COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚFV/ RFEP/07	**Course name:** Computer Aided School Physical Experiment

Course type, scope and the method:
Course type: Lecture / Practice
Recommended course-load (hours):
Per week: Per study period: 12s / 12s
Course method: present

Number of credits: 8

Recommended semester/trimester of the course: 5.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Zuzana Ješková, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RDIF/02	**Course name:** Didactics of Physics

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 24s
Course method: present

Number of credits: 7

Recommended semester/trimester of the course: 1.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 7

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RSDF1/02	**Course name:** Didactics of Physics Seminar I

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 24s
Course method: present

Number of credits: 6

Recommended semester/trimester of the course: 2.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RSDF2/02	**Course name:** Didactics of Physics Seminar II

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 24s
Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 4.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 3

A	B	C	D	E	FX
66.67	0.0	33.33	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RSZP/00	**Course name:** Final Thesis

Course type, scope and the method:
Course type:
Recommended course-load (hours):
Per week: Per study period:
Course method: present

Number of credits: 10

Recommended semester/trimester of the course: 5.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 3

A	B	C	D	E	FX
66.67	33.33	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RVF1/06	**Course name:** General Physics I

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 36s
Course method: present

Number of credits: 10

Recommended semester/trimester of the course: 1.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 5

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Zuzana Ješková, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RVF2/06	**Course name:** General Physics II

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 36s
Course method: present

Number of credits: 10

Recommended semester/trimester of the course: 1.

Course level: N

Prerequisities:

Conditions for course completion:
Test.
Oral examination.

Learning outcomes:
To obtain a general view on basic electric magnetic phenomena and ability to solve basic problems of this subject.

Brief outline of the course:
Electric field in the free space. Work of the forces in the electrostatic field. Electrostatic field and steady current. Current in electrolytes, semiconductors, gasses and vacuum. Thermoelctric effects. Magnetic field in the free space. The interaction of moving charges with the electric current. Quasi steady electric field. Electromagnetic induction. Energy of magnetic field. AC current and circuits with ac current. Multiphase AC current. Rotating magnetic field. Electric effects in the substances. Magnetic properties of the substancies. Magnetic polarization. Diamagnetism and paramagnetism, Magnetic ordering. Ferromagnetism.

Recommended literature:
I.S. Grant, W.R. Phillips, Electromagnetism, John Wiley&Sons, Ltd, England, 1990

Course language:

Notes:

Course assessment
Total number of assessed students: 4

A	B	C	D	E	FX
0.0	25.0	50.0	0.0	25.0	0.0

Provides: prof. RNDr. Peter Kollár, DrSc.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RVF3/06	**Course name:** General Physics III

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 24s
Course method: present

Number of credits: 9

Recommended semester/trimester of the course: 2.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 10

A	B	C	D	E	FX
20.0	0.0	10.0	60.0	10.0	0.0

Provides: prof. RNDr. Pavol Miškovský, DrSc.

Date of last modification: 10.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RJE1/02	**Course name:** Hands on Experiments

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 12s
Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 5.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 5

A	B	C	D	E	FX
60.0	40.0	0.0	0.0	0.0	0.0

Provides: RNDr. Ľudmila Onderová, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RZFP1/06	**Course name:** Introductory Physical Laboratory Work I

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 24s
Course method: present

Number of credits: 6

Recommended semester/trimester of the course: 2.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Provides: RNDr. Ľudmila Onderová, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RZFP2/06	**Course name:** Introductory physical laboratory work II

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 24s
Course method: present

Number of credits: 6

Recommended semester/trimester of the course: 3.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:
The objectives of the laboratory are:
a. To gain some physical inside into some of the concepts presented in the lectures.
b. To gain some practice in data collection, analysis and interpretation of resumance.
c. To gain experience and report writing presentation and results.

