University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ PVS/04	Course name: Author's patents, discoveries, software			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:			
Number of credits: 2				
Recommended seme	ster/trimester of the cour	se:		
Course level: III.				
Prerequisities:				
<b>Conditions for cours</b>	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asses	ssed students: 1			
abs n				
100.0				
Provides:				
Date of last modifica	tion: 13.02.2014			
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ C

Course name: Biology of Plant Symbioses

BRS1/03

Course type, scope and the method:

Course type: Lecture

Recommended course-load (hours): Per week: 2 Per study period: 28

Course method: present

Number of credits: 3

Recommended semester/trimester of the course:

Course level: II., III.

**Prerequisities:** 

**Conditions for course completion:** 

### **Learning outcomes:**

Introduction to biology and ecology of plant symbioses.

#### **Brief outline of the course:**

Morphological, cytological, physiological and biochemical aspects of the best known examples of plant symbioses. Lichens, mycorrhiza, symbiosis of flowering plants with nitrogen fixing bacteria, coral reefs symbioses and endosymbioses.

### **Recommended literature:**

Van den Hoek, C. a kol. 1995: Algae, an introduction to phycology,

Deacon, J.W. 1997: Modern Mycology

### Course language:

**Notes:** 

### Course assessment

Total number of assessed students: 352

A	В	С	D	Е	FX	N	P
98.86	0.0	0.0	0.0	0.0	0.0	0.0	1.14

Provides: prof. RNDr. Martin Bačkor, DrSc.

Date of last modification: 13.02.2014

University: P. J. Šafárik University in Košice							
Faculty: Faculty of S	Faculty: Faculty of Science						
Course ID: ÚBEV/ CM/04	Course ID: ÚBEV/ Course name: Citation in monograph						
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:						
Number of credits: 2	20						
Recommended seme	ster/trimester of the course:						
Course level: III.	Course level: III.						
Prerequisities:	Prerequisities:						
Conditions for cours	se completion:						
Learning outcomes:							
Brief outline of the c	course:						
Recommended literature:							
Course language:							
Notes:							
Course assessment Total number of assessed students: 0							
Provides:							
Date of last modification: 13.02.2014							
Approved: prof. RNDr. Pavol Mártonfi, PhD.							

University: P. J. Šafárik University in Košice						
Faculty: Faculty of S	Faculty: Faculty of Science					
Course ID: ÚBEV/ CZC/04	Course name: Citation in scientific journal published abroad					
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:					
Number of credits: 1	0					
Recommended seme	ster/trimester of the cours	e:				
Course level: III.						
Prerequisities:						
Conditions for cours	e completion:					
Learning outcomes:						
Brief outline of the c	ourse:					
Recommended litera	iture:					
Course language:						
Notes:						
Course assessment Total number of assessed students: 20						
abs						
100.0 0.0						
Provides:	Provides:					
Date of last modifica	tion: 13.02.2014					
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.					

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚBEV/ CDC/04	<b>Course name:</b> Citation in scientific journal published in the country of residence				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of credits: 5	5				
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	nture:				
Course language:					
Notes:	,				
Course assessment Total number of assessed students: 5					
abs					
100.0 0.0					
Provides:					
Date of last modification: 13.02.2014					
Approved: prof. RNDr. Pavol Mártonfi, PhD.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ SCI/04	Course name: Citation reg	Course name: Citation registered in Science Citation Index			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:				
Number of credits: 2	20				
Recommended seme	ster/trimester of the cours	e <b>:</b>			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
<b>Learning outcomes:</b>					
Brief outline of the c	ourse:				
Recommended litera	ature:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 30				
abs n					
100.0 0.0					
Provides:					
Date of last modifica	tion: 13.02.2014				
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.				

