QEC

NEWSLETTER

Capital University
of Science and Technology
Islamabad

Conducted Freshman Survey for the new intake of Fall 2017
Conducted Exit Survey of graduating students of non-engineering programs
Organized 18th QAC Meeting in Sep 2017 and 19th QAC Meeting in Nov 2017
Organized a seminar on "Thinking Skills for effective Communication"
Organized a seminar of Dr. Sabine Vermillard for "Collaboration and Funding Programs at France"
Visit of French Professors under PHC Peridot Program

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Quality Assurance Mechanism at CUST

Quality Enhancement Cell at CUST focuses on the quality education system through its House of Quality. The strategy with supporting values and overreaching mission and vision stems from our sound character. Our mission is to improve continuously the quality of teaching, learning and administrative support. This is to realize our vision: the institution pursuing the best quality assurance practices in education. Our well defined aims: Teacher Empowerment, Student's Centricity and Programmatic Improvements make an umbrella of quality culture.

A well-defined strategy is adopted to achieve three dimensional aims. The satisfaction of faculty is continuously monitored through faculty satisfaction survey and they are empowered through teaching and research incentives and faculty development programs. Regular counseling sessions are arranged for students, feedback about the courses and teachers are conducted. During graduation, exit survey is conducted to get the feedback about their experience of degree program. After the graduation, employers and alumni surveys are conducted to find more ways of enhancing the level of satisfaction of students.

Programs are improved with the involvement of stakeholders for the preparation of PEOs. Further assessment of CLOs at course level and PLOs at Program level make a suitable path of improvement in the education system during the degree. This is our way of practicing the word of quality in the field of education.

The values we have defined to maintain and improve the environment of quality are:
1. Teacher efficacy
2. Student learning and support
3. Professional and caring administration
4. Transparency in operations
5. Individual, departmental and organizational accountability

Our Vision	To be recognized as the leading educational institution, instilling and pursuing the highest quality assurance practices, both nationally and internationally.
Our Mission	Incorporating continuous quality improvement in teaching, student learning, and administrative support mechanism

Our Aims	**Teacher Empowerment**	**Student Centricity**	**Programmatic Improvements**
	Faculty Development & Capacity Building	Student Counseling	PEOs definition by involving Stake holder
Our Strategy	Faculty Course Review Reports	Student Course Feedback	PLO's Assessment
	Faculty Satisfaction Survey	Research, Design & Innovation	CLO's Assessment
	Teaching and Research Incentive	Employer's Survey & Alumni Survey	CQI Process
	Faculty Exit Survey	Student Exit Survey	New Program Approvals Assessment

Our Values	✓ Teacher efficacy ✓ Student learning & support ✓ Professional & caring administration ✓ Transparency in operations ✓ Individual, departmental, and organizational accountability

Quality Assurance Committee

QAC is the monitoring body of quality assurance processes of teaching and learning at CUST. QAC members are continuously engaged to monitor and ensure the activities of teaching and learning of their respective department with support of higher management. At program level, QAC members ensure the preparation of self-assessment report (SAR) of the program, continuously coordinate and communicate the present status of quality related activities to the Quality Enhancement Cell. Meetings of QAC are arranged periodically to discuss the improvements required for the program and planning of future activities for the purpose of continuous improvement in higher education and to achieve the conformance with higher education commission. QAC has been revised in 18th QAC meeting, Dr. Mueen Aizaz Zafar (Executive Committee Nominee)

and Dr. Nayyer Masood Dar (Academic Council Nominee) were also included in the Quality Assurance Committee according to the statutes of the university. Also, Dr. M. Arshad Islam QAC member from Computer Science Department was been replaced by Dr. Muhammad Aleem.

The new composition of QAC Members is:

1. Prof. Dr. Amir Qayyum, Dean QEC
2. Dr. Mueen Aizaz Zafar, EC Nominee
3. Dr. Nayyer Masood Dar, AC Nominee
4. Dr. Munir Ahmed, Civil Engineering Dept.
5. Dr. Rashid Ali, Mathematics Dept.
6. Dr. M. Ishfaq Khan, Management Sciences Dept.
7. Dr. Muhammad Aleem, Computer Science Dept.
8. Dr. M. Mahabat Khan, Mechanical Engineering Dept.
9. Dr. Umer Amir Khan, Electrical Engineering Dept.
10. Dr. Marriam Bakhtiar, Bioinformatics & Biosciences Dept.
11. Engr. Bilal Ghafoor, Assistant Director QEC

Quality Assurance Committee

QAC Meetings

18th QAC Meeting

18th QAC Meeting was held on Wednesday, September 13, 2017. Dean QEC briefed the committee about the visit of HEC for Institutional Performance Evaluation held on August 21-23, 2017. Detailed discussion by the QAC members on the Exit Survey of Spring 2017 was also conducted. In the meeting, the Alumni Feedback Form was also discussed in detail and then revised with some minor changes.

