



**CATALOG OF ELECTIVE DISCIPLINES**  
 For students in the direction of preparation 8D061 Information and communication technologies  
 Brief description of the elective disciplines of the educational program

EPG	EP	Form of education	The name of discipline	Code of subject	Discipline cycle	Component	Number of credits	Level of training	Cafedra	Course	Academic period	Pre-requisites	Post-requisites	Brief content of the discipline	Key learning outcomes
D094 - «Information technology»	8D06101 - «Big Data Analytics»	Full-time (PHD 3 years) trimestr	Data warehouses and analytical systems	HDAS 7303	AS	Elective subjects	5.0	Doctoral studies by specialization (scientific & pedagogical direction)	Information systems	1	1	Analysis, modeling and design of IS; Structural data analysis; Cloud technologies	PhD student's research work, incl. doctoral thesis	Formation at the doctoral students knowledge and skills of modeling and designing a data warehouse and information and analytical systems	To apply Big data-based analytics toolkits and enterprise decision support.
D094 - «Information technology»	8D06101 - «Big Data Analytics»	Full-time (PHD 3 years) trimestr	Intelligent data analysis in information systems	IADIS 7207	BS	Elective subjects	5.0	Doctoral studies by specialization (scientific & pedagogical direction)	Information systems	1	2	Analysis, modeling and design of IS; Structural data analysis; Cloud technologies	PhD student's research work, incl. doctoral thesis	Formation of the skills of doctoral students working with modern tools for analyzing and visualizing data, methods and algorithms of data mining, as well as their use in scientific research and professional activities	To apply Big data-based analytics toolkits and enterprise decision support. To use in practice the various distributions of the Hadoop Platform, «pencourse» and commercial tools, etc., used for storing, processing and analyzing big data. To apply tools for constructing information and analytical systems.

The catalogue of elective disciplines was reviewed and approved by the faculty council, protocol № 16 от 06.06.2022.

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