# COURSE SPECIFICATIONS for M.V.Sc

**University:** Benha  
**Faculty:** Veterinary Medicine

## Course Title
Physiology of nervous system, special senses, nerve and muscle

## Code
21

## Department offering the course
Department of Physiology.

## Program(s) on which the course is given
- Master Degree of Veterinary Medical Sciences (Animal physiology).

## Academic year / Level
2011-2012

## Date of specification approval
2012

## A- Basic Information

Adapted by the faculty committee for formulating the academic standard for post-graduate using the generic guidelines for post-graduate adapted by NAQAAE.

## Credit Hours

<table>
<thead>
<tr>
<th>Lecture: 2</th>
<th>Tutorial:</th>
<th>Practical: 2</th>
<th>Total: 4/w</th>
</tr>
</thead>
</table>

## B- Professional Information

1. **Overall Aims of Course**
   - a-To ensure that students reserve a comprehensive theoretical base in physiology of nervous system and excitable tissues.
   - b-To provide students with knowledge, skills and confidence to enable them to pursue a career in the field of animal diseases related to these systems.

2. **Intended Learning Outcomes of Course (ILOs)**

### A-Knowledge and Understanding:

1. to know structure of nervous system.
2. to know autonomic and central nervous system
3. to know reflex action(reflex arc,properties,function)
4. to know difference between miosis and mydrasis and corneal reflex
5. to know types of muscle simple muscle twitch ,muscle contraction
B-Intellectual Skills

bl-To deal with nervous system in males, different structure
b2-To compare the physiological effects and mechanism of action of
nervous regulating body functions.
b3-To discuss the subjects related to nervous in the form of seminars,
reports and presentations.

C-Professional and Practical Skills:
c1-To demonstrate practical skills in handling muscle.
c2-To undertake advanced laboratory techniques used for corneal reflex

D-General and Transferable Skills
d1-To summarize research findings in oral form in seminars and
workshops.
d2-To communicate effectively with supervisors.
d3-To demonstrate information retrieval and library skills.

E- Attitude
el-To be kind with animals during experimentation and sacrifice.
e2-To respect his profession and encourage cooperation with colleagues in
relevant departments.

3. Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>No. of hours</th>
<th>Lecture</th>
<th>Tutorial/Practical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autonomic nervous system</td>
<td>20</td>
<td>20</td>
<td>-</td>
</tr>
<tr>
<td>C.N.S</td>
<td>35</td>
<td>12</td>
<td>23</td>
</tr>
<tr>
<td>Reflex action</td>
<td>45</td>
<td>15</td>
<td>30</td>
</tr>
<tr>
<td>Eye,</td>
<td>45</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Ear (auditory organ)</td>
<td>11</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>Smelling, touch</td>
<td>20</td>
<td>15</td>
<td>5</td>
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</tbody>
</table>
The total hours are distributed over 44 weeks with 4 hours per week that gives a total of 176 hours

4- Teaching and Learning Methods:

4.1-lectures

4.2-Practical

4.3-reports

4.5- Review article

4.6- seminars

5- Student Assessment Methods:

5.1 practical exam to assess practical skills

5.2 oral examination to assess ability to demonstrate his knowledge

5.3 final exam to assess different skills

Assessment Schedule

<table>
<thead>
<tr>
<th>Assessment 1</th>
<th>Week</th>
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<tbody>
<tr>
<td></td>
<td>42th</td>
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</table>

<table>
<thead>
<tr>
<th>Assessment 2</th>
<th>Week</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>44th</td>
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</table>

<table>
<thead>
<tr>
<th>Assessment 3</th>
<th>Week</th>
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<tbody>
<tr>
<td></td>
<td>44th</td>
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</table>

Weighting of Assessments

<table>
<thead>
<tr>
<th>Final-term Examination</th>
<th>50%</th>
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</thead>
<tbody>
<tr>
<td>Oral Examination</td>
<td>25%</td>
</tr>
<tr>
<td>Practical Examination</td>
<td>25%</td>
</tr>
</tbody>
</table>

Other types of assessment

Total 100%

6- List of References

7.1- Course Notes
    Veterinary Physiology.

7.2- Essential Books (Text Books)

7.3- Recommended Books

6.4- Periodicals, Web Sites, … etc
    Veterinary Journal
    Journal of Veterinary Internal Medicine.
    Veterinary Record.
8- Facilities Required for Teaching and Learning

| Data show, TV |
| Library |

Course Coordinator: Prof. Dr/ Mohamed ElSayed Azab
Head of Department: Prof. Dr/ Mohamed ElSayed Azab
Date: / /2012