

QEC

NEWSLETTER



Capital University
of Science and Technology
Islamabad

Spring 2017
Vol.3 No.1



QEC Highlights

- Conducted freshman survey for Spring-2017 intake
- Conducted exit survey for graduating students of Spring- 2017
- Organized 16th QAC meeting in March, 2017 and 17th QAC meeting in April, 2017
- Attended 3-days HEC training on "Governance and Quality Assurance" organized by HEC
- Participated in 2-days HEC workshop for Heads of QEC in May, 2017
- Attended a seminar on Quality Assurance Practices in HEIs at UoW in May, 2017



Table of Contents



1. Quality Enhancement Cell (QEC)
2. Quality Assurance Committee (QAC)
3. Visit of HEC Review Committee for MS/M.Phil & PhD Programs
4. Visit of HEC's National Business Education Accreditation Council (NBEAC)
5. Visit of PEC Team for Re-accreditation of BS Electrical Engg. and BS Mechanical Engg. Program
6. HEC Workshop for Heads of QEC
7. Redesigning of CLOs for Final Year Project (FYP) by Computer Science Department
8. HEC Training on Governance and Quality Assurance
9. National Seminar on Quality Assurance Practices in HEI's
10. Certified Quality Assurance Professional Course (CQAP)
11. Interview of Dr. Munir Ahmad, Member QAC - CE Department
12. Interviews of Graduating Students

Patron

Prof. Dr. Muhammad Mansoor Ahmed

Editors

Prof. Dr. Amir Qayyum
Dr. Muhammad Ishfaq Khan
Mrs. Humera Aftab Sheikh
Mr. Inaam Elahi
Engr. Bilal Ghafoor

Graphic Designer and Photographer

Taaruf Ullah Khaweri

QEC at C.U.S.T.

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

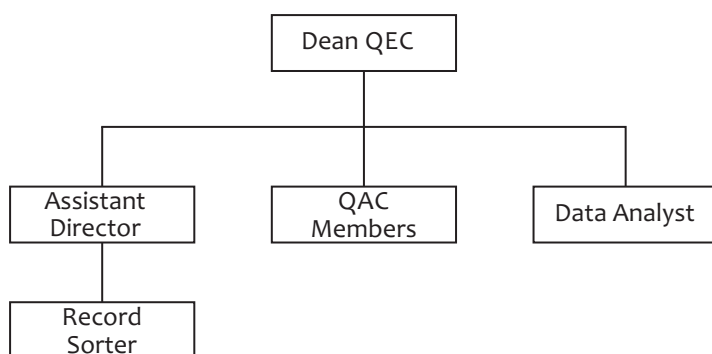
Our Values

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

Quality Enhancement Cell (QEC)

Capital University of Science and Technology, Islamabad (CUST) has always been in the forefront of accepting and adapting best practices for quality education. Recognizing the role that it has to play in higher education sector, CUST has established a Quality Enhancement Cell. This cell has the responsibility to ensure that the university's quality assurance procedures are designed to improve the quality of higher education and that these procedures are also compatible with international standards.

QEC Organogram



Quality Enhancement Cell (QEC) at Capital University of Science & Technology, Islamabad (CUST) is taking deliberate steps to bring about continual improvement in the effectiveness of learning experience of students. Emphasis on internal quality assurance and encouragement of an institutional 'Quality Culture' is part of the strategy of QEC.

QEC believes that quality enhancement and assurance is a collective effort and responsibility. It is the professionalism and creativity of the whole team that makes a vital contribution to the improvement of educational system. The faculty members, particularly, through their engagement with their teaching practice and their attention to students' experience as learners can build a nurturing and conducive atmosphere for learning and growth.

Quality Assurance Committee (QAC)

Quality Enhancement Cell is the monitoring body whereas Quality Assurance Committee executes the processes of quality in all departments and ensures to bring continual improvement in the quality of teaching and learning in

each academic program. Quality of education requires quality of teaching, students learning and administrative support. QAC is headed by the Dean and is comprised of a member representing each academic department. The QAC members are continuously engaged to monitor and ensure the activities of teaching and learning of their respective department with the support of higher management. At program level, QAC member ensures the preparation of Self-Assessment Report (SAR) of the program continuously coordinates and communicates 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 programs and planning of future activities for the purpose of continuous improvement in higher education and to achieve the conformance with Higher Education Commission.



