## Skills Gained from IT/CET Program

October 4, 2015

Year 1/Semester 1	Skills	Ability
Computer Electronics	Intro to Windows Administration	After 1 <sup>st</sup> semester students have a solid foundation in all
Technician	Local Area Network Concepts	IT concepts involving software development,
Information Technology	Intro to Database Management Systems using Access, Oracle and MS SQL Server Introduction to Programming using Python Introduction to Web Development using HTML 5 CSS 3 and Javascript (?) Technical Communications	networking, database, operating systems and web development.

Year 1/Semester 2	Skills	Ability
Computer Electronics	DC Circuits, High Reliability Soldering, Systems	First year students have begun applied work within
Technician	Analysis & Design, Unix, Hardware, Human Relations	their desired stream, preparing them for work
Systems Administration	Systems Analysis & Design, Intro Network	experience.
	Administration & Management (Operating System &	
	Infrastructure), Unix, Hardware, Human Relations	
Application Development	C#, Systems Analysis & Design, SQL, Intro Object	
	Oriented Programming, Intro Web User Interface,	
	Unix, Hardware, Human Relations	

Year 2	Skills	Ability	
Computer Electronics	C, AC Circuits, Semiconductor Circuits, CAD, LAN	1.	Analyze circuits
Technician	Management, Embedded Controllers, Digital Circuits,	2.	Design a prototype of an electronic device
	Intro Network Administration & Management	3.	Troubleshoot & repair computers & electronic
	(Operating System & Infrastructure), Project		equipment
	Planning		

Year 2	Skills	Ability
Systems & Network	Systems Administration, Intro Network	1. project management & documentation skills
Administration	Administration & Management (Operating System &	2. active directory planning, implementation &
	Infrastructure), Security and Systems Analysis &	directory object management
	Design	3. troubleshooting various network configurations
Database Administration	Intro Network Administration & Management	project management & documentation skills
	(Operating System & Infrastructure), Database	2. enterprise database management using
	administration, Backup and Recovery, Database	database management utilities
	Design, Database Programming, ERP support, Business Intelligence support	3. exploring advanced database design
Database Development	Transactional SQL, SQL, Object-Oriented Programming, Mobile Application Development, SAP	<ol> <li>ability to conduct requirement analysis and assess needs,</li> </ol>
	ABAP Programming, Web Development	<ol><li>exposure to a variety of programming languages and database technologies,</li></ol>
		3. ability to troubleshoot code
Application Development	Object Oriented Programming, C++, C#, PHP	ability to conduct requirement analysis and assess needs,
		exposure to a variety of programming languages,
		3. ability to troubleshoot code
Web Development	Client and server side scripting languages: ASP.NET,	ability to design usable interfaces to meet client
	C#, Ruby on Rails, PHP. Javascript toolkits: jQuery,	needs ,
	AngularJS, Node.js. Content Management Systems,	2. exposure to a variety of web technologies
	Mobile Application Development and Responsive Web Design	ability to troubleshoot code