Republic of Iraq
The Ministry of Higher Education & Scientific Research

University: Al-Muthanna
College: Science
Department: Physics
Stage: MSc.
Lecturer name: Mwafaq F. J. and Ali S. Ali
Academic Status: Assist. Prof.
Qualification:
Place of work: Physics dept.

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Teaching plan (Adv. Nanotechnology) for MSc for the semester form

week	Date	Topics Covered	Notes
1	19/2/2019	Introduction of Nanotechnology and Nanoscience	Ch-1-
2	26/2/2019	Nanomaterials Techniques: Top-Down Approaches 1	Ch-1-
3	5/3/2019	Nanomaterials Techniques: Top-Down Approaches 2	Ch-1-
4	12/3/2019	Nanomaterials Techniques: Top-Down Approach 3	Ch-2-
5	19/3/2019	Nanomaterials Techniques: Bottom-Up Approach 1	Ch-2-
6	26/3/2019	Nanomaterials Techniques: Bottom-Up Approaches 2	Ch-2-
7	2/4/2019	Nanomaterials Techniques: Bottom-Up Approaches 3	Ch-3-
8	9/4/2019	Characterization Tools of Nanomaterials: Introduction	Ch-3-
9	16/4/2019	DeBroglie wave length, exiton Bohr radius	Ch-4-
10	23/4/2019	Confinement, Dimension of confinement	Ch-4-
11	30/4/2019	Particle in a 1D finite box, Dimensions of confinement	Ch-4-
12	7/5/2019	Particle in an infinite circular box, Particle in an infinite potential box	Ch-4-
13	14/5/2019	3D of confinement, Particle in an infinite spherical box	Ch-4-
14	21/5/2019	Density of state, Bulk, 2D	Ch-5-
15	28/5/2019	DOS 1D, 0D	Ch-5-

Instructor Signature: **Dean Signature:**