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ DK/04	Course name: Conference in the country of residence				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent				
Number of credits: 2		,			
Recommended seme	ster/trimester of the cours	2:			
Course level: III.					
Prerequisities:					
Conditions for cours	e completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of assessed students: 79					
abs					
100.0 0.0					
Provides:					
Date of last modification: 13.02.2014					
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ SMPR/04	Course name: Co-worker of project supported by international grant schemes			
Course type, scope a Course type: Recommended course week: Per stud Course method: pre	rse-load (hours): ly period:			
Number of credits: 1	.5			
Recommended seme	ster/trimester of the cours	se:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 31			
abs n				
100.0 0.0				
Provides:				
Date of last modification: 13.02.2014				
Approved: prof. RNDr. Pavol Mártonfi, PhD.				

University: P. J. Šafárik University in Košice					
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ SDPR/04	Course name: Co-worker of project supported by national grant schemes				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:				
Number of credits: 2	2				
Recommended seme	ster/trimester of the cours	e:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 266				
abs					
100.0 0.0					
Provides:					
Date of last modifica	ition: 13.02.2014				
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.				

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ | Course name: Cytogenetics and Karyology

CK1/03

Course type, scope and the method: Course type: Lecture / Practice

Recommended course-load (hours): Per week: 1 / 2 Per study period: 14 / 28

Course method: present

Number of credits: 4

### Recommended semester/trimester of the course:

Course level: II., III.

### **Prerequisities:**

### **Conditions for course completion:**

written tests, protocols, oral examination

### **Learning outcomes:**

To gain knowledge and experience in genetic processes at the cell level using the newest scientific findings of cytogenetics and moleculoar cytology. To get acquainted in detail with the results comming from human genome mapping.

### **Brief outline of the course:**

Organisation of eukaryotic genome. Nuclear skeleton. Nucleolus, nucleolar skeleton. Chromatin structure and changes of chromatin. Levels of DNA organisation in cell nucleus. Chromosomes. Polythene chromosomes. Cell cycle. Genetic regulation of a cell cycle. Genetic regulation of cell differentiation. Apoptosis. Telomeres and function of telomerase. Molecular cytology. Basic characteristics of the Human genom project - what we can learn from it?

#### **Recommended literature:**

Russel, J.P.: Genetics, Third Edition, Harper Collins Publisher,

New York 1992

Periodicals

Internet sources

### Course language:

#### Notes:

### Course assessment

Total number of assessed students: 866

A	В	C	D	Е	FX	N	P
24.94	15.13	15.59	14.43	16.28	12.47	0.0	1.15

**Provides:** prof. RNDr. Eva Čellárová, DrSc., RNDr. Katarína Bruňáková, PhD.

Date of last modification: 13.02.2014

<b>University:</b> P. J. Šafá	rik University in Košico				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ ODZP/04	Course name: Defence of Doctoral Thesis				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:				
Number of credits: (	)				
Recommended seme	ster/trimester of the co	ourse:			
Course level: III.					
Prerequisities:					
<b>Conditions for cours</b>	se completion:				
Learning outcomes:					
Brief outline of the o	course:				
Recommended litera	nture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 37				
	N		P		
	0.0 100.0				
Provides:		•			
Date of last modifica	ntion: 13.02.2014				
Approved: prof. RN	Dr. Pavol Mártonfi, PhD	).			

University: P. J. Šafá	rik University in Košice				
Faculty: Faculty of S	cience				
Course ID: ÚBEV/ DZS/04	Course ID: ÚBEV/ Course name: Doctoral exam				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent				
Number of credits: (					
	ster/trimester of the cou	rse:			
Course level: III.					
Prerequisities:					
Conditions for cours	se completion:				
Learning outcomes:					
Brief outline of the c	ourse:				
Recommended litera	iture:				
Course language:					
Notes:					
Course assessment Total number of asse	ssed students: 77				
N P					
1.3 98.7					
Provides:		•			
Date of last modifica	ation: 13.02.2014				
Approved: prof RNI	Or Pavol Mártonfi PhD				

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ DZP1a/04			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of credits: 1			
	ster/trimester of the cour	se:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 33		
abs n			
	100.0 0.0		
Provides:			
Date of last modifica	ition: 13.02.2014		
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.		

