

Course Name:

Advanced engineering mathematics

Course Number:

20014

Credit:

3

Course Content (outline):

1. Tensor analysis
2. Calculus of variations
3. Fourier series
4. Fourier transform
5. Partial differential equations
6. Complex variables

References:

- Lai, W. Michael, David Rubin, and Erhard Krempf. Introduction to continuum mechanics Butterworth-Heinemann, 2009.
- Malvern, Lawrence E. Introduction to the Mechanics of a Continuous Medium. No. Monograph. 1969.
- Kreyszig, Erwin. Advanced engineering mathematics John Wiley & Sons, 2007.
- Greenberg, Michael D. Advanced Engineering Mathematics, 2/E. Pearson Education India, 1998.