

code (Ostrava)	name	total	hours LE+LA+SE	ECTS
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SEMESTER 1

compulsory courses

ETERM	Statistical physics	30	30+0+0	3
EKVF1	Quantum physics 1	30	30+0+0	3
EPOMS	Numerical simulations	30	30+0+0	3
EPOM1	Mathematical modelling 1	30	0+30+0	3
EANG1	English 1	20	0+0+20	2
EDIP1	Laboratory research 1	50	0+50+0	5

facultative courses

EPOM2	Mathematical modelling 2	30	0+30+0	3
EPRG1	Programming 1	50	0+50+0	5
ETMCP	Classical mechanics	30	30+0+0	3
ETMCS	Seminar in classical mechanics	40	0+0+40	3
EPMF1	Introduction to computer modelling in physics	30	30+0+0	4
EPRSM	Proseminar in computer modelling	30	0+30+0	2

SEMESTER 2

compulsory courses

EKVF2	Quantum physics 2	50	50+0+0	5
EPPM1	Laboratory in numerical simulations	40	0+40+0	4
EANG2	English 2	20	0+0+20	2
EDIP2	Laboratory research 2	50	0+50+0	5

facultative courses

EPOM3	Mathematical modelling 3	30	0+30+0	3
ECHER	Thermodynamics of heterogeneous systems	30	30+0+0	3
ESTRM	Molecular structure	30	30+0+0	3
EPRG2	Programming 2	40	0+40+0	4
ESEPM	Seminar in computer modelling	30	0+30+0	2

SEMESTER 3

compulsory courses

ETPRJ	Management of projects	90	0+90+0	10
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facultative courses

EDIP3	Introduction to the diploma project	50	0+50+0	6
ECHEK	Chemical kinetics	30	30+0+0	3
EDYSR	Dynamics of collision processes	30	30+0+0	3
EPOMP	Laboratory in mathematical modelling	30	0+30+0	3
EPPM2	Laboratory in computer modelling of classical systems	50	0+50+0	5
ETEMP	Classical electrodynamics	30	30+0+0	3
ETEMS	Seminar in classical electrodynamics	40	0+40+0	3
EDPS1	Diploma seminar 1	30	0+30+0	2

SEMESTER 4

compulsory courses

EDIP4	Diploma project	300	0+300+0	30
EGEMS	Part of graduation exam: Modelling and simulations	0	0+0+0	0
EGEDT	Part of graduation exam: Defence of thesis	0	0+0+0	0

facultative courses

EPPM3	Laboratory in computer modelling of quantum systems	50	0+50+0	5
EDPS2	Diploma seminar 2	30	0+30+0	2
EGEQP	Part of graduation exam: Quantum physics	0	0+0+0	0
EGEST	Part of graduation exam: Statistical thermodynamics	0	0+0+0	0
EGEMP	Part of graduation exam: Molecular physics	0	0+0+0	0
EGESP	Part of graduation exam: Solid state physics	0	0+0+0	0
EGEQP	Part of graduation exam: Optics	0	0+0+0	0
EGENE	Part of graduation exam: Numerical electronics	0	0+0+0	0