



Biofluid Mechanics Research Lab Equipment

1) PTV Particle Tracking Velocity meter setup;

SIEMENS®

For flow behavior visualization in microscale

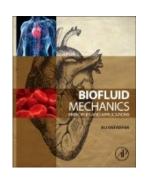
Y) Permanent magnet setup; Used in magnetic drug targeting studies

۳) Turbidity meter;

Hach® 2100 P

Used for measuring concentration of micro/nanoparticles in biofluids





٤) Nano materials;

Sigma-Aldrich® Merck®



ه) Data logger;

OMEGA OM-SQ2010 Used for temperature, resistance. Voltage, etc. measurement



٦) Syringe pump;

Used for measuring flow rates of biological fluids



Y) Peristaltic pump;

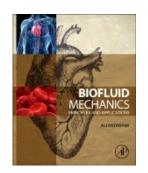
Longer pump BT100-2J

Flow rate range:

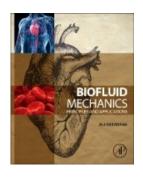
', ' ' Ml/min- Th' ml/min

Used for measuring flow rates of biological fluids





^) Bath Ultrasonic; SONICA Soltec S3 Used in nanofluids preparation 4) Magnetic heater; Used in nanoparticle synthesis ۱۰) ۳-digit magnetic scale; AND 0.001 gr 11) Varius types of temeperature sensors;



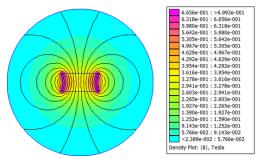


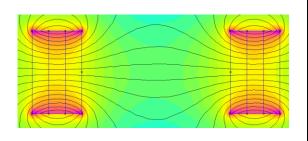
Software:

FEMM®;

Finite Element Method Magnetics

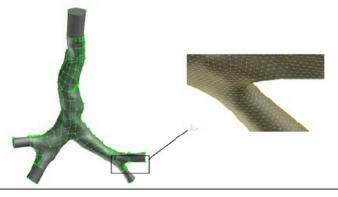
Used for simulating magnetic fields present during magnetic particles flow





ANSYS FLUENT®;

Used for simulating flow and particle behavior in arteries, lung, etc.



™D Doctor®;

Used for reconstruction of CT-scan images for numerical studies