19th QAC Meeting

19th QAC Meeting was held on Wednesday,

November 22, 2017. In this meeting, self-assessment mechanism was discussed and its further plan was defined for the remaining programs at CUST. All the QAC members of relevant department shared their status of SAR. Also, the Employer Feedback form and MS Student Research Feedback/Review Form was discussed in detail and revised with some minor changes.

Seminar by Prof. Dr. Norman Reid on "Thinking Skills for Effective Communication"

Prof. Dr. Norman Reid, Emeritus Professor from University of Glassgow, Scotland visited Capital University of Science and Technology, Islamabad, Pakistan on Friday, October 6, 2017. He delivered a seminar on "Thinking Skills for Effective Communication". The faculty and staff of the university attended the seminar. Dr. Reid focused on the effectiveness of thinking in the communication skills. During the lecture, he engaged the faculty in discussion on four types of thinking; creative thinking, critical thinking, systems thinking, scientific thinking. He emphasized that the students should be encouraged to ask questions. Dr. Amir Qayyum, Dean QEC, thanked the guest speaker on behalf of the university for visiting CUST and sharing his experience. Then he, along with Dean ORIC, presented a souvenir of CUST to Dr. Norman Reid.
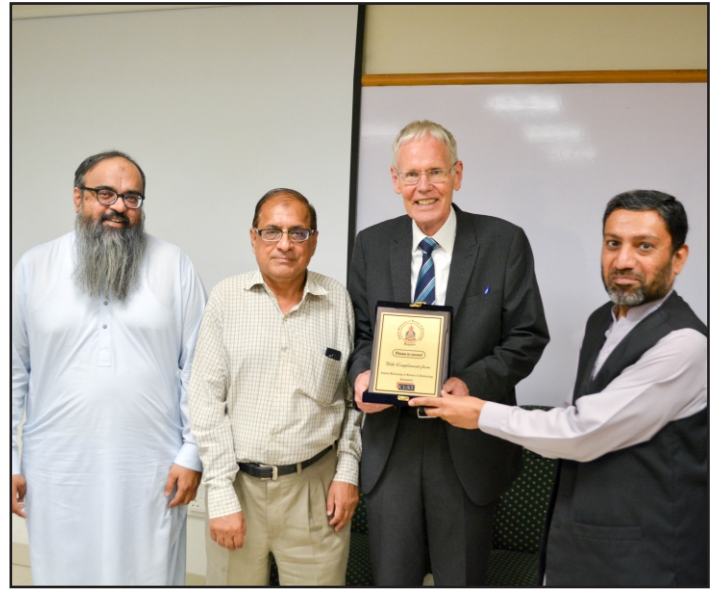
Seminar by Dr. Francesco Pepe on "Collaboration in the Erasmus Mundus Leader Program"

Dr. Francesco Pepe from University of Sannio, Italy, visited Capital University of Science and Technology, Islamabad, Pakistan on Wednesday, September 27, 2017 under the Erasmus Mundus Leader Project of academic collaboration, funded by the European Commission. He met with the Vice Chancellor and also gave a seminar to the faculty and students. He showed keen interest in future academic collaboration with CUST, and his intent to renew the cooperation and collaboration through the European Union program for joint projects. The seminar was attended by the faculty and students of the university. He also visited the university campus and various other lab facilities of the university.

ASIFA KANWAL- BC141089   WHAT STUDENTS AT CUST SAY?

