

Appended Form 1

Specifications for Major Progra

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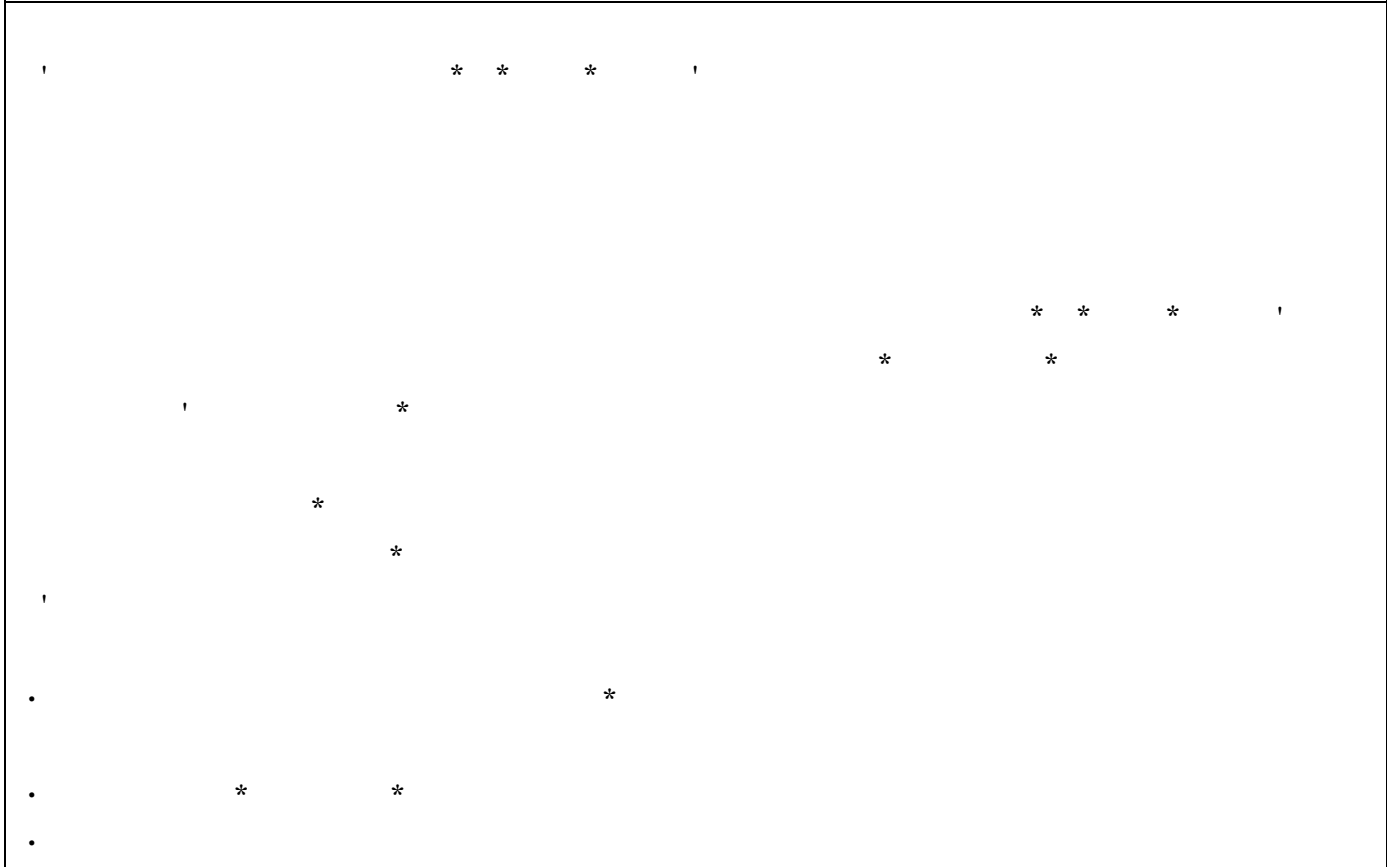
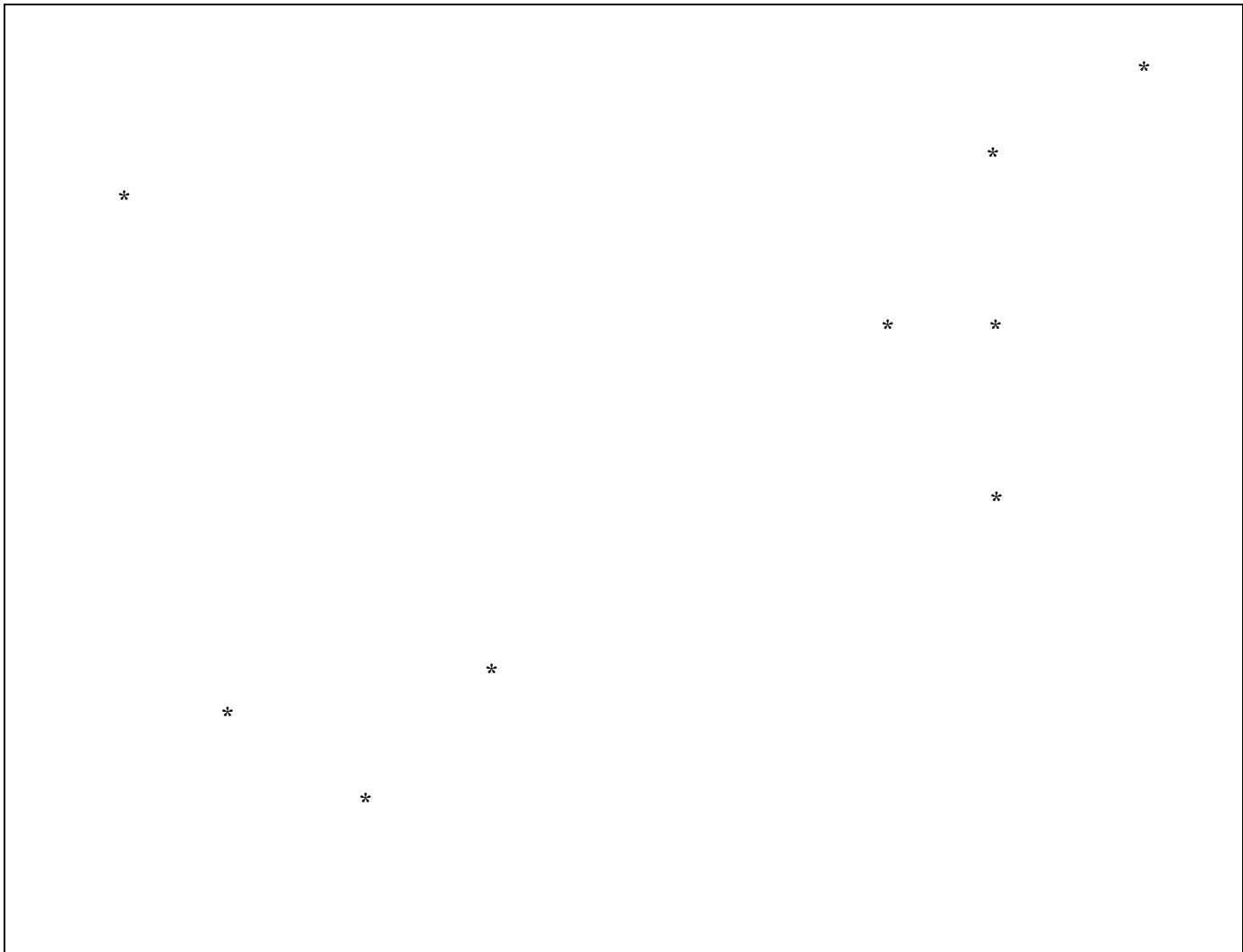
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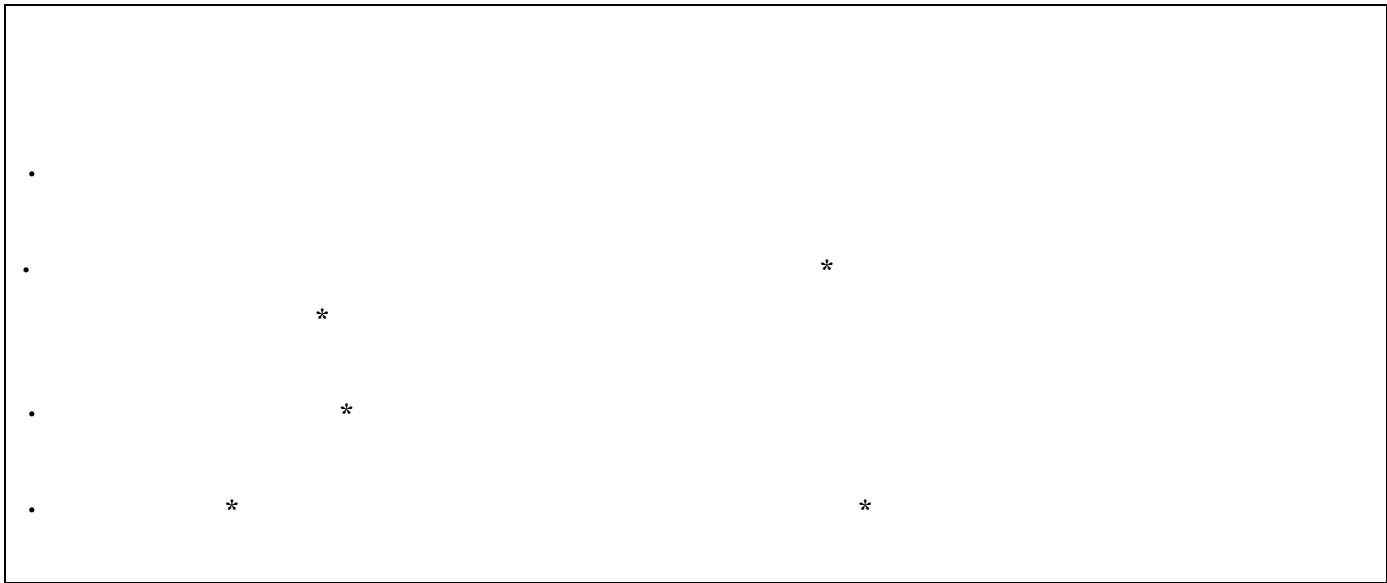
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Academic Achievement Evaluation Items		1st grade		2nd grade		3rd grade		4th grade	
		Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
evidence by using a wide range of knowledge and skills related to data science.									
	(4) I3. Knowledge related to hardware and software, and the programming skills required for efficiently processing data.				(3T)Digital Circuit Design (◎)	(1T)Informatics and data science, Exercise 1 (◎, ◎)	(3T)Visual Computing (Δ, ○)	(1T)Informatics Seminar I (__, ◎)	
					(3T)Operating Systems (○)	(2T)Informatics and data science, Exercise II (◎, ◎)	(3T)Human Computer Interaction (Δ, ○)	(2T)Informatics Seminar II (__, ◎)	
					(4T)Programming Languages (◎)	(2T)Image Processing (__, ○)	(3T)Parallel and Distributed Processing (Δ, ○)		
			(4T)Computer Architecture (○)		(4T)Computer Network (Δ, ◎)				