The following are the members of QAC:

1. Prof. Dr. Amir Qayyum, Dean QEC
2. Dr. Munir Ahmed, Civil Engineering Department
3. Dr. M. Arshad Islam, Computer Science Department
4. Dr. Rashid Ali, Mathematics Department
5. Dr. M. Ishfaq Khan, Management Sciences Department
6. Dr. M. Mahabat Khan, Mechanical Engineering Dept.
7. Dr. Umer Amir Khan, Electrical Engineering Dept.
8. Dr. Marriam Bakhtiar, Biosciences and Bioinformatics Department
9. Engr. Bilal Ghafoor, Assistant Director QEC

Visit of HEC Review Committee for MS/MPhil & PhD Programs

HEC- MS/M.Phil & PhD Review Committee comprising of Prof. Dr. Inayatullah Babar (UET, Peshawar), Dr. Muhammad Zubair Ahmad (IQRA University, Karachi),

Dr. Muhammad Farooq (BZU, Multan), Dr. Zahoor Ahmad Bazai (University of Balochistan), MS Humaira Quddus (QAA, HEC Islamabad), Mr. Muhammad Ali Baig (QAA, HEC Islamabad), Ms. Amina Batool and Ms. Mehreen Baig (Review Coordinator, HEC Islamabad) visited Capital University of Science and Technology, Islamabad on 24th and 25th May, 2017.



The Vice Chancellor briefed the HEC Review Committee about the university and its activities with emphasis on MS/M.Phil & PhD programs. The committee met the faculty and students of MS and PhD programs. The committee reviewed the faculty files and other documents of the graduate programs and also had separate discussion with the Deans and HoDs for the MS/PhD programs in their department. The committee also visited various facilities of CUST provided for its academic programs. The committee has appreciated the facilities and shown contentment about the programs.

Visit of HEC's National Business Education Accreditation Council (NBEAC)

The HEC Peer Review visit was conducted by NBEAC from 6th to 8th April, 2017 for the reaccreditation of its BBA and MBA Programs of Management Sciences Department. The visitation team consisted of Dr. Shahid Mir (IBA, Sukkur), Dr. Abdul Razzaq (BUITEMS, Quetta), Dr. Jawad Syed (LUMS, Lahore), Dr. Kumail Abbas Rizvi (LSE, Lahore), Mr. Ahsan Mehmood (Industrial Representative - Channel 7), and HEC representatives. The team carried out a thorough evaluation of the programs and reviewed the Self-Assessment Report (SAR), Strategic Plan and Continuous Improvement Report and other documents prepared for this visit. The team conducted meetings with Dean FMSS, HoD FMSS, Registrar and Controller of Examination. The visit went very well and the team showed satisfaction on the activities of the program.



MB141010 - S.M. ATIF ABBAS KAZMI

What students at CUST say?

I am a student of Management Sciences and I did my MBA (regular) from CUST I was already doing my Chartered Accountancy (CA) from a private institute, but I was interested to get knowledge of management. The MBA (Regular) Program at CUST was good for me as it was fit for my required purpose. Also, the financial assistance was required and CUST provides multiple opportunities of scholarships. One of the best aspects of CUST is that it has experienced and qualified faculty especially the faculty of finance like Dr. Arshad Hassan and Prof. Safdar Ali Butt. The learning environment here at CUST is excellent and the implementation of outcome based education system (OBE) is also a motivation for student. By knowing the required course learning outcomes of a specific course, we get a road map from start of course and can be able to check the current level of outcomes whether achieved or not. While comparing it with other universities, it has a disciplined environment with a good administrative support as far as my experience is concern. I would like to suggest that the extra-curricular activities like sports should also be promoted as it is good for both physical and mental health.



Visit of PEC Team for Re-accreditation of BS Electrical Engineering Program and BS Mechanical Engineering Program

PEC team visited CUST for the reaccreditation of Electrical Engineering program and Mechanical Engineering program. PEC visitation team comprised of Engr. Prof. Dr. M. Inayatullah Babar (Convener), Engr. Prof. Dr. Syed Sajjad Haider Zaidi (PEV-EE), Engr. Dr. Ghulam Hussain (PEV-ME) and Engr. Dr. Hamid Zaigham (PEV/ Industry Representative) and Engr. Jehan Zeb Khan (PEC Representative) on January 26-28, 2017.