I am a student of Computer Science Department, and I have done BS Computer Science. My brother graduated from CUST (Previously known as MAJU) and he was the motivation for me as graduated student from here. I saw him well groomed after graduation and same is my experience here. The teachers are highly qualified and experienced. They have a supportive and cooperative attitude with all the students. A very positive point that I observed in my teachers is that they really want to see their students at a successful place. The outcome based education system (PEO/PLOs/CLOs) introduced is a sign of improvement of our education system. By defining these terms the course and program learning was cleared to the students and they motivated to clear their concepts about each topic and perform well in their academic area. If I talk about the administrative support I found a very good support whenever I needed. The main strength of the university is cooperative teachers, their way of teaching, extra-curricular activities to groom students and participation in other universities competitions to bring students at front.

Visit of French Professors under PHC Peridot Program

In August 2017, Professor Dr. Isabelle Guerin Lassous and Dr. Thomas Begin from University of Claude Bernard Lyon 1, France visited Center of Research in Networks & Telecom (CoReNeT) at Capital University of Science and Technology (CUST) under the PHC Peridot Program, funded by the Government of France and Higher Education Commission, Pakistan. They visited the university facilities and held meetings with the Vice Chancellor and Deans of the faculties. QEC arranged a seminar consisted of two talks. One talk was on "A New Approach for Association in Wi-Fi Networks" delivered by Professor Dr. Isabelle Guerin Lassous and the second talk was on "Performance Modeling of Virtual Switching Systems" delivered by Dr. Thomas Begin. Researchers and students of CUST attended the seminar.

Visit of Dr. Sabine Vermillard for "Collaboration and Funding Programs"

QEC invited Dr. Sabine Vermillard, Director of International Development and also the Erasmus + Coordinator at Ecole Centrale de Nantes / University of Bordeaux 1, France to visit Capital University of Science and Technology on Monday, December 11 , 2017. She delivered a presentation on various possibilities of collaboration and funding programs of her university. Dr. Sabine was accompanied by the attaché for the Higher Education at the Embassy of French, Mr. Mathien Gaulon, and the Campus France coordinator in Pakistan, Mr. Taha Jamil. Mr. Mathien Gaulon presented on the various opportunities of funding by the Government of France, in collaboration with Higher Education Commission, Pakistan. Mr. Taha Jamil gave a brief presentation on the opportunities of higher education in France. A large number of final year students and faculty attended the seminar.

AYESHA AFTAB- BI141010

WHAT STUDENTS AT CUST SAY?

I joined CUST because I found a great opportunity of winning scholarship here. I am a student of Department of Bioinformatics and Biosciences and I joined its program because it is one of the new areas of science and is an amalgam of biological sciences and computer sciences.

Overall experience of studying at CUST was very good because it provided all the required facilities. We feel confident while competing with students of other universities and excel in all fields of society. Outcome based education system introduced in CUST improved the system of grading as this system evaluates students on the basis of the content goals they achieved. This system allows students to move between institutions with relative ease because of the ability to compare easily across institutions. The administrative staff of CUST is supportive and is capable enough to manage all issues efficiently. The overall environment of CUST is education friendly and ethical. It has competent and supportive faculty that puts all efforts in polishing skills of students. The extra-curricular activities should be conducted all around the year to make the students physically more active. I would like to conclude that I have achieved a high level of satisfaction by studying at CUST.

Undergraduate Program Freshman Survey

The freshman survey was conducted in Fall 2017 by QEC to acquire feedback from the new students of the Computer Science Department. Total 299 students (from both the CS and SE programs) participated in the survey. The participation gender ratio was 83.78% of male and 16.21% female students. The outcome of the freshman survey was extensively discussed in departmental meetings to streamline the preferences related to the new batches. More than 60% students voted for the expectations related to good teaching environment and personality grooming by the university. To fulfill these expectations, policies, and guidelines were discussed in the departmental meetings. It was good to see that the majority of the students chose BS(CS) and BS(SE) programs based on good job prospectus and with self-motivation. Majority of the students were satisfied with the conduct of admission process; however, few students highlighted the issue of transport un-availability.

Graduate Program PEOs and PLOs

Department of Computer Science has initiated the process of developing graduate Program Education Objectives (PEOs) and Program Learning Objectives (PLOs) for both the MS and Ph.D. programs of Computer Science.

