

	Sur	rvey o	of SW	business	ses in BH	
ſ	Compony	Employage	Voor starting	Core business	Technology	
	Company A	Employees 50	Year starting 1997	Banking sw, HW dealer	Technology Oracle	-
-	B	120	1997	Vodafone, HP outsource	.Net, mix	
	C	27	1990	E-government, ERP	Oracle/Open source	
	D	70	2000	GIS, Navtec outsource	Java, switching to Cloud	J
	\	/		В	N	

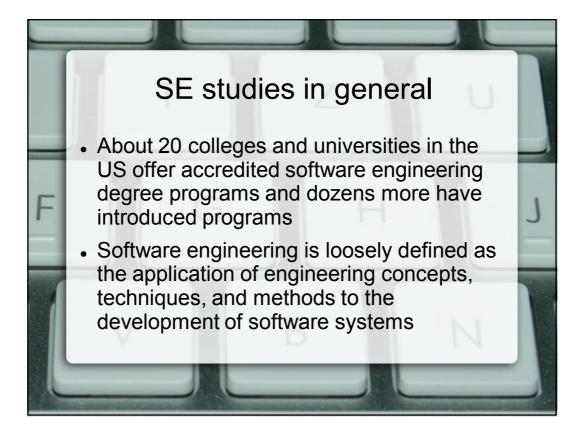


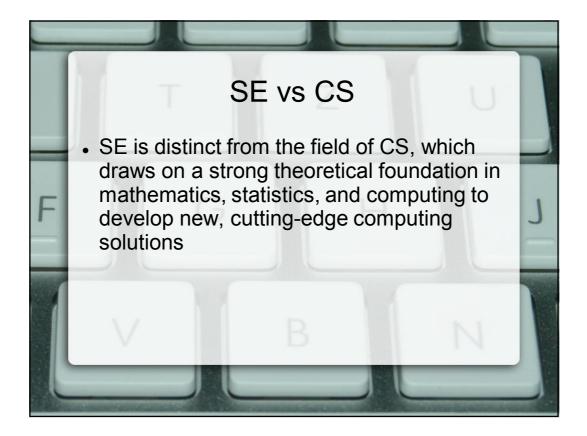
			L					_
	CS curricula	at E	TF	5	Sar	aj	evo	
	l semester							
Ν	Course Name	Course ID	ECTS	H/S	Р	V	Т	
1	Math for Engineers I	PG 01	6,5	75	49	0	26	
2	Basics of EE	PG 02	7,5	80	48	4	28	
3	Physics for Engineers I	PG 03	5,0	60	39	0	21	and the second
4	Linear Algebra and Geometry	PG 04	5,0	60	39	0	21	
5	Introduction to Computing	PG 05	6,0	70	44	26	0	
	Total:		30	345	219	30	96	
	ll semester							
Ν	Course Name	Course ID	ECTS	H/S	Р	V	Т	1
1	Math for Engineers II	PG 06	7,5	80	52	0	28	
2		PG 07	6,5	75	45	10	20	-
3		PG 08	5,0	60	39	0	21	100
4	a b i	PG 09	6,0	70	44	26	0	
5	Electronics Components and Circuits	PG 10	5,0	60	39	0	21	
	Total:		30	345	219	36	90	- 10
	V	В	_			_	N	
	1 2 3 4 5 N 1 2 3 4	I sem ester N Course Name 1 Math for Engineers I 2 Basics of EE 3 Physics for Engineers I 4 Linear Algebra and Geometry 5 Introduction to Computing Total: II semester N Course Name 1 Math for Engineers II 2 Electric Circuits I 3 Physics for Engineers II 4 Programming Techniques 5 Electronics Components and Circuits	I semester N Course Name Course ID 1 Math for Engineers I PG 01 2 Basics of EE PG 02 3 Physics for Engineers I PG 03 4 Linear Algebra and Geometry PG 04 5 Introduction to Computing PG 05 Total: Total: Image: Course ID 1 Math for Engineers II PG 06 2 Electric Circuits I PG 07 3 Physics for Engineers II PG 08 4 Programming Techniques PG 09 5 Electronics Components and Circuits PG 10	I semester N Course Name Course ID ECTS 1 Math for Engineers I PG 01 6,5 2 Basics of EE PG 02 7,5 3 Physics for Engineers I PG 03 5,0 4 Linear Algebra and Geometry PG 04 5,0 5 Introduction to Computing PG 05 6,0 Total: 30 I semester N Course Name Course ID ECTS 1 Math for Engineers II PG 06 7,5 2 Electric Circuits I PG 07 6,5 3 Physics for Engineers II PG 08 5,0 4 Programming Techniques PG 09 6,0 5 Electronics Components and Circuits PG 10 5,0	I semester Course ID ECTS H/S 1 Math for Engineers I PG 01 6,5 75 2 Basics of EE PG 02 7,5 80 3 Physics for Engineers I PG 03 5,0 60 4 Linear Algebra and Geometry PG 04 5,0 60 5 Introduction to Computing PG 05 6,0 70 Total: 30 345 I semester V Course Name Course ID ECTS H/S 1 Math for Engineers II PG 06 7,5 80 2 Electric Circuits I PG 07 6,5 75 3 Physics for Engineers II PG 08 5,0 60 4 Programming Techniques PG 09 6,0 70 5 Electronics Components and Circuits PG 10 5,0 60	I semester Course ID ECTS H/S P 1 Math for Engineers I PG 01 6,5 75 49 2 Basics of EE PG 02 7,5 80 48 3 Physics for Engineers I PG 03 5,0 60 39 4 Linear Algebra and Geometry PG 04 5,0 60 39 5 Introduction to Computing PG 05 6,0 70 44 Total: 30 345 219 Il semester I Math for Engineers II PG 06 7,5 80 52 2 Electric Circuits I PG 07 6,5 75 45 3 Physics for Engineers II PG 07 6,5 75 45 3 Physics for Engineers II PG 08 5,0 60 39 4 Programming Techniques PG 09 6,0 70 44 5 Electronics Components and Circuits PG 10 5,0 60	I semester Course ID ECTS H/S P V 1 Math for Engineers I PG 01 6,5 75 49 0 2 Basics of EE PG 02 7,5 80 48 4 3 Physics for Engineers I PG 03 5,0 60 39 0 4 Linear Algebra and Geometry PG 04 5,0 60 39 0 5 Introduction to Computing PG 05 6,0 70 44 26 Total: 30 345 219 30 I semester N Course Name Course ID ECTS H/S P V 1 Math for Engineers II PG 06 7,5 80 52 0 2 Electric Circuits I PG 07 6,5 75 45 10 3 Physics for Engineers II PG 08 5,0 60 39 0 4 Programming Techniques PG 09	N Course Name Course ID ECTS H/S P V T 1 Math for Engineers I PG 01 6,5 75 49 0 26 2 Basics of EE PG 02 7,5 80 48 4 28 3 Physics for Engineers I PG 03 5,0 60 39 0 21 4 Linear Algebra and Geometry PG 04 5,0 60 39 0 21 5 Introduction to Computing PG 05 6,0 70 44 26 0 Total: 30 345 219 30 96 Il semester N Course Name Course ID ECTS H/S P V T 1 Math for Engineers II PG 06 7,5 80 52 0 28 2 Electric Circuits I PG 07 6,5 75 45 10 20 3 Physics for Engineers II PG 08 5,0 60 39 0 21 4 Progr

