University of Petroleum and Energy Studies, Dehradun

Workshop on

Mathematical Analysis and Design of Vibration and Shock Isolation Systems in Engineering Focusing Aerospace Engineering

Date: Nov 06-07, 2012

The department of Mathematics is organizing a one day workshop for the budding aerospace engineering students of our university. Mathematics is an integral part of their entire curricula.

The study of mathematics and mathematical modeling of the dynamic behavior of systems and designing them is desirable in any engineering branch. This applies to the dynamic behavior of aircraft, spacecraft, propulsion systems, and subsystems that exist on aerospace vehicles.

The subject of vibrations is a specialized area of dynamics. Dynamics is concerned with the motion of physical systems. Vibrations are concerned with the motion of a system in the form of oscillation or repetitive motion relative to a reference state.

The department of Mathematics is taking initiatives to organize series of workshop on mathematical analysis and design of vibration and shock isolation systems in engineering focusing aerospace Applications.

Schedule of Workshop

S.No.	Session	Time	Topics to be covered
1	Inauguration of Workshop	15.00-15.10	**Mathematics as backbone of any engineering discipline** **Mathematical Analysis in Engineering** **Thrust Area:** a. **Vibration** b. **Shock** c. **Shock-Isolation** d. **Vibration-Isolation Systems** e. **Shock-Isolation Systems** f. **Applications of Vibration Engineering** **Mathematical Analysis and Design of Vibration and Shock Isolation Systems in Engineering Focusing Aerospace Applications.**
2	**Session – 1: Nov 06, 2012** Room Number : 2003 B. Tech. ASE-VII and AVE-VII	15.10-18.00	
3	**Session – 2: Nov 07, 2012** Room Number : 6105 B. Tech. ASE-V and AVE-V	14.00-17.00	
4	Campus and Lab visit: Nov 06, 2012	14.00-15.00	
5	Interaction with Aerospace and Avionics Faculty: Nov 07, 2012	13.00-14.00	