

Study plan APIN-BcD15 - Applied Informatics - bachelor programme					
Guarantee of study programme: doc. RNDr. PaedDr. Ladislav Huraj, PhD.					
Compulsory subjects					
Abbr.	Name	Credit	Scope	Year	Sem.
KAI/bd1/15	Algorithms and Data Structures I	5	P2C2	1	Z
KAI/bd2/15	Programming I	6	P2C2	1	Z
KAI/bd3/15	Mathematical Basis for Informatics	5	P2S2	1	Z
KAI/bd4/15	Internet Technologies	6	P2C2	1	Z
KAI/bd5/15	Fundamentals of Management	4	P2S1	1	Z
KAI/bd6/15	Basics of Computing - Seminar	3	P0S2	1	Z
KOJP/bd7/15	English for Informatics I - Seminar	1	P0S2	1	Z
KAI/bd8/15	Algorithms and Data Structures II	5	P2C2	1	L
KAI/bd9/15	Programming II	6	P2C2	1	L
KAI/bd10/15	Algebra and Discrete Mathematics for IT Students	5	P2S2	1	L
KAI/bd11/15	Computer Architectures	5	P2C2	1	L
KAI/bd12/15	Electrical Engineering and Electronics	5	P2C2	1	L
KOJP/bd13/15	English for Informatics II - Seminar	1	P0S2	1	L
KAI/bd14/15	Fundamentals of Physics	3	P2C2	1	L
KAI/bd15/15	Operating Systems I	3	P1C2	2	Z
KAI/bd16/15	Computer Networks I	4	P2C2	2	Z
KAI/bd17/15	Introduction to Database Systems	4	P2C2	2	Z
KAI/bd18/15	Theoretical Basis for Informatics I	3	P1S2	2	Z
KAI/bd19/15	Computer Graphics	5	P2C2	2	Z
KAI/bd20/15	Modern Programming Languages	4	P2C2	2	Z
KOJP/bd21/15	English for Informatics III - Seminar	1	P0S2	2	Z
KAI/bd22/15	Coursework – Seminar I	1	P0S1	2	Z
KAI/bd23/15	Operating Systems II	3	P1C2	2	L
KAI/bd24/15	Computer Networks II	4	P2C2	2	L
KAI/bd25/15	Database Systems	5	P2C2	2	L
KAI/bd26/15	Theoretical Basis for Informatics II	3	P1S2	2	L
KAI/bd27/15	Application of Information Systems	3	P2C2	2	L
KOJP/bd28/15	English for Informatics IV - Seminar	1	P0S2	2	L
KAI/bd29/15	Coursework – Seminar II	1	P0S1	2	L
KAI/bd30/15	Visualisation, Graphical and Multimedia Systems	5	P2C2	3	Z
KAI/bd31/15	Analysis and Computerization of Dynamic Systems	5	P2C2	3	Z
KAI/bd32/15	Applied Economics	3	P2S2	3	Z
KAI/bd33/15	Fundamentals of Law for IT Students	3	P0S2	3	Z
KAI/bd34/15	Bachelor Project I	4	P0S1	3	Z
KAI/bd35/15	Software Engineering	4	P2S2	3	L
KAI/bd36/15	Information Security	3	P1C2	3	L
KAI/bd37/15	Project Management	1	P2S1	3	L
KAI/bd38/15	Bachelor Project II	6	P0S1	3	L
KAI/bd39/15	1. State Examination – Bachelor Thesis Defence	6		3	
KAI/bd40/15	Applied Informatics	6		3	
Compulsory Elective subjects					
Information systems and technologies					
Abbr.	Name	Credit	Scope	Year	Sem.
KAI/bd41/15	Theory of Graphs and Games	5	P2S2	2	Z
KAI/bd42/15	Advanced Internet Technologies	5	P2C2	2	Z

KAI/bd44/15	Information System Design	5	P2C2	2	L
KAI/bd45/15	Data Coding and Compression	5	P2S2	2	L
KAI/bd51/15	HPC and Grid Architectures	5	P2C2	2.1	L
KAI/bd46/15	Computer Networks III	5	P2C2	3	Z
KAI/bd47/15	Embedded Systems	5	P2S2	3	Z
KAI/bd48/15	Geographic Information Systems	5	P2C2	3	Z
KAI/bd49/15	Mobile Technologies	5	P2C2	3	Z
KAI/bd50/15	Modelling and Simulation	5	P2S2	3	L
KAI/bd43/15	Development of Effective Algorithms	5	P2S2	2,3	L
Natural Science Applications of Informatics					
Abbr.	Name	Credit	Scope	Year	Sem.
KBIO/bd45/15	Fundamentals of Biology for IT Students	5	P2S2	2	Z
KAI/bd41/15	Theory of Graphs and Games	5	P2S2	2	Z
KER/bd50/15	Fundamentals of Environmental Science for IT Students	5	P2S2	2	L
KCHEM/bd51/15	Fundamentals of Chemistry for IT Students	5	P2S2	2	L
KAI/bd53/15	Component Programming	5	P2C2	2	L
KAI/bd54/15	Technical Applications of Physics	5	P2S2	3	Z
KBIO/bd46/15	Molecular Biology Databases	5	P2S2	3	Z
KAI/bd41/15	Theory of Graphs and Games	5	P2S2	3	Z
KAI/bd49/15	Mobile Technologies	5	P2C2	3	Z
KAI/bd48/15	Geographic Information Systems	5	P2C2	3	Z
KBT/bd47/15	Fundamentals of Biomolecular Simulations	5	P2S2	3	L
KAI/bd55/15	Bioinformatics	5	P2S2	3	L
Selective subjects					
Abbr.	Name	Credit	Scope	Year	Sem.
KBIO/bd47/15	Sports Activities I	1	P0S2	1	Z
KBIO/bd48/15	Sports Activities II	1	P0S2	1	L
KAI/bd56/15	Financial Mathematics	1	P0S2	2	Z
KBIO/bd49/15	Sports Activities III	1	P0S2	2	Z
KAI/bd57/15	Insurance Mathematics	1	P0S2	2	L
KAI/bd58/15	Intelligent Techniques in E-Learning	1	P0S2	2	L
KBIO/bd50/15	Sports Activities IV	1	P0S2	2	L
KAI/bd59/15	Fundamentals of Accounting - Seminar	1	P0S2	3	Z
KBIO/bd51/15	Sports Activities V	1	P0S2	3	Z
KBIO/bd52/15	Sports Activities VI	1	P0S2	3	L
KAI/bd60/15	Student Scientific Conference	1	P0S2	2,3	L