

NEAR EAST UNIVERSITY

FACULTY OF ENGINEERING

BIOMEDICAL ENGINEERING DEPARTMENT

Research Interest May 2017

Assoc. Prof. Dr. Fa`eq Radwan

1. Computational Mathematics, solutions of differential equations, system of differential equations, and partial differential equations Numerically using computer.
2. Isotropy and anisotropy of materials.
3. Using irreducible Cartesian tensors to study the physical properties of maters.
4. Studying the isotropy and anisotropy of different types and parts of bones and their elastic constants of human and animals.
5. Mathematical modeling and total replacement of human joints.
6. Bioeffects and therapeutic applications of electromagnetic energy.