

	Theoretical-practical study	A	Assessment	B	Academic break	K	Weeks - credit module system	P	Production practice is given in appendix 8
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II. Curriculum														
Level 3 Diploma in IT- General for all IT														
№	Unit Reference Number	Unit	Subjects	Total student workload					Semester				Total credit value by year	
				Distribution					I semester		II semester			
				Total qualification time	Total Guided learning hours	Theory-based learning	Practice-based learning	Self-guided learning hours	Semester credits					
									CATS	ECTS	CATS	ECTS	CATS	ECTS
1	2	3	4	5	6	7	8	9	10		11		12	
3.01	L03FEN-U1	Unit 1	Functional English	120	48	24	24	72	12	6			12	6
3.02	L03OPS-U2	Unit 2	Operating System	200	90	45	45	110	20	10			20	10
3.03	L03NCS-U3	Unit 3	Networking and Cyber Security	120	48	24	24	72			12	6	12	6
3.04	L03PAD-U4	Unit 4	Programming concepts and application development	200	90	45	45	110			20	10	20	10
3.05	L03CAI-U5	Unit 5	Cloud computing & AI	120	48	24	24	72	12	6			12	6
3.06	L03MIT-U6	Unit 6	Mathematics in IT	200	90	45	45	110	20	10			20	10
3.07	L03SSC-U7	Unit 7-uz	Social Science (The New History of Uzbekistan, Philosophy, Basics of Spirituality and Jurisprudence)	200	90	45	45	110	10	5	10	5	20	10
L03PRP-DS			Capstone project	40	40		40				4	2	4	2
			Total 3 level subjects	1200 CATS/ 1800 ECTS	544 CATS/ 816 ECTS	252 CATS/ 375 ECTS	292 CATS/ 441 ECTS	656 CATS/ 984 ECTS	74	37	46	23	120	60

III. Curriculum														
Level 5 Extended Diploma in Data Science														
Extended level included 4 and 5 levels. 1-6 units of level 4; 7-12 units of level 5. Each level has two semesters that means a year. Extended level 4-5 will be two years														
№	Unit Reference Number	Unit	Subjects	Total student workload					Semester				Total credit value by year	
				Distribution					III semester		IV semester			
									Semester credits					
				Total qualification time	Guided learning hours	Theory based learning	Practice based learning	Self-guided learning hours	CATS	ECTS	CATS	ECTS	CATS	ECTS
1.	2.	3.	4.	5.	6.	7.	8	9.	10.		11.		12.	
5.01	L04PWP-U1	Unit 1	Programming with Python	200	90	45	45	110	20	10			20	10
5.02	L04LAC-U2	Unit 2	Linear Algebra and Calculus	200	90	45	45	110	20	10			20	10
5.03	L04IDS-U3	Unit 3	Introduction to Data Science	200	90	45	45	110	20	10			20	10
5.04	L04DBS-U4	Unit 4	Database Systems	200	90	45	45	110			20	10	20	10
5.05	L04SMD-U5	Unit 5	Statistical Methods for Data Science	200	90	45	45	110			20	10	20	10
5.06	L04MLF-U6	Unit 6	Machine Learning Foundations	200	90	45	45	110			20	10	20	10
			Total 4 level subjects	1200 CATS/ 1800 ECTS	540 CATS/ 810 ECTS	270 CATS/ 405 ECTS	270 CATS/ 405 ECTS	660 CATS/ 990 ECTS	60	30	60	30	120	60
Level 5 Extended Diploma in Data Science									V semester		VI semester		Total credit value by year	
									Semester credits					
5.07	L05DVC-U7	Unit 7	Data Visualization and Communication	200	90	45	45	110	20	10			20	10
5.08	L05DMBD-U8	Unit 8	Data Mining and Big Data Analytics	200	90	45	45	110	20	10			20	10
5.09	L05DEP-U9	Unit 9	Data Ethics and Privacy	200	90	45	45	110	20	10			20	10
5.10	L05ADA-U10	Unit 10	Advanced Data Analytics	200	90	45	45	110			20	10	20	10
5.11	L05DSCP-U11	Unit 11	Data Science Capstone Project	200	90	45	45	110			20	10	20	10

5.12	L05PDDS-U12	Unit 12	Professional Development in Data Science	200	90	45	45	110			20	10	20	10
			Total 5 level subjects	1200 CATS/ 1800 ECTS	540 CATS/ 810 ECTS	270 CATS/ 405 ECTS	270 CATS/ 405 ECTS	660 CATS/ 990 ECTS	60	30	60	30	120	60
			Total extended level 5	2400 CATS/ 3600 ECTS	1080 CATS/ 1620 ECTS	540 CATS/ 810 ECTS	540 CATS/ 810 ECTS	1320CATS/ 1980 ECTS	120	60	120	60	240	120