PEC Visitation team was given a briefing by Vice Chancellor. After the meeting, the team visited the library, laboratories, and other facilities of the university. A presentation about the activities and program in Electrical Department and Mechanical Department was given by HoD's of respective departments. Discussions and

clarifications were also made during the presentation. The team carried out a thorough evaluation of the programs and reviewed the Self-Assessment Report (SAR) and Continuous Improvement Report and other documents prepared for this visit. They showed satisfaction on the course folders and files which were regularly maintained and also passed through various quality checks. The course folders were also shown to the visitation team and other files of Electrical Engineering Department and Mechanical Engineering Department. The visitation team also interacted with the faculty, lab engineers and students of the departments. The team appreciated the facilities and academic activities of Electrical Engineering and Mechanical Engineering departments.



EE133080 - ATTABIK TABIB

What students at CUST say?

One of my friends told me about positive aspects of CUST. and I joined it. My overall experience at CUST and especially in Electrical Engineering Department is memorable because I liked engineering and the teachers encouraged me to learn engineering concepts.

The OBE system in our university is far better than the generalized education system because it mainly focuses on polishing the required skills to compete in today's challenging environment. The highly qualified faculty is the strength of the university. The teachers motivate the students to learn efficiently and transfer knowledge by implementation of OBE system. Our lab infrastructure and teaching mechanism of lab needs improvement because for engineers, practical knowledge is as much important as theoretical knowledge.

Apart from studies, there are some areas like sports that need improvement. There are relatively less number of sports activities at CUST as compared to other universities. Sports activities are very important for our mental and physical growth just like studies. I am satisfied with the overall experience at CUST.



HEC Workshop for Heads of QEC

Quality Assurance Agency (QAA) of Higher Education Commission (HEC) organized two days activity in which Heads of QEC presented the activities and achievements of their respective QECs and the challenges being faced. Prof. Dr. Amir Qayyum, Dean QEC, from Capital University of Science and Technology, Islamabad presented the status based on the following points:

- Current standing of QEC in the institution that includes full time permanent staff, membership of statutory bodies, available resources for QEC
- Analysis of last year performance as per the score card of 2015-16 that includes identification of weak areas
- Steps taken for addressing those weak areas with implementation status and action plan
- The hindrances in achieving the targets and help required from HEC



Redesigning of CLO's for Final Year Project (FYP) by Computer Science Department

Computer Science Department has re-defined the CLO's of Final Year Project. The credit hours of FYP are also divided as 2-Credit Hours for Part I and 4-Credit Hours for Part II. The Final Year Project provides an opportunity for students to practically demonstrate various computing and interpersonal skills. Three CLO's of Design Project Part

I and four CLO's of Design Project Part II are mapped with PLO's related to communication, problem analysis and design. Each CLO will be evaluated at various stages of development of project, like proposal defense, midterm and final evaluation in both terms by a group of domain experts from faculty and industry.

BC133118-ABDUL REHMAN

What students at CUST say?

I am a student of Computer Science Department. After completion of intermediate studies from Punjab Group of College, Rawalpindi I applied at different universities and also secured admission there, but all my friends got admission at Capital University of Science and Technology, Islamabad (CUST) formerly known as Muhammad Ali Jinnah University (MAJU). I thought it would be a good option for higher studies, along with it there is a good opportunity of scholarships here. The education environment at CUST is very good and the teaching staff is very hardworking and cooperative. I want to share the names of the teacher with whom I have good experience like Dr. Muhammad Azhar Iqbal, Mr. Saqib Shabbir, Dr. Rashid Ali and Dr. Samina Rashid. I did not have a very good experience with the administrative staff. I request the management that GYM should be remained open till 9 pm as at day timings students have classes. There should be a big auditorium as all other universities have auditoriums with good seating capacity. I believe that the learning facility at Capital University of Science and Technology, Islamabad is good.



HEC Training on Governance and Quality Assurance

HEC organized a three days training session on Quality Assurance and Governance. The training consisted of Governance and Management, Quality Assurance

Program in Pakistan and the use of IT Systems in Higher Education. Prof. Dr. Amir Qayyum (Dean QEC), Engr. Bilal Ghafoor (Assist. Director QEC) and Mr. Hassan Awan (Dy. Registrar) from Capital University of Science and Technology, Islamabad attended the training sessions.



