OpenLearn | Free learning from The Open University

The Open University

Statement of participation

Mukunda Nath

has completed the free course including any mandatory tests for:

Introduction to finite element analysis

This 7-hour free course introduced finite element analysis. It used the case of a racing car tub as an illustration, along with practical exercises.

Issue date: 9 April 2019

www.open.edu/openlearn

This statement does not imply the award of credit points nor the conferment of a University Qualification.
This statement confirms that this free course and all mandatory tests were passed by the learner.

Please go to the course on OpenLearn for full details:
https://www.open.edu/openlearn/science-maths-technology/introduction-finite-element-analysis/content-section-0

COURSE CODE: **T804_1**

Introduction to finite element analysis

https://www.open.edu/openlearn/science-maths-technology/introduction-finite-element-analysis/content-section-0

Course summary

What is finite element analysis (what is it and why do we carry it out? This free course, Introduction to finite element analysis, introduces the essence of finite element analysis. As an example of its use, you will look at the case of FEA of the tub of a racing car. You will also have the opportunity to try out two exercises to carry out a simple analysis of a plate and a square beam.

Learning outcomes

By completing this course, the learner should be able to:

- present some basic theory of FEA
- introduce the general procedures that are necessary to carry out an analysis
- present basic information that is necessary for the safe use of FEA.

Completed study

The learner has completed the following:

Section 1

Finite element analysis

Section 2

Case study

Section 3

FEA exercises

Section 4

Conclusion