IV. Curriculum														
Level 6 Diploma in Diploma in Data Science														
№	Unit Reference Number	Unit	Subjects	Total student workload					Semester				Total credit value by year	
				Distribution					VII semester		VIII semester			
									Semester credits					
				Total qualification time	Guided learning hours	Theory based learning	Practice based learning	Self-guided learning hours	CATS	ECTS	CATS	ECTS	CATS	ECTS
1	2		3	4	5	6	7	8	9		10		11	
6.01	L06APDS-U1	Unit 1	Advanced Programming for Data Science	200	90	45	45	110	20	10			20	10
6.02	L06AMLD-U2	Unit 2	Advanced Machine Learning and Deep Learning	200	90	45	45	110	20	10			20	10
6.03	L06CCDE-U3	Unit 3	Cloud Computing and Data Engineering	200	90	45	45	110	20	10			20	10
6.04	L06DEBD-U4	Unit 4	Data Engineering and Big Data Technologies	200	90	45	45	110			20	10	20	10
6.05	L06EGDS-U5	Unit 5	Ethics, Governance and Data Security	200	90	45	45	110			20	10	20	10
6.06	L06CPDSS-U6	Unit 6	Capstone Project: Applied Data Science Solutions	200	90	45	45	110	10	5	10	5	20	10
			Total 6 level subjects	1200 CATS/ 1800 ECTS	540 CATS/ 810 ECTS	270 CATS/ 405 ECTS	270 CATS/ 405 ECTS	660 CATS/ 990 ECTS	70	35	50	25	120	60
Overall, for bachelor levels														
			Total 3 level subjects	1200	544	252	292	656	74	37	46	23	120	60
			Total 4 level subjects	1200	540	270	270	660	60	30	60	30	120	60
			Total 5 level subjects	1200	540	270	270	660	60	30	60	30	120	60
			Total 6 level subjects	1200	540	270	270	660	70	35	50	25	120	60
			Total	4800 CATS/ 7200 ECTS	2164 CATS/ 3246 ECTS	1062 CATS/ 1590 ECTS	1102CATS/ 1656 ECTS	2636 CATS/ 3954 ECTS	264	132	216	108	480	240

V. Curriculum																
Master`s degree																
Level 7 Diploma in Cyber Security																
№	Unit Reference Number	Unit	Subjects	Total student workload					Semester			Total credit value by year				
				Distribution					I	II	III					
				Total qualificati on time	Guided learning hours	Theory based learning	Practice based learning	Self-guided learning hours	Semester	semester	semester					
									Semester credits							
									CATS	ECTS	CATS	ECTS	CATS	ECTS	CATS	ECTS

1.	2.	3.	4.	5.	6.	7.	8.	9.	10.		11.		12.		13.	
7.01	L07NLTA-U1	Unit 1	Natural Language Processing and Text Analytics	200	90	45	45	110	20	10					20	10
7.02	L07ASMI-U2	Unit 2	Advanced Statistical Modelling and Inference	200	90	45	45	110	20	10					20	10
7.03	L07AIAS-U3	Unit 3	Artificial Intelligence and Autonomous Systems	200	90	45	45	110	20	10					20	10
7.04	L07AIRI-U4	Unit 4	Ethical AI and Responsible Innovation	200	90	45	45	110			20	10			20	10
7.05	L07SDLI-U5	Unit 5	Strategic Data Leadership and Innovation	200	90	45	45	110			20	10			20	10
7.06	L07RPMU-U6	Unit 6	Research Project / Master's Thesis in Data Science	200	90	45	45	110			10	5	10	5	20	10
7.07			SAW (Scientific Academic Work)	300	120		120	180	10	5	10	5	10	5	30	15
7.08			SRW (Scientific Research Work)	300	120		120	180	10	5	10	5	10	5	30	15
Total				1800 CATS/ 2700 ECTS	780 CATS /1170ECTS	270CATS/ 405 ECTS	510CATS/ 765 ECTS	1020 CATS/ 1530 ECTS	80	40	70	35	30	15	180	90

Appendix:

- 1 credit consists 10 academic hours.
 - Course** - Individual units of the programme are called courses. Each course is a self-contained, formally structured learning experience with a coherent and explicit set of learning outcomes and assessment criteria.
 - Learning Outcomes** - Describe what learners should know, be able to do, and value as a result of integrating knowledge, skills, and attitudes learned throughout the course.
 - Assessment Criteria** - Refer to the specific standards or benchmarks used to evaluate the effectiveness of the outcomes attained.
 - Total Qualification Time (TQT)** - The number of notional hours which represents an estimate of the total amount of time that could reasonably be expected to be required for a learner to achieve and demonstrate the level of attainment necessary for the award of a qualification.
 - TQT is comprised of the following two elements:
 - Guided Learning Hours (GLH)** - Defined as the hours that a teacher, lecturer, or another member of staff is available to provide immediate teaching support or supervision to a student working towards a qualification.
 - Credit Value** - Defined as the number of credits that may be awarded to a learner for the successful achievement of the learning outcomes of a unit. One credit is equal to 10 hours of TQT.
 - RQF** - Regulated Qualifications Framework
 - Each level has own practice hours which included in TQT; practice hours are taken from each unit by 10%, meaning 20 hours in one level it equals to 120 hours
 - Level 4** (extended 5 first year) 120 hours of production practice
 - Level 5** (also in second year) 120 hours of production practice
 - Level 6** - 120 hours for practice before defend Final Capstone project (Graduation work) Implementational practice of Capstone project (Graduation work)
 - Total practice hours 360 hours in CATS -36 credit (18 ECTS credits 540 hours)
 - SAW (Scientific Academic Work) making methodical instructions books, assist teachers on their classes (making classes)
 - SRW (Scientific Research Work) retrieval search for research, making scientific papers and publishing them
 - The European Credit Transfer and Accumulation System (ECTS) is a standardized academic credit system widely adopted across the European Higher Education Area and currently implemented in Uzbekistan, where 60 ECTS credits represent the workload of one full academic year. In the United Kingdom, the Credit Accumulation and Transfer Scheme (CATS) is applied, with 120 CATS credits corresponding to a full academic year; typically, 2 CATS credits are considered equivalent to 1 ECTS credit.
 - This academic plan is eligible for adoption by other higher education institutions and universities that hold official approval and accreditation from the IQAC
- Upon approval of this academic plan schedule, the involved parties will be authorized to issue their respective diplomas, meaning that the student will receive two diplomas upon graduation.**

On behalf of INHA university in Tashkent

Rector

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On behalf of International Qualifications and Assessment Centre

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