Two PEO's have been proposed for MS and Ph.D. programs. The first PEO is related to the engagement of a graduate in research activities of national or international organizations. The second PEO requires the graduate to involve with industry and community towards sustainable development and lifelong learning. To target these two PEOs, 4 PLOs have been proposed for MS Computer Science program. Two PLOs address towards the involvement and contributions of the graduating student for novel research. Other two PLOs are mainly related to the analysis, implementation, and evaluation of complex computing problems using computational and related domains knowledge. For the PhD computer science program, 5 PLOs were proposed in which three PLOs directly target the ability of the graduating students towards novel research.

SADAM JAVED BB-123884

WHAT STUDENTS AT CUST SAY?

I am a student of Management Sciences. I did my BBA degree with specialization in management from Capital University of Science and Technology. I joined this university because my previous institute was Punjab Group of College and also do not see any other good university in this region. There are a number of parameters on which I can share my point of view, but these were the most important among all. If I talk about my learning experience, that is very good. In fact, the teachers here are highly qualified and they are always ready to cooperate in a friendly manner and provide guidance whenever required. The outcome based education system implemented in our program gives a unique way of learning and defines our purpose of learning a course that what we will get after its completion. When I needed any help from administration including staff, I always found their attitude very cooperative.

I would suggest that the university management system should be upgraded and should be made more user friendly. Overall I feel very satisfied with my degree program. It was actually a great opportunity for me to be a part of CUST environment and I would recommend others also to experience the CUST environment for personality grooming and to become an active learner.

QEC Activity Calendar												
Activities	**Sep**	**Oct**	**Nov**	**Dec**	**Jan**	**Feb**	**Mar**	**Apr**	**May**	**Jun**	**Jul**	**Aug**
Students												
Student Course Evaluation			X		X			X		X		
Freshman Survey	X					X						
Graduating Students (Exit) Survey					X					X		
Alumni Survey				X								
Employer Survey						X						
Research Student Progress Review											X	X
Faculty												
Survey of Faculty Satisfaction				X								
Faculty Training on QA Processes								X	X			
Assessment/Review												
Preparation of SARs for all programs	X	X	X	X	X	X	X	X	X	X		
PEO Level CQI - Review of PEO Assessment											X	X
Program Level CQI - PLO Assessment Review											X	X
Course Level CQI - CLO Assessment Review						X						X
Student Level CQI - PLO Assessment Review	X							X				
Course Review Report (CRR) Analysis						X						X
Review and Revision of all Survey Forms					X	X					X	
QEC Documents												
QEC News Letter			X	X					X	X		
QEC Booklet			X									
QEC Score Card	X											X
Events												
QAC Meetings		X			X			X			X	
QEC Seminars/Workshops			X				X					

MARIA AMIN- BMBA161001 — WHAT STUDENTS AT CUST SAY?

Basically, I joined CUST on the advice of my parents as CUST is known to them as a perfect university especially for girls due to its good quality of education and disciplined environment. Truly speaking, I had no idea about the CUST at that time. After joining the Masters in Business Administration (Regular) Program of Department of Management Sciences, I realized that my parents selected the best environment of learning for me. In this dynamic environment of business and technology it is very important to achieve excellence in knowledge and skills. Actually, I want to work in corporate sector that's why it is important to gain a vital business knowledge and practical exposure. My experience at CUST was very good because there are highly qualified teachers who have also experience in the industry and practical implication of the literature. They not only give the bookish overview but also share the realities of the real world. On the other hand, they always welcome the students whenever we need guidance. There is a gym in the university where students can exercise and boost up their physical ability to deal with existing stresses. On the other hand rules and regulations are very controlled where everyone works in their limit. I would like to suggest without any hesitation that if someone wants to increase their mental activity and gain the advance knowledge about the corporate world then he/she should join CUST as it provides a platform for students to work with passion and achieve their goals.

Interview of
Dr. Muhammad Arshad Islam
QAC Member from Computer Science Department

Tell us about your qualifications and achievements in life

Dr. Arshad: I completed bachelor in Software Engineering from Foundation University Islamabad in 2002. Then I joined the MS program in Computer System Engineering of Ghulam Ishaq Khan Institute of Engineering Sciences and Technology.