University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science		
Course ID: ÚBEV/ DZP1b/04	Course ID: ÚBEV/ Course name: Doctoral Thesis		
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of credits: 3	30		
Recommended seme	ster/trimester of the co	ourse:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 55			
abs n			
100.0 0.0			
Provides:			
Date of last modification: 13.02.2014			
Approved: prof. RNDr. Pavol Mártonfi, PhD.			

University: P. J. Safá	University: P. J. Safárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ EFR/08				
Course type, scope a Course type: Lectur Recommended cou Per week: 3 / 2 Per Course method: pre	re / Practice rse-load (hours): study period: 42 / 28			
Number of credits: 8	3			
Recommended seme	ster/trimester of the cours	e: 2.		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	course:			
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 20			
	N P			
	0.0 100.0			
<b>Provides:</b> prof. RND	Provides: prof. RNDr. Martin Bačkor, DrSc.			
Date of last modification: 13.02.2014				
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: CJP/ Course name: English Language for PhD Students 1 AJD1/07 Course type, scope and the method: Course type: Practice **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present Number of credits: 2 **Recommended semester/trimester of the course:** 1. Course level: III. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** Course assessment Total number of assessed students: 374 N P Ne Pr abs neabs

0.0 0.0 75.4 0.0 24.6 0.0

Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.

Date of last modification: 06.02.2014

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: CJP/ Course name: English Language for PhD Students 2 AJD2/07 Course type, scope and the method: Course type: Practice **Recommended course-load (hours):** Per week: 2 Per study period: 28 Course method: present **Number of credits: 3** Recommended semester/trimester of the course: 2. Course level: III. **Prerequisities: Conditions for course completion: Learning outcomes: Brief outline of the course: Recommended literature:** Course language: **Notes:** 

**Course assessment** 

Total number of assessed students: 375

N	Ne	Р	Pr	abs	neabs
0.0	0.0	88.8	2.13	9.07	0.0

Provides: PhDr. Helena Petruňová, CSc., Mgr. Zuzana Kolaříková, PhD.

Date of last modification: 06.02.2014

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚBEV/ Cours

Course name: Chronophysiology

CRO1/03

Course type, scope and the method:

Course type: Lecture / Practice

Recommended course-load (hours): Per week: 2 / 1 Per study period: 28 / 14

Course method: present

Number of credits: 5

Recommended semester/trimester of the course:

Course level: II., III.

**Prerequisities:** 

**Conditions for course completion:** 

Oral examination.

### **Learning outcomes:**

To outline the problematics of the time organisation of biological processes and their significance in evolution of living organisms

#### **Brief outline of the course:**

Time structure of physiological variables in animals and man. Basic notions and categories of biological rhythms. The significance of biological rhythms in the evolution of living things. The genetic basis and molecular mechanisms of biological clocks in animals. The endogenous character of biological rhythms. The multioscillatory system of the organism. The significance of circadian and seasonal rhthms for the animal and human life. The application of chrono-physiological principles.

### **Recommended literature:**

### **Course language:**

**Notes:** 

### Course assessment

Total number of assessed students: 67

A	В	С	D	Е	FX	N	P
23.88	25.37	23.88	10.45	5.97	0.0	0.0	10.45

Provides: prof. RNDr. Beňadik Šmajda, CSc., RNDr. Natália Pipová, PhD.

Date of last modification: 13.02.2014

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ NEM/04				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of credits: 1				
	ster/trimester of the cour	se:		
Course level: III.				
Prerequisities:	,			
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 54			
	abs n			
	100.0 0.0			
Provides:				
Date of last modifica	ntion: 13.02.2014			
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ MK/04				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of credits: 6				
	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 123			
	abs	n		
	100.0 0.0			
Provides:			_	
Date of last modifica	ition: 13.02.2014		_	
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafá	rik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ DKZU/04			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of credits: 4			
	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 85		
	abs n		
100.0 0.0			
Provides:			
Date of last modifica	ation: 13.02.2014		
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.		

