



## ANIMAL BEHAVIOR AND WELFARE

Study programme: MIMV    Curricular Year: 2<sup>st</sup>    Semester: 3<sup>rd</sup>    Compulsory    ECTS: 5.0  
Lecturer: Ilda M. N. Gomes Rosa (CCP) (R)

### 1. Contact hours:

Lectures: 28 h – Practicals: 28 h; Total – 140 h

### 2. Objectives:

Identify the abnormal behaviours in the animal production species and the pets, understanding the source and the development of those behaviours in order to prevent and treat them. Recognize and interpret the signs of welfare, discomfort and pain, knowing its physiological basis and its effects in the social and productive animal behaviour. Know animal handling and restraint techniques, and acquire training methodologies also how to transport animals. Respect the animal welfare.

### 3. Programme:

Theoretical: Physiology of behaviour. Social behaviour. Behaviour organization. Feeding behaviour. Stress and welfare. Sexual behaviour. Clinical behaviour. Abnormal behaviour. Animal welfare in general and specifically. Cattle behaviour and welfare. Horse behaviour and welfare. Sheep and goat behaviour and welfare. Pig behaviour and welfare. Poultry behaviour and welfare. Cat behaviour and welfare. Dog behaviour and welfare.

Practical; Animal welfare case studies. Animal observation. Animal handling. Animal restraint. Animal transportation. Animal training. Environmental enrichment.

### 4. Bibliography:

- Fraser, A F. & Broom, D.M. (1997). *Farm Animal Behaviour and Welfare*. Cab Internat, N.Y.
- Fraser, D. (1999). Animal ethics and animal welfare science: bridging the two cultures. *Applied Animal Behaviour Science*, 65, 171-189.
- Gomes Rosa, I.M.N. (2014). *Protocolo das aulas práticas*. F.M.V. Lisboa.
- Moberg G.P. & Mench J.A. (ed.) (2000), *The Biology of Animal Stress. Basic Principles and Implications for Animal Welfare*. CABI Publishing, UK.
- O' Farrell, V. (1992). *Manual of Canine Behaviour* BSAVA. Christopher St. C. Ross.
- O' Farrell, V., Neville, P. (1994). *Manual of Feline Behaviour*, BSAVA. Christopher St. C. Ross.
- Odendaal, J.S.J. (1998). Animal welfare in practice. *Applied Animal Behaviour Science*, 59, 93-99.
- Overall, K.L. (1997). *Clinical Behavioral Medicine for Small Animals*. Mosby, St. Louis, USA.
- Short, C.E. (1998). Fundamentals of pain perception in animals. *Applied Animal Behavior Science*, 59, 125-133.
- Webster, J. (ed.) (2011). *Management and welfare of farm animals*. UFAW Animal Welfare Series. Wiley-Blackwell.
- Grandin, T. (2014). *Livestock Handling and Transport*. CAB INTERNATIONAL, New York.

### 5. Assessment:

The assessment of the theoretical and practical components will be accomplished through a written examination with open-ended questions in which students solve problems