

Appendix I - Program Objectives using the Employer Survey and Alumni Survey

Program Objective	Survey about an employee (IIT-CS Graduate)						Survey of Computer Science Alumni					
	Responses	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	Responses	Excellent	Good	Fair	Poor	
A. Robust problem-solving skills.	8	75.0%	25.0%	0.0%	0.0%	0.0%						
B. Substantial knowledge of a broad class of problem-solving techniques (e.g., this includes Algorithms, heuristics, and design techniques).	8	75.0%	12.5%	12.5%	0.0%	0.0%		36.5%	46.9%	16.2%	0.5%	
							AB1. Rate your preparation for analysis and design of software components or systems.	68	32.9%	47.5%	19.6%	0.0%
							AB2. Rate your preparation to synthesize information and consider alternatives to technical problems.	68	39.7%	46.1%	14.2%	0.0%
							AB3. Rate your preparation to solve technical problems in your area.	68	36.8%	47.1%	14.7%	1.5%
C. Substantial understanding of the fundamentals of Computer Science.	8	75.0%	25.0%	0.0%	0.0%	0.0%		26.0%	48.7%	20.6%	4.7%	
							C1. Rate your preparation to perform research & development in your area.	68	26.5%	45.6%	25.0%	2.9%
							C2. Rate your preparation for implementation of software components or systems.	68	24.0%	57.8%	16.7%	1.5%
							C3. Rate your ability to use tools and technologies of information technology in your work.	68	36.8%	43.1%	18.6%	1.5%
							C4. The Computer Science courses effectively prepared you for your job or graduate study.	68	20.6%	54.4%	17.6%	7.4%
							C5. Your Computer Science background was comparable to, or better than, that of your peers from other institutions.	68	22.1%	42.6%	25.0%	10.3%
D. Ability to clearly communicate technical concepts both orally and in writing	8	50.0%	50.0%	0.0%	0.0%	0.0%		39.7%	32.7%	21.9%	5.7%	
							D1. Rate your ability to communicate effectively when interacting with other employees and management.	68	41.2%	33.8%	19.1%	5.9%
							D2. Rate your ability to communicate effectively when making oral presentations.	68	39.7%	29.9%	21.6%	8.8%
							D3. Rate your ability to communicate effectively when writing reports and proposals.	68	38.2%	34.3%	25.0%	2.4%
E. Ability to readily work with other disciplines.	8	37.5%	50.0%	12.5%	0.0%	0.0%		35.6%	43.5%	17.0%	3.9%	

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						E1. Rate your preparation to deal with the impact of your professional decisions on society.	67	31.3%	46.3%	17.9%	4.5%
						E2. Rate your preparation to handle issues such as quality, cost/benefit, and standards.	67	18.4%	45.3%	27.4%	9.0%
						E3. Rate your preparation for handling ethical issues.	67	38.8%	40.8%	17.4%	3.0%
						E4. Rate your preparation to work in a team with other technical individuals.	67	49.3%	40.3%	9.0%	1.5%
						E5. Rate your preparation to work in a team with individuals from other disciplines.	67	40.3%	44.8%	13.4%	1.5%