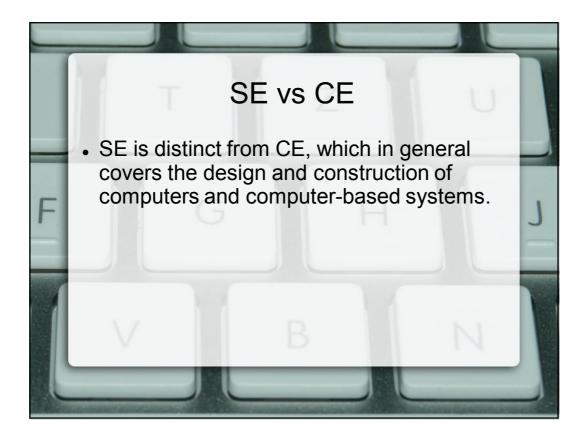
	III semester	II Yea	r					
Ν	Course Name	Course ID	ECTS	H/S	Р	V	Т	
1	Discrete Math	ETF RIO DM 2360	5.5	60	39	0	21	
2	Operating Systems	ETF RIO OS 2360	5.0	60	28	22	0	
3	Algorithms and Data Structures	ETF RIO ASP 2360	5.0	60	38	22	0	
4	Programming Solutions Development	ETF RIO RPR 2360	5.0	60	38	22	0	
5	Logic Design	ETF RIO LD 2360	5.0	60	40	20	0	
6	Elective course 1		4.5	45				
	Total:		30	345				
	Elective course 1							
Ν	Course Name	Course ID	ECTS	H/S	Р	V	Т	
1	System Programming	ETF RII SP 2345	4.5	45	30	15	0	
2	Probability and Statistics	ETF RII VS 2345	4.5	45	30	0	15	
	IV semester							
Ν	Course Name	Course ID	ECTS	H/S	Р	V	Т	
1	Computer Architectures	ETF RIO RA 2460	5,5	60	40	20	0	
2	OO Analysis and Design	ETF RIO OOAD 2460	5,5	60	38	22	0	
3	Introduction to Databases	ETF RIO OBP 2460	5	60	40	10	10	
4	Introduction to Information Systems	ETF RIO OIS 2460	5	60	40	10	10	
5	Elective course 2		4,5	45				
6	Elective course 3		4,5	40				
	Total:		30	330				
	Elective courses 2 and 3							
Ν	Course Name	Course ID	ECTS	H/S	Р	V	Т	2. 2
1	Internet Economy	ETF RII IE 2445	4,5	45	30	15	0	
2	CAD-CAM Engineering	ETF RII CCI 2445	4,5	45	30	15	0	
3	Introduction to Telecommunications	ETF RII OT 2445	4,5	45	30	0	15	
4	Project in Automatics and Informatics	ETF RII PAI 2445	4,5	45	10	30	0	

