

# COURSE DETAIL

## DIFFERENTIAL EQUATIONS FOR ENGINEERS

**Country**

Germany

**Host Institution**

Technical University Berlin

**Program(s)**

Technical University Berlin

**UCEAP Course Level**

Lower Division

**UCEAP Subject Area(s)**

Mathematics

**UCEAP Course Number**

50

**UCEAP Course Suffix****UCEAP Official Title**

DIFFERENTIAL EQUATIONS FOR ENGINEERS

**UCEAP Transcript Title**

DIFFERENTIAL EQUATN

**UCEAP Quarter Units**

5.50

**UCEAP Semester Units**

3.70

## Course Description

This course covers mathematics relating to differential equations. Topics include ordinary differential equations, systems of differential equations, Laplace transformations and applications, partial differential equations separable solutions, plane waves solutions, Bessel's Equation, Legendre's equation, dynamic systems and boundary eigenvalue problems. Techniques for solving differential equations are used in the context of application to fields of engineering.

## Language(s) of Instruction

German

## Host Institution Course Number

3236 L 022

## Host Institution Course Title

DIFFERENTIAL EQUATIONS FOR ENGINEERS

## Host Institution Campus

## Host Institution Faculty

FAKULTÄT II MATHEMATIK UND NATURWISSENSCHAFTEN

## Host Institution Degree

## Host Institution Department

Mathematik

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