ME133058 - HAMZA SADIQ

What students at CUST say?

After visiting so many universities in Rawalpindi and Islamabad, I joined Capital University of Science and Technology, Islamabad because of its well organized and well-designed classrooms and particularly Mechanical Engineering Labs, equipped with advanced machinery.

Being a student of mechanical engineering, I have improved my designing and analytical skills. This objective was achieved through a team of highly qualified and dedicated faculty members who imparted training at different fields of Mechanical Engineering. Professors are very cooperative and they always guide me for various aspects of engineering. Now, I can easily understand the working mechanisms of machine and usually try to add some innovation in it with my knowledge and experience. The well-equipped labs of the department provided me a chance to get hands on experience which is beneficial for my career. Now I am confident that I can compete with the students from the other universities. By the implementation of CLO/PLO, I have identified my weak areas and improved it with time

In final year project, I made a Prototype car for "Shell ECO-Marathon 2018". By getting 3.5 CGPA in every semester, I received financial support of 60% off in tuition fee which is a motivation for me.



National Seminar on Quality Assurance Practices in HEI's

Directorate of Quality Assurance & Enhancement, University of Wah organized a national level seminar on "Quality Assurance Practices in HEI's" on 8th May, 2017.



Engr. Bilal Ghafoor, Assistant Director QEC, from Capital University of Science and Technology participated in the seminar.

Certified Quality Assurance Professional Course

Engr. Bilal Ghafoor, Assistant Director QEC, Capital University of Science and Technology, Islamabad



completed his course in Quality Management from Pakistan Institute of Quality Control (PIQC) in Batch-36, May 2017, Lahore. The title of the project was "Gap Analysis of Capital University of Science and Technology, Islamabad Quality Management System with ISO 9001:2015 requirements".

BB133071 – MUHAMMAD UMAR YAQUB ABBASI

What students at CUST say?

I am a student of Management Sciences. I did my BBA degree from Capital University of Science and Technology. My motivation of joining Capital University of Science and Technology. was my elder brother, who is a gold medalist and he did his degree from here and my family was also satisfied with the university so both factors encouraged me to join Capital University of Science and Technology. After joining, the highly qualified faculty and the excellent campus of CUST really motivated me.

By the implementation of OBE system, a broader vision of the courses enables students to analyze the expected outcome of the course and the program objectives as a whole.

From my point of view, some of the major strengths of the university are the highly qualified faculty, excellent campus, well equipped and excellent classrooms and the encouraging environment.

One thing which must be improved is the theoretical approach. There must be regular industry visits and trips to give the students practical exposure as well. Exchange programs in collaboration with the foreign universities can be a major strength of the university in the coming years. I would like to thank CUST for making me what I am today and all of my teachers who supported, encouraged and guided me well toward the right path and this is all because of them that I am graduating today Alhamdulillah.



Interview of Dr. Munir Ahmad, Member QAC - CE Department

Question: Tell us about your qualifications and achievements in life?

Ans: I did Bachelor of Engineering from University of Engineering and Technology (UET), Taxila, in 2002. Then, I joined National Engineering Services of Pakistan (NESPAK) as Junior Engineer in the Structure Section. I have designed several low, mid and high-rise buildings during 12 years of service in NESPAK. I have been awarded scholarship from HEC to pursue PhD in Structural Engineering from Asian Institute of Technology (AIT), Bangkok in 2007. In November 2014, I joined Capital University of Science and Technology, Islamabad as Assistant Professor in the Dept. of Civil Engineering and became Associate Professor in March, 2016 after meeting criteria set by CUST. Besides teaching, the Structural Engineering Subjects at undergraduate and post graduate level, I have been assigned the task of Quality Assurance of the Civil Engineering Department.

Question: Briefly tell us about Quality Related Activities in Civil Engg. Dept.

Ans: As it is a relatively new dept., I have implemented an outcome based education (OBE) system in the department with the consultation of faculty members and HoD. For

this purpose, we have been arranging three meetings in each semester with the course instructors of Civil Engineering department. The first meeting is before the start of semester, the second meeting is after midterm, and the final meeting is after final term. The purpose of the first meeting is to explain the course folders check list to each instructor for smooth maintaining of course folders and to discuss the course plan. The purpose of the second meeting is to discuss the mid-term result and to review the course folders. Important instructions are disseminated to the faculty and student counselors so that corrective actions can be taken to improve student performance. In the final meeting, overall results are discussed. Furthermore, the teachers are instructed to tag each of their assessment activities (quiz, assignment, midterm and final exam to CLO's). Since the portal system is still under development and implementation phase, the excel sheet has been developed, keeping in view the OBE system for CLO and PLO assessment both at course level and program level. Key Performance Indicators for students at course level have also been defined.



