جامعة كفر الشيخ كلية التربية قسم الرياضيات		المادة: رياضيات تطبيقية(ا) -ديناميكا تحليلية الفرقة: الثالثة-تربية عام

Rite on one of the following object

(1) The free and constrained systems, Holonomic and non-holonomic system, the motion of a rigid body passing an axis of symmetry rotating about a fixed point in space and in the rigid body itself.

(2) Stationary and non-stationary system, virtual and real displacements, the motion of a rigid body rotating about its centroid G as a fixed point in space and in the rigid body itself.

(3) The free and constrained systems , Stationary and non-stationary system, the LaGrange equations for the motion of a holonomic system of **n** generalized coordinates with some of examples

(4) Eulerian angles, Holonomic and non-holonomic system, the motion of a rigid body rotating about a fixed point 0 under the action of its weight (mg).

(5) Holonomic and non-holonomic system, thee generalized coordinates, the virtual work and generalized forces acceleration, the motion of a rigid body passing an axis of symmetry rotating about a fixed point in space and in the rigid body itself

(6) Eulerian angles, then give some of examples that shows how to use it in the Solution, The free and constrained systems , virtual and real displacements.

(7) The free and constrained systems, virtual and real displacements, the LaGrange equations for the motion of a holonomic system of **n** generalized coordinates with some of examples

(8) Eulerian angles, virtual and real displacements, thee generalized coordinates, the motion of a rigid body rotating about a fixed point 0 under the action of its weight (mg).

(9) Eulerian angles, Holonomic and non-holonomic system,, the motion of a rigid body rotating about its centroid G as a fixed point in space and in the rigid body itself

مع خالص تمنياتي لكم بالتوفيق والنجاح