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ ZNC/04	Course name: Journals not registered in the Current Contents Connect database and published abroad		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent		
Number of credits: 5			
	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	nture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 34		
	abs n		
100.0 0.0			
Provides:			
Date of last modifica	ation: 13.02.2014		
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.		

University: P. J. Safá	rik University in Košice			
Faculty: Faculty of S	Faculty: Faculty of Science			
Course ID: ÚBEV/ DNC/04	Course name: Journals not registered in the Current Contents Connect database and published in the country of residence			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:			
Number of credits: 5	5			
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 28				
	abs n			
	100.0 0.0			
Provides:	Provides:			
Date of last modification: 13.02.2014				
Approved: prof. RNDr. Pavol Mártonfi, PhD.				

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ ZKC/04	CV/ Course name: Journals registered in the Current Contents Connect database and published abroad		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 2	20		
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 143			
	abs n		
100.0 0.0			
Provides:			
Date of last modification: 13.02.2014			
Approved: prof. RNDr. Pavol Mártonfi, PhD.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice		
Faculty: Faculty of S	cience		
Course ID: ÚBEV/ DKC/04	Course name: Journals registered in the Current Contents Connect database and published in the country of residence		
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present			
Number of credits: 1			
Recommended seme	ster/trimester of the cours	e:	
Course level: III.			
Prerequisities:			
Conditions for cours	e completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of assessed students: 11			
	abs		
100.0 0.0			
Provides:			
Date of last modification: 13.02.2014			
Approved: prof. RNDr. Pavol Mártonfi, PhD.			

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚBEV/ **Course name:** Multidimensional methods in experimental data analysis. MNO/04 Course type, scope and the method: Course type: Lecture **Recommended course-load (hours):** Per week: Per study period: 20s Course method: present Number of credits: 4 Recommended semester/trimester of the course: Course level: III. **Prerequisities: Conditions for course completion:** Writen test. **Learning outcomes:** To gain an overview about the possibilities of the use of multidiemnsional methods in mathemamtical-statistical evaluation of experimental results. **Brief outline of the course:** Cluster analysis. Factor analysis. Discrimination analysis. Multinomial regressions. Time series analysis. Survival curves. **Recommended literature:** STATGRAPHICS- user manual.. Grada, Prague, 1998. G.P.Quinn, M.J.Keough: Experimental design and data analysis for biologists. Cambridge Univ.Press, Cambridge, 2003. Internet sources. Course language: Notes: Course assessment Total number of assessed students: 1 N P 0.0 100.0 Provides: prof. RNDr. Beňadik Šmajda, CSc.

Date of last modification: 13.02.2014

University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science			
Course ID: ÚBEV/ NZ/04	Course name: Non-reviewed collections of papers and monographs published abroad or in the country of residence		
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period:		
Number of credits: 2	2		
Recommended seme	ster/trimester of the cours	e <b>:</b>	
Course level: III.			
Prerequisities:			
Conditions for cours	se completion:		
Learning outcomes:			
Brief outline of the c	ourse:		
Recommended litera	iture:		
Course language:			
Notes:			
Course assessment Total number of asse	ssed students: 71		
	abs n		
100.0 0.0			
Provides:			
Date of last modifica	tion: 13.02.2014		
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.		