I was able to secure a scholarship for MS studies along with a teaching assistant position. During this time, I got the first taste of professional life and realized to take teaching as a profession. I was lucky to get a position for Research associate at GIK Institute immediately after completing my Master in 2004. I secured DAAD scholarship for PhD studies in 2005 and moved to University of Konstanz in Germany. Initially, I was supposed to complete basic German language course and later on I joined the Disy (Distributed Systems) research group at department of informatics and information engineering. I completed my PhD in 2011 in the field of routing in opportunistic networks and joined GIK Institute as an assistant professor. After a period of 1.5 years, I joined Mohammad Ali Jinnah University (MAJU) in February 2013 which has now got its own charater and known as Capital University of Science and Technology. So far 4 MS students have completed their research work under my supervision while 4 PhD students are engaged with me.

Briefly tell us about Quality related Activities in Computer Science Department.

Dr. Arshad: When Outcome Based Education (OBE) system was introduced at CUST, I was assigned the task of developing a sound understanding of OBE system and assisting the faculty members of CS Department, for developing CLOs for the courses. At the same time, I joined the quality assurance committee formulated to ensure the QEC standards set by the accreditation bodies. During this time, Department formed two program teams for two BS program, i.e., Computer Science and Software Engineering. These teams have formulated a system of developing course files that are submitted for in house review twice in a semester. The program teams have formulated PLOs for both programs with the consultation of board of studies for CS and SE as well as

with the stakeholders from industry. The department has also presented the profiles of core as well as elective courses to the board of studies and revised several CLOs recommended by the board members. I also had the chance to go through extensive deliberations with the FYP coordinator Mr. Saleem Anwar and Mr. Ibrar Arshad for formulating concise and comprehensive CLOs for final year project.
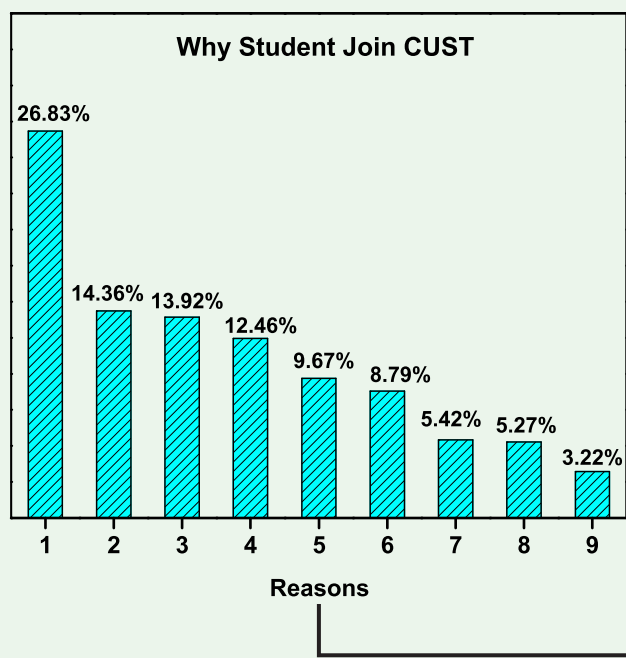
Briefly tell us about Current Quality related Activities in Computer Science Department.

Dr. Arshad: Department is now moving to adapt OBE system for post graduate studies. it had multiple consultations with the faculty members for the formulation of PEO and PLO for MS and PhD Programs.
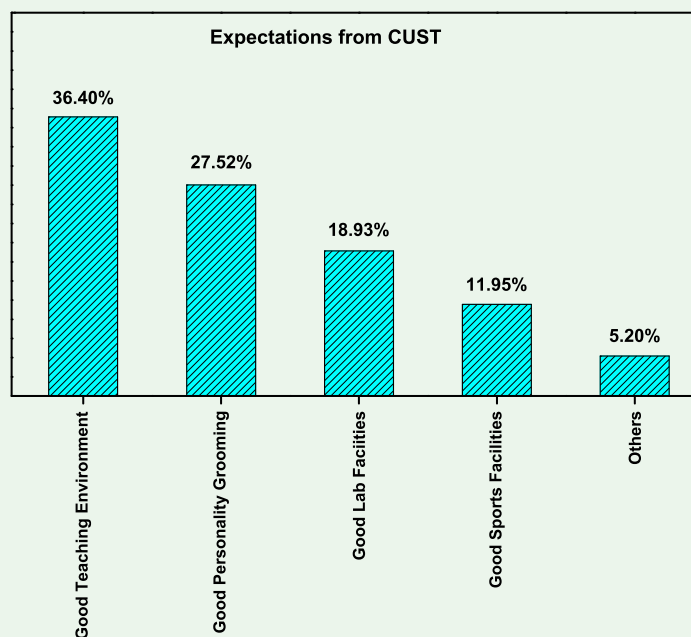
Freshman Survey for Fall-2017

