

# **Create a lesson plan for engineering student on system programming. Include an introduction, lesson outline, questioning, assessment, differentiation and plenary. Include links to some video and worksheet resources.**

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## Introduction:

System programming is a crucial part of computer engineering. System programming deals with controlling hardware, processing input and output, and dealing with different types of files. In this lesson, students will learn the basic concepts of system programming, be able to implement them in practice, and understand how they are used in computer engineering.

## Lesson Outline:

- I. Overview of System Programming
  - A. Definitions and Fundamentals (5 min)
  - B. Types of System Programming (5 min)
- II. Practical Application of System Programming
  - A. System Programming Languages (5 min)
  - B. System Calls (10 min)
- III. Examples of System Programming in Computer Engineering (15 min)

## Questioning:

Students will answer questions to better understand the concept and its practical uses. Examples of questions could include:

1. What is the definition of system programming?
2. What are the different types of system programming?
3. What makes up system programming languages?
4. What are some examples of system programming in computer engineering?

## Assessment:

At the end of the lesson, students will write an essay about their understanding of system programming and how it is implemented in computer engineering.

## Differentiation:

For visual learners, provide a diagram showing the different types of system programming. For auditory learners, provide a video recording of the lesson,

allowing students to watch and repeat the concepts themselves. For kinesthetic learners, have them find examples of system programming in engineering by doing a hands-on activity completing a worksheet.

Plenary:

Students will fill out a quiz to assess their knowledge of system programming and how it is implemented in computer engineering.

Resources:

Video: <https://www.youtube.com/watch?v=XoFIPmDXU6Y>

Worksheet: <http://techieupdates.com/wp-content/uploads/2019/06/System-Programming-Worksheet.pdf>