Course Name:  
Random vibration of structural systems  

Course Number:  
20156  

Credit:  
3  

Course Content (outline):  

2. Analysis of Stochastic Processes (Stationary, Ergodic, Gaussian, …)  
3. Models of Random Excitations  
4. Structures with Single-Degree-of-Freedom (SDOF)  
5. Response of Linear MDOF Systems; multiple inputs and outputs  
6. Time Domain and Frequency Domain Analyses  
7. Review of Error Estimation  
8. Introduction to Signal Processing  
9. Design of structures for Random Excitations  