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ RZ/04	V/ Course name: Peer-reviewed collections of papers and monographs published abroad or in the country of residence			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of credits: 5				
	ster/trimester of the cours	e: 		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 151			
	abs n			
100.0 0.0				
Provides:				
Date of last modifica	ation: 13.02.2014			
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafárik University in Košice Faculty: Faculty of Science Course ID: ÚBEV/ Course name: Plant Reproduction RR/08 Course type, scope and the method: Course type: Lecture / Practice **Recommended course-load (hours):** Per week: 2 / 2 Per study period: 28 / 28 Course method: present **Number of credits: 8** Recommended semester/trimester of the course: Course level: III. **Prerequisities: Conditions for course completion: Learning outcomes:** To obtain knowledge of basic teorethical and practical problems in plant reproduction. **Brief outline of the course:** Plant reproduction biology in history. Evolutionary trends of plant reproduction. Reproductive structures of ferns and seed plants. Male and female gametophyte. Fertilization, endosperm, embryo. Phenological data in plant reproduction. Ultraviolet reflectance and absorbance of reproductive structures. Polination vectors. Nectar. Seed dispersion. Reproduction systems in plants. Panmixis, automixis, apomixis. Evolution importance of reproductive systems. Recommended literature: Erdelská O., Embryológia krytosemenných rastlín. - Veda, vyd. SAV., Bratislava, 1981. Horandl E., Grossniklaus U., van Dijk P. J., Sharbel T. F.: Apomixis. Evolution, Mechanisms and Perspectives. - A.R.G. Gantner Verlag K. G., Rugell, Liechtenstein, 2007. Richards A.J.: Plant Breeding Systems. 2nd. ed. - Chapman & Hall, London, 1997. Simpson M. G.: Plant Systematics. - Elsevier - Academic Press, 2006. Stuessy T. F.: Plant Taxonomy. - Columbia University Press, New York, 2009. Course language: Notes: Course assessment Total number of assessed students: 16 P N 0.0 100.0 Provides: prof. RNDr. Pavol Mártonfi, PhD. Date of last modification: 13.02.2014

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ ZSP/04	Course name: Realisation of study/research stay abroad			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of credits: 2				
	ster/trimester of the course	6., 8.		
Course level: III.				
Prerequisities:	,			
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 61			
abs n				
	100.0 0.0			
Provides:				
Date of last modifica	ntion: 13.02.2014			
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ IG/04				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of credits: 1				
	ster/trimester of the cours	e: 		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 114			
	abs n			
	100.0 0.0			
Provides:				
Date of last modifica	ation: 13.02.2014			
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafá	rik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ VPBB/11	Course ID: ÚBEV/ Course name: Review of a Bachelor Thesis  VPBB/11			
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pro	rse-load (hours): ly period:			
Number of credits: 2	2			
Recommended seme	ester/trimester of the cou	rse:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the o	course:			
Recommended litera	ature:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 11			
	abs			
	100.0 0.0			
Provides:		•		
Date of last modifica	ation: 13.02.2014			
Approved: prof. RN	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ SSOL/04				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of credits: 2				
	ster/trimester of the cour	Se:		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 186			
abs				
	100.0 0.0			
Provides:				
Date of last modifica	ition: 13.02.2014			
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of Science				
Course ID: ÚBEV/ SMR/08	J J			
Course type, scope a Course type: Lectur Recommended cour Per week: 3 Per stu Course method: pre	re rse-load (hours): dy period: 42 esent			
Number of credits: 6				
	ster/trimester of the course	2.		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 12			
	N P			
0.0 100.0				
<b>Provides:</b> prof. RND:	r. Miroslav Repčák, DrSc.			
Date of last modifica	ation: 13.02.2014			
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: Dek. PF UPJŠ/JSD/14	Course name: Spring Scho	ool for PhD Students		
Course type, scope a Course type: Lectur Recommended cour Per week: Per stud Course method: pre	re rse-load (hours): ly period: 4d esent			
Number of credits: 2				
Recommended seme	ster/trimester of the cours	e:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 52			
	abs			
	100.0 0.0			
Provides: doc. RNDr	. Vladimír Zeleňák, PhD.			
Date of last modifica	tion: 06.03.2014			
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafárik University in Košice				
Faculty: Faculty of S	cience			
Course ID: ÚCHV/ VBP/04	1			
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of credits: 6		<i>(</i> 0		
	ster/trimester of the cours	<b>e:</b> 6., 8.		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 208			
abs				
100.0 0.0				
Provides:				
Date of last modifica	ation: 03.02.2014			
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ VPSV/04				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of credits: 6				
	ster/trimester of the cours	se: 6., 8.		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 9			
abs n				
	100.0 0.0			
Provides:				
Date of last modifica	ition: 13.02.2014			
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