Freshman Survey was conducted for the new intake of Faculty of Engineering, Faculty of Computer Science and Faculty of Management Sciences. Questionnaire's covering the various aspects of the university was asked to know about their backgrounds and expectations that they have from CUST. A total of 717 students from all the faculties participated in the survey.
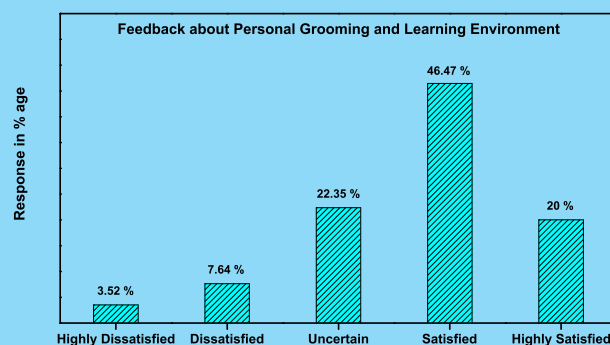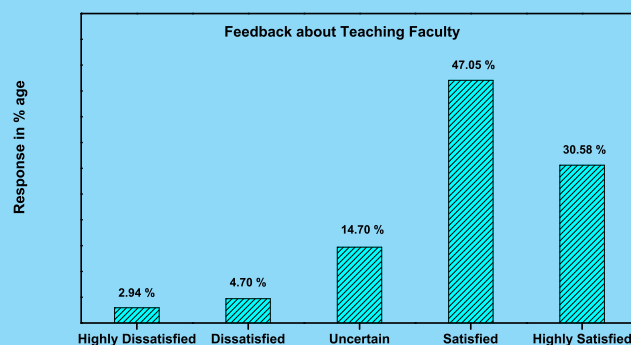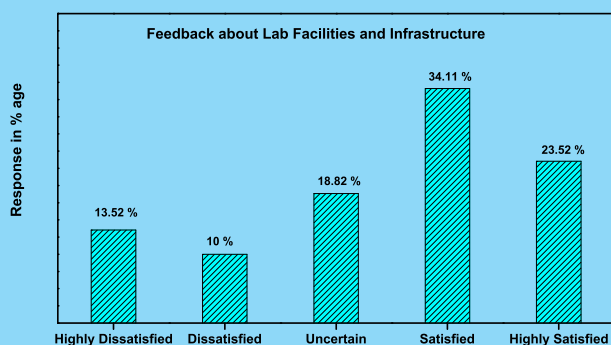
Expectations from CUST

Good Teaching Environment	36.40%
Good Personality Grooming	27.52%
Good Lab Facilities	18.93%
Good Sports Facilities	11.95%
Others	5.20%

Why Student Join CUST

Reasons	
1	26.83%
2	14.36%
3	13.92%
4	12.46%
5	9.67%
6	8.79%
7	5.42%
8	5.27%
9	3.22%

Reasons:

1. Living at Islamabad/ Rawalpindi was Important.
2. Good Quality of education.
3. I personally wanted to be admitted here.
4. My parents advised.
5. Friend Suggested.
6. Some of my friends/siblings are studying here.
7. Discipline and ethical environment is good here.
8. It is easy to reach here.
9. Other reason

Exit Survey for Fall-2017

Exit Survey was conducted for the graduating batch of Department of Computer Science, Department of Bioinformatics and Biosciences and Department of Management Sciences. A total of 170 students participated in the survey, and a summery is given bellow.

Feedback about Teaching Faculty

Response in % age

Highly Dissatisfied	Dissatisfied	Uncertain	Satisfied	Highly Satisfied
2.94 %	4.70 %	14.70 %	47.05 %	30.58 %

Feedback about Lab Facilities and Infrastructure

Response in % age

Highly Dissatisfied	Dissatisfied	Uncertain	Satisfied	Highly Satisfied
13.52 %	10 %	18.82 %	34.11 %	23.52 %

Feedback about Personal Grooming and Learning Environment

Response in % age

Highly Dissatisfied	Dissatisfied	Uncertain	Satisfied	Highly Satisfied
3.52 %	7.64 %	22.35 %	46.47 %	20 %