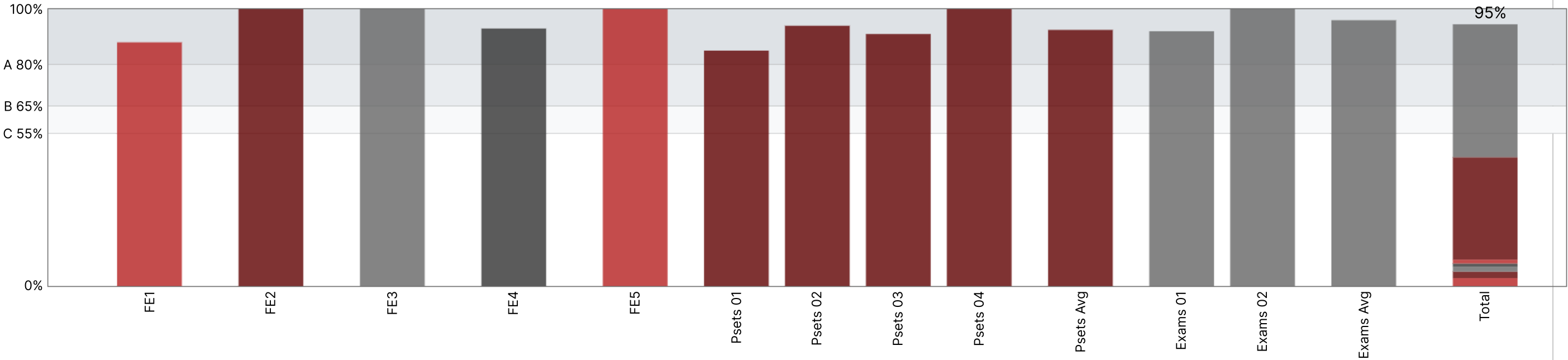


Course Progress for 'sandipan\_dey' (sandipan.dey@gmail.com)



1 Entrance Survey

1.1 Entrance Survey

No problem scores in this section

2 Course Overview

2.1 Overview and Objectives

No problem scores in this section

2.2 Assignments, Grading, and Calendar

No problem scores in this section

2.3 Honor, Collaboration, and Forum Policies

No problem scores in this section

3 Finger Exercises (FE)

3.1 Finger Exercises 1 (FE1) (35/40) 88%

Finger Exercises 1 *due Aug 3, 2023 05:00 IST*

Problem Scores: 0/2 2/2 2/2 2/2 2/2 4/4 5/5 1/1 3/3 1/1 1/1 1/1 1/1 1/1 1/1 1/1  
1/1 1/1 0/1 0/1 0/1 5/5

3.2 FE1 solutions

No problem scores in this section

3.3 Finger Exercises 2 (FE2) (29/29) 100%

Finger Exercises 2 *due Aug 10, 2023 05:00 IST*

Problem Scores: 2/2 2/2 2/2 1/1 1/1 2/2 2/2 4/4 1/1 3/3 2/2 2/2 2/2 2/2 3/3

3.4 FE2 solutions

No problem scores in this section

3.5 Finger Exercises 3 (FE3) (22/22) 100%

Finger Exercises 3 *due Aug 17, 2023 05:00 IST*

Problem Scores: 1/1 1/1 1/1 3/3 2/2 3/3 1/1 1/1 1/1 4/4 4/4

3.6 FE3 solutions

No problem scores in this section

3.7 Finger Exercises 4 (FE4) (14/15) 93%

Finger Exercises 4 *due Sep 7, 2023 05:00 IST*

Problem Scores: 4/4 2/2 1/1 0/1 1/1 1/1 1/1 4/4

3.8 FE4 solutions

No problem scores in this section

3.9 Finger Exercises 5 (FE5) (17/17) 100%

Finger Exercises 5 *due Sep 14, 2023 05:00 IST*

Problem Scores: 1/1 5/5 1/1 1/1 2/2 2/2 5/5

3.10 FE5 solutions

No problem scores in this section

4 Problem Sets

4.1 Problem Set 1 (85/100) 85%

Problem Sets *due Aug 17, 2023 05:00 IST*

Problem Scores: 85/100

4.2 Problem Set 2 (94/100) 94%

Problem Sets *due Aug 24, 2023 05:00 IST*

Problem Scores: 94/100

4.3 Problem Set 3 (94/100) 94%

4.3 Problem Set 3 (91/100) 91%

Problem Sets *due Sep 14, 2023 05:00 IST*

Problem Scores:    91/100

4.4 Problem Set 4 (100/100) 100%

Problem Sets *due Sep 21, 2023 05:00 IST*

Problem Scores:    100/100

5 Exams

5.1 Exam 1 (36.8/40) 92%

Exams *due Aug 30, 2023 05:00 IST*

Problem Scores:    4/4       3/3       1/1       1/1       1/1       2/2       5/5       3/3       3/3       1/3       3/3       1/1       1/1       1/1       2.84/4  
4/4

5.2 Exam 2 (23.5/23.5) 100%

Exams *due Sep 27, 2023 05:00 IST*

Problem Scores:    3/3       1/1       2/2       1/1       1/1       2/2       3/3       1.5/1.5       2.5/2.5       2.5/2.5       2/2       2/2

6 Exit Survey

6.1 Exit Survey

No problem scores in this section

7 A Basic Introduction to Plotting in Python

7.1 Overview of Matplotlib

No problem scores in this section

8 Initial Value Problems, Python Classes, and Discretization

8.1 Time-dependent phenomena and rates of change

No problem scores in this section

8.2 Models of time-dependent phenomena

No problem scores in this section

8.3 Initial Value Problems

No problem scores in this section

8.4 Introduction to Python Classes

No problem scores in this section

8.5 Inheritance

No problem scores in this section

8.6 Linear scalar IVP and exponential solution

No problem scores in this section

8.7 Discretization

No problem scores in this section

8.8 Forward Euler method

No problem scores in this section

9 Convergence, Accuracy, and an IVP Solver

9.1 Towards a General IVP Solver Implementation

No problem scores in this section

9.2 Accuracy and Convergence

No problem scores in this section

9.3 Runge-Kutta Methods

No problem scores in this section

10 Systems of Linear Differential Equations and NumPy

10.1 Systems of Linear Differential Equations

No problem scores in this section

10.2 An Introduction to NumPy and vectorization

No problem scores in this section

10.3 LinSysIVP subclass

No problem scores in this section

10.4 Solving Linear Algebraic Systems of Equations

No problem scores in this section

11 Nonlinear Differential Equations and Root Finding

11.1 Introduction

No problem scores in this section

11.2 Scalar nonlinear IVP and root finding

No problem scores in this section

11.3 Root finding for nonlinear systems

No problem scores in this section

12 Stiffness and Implicit Methods for IVPs

12.1 Stiffness

No problem scores in this section

12.2 Explicit and Implicit Methods

No problem scores in this section

12.3 Implementation of Implicit Methods

No problem scores in this section

13 Introduction to Optimization

13.1 Single-variable Optimization

No problem scores in this section

13.2 Multi-variable Optimization

No problem scores in this section

14 Introduction to Probabilistic Thinking

14.1 Introduction to probabilistic thinking

No problem scores in this section

14.2 Probabilistic Simulation and the Monte Carlo Method

No problem scores in this section

15 Fundamentals of Probability and Statistics

15.1 Terminology

No problem scores in this section

15.2 Fundamentals of Probability

No problem scores in this section

15.3 Statistics and Confidence Intervals

No problem scores in this section