Comprehensive Abilities	(1) C2. Skills for communication, reading, and writing in English, capabilities required for giving a good, clear oral presentation, and documentation and communication skills that contribute to active discussion.	Basic English Usage I (◎)	Basic English Usage II (◎)	Communication III A (○)		(1T)Practical English I (◎)	(3T)Practical English II (◎)		Graduation Thesis (◎, ◎)
		Communication I A (◎)	Communication II A (◎)	Communication III B (○)					
		Communication I B (◎)	Communication II B (◎)	Communication III C (○)					
		Basic Foreign Languages I (○)							
		Basic Foreign Languages II (○)							
	(2) D3. Ability to examine social needs and issues which are interlinked in a complex manner, using a top-down view to solve the problems through quantitative and logical thinking based on data, diverse perspectives, and advanced skills in information processing and analysis.			(2T)Basic and practice in Categorical data analysis (○)		(2T)Econometrics (○, Δ)	(3T)Biomedical Statistics (○, __)	(1T)Data Science Seminar I (◎, __)	
						(2T)Biostatistics (○, __)	(3T)Society and Data Analysis (Δ, Δ)	(2T)Data Science Seminar II (◎, __)	
							(3T)Total Quality Management and Data Analysis (Δ, Δ)		
							(4T)Big Data (◎, ◎)		
							(4T)Stochastic Processes (○, ○)		
	(3) I2. Ability to provide the most appropriate system solution to a cross-sectional problem in the diversified and complicated information society based on the many forms of cutting edge information technology.			Mathematical Programming (○)	(3T)Algorithms and Data Structures (◎)	(2T)Software Management (Δ, ○)		(1T)Informatics Seminar I (__, ◎)	
				(2T)Software Engineering (○)	(3T)System Optimization (○)	(2T)Information Society and Security (○, ○)		(2T)Informatics Seminar II (__, ◎)	
					(4T)Numerical Computation (○)				
	(4) E. Creative and logical thinking ability for analyzing practical issues and challenges in order to provide rational solutions that match social needs, as well as the capability to realize these solutions.	(1T)Introductory Seminar for First-Year Students (◎)							Graduation Thesis (◎, ◎)

Ex) Liberal Arts Education Specialized Core Subject Specialized Subjects Graduation Thesis

Type of course registration in parenthesis is as (Data Science and Informatics)