University: P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ VYS/04				
Course type, scope a Course type: Recommended cou Per week: Per stud Course method: pre	rse-load (hours): ly period: esent			
Number of credits: 2				
	ster/trimester of the cours	e: 		
Course level: III.				
Prerequisities:				
Conditions for cours	se completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	nture:			
Course language:				
Notes:				
Course assessment Total number of asse	ssed students: 138			
	abs n			
	100.0 0.0			
Provides:				
Date of last modifica	ation: 13.02.2014			
Approved: prof. RNI	Dr. Pavol Mártonfi, PhD.			

<b>University:</b> P. J. Šafá	University: P. J. Šafárik University in Košice			
Faculty: Faculty of S	cience			
Course ID: ÚBEV/ PPC/04				
Course type, scope a Course type: Recommended cour Per week: Per stud Course method: pre	rse-load (hours): ly period:			
Number of credits: 1				
Recommended seme	ster/trimester of the cour	se:		
Course level: III.				
Prerequisities:				
Conditions for cours	e completion:			
Learning outcomes:				
Brief outline of the c	ourse:			
Recommended litera	iture:			
Course language:				
Notes:	Notes:			
Course assessment Total number of asse	ssed students: 286			
abs n				
100.0 0.0				
Provides:				
Date of last modification: 13.02.2014				
Approved: prof. RNDr. Pavol Mártonfi, PhD.				

University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science				
Course ID: ÚBEV/ PPC/04	Course name: Teaching activities			
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present				
Number of credits: 1				
Recommended semester/trimester of the course:				
Course level: III.				
Prerequisities:				
Conditions for course completion:				
Learning outcomes:				
Brief outline of the course:				
Recommended litera	iture:			
Course language:				
Notes:				
Course assessment Total number of assessed students: 286				
	abs	n		
	100.0	0.0		
Provides:				
Date of last modification: 13.02.2014				
Approved: prof. RNDr. Pavol Mártonfi, PhD.				

University: P. J. Šafá	University: P. J. Šafárik University in Košice				
Faculty: Faculty of Science					
Course ID: ÚBEV/ VKFR/08	Course name: Vybrané kapitoly z fyziológie rastlín				
Course type, scope and the method: Course type: Lecture / Practice Recommended course-load (hours): Per week: 3 / 2 Per study period: 42 / 28 Course method: present					
Number of credits: 8					
Recommended semester/trimester of the course: 1.					
Course level: III.					
Prerequisities:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed students: 17					
	N	P			
	0.0	100.0			
Provides: prof. RNDr. Miroslav Repčák, DrSc.					
Date of last modification: 13.02.2014					
Approved: prof. RNDr. Pavol Mártonfi, PhD.					

University: P. J. Šafárik University in Košice					
Faculty: Faculty of Science					
Course ID: ÚBEV/ POVK/04	Course name: Work in Organizing Committee of Conference				
Course type, scope and the method: Course type: Recommended course-load (hours): Per week: Per study period: Course method: present					
Number of credits: 2	Number of credits: 2				
Recommended semester/trimester of the course:					
Course level: III.					
Prerequisities:					
Conditions for course completion:					
Learning outcomes:					
Brief outline of the course:					
Recommended literature:					
Course language:					
Notes:					
Course assessment Total number of assessed students: 25					
	abs	n			
	100.0	0.0			
Provides:					
Date of last modification: 13.02.2014					
Approved: prof. RNDr. Pavol Mártonfi, PhD.					