

# Calculus as Gaṇita

MA 595 Elective 3 credit course

IIT Mandi, from Aug 2025

## Do you know your limits?

Did you know calculus originated in India? Watch the video of C. K. Raju's lecture on calculus at MIT

(<https://youtu.be/IaodCGDjqzs>). Europeans stole it in the 16th c. but struggled to intellectually grasp calculus just as they had earlier struggled till the 19th c. to grasp the Indian primary-school arithmetic ("Arabic numerals") they imported since the 10th c. They eventually invented an inferior way to understand calculus using "real" numbers and limits. The original Indian calculus is easier and better. It is well adapted to computers. You can use it to solve harder problems not covered in usual calculus courses today.

- For PhD/MTech(R)/MTech/MSc/BTech 3rd/4th year students
- Prerequisite: Calculus-1

## What will you learn?

- Calculus as the *gaṇita* of differential equations.
- Abstract at <https://tinyurl.com/calc-ganita>.
- Detailed course contents at <https://tinyurl.com/calc-cont>.



- Or scan QR codes:

