

NOC: Basic Calculus for Engineers, Scientists and Economists - Video course

COURSE OUTLINE

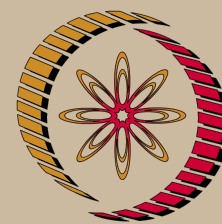
This course in basic calculus intends to equip the engineering and science with the mathematical tools that they would primarily require for their studies. The emphasis is on understanding the concepts through examples and exercises. There will be no detailed proof of results unless it is very simple.

COURSE DETAIL

Week. No.	Topics
1	Numbers, Functions, Sequences and Limits of Functions
2	Continuity, Derivative, Maxima and Minima and Taylor's expansion
3	Integration of Real Functions
4	Function of two variables, Continuity and Differentiability, Lagrange Multiplier Rule.
5	Infinite Series and Multiple Integrals.

References:

- Thomas's Calculus, Eleventh Edition. (M. D. Wier, J. Hass, F. R. Giordano).
- Reference Calculus by M. Spivak.



NP-TEL

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<http://nptel.ac.in>

Mathematics

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