

## Course outline for physics-145 (Spring 2014)

### Text book:

Physics  
Kane and Sternheim  
Third edition, Wiley  
ISBN 0-471-63845-5

Chapter	Hours	Section	Title	Exercises and problems (*)
1	3	2,3,4,5	Motion in a Straight Line	<u>16,17,26,28,33,38,43,71,72,77,80</u>
2	1	1	Vectors ( Components)	1,2,4,5,7,9,13
3	4	3,4,5,6,8,12	Newton's Laws of Motion	<u>47,50,51,55,87,90,91,100,102,103</u>
6	4	1,2,3,4,6,9	Work, Energy and Power	<u>1,2,8,10,19,63,70,72,74</u>
13	3	2,3,4,7	The Mechanics of Nonviscous Fluids	<u>7,9,10,11,32</u>
17	2	1,2,5,12	Direct Currents	<u>1,10,11,13,18,24,25,45,46,71</u>
24	4	1,2,3,4	Mirrors, Lenses and Imaging Systems	<u>2,5,7,11,13,19</u>
26	2	1,3	Particle Propertis of Light ( The Photon)	<u>1,3,4,6,16,17,19</u>
30	3	1,2,9	Nuclear Physics	<u>1,2,4,8,11,36,43</u>
31	2	1,2	Ionizing Radiation	<u>14,16,17,23,29,47</u>

(\*: Underlined exercises will be done in the classroom)

Course Description: <http://fac.ksu.edu.sa/nbennessib/home>

### Marks distribution:

- 1) Two midterm exams each 15 marks-----= 30 marks
- 2) Class activities-----= 0 marks
- 3) Practical work (Lab.)-----= 30 marks
- 4) Final exam-----= 40 marks

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Total-----= 100 marks

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Sections Ditribution in Exams: Mid. Term. (1): CH1, CH2, CH3 AND CH6

Mid. Term. (2): CH13, CH17 AND CH24

Final: ALL THE 10 CHAPTERS (CH1-CH31)