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while making use of

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book introduces  
MATLAB early on and

incorporates it  
throughout the

chapters to perform  
symbolic, graphical,  
and numerical tasks.

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COURSE LAYOUT Week

1: Introduction to  
significant digits and  
errors, Solution of  
system of linear  
Equations (direct  
methods, Iterative  
methods, Ill-  
conditioned systems)

Week 2: Roots of

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Nonlinear Equations  
(Bisection method,  
Regula-Falsi method,  
Newton-Raphson  
method, Fixed point

iteration method,  
convergence criteria

Week 3: Eigenvalues  
and Eigenvectors,  
Gerschgorin circle  
theorem , Jacobi ...

## **Numerical methods - Course**

Given a function or  
system of  
simultaneous functions

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Compute first derivative of the function or Jacobian of the square matrix

Employ Newtons

formulas Insert first value of dependent variable (s) Insert first value of dependent variable (s) Find first root ( $x_{n+1}$ ) let  $x_{n+1} = x_n$  for the subsequent

...

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For Engineering -  
Civil Engineering ...**

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Preface A course in

Numerical Methods in

Computational  
Engineering, oriented  
to engineering

education, originates  
at first from the course

in numerical analysis  
for graduate students

of Faculty of Civil

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Architecture of Nis

(GAF), and then from

course Numer ical

Methods held in

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**University of  
Belgrade**

There are many uses  
for numerical methods  
in engineering.

However, these  
applications are not  
always conveyed to  
students. Perhaps the  
easiest to grasp at all  
levels is that real world  
data often comes in

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the form of discrete data points. These ar...

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Computation PDF is intended as an introduction to numerical methods for scientists and engineers.

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Dr.Ameeya Kumar  
Nayak is Associate  
Professor in  
Department of  
Mathematics at IIT  
Roorkee and actively  
involved in teaching



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and research in the direction of numerical modeling of fluid flow problems for last ten years. His research

interests are in the fundamental

understanding of species transport in macro and micro-scale confinements with applications in biomedical devices and micro electro ...

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Course**

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Numerical methods for scientific and electrical engineering applications • This

course is about concepts, methods, and algorithms. It is (and should be) hardware -and- software-agnostic. •

Once you master the fundamentals, you can apply what you learn on any platform & IDE of your choice.

**ECE3340 Numerical**

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