

## **Micro Electro Mechanical Systems (RP 4.2.34)**

Introduction to MEMS , MEMS applications in Electronic, Automotive and Biomedical Industry (2)

Mechanics of Materials, stress, strain, material properties, cantilevers, membranes (2)

Fundamentals of fluid mechanics, viscosity, density, surface tension, continuity equation, flow types (2)

Microelectronic technologies for MEMS, Surface and Bulk Micromachining, wafer bonding (2)

MEMS sensors and actuators (2)

MEMS Simulation: Finite Element Analysis methods, Design of MEMS devices using standard simulation software (Practical)