Brief outline of the course:
1. Electrical Resistivity, Self - and Mutual Inductance and Capacity.
2. Serial and Parallel Resonance.
3. Thermal Dependence of Selected Electrical Phenomena in Solids. 4. The Characteristics of Semiconductor Diode.
5. The Characteristics of Semiconductor Bipolar Transistor.
6. Measurement of the ratio of Charge to Mass for Electron by the method of Magnetron.
7. Magnetic Hysteresis.
8. Hall Constant Measurements.
9. Measurements of Horizontal Component of Earth Magnetic Field
10. Measurements of the Focal Lenght of the Converging and Diverging Lens.
11. The Rotation of Polarization Plane of Light Beam.
12. The Refractive Index in Liquids.
13. The Phenomenon of Interference of Light.

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 0

A	B	C	D	E	FX
0.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Adriana Zeleňáková, PhD.
Date of last modification: 18.02.2014
Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚFV/ RNET/06	**Course name:** Nontraditional View on Selected Problems of General Physics I

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 12s
Course method: present

Number of credits: 4

Recommended semester/trimester of the course: 5.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 6

A	B	C	D	E	FX
83.33	16.67	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/RFU/02	**Course name:** Physical Problems

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 24s
Course method: present

Number of credits: 6

Recommended semester/trimester of the course: 4.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 3

A	B	C	D	E	FX
66.67	0.0	33.33	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/RKV/06	**Course name:** Quantum Mechanics

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 12s
Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 3.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 10

A	B	C	D	E	FX
90.0	0.0	0.0	0.0	10.0	0.0

Provides: prof. RNDr. Michal Jaščur, CSc.

Date of last modification: 31.01.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice	
Faculty: Faculty of Science	
Course ID: ÚFV/ RPSP1/02	**Course name:** School Physics Experiments I

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 24s
Course method: present

Number of credits: 6

Recommended semester/trimester of the course: 3.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 3

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: RNDr. Ľudmila Onderová, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RPSP2/00	**Course name:** School Physics Experiments II

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 24s
Course method: present

Number of credits: 6

Recommended semester/trimester of the course: 4.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 3

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RTEP/06	**Course name:** Theory of Electromagnetic Field

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 24s
Course method: present

Number of credits: 9

Recommended semester/trimester of the course: 2.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 15

A	B	C	D	E	FX
46.67	0.0	26.67	13.33	13.33	0.0

Provides: prof. RNDr. Andrej Bobák, DrSc.

Date of last modification: 31.01.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RTMD/00	**Course name:** Thermodynamics

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 12s
Course method: present

Number of credits: 5

Recommended semester/trimester of the course: 4.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 9

A	B	C	D	E	FX
88.89	11.11	0.0	0.0	0.0	0.0

Provides: prof. RNDr. Michal Jaščur, CSc.

Date of last modification: 31.01.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ DVMV/05	**Course name:** Using Multimedia in Education

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 24s
Course method: present

Number of credits: 8

Recommended semester/trimester of the course: 5.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 8

A	B	C	D	E	FX
100.0	0.0	0.0	0.0	0.0	0.0

Provides: doc. RNDr. Marián Kireš, PhD.

Date of last modification: 18.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.

COURSE INFORMATION LETTER

University: P. J. Šafárik University in Košice

Faculty: Faculty of Science

Course ID: ÚFV/ RVF4/06	**Course name:** Všeobecná fyzika IV

Course type, scope and the method:
Course type: Lecture
Recommended course-load (hours):
Per week: Per study period: 36s
Course method: present

Number of credits: 10

Recommended semester/trimester of the course: 3.

Course level: N

Prerequisities:

Conditions for course completion:

Learning outcomes:

Brief outline of the course:

Recommended literature:

Course language:

Notes:

Course assessment
Total number of assessed students: 8

A	B	C	D	E	FX
12.5	12.5	50.0	12.5	12.5	0.0

Provides: prof. RNDr. Gabriela Martinská, CSc., prof. RNDr. Stanislav Vokál, DrSc., RNDr. Janka Vrláková, PhD.

Date of last modification: 11.02.2014

Approved: prof. RNDr. Andrej Bobák, DrSc.