Course specification

University/Academy: Damanhour
Faculty/Institute: Science
Department: Chemistry

1. course Data:

<table>
<thead>
<tr>
<th>Course code:</th>
<th>Course title:</th>
<th>Academic year/level:</th>
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| Biochem.423  | Hormones     | 2010/2011
|              |              | Fourth year – First |
|              |              | semester             |

Specialization:
Chemistry/biochemistry

<table>
<thead>
<tr>
<th>No. of instructional units:</th>
<th>lecture</th>
<th>tutorial</th>
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<tr>
<td>course</td>
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<td>1</td>
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2. course Aim
The broad knowledge of Hormone characteristics, mechanism of hormonal action, and regulation of hormonal secretion in view of endocrine disorders. The relation between hormonal function and structure. The hormonal system. Tissue hormones, Neurotransmitters, their types, their mechanism of action, and disorders.

3. Intended learning outcome

a) Knowledge and understanding
a1-describe the chemical nature of hormones.
a2-define and explain the relationship between structure and function of hormones.
a3- indicate quantitative aspects of hormonal action in relation to endocrine disorder.
a4- discuss the role of hormones as a regulatory factor of a living system.
a5- classify and describe the neurotransmitters and their relation with some diseases and drug addiction.

b) Intellectual skills
b1-apply and development of analytical skills for endocrine problems and solutions.
b2-use and management of analytical aspects of hormone assay methods in view of interaction problems.

c) Professional skills
None

d) General skills
d1-Communicates ideas, principles, theories and information by oral, written and visual means.
4. **course content**

- General characteristics of hormones.
- General mechanism of hormonal action.
- Pituitary and hypothalamic hormones.
- Thyroid hormones.
- Hormones that regulate calcium metabolism.
- Hormones of the adrenal cortex.
- Hormones of the adrenal medulla.
- Hormones of the gonads.
- Pancreatic Hormones (Non-endocrine hormones)

5. **Teaching and learning methods**

1- Lectures, Library search.
2- Case studies, Problems
3- Course work, essay

6. **teaching and learning methods**

6.1 Stating the day's objectives at the beginning of the class.
6.2. Providing examples and identifying things that are not examples.
6.3. Printing out copies of overheads and make them available to students.

7. **Student Assessment**

a) **Procedures used:**

1- Written exam (to assess Knowledge and understanding)

**Assessment Schedule**

Assessment 1 Final term written week 18

**Weighting of Assessment**

- Final-term Examination: 100%

**Total** 100%

b) **Schedule:**

Assessment 1 Final-Term Examination Week16

c) **Weighting of Assessment:**

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Weighting</th>
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<tbody>
<tr>
<td>Mid-Term Examination</td>
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<tr>
<td>Final-Term Examination</td>
<td>100 %</td>
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<tr>
<td>Oral Examination</td>
<td>0 %</td>
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<tr>
<td>Practical Examination</td>
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<tr>
<td>Semester Work</td>
<td>0 %</td>
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<tr>
<td>Other types of assessment</td>
<td>0 %</td>
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**Total** 100%

8. **List of Textbooks and References:**

a) **Course Notes**

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<tr>
<td>Recommended Books</td>
<td>Basic and Clinical Endocrinology.</td>
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<td></td>
<td>Text book of biochemistry, T M Devlin</td>
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<tr>
<td>Periodicals, web sites, etc</td>
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Course Instructor: --------
Head of Department: Dr. Medhat A.

Shaker Date: -----/-/-/----