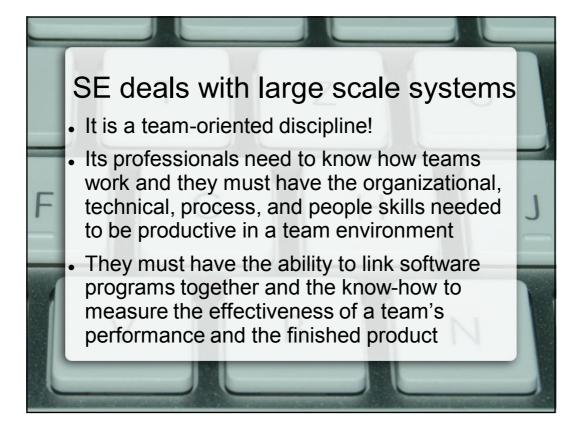
	V semester	II Year						
Ν		Course ID	ECTS	H/S	Р	V	Т	
1	Operational Research Fundamentals	ETF RIO OOI 3560	5,5	60	40	14	6	
2	Computer Graphics	ETF RIO RG 3560	5,0	60	36	16	8	
3	Information Systems	ETF RIO IS 3560	5,5	60	38	38	11	
4	Computer Networks Fundamentals	ETF RIO ORM 3560	5,5	60	40	14	6	
5	Elective course 4		4,5	45				
6	Elective course 5		4,5	45				
	Total:		30	330				
	Elective courses 4 and 5							
Ν		Course ID	ECTS		Р	V	Т	
1	Digital Signal Processing	ETF RII DPI 3545	4,5	45	28	7	10	
2	Computer Networks Administration	ETF RII ARM 3545	4,5	45	28	0	17	
3	Automata and Formal Languages	ETF RII AFJ 3545	4,5	45	30	0	15	
4	Mobile Communications	ETF RII MK 3545	4,5	45	30	8	7	
5	Digital Control Systems	ETF RII DSU 3545	4,5	45	25	15		
6	Elective course from other schools		4,5	45				
	VI semester		1000					
Ν	Course Name	Course ID	ECTS		Р	V	Т	
1	Software Engineering	ETF RIO SI 3660	5,0	60	35	25	0	
2	Web Technologies	ETF RIO WT 3660	4,0	55	35	20	0	
3	Artificial Intelligence	ETF RIO VI 3660	5,0	60	35	25	0	
4	Elective course 6		4,0	45				
5	Graduation work	ETF RIO ZR 36110	12,0	110				
	Total:		30,0	330				
-	Elective course 6							
Ν		Course ID	ECTS		Р	V	Т	
1	Software Quality Assurance	ETF RII PKKS 3645	4,0	45	30	15	0	
2	Engineering and Control System Technology	ETF RII ITSU 3645	4,0	45	30	15	0	
3	Optimization Algorithms	ETF RII OA 3645	4,0	45	30	0	15	
4	Microprocessor System Design	ETF RII PMS 3645	4,0	45	30	8	7	
5	Communication Protocols and Networks	ETF RII KPM 3645	4,0	45	30	10	5	
6	Computer Modeling and Simulation	ETF RII RMS 3660	4,0	45	30	15	0	
		211 101 1005 5000	.,5		50		Ū	_

