General Information

Course name and code	**Plant Biotechnology ÚBEV/BTR1/06**	**ECTS Credits**	**6**
		Semester	**1st (Winter) Bachelor, Master and Doctoral Degree**

Aims

To gain theoretical and practical knowledge on plant tissue culture *in vitro*.

Contents

Genetics and physiology of plant cell and tissue culture, protoplasts, embryoids and organs cultured *in vitro* under sterile conditions. Use of tissue culture in research and praxis. Cryopreservation of plant cells and tissues. Immobilised plant systems. Genetic transformation of plants and expression of foreign genes.

Assessment Methods and Criteria

Protocols, oral examination.

Grading Scale (in %): A ... 100 - 91%, B ... 90 - 81%, C ... 80 - 71%, D ... 70 - 61%, E ... 60 - 51%, Fx ... < 51%

Grading System:
The University recognises the following six degrees for the evaluation of the study results:
a) A – excellent (excellent results) (numerical value 1)
b) B – very good (above average results) (1.5)
c) C – good (average results) (2)
d) D – satisfactory (acceptable results) (2.5)
e) E – sufficient (results meet the minimum criteria) (3)
f) FX –failed (requires further work) (4)

Bibliography

Slater A. et al.: Plant Biotechnology. Oxford University Press 2008, 376 pp.
Wink M. (Ed.): An Introduction to Molecular Biotechnology. Willey-Blackwell, 2011, 601 pp.
Periodicals and Internet sources.