

Class: Chemical and Sensorial Analysis of Foods

Coordinator: Raul Bruno de Sousa (50%)

Other instructors: José Manuel Baptista Gouveia (50%)

Requirements: General Chemistry and Biochemistry

Semester:

Number and type of hours of teaching: 6 (2x3) hours/week; theoretic-practical lessons

Program	Duration	Instructors
General laboratory considerations Considerations about the use of the reagents Steps in a chemical analysis. Evaluation and interpretation of the results	3 x 6 hours	R. Bruno de Sousa
Water in foods. Determination of Moisture	6 hours	R. Bruno de Sousa
Nitrogenous compounds in foods. Determination of Total Protein	6hours	R. Bruno de Sousa
Carbohydrates in foods. Determination of Total Carbohydrates	6hours	R. Bruno de Sousa
Lipids in foods. Determination of Total Lipids	6hours	R. Bruno de Sousa
Minerals in foods. Determination of ash. Determination of mineral elements	3hours	R. Bruno de Sousa
Vitamins.. Vitamins Assays.	3hours	R. Bruno de Sousa
Organoleptic characteristics of foods.	3hours	José Gouveia
Sensorial Metrology: The subjective and the objective. The Panel Test as an objective method to evaluate organoleptic characteristics	3hours	José Gouveia



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Lei de Weber and limits of perception.	3hours	José Gouveia
Senses Physiology: Sight, odour, taste, touch and hearing. Factors that affects the sensory properties	3hours	José Gouveia
The work conditions of the Panel Test: the sensory lab, general methodologies, samples preparation, psicophysiological control conditions, rules for panellists attitudes. The panel manager	3hours	José Gouveia
The panellists: selection methods, panellists training; notion of average absolute threshold.	3hours	José Gouveia
Tastes and panel types	3hours	José Gouveia
Resolution of simple problems; schematic description of main methods.	3hours	José Gouveia
Statistic applied to sensorial analysis. Evaluation form of different foods and data analysis.	3hours	José Gouveia
Sensorial analysis glossary	3hours	José Gouveia
Final discussion about the Curricular Unit	3hours	R. Bruno de Sousa; José Gouveia
Final evaluation	6hours	R. Bruno de Sousa; José Gouveia