Computational Physics

Tentative course schedule of topics to be covered and evaluation scheme:

Tentative Timeline	Module no. and name	Marks
Jan 5 -9 (1 week)	Module 1 (Basics of programming with Fortran)	10
Jan12 – 23 (2 weeks)	Module 2 (Stochastic Integration)	10
Jan26 – Feb13 (2.5 weeks)	Module 3 (Monte Carlo Ising)	10
Feb16 – March 11 (2.5 weeks) *	Module 4 (Differential equations for classical systems)	15
March12 – March 25 (2 weeks)	Module 5 (Partial differential equations for Quantum systems)	10
March26 – April 10 (2.5 weeks)	Module 6 (MD with Lennard Jones)	15
April13 – April 17	Viva	30
Total marks		100

* Considering midsem exam time.