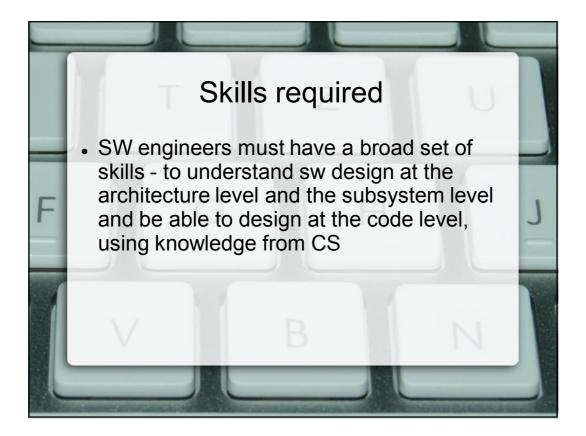


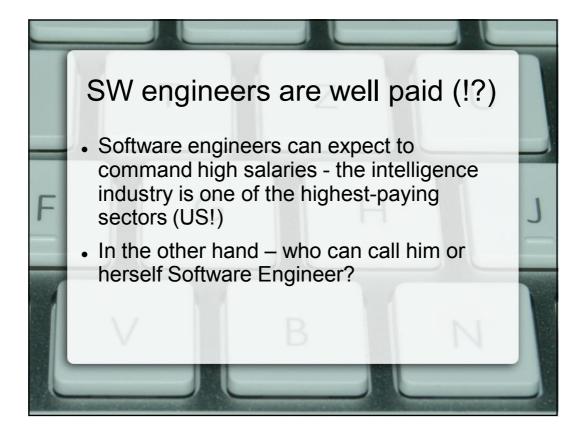


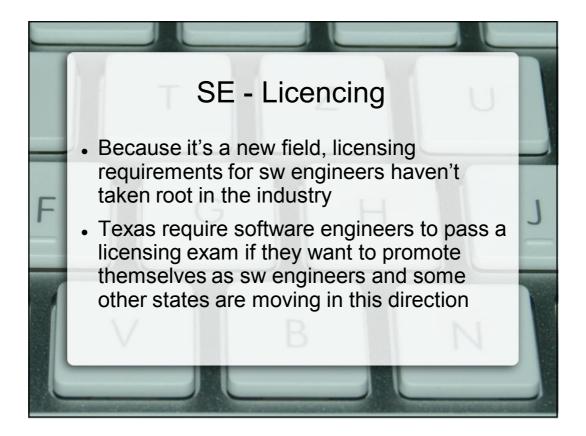


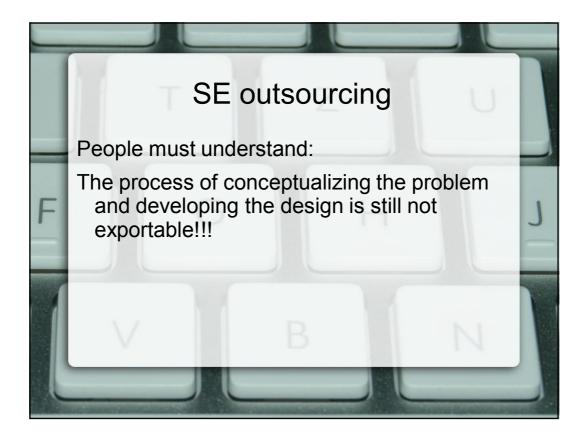


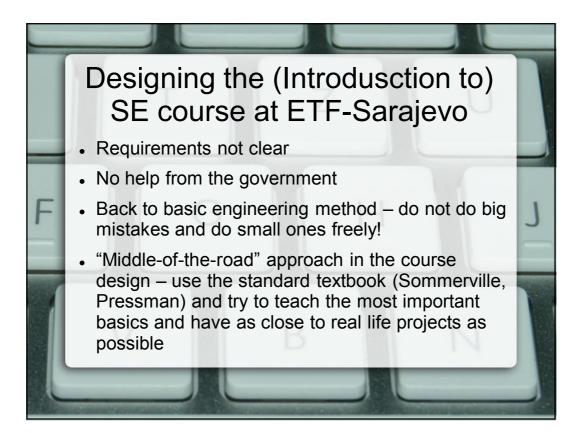












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	Lessons sequence	cing problem	
	DAAD – JCSE	Sommerville	
F	What is Software Engineering? Quality Criteria for Software Products Software process models Basic concepts for the description of software developme Results of the "Analysis and Definition" phase Cost Estimation Basic concepts of the functional view Basic Concepts of the Data Oriented View Basic Concepts of the Rule Oriented View Structured Analysis Basic concepts of scenario-based view Object-oriented Analysis Structured Design Phase Structured design Object-orientation: Programming Style and Methodology	An Introduction to Software Engineering Socio-technical Systems Critical Systems Software Processes Project management Software Requirements Requirements Engineering Processes System models Critical Systems Specification Formal Specification Formal Specification Architectural Design Distributed Systems Architectures Application architectures Object-oriented Design Real-time Software Design User interface design Rapid software development Software Reuse	J
	Systematic testing Functional Testing Software metrics Reverse Engineering Configuration Management Rational Unified Process Extreme programming Service Oriented Arcintecture Test-Driven Development Microsoft Project Personal software process (PSP)	Component-based software engineering Critical systems development Software evolution Verification and Validation Software testing Critical Systems Validation Managing people Software cost estimation Quality Management Process Improvement Configuration management Security Engineering	