BI133008 – SHIZA NAVEED

What students at CUST say?

Capital University of Science and Technology, Islamabad (CUST) stands out in a queue of delivering quality higher education. With highly qualified faculty members, Bioinformatics Program of CUST is itself a reason of pride for the university. I joined this field after witnessing CUST's graduates of this program who are now working in practical field with high level skills and professionalism. I would like to take a moment to appreciate the faculty members who always strive to achieve high degree of merit during grading and all other matters. A very well defined teaching methodology is adopted to teach a course and the staff of labs is also trained. I really admire the staff of CUST who is comparatively doing well in their constituency. Staff is always available to answer any query or to assist in office or management related tasks. A well-disciplined culture and mutual harmony among the students from diverse cultures is the strength of the university.

There is always room for improvement. University needs to improve the strength of administrative staff as currently, the staff is insufficient to facilitate a large number of students. University also needs to establish a central database for all students and faculty members with an effective system of accountability linked with database. On a scale of 0 to 10, I will rate my satisfaction level on 9 or some way around it.



QEC Highlights

16th QAC Meeting

16th QAC meeting was held on Monday, March 6, 2017. The progress on Self-Assessment Report (SAR) of all departments was discussed. QAC also decided to convene its meetings regularly to discuss the progress of QEC related activities.

Freshman Survey for Spring-2017 Intake

The Freshman Survey was conducted for the students of Department of Management Sciences and Department of Computer Science. Total 189 out of 208 students from both departments participated in the survey.

University Portfolio Report (UPR)

HEC requires University Portfolio Report (UPR) for Institutional Performance Evaluation (IPE) visit. UPR mainly focuses on 11 standards used for the evaluation of higher education institutes. QEC has prepared the Standard 10 of UPR of IPE that was related to "Assessment and Quality Assurance".

QEC Calendar of Activities

QEC has prepared the Calendar of Activities of QEC and also planned the processes of PEO Level, Program level and Course Level CQI.

17th QAC Meeting

17th QAC meeting was held on Thursday, April 20, 2017. In this meeting, QAC revised and updated the previous Freshman Survey Form and Exit Survey Form. The status of SAR of each department was also discussed by the QAC members.

Exit Survey for Graduating Students of Spring-2017

The Exit Survey was conducted for the graduating students of Faculty of Engineering (FoE), Faculty of Computing (FoC) and Faculty of Management Sciences (FoMS). A total of 290 graduating students participated in the survey.

Midterm Course Evaluation

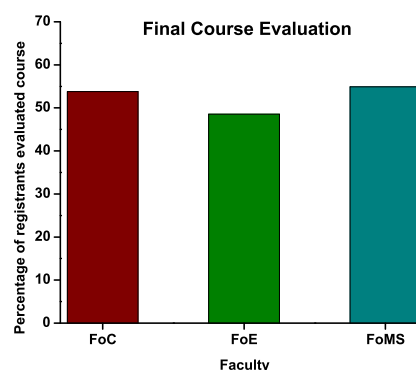
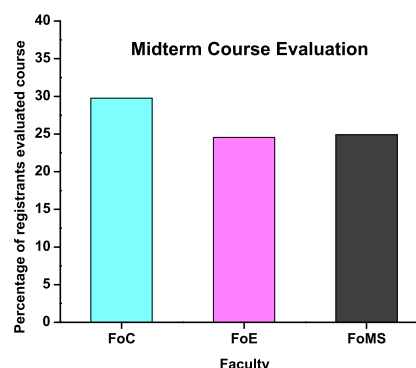
Midterm course evaluation was done by the students before the midterm exams. The students evaluate the course online and the feedback is then forwarded to their respective departments.

2197 course registrants from Faculty of Computing, 1547 course registrants from Faculty of Engineering and 1173 course registrants from Faculty of Management Sciences have participated in the midterm course evaluation.

Final Term Course Evaluation

Final term course evaluation is done before the final exams of semester. The students evaluated the course online and the feedback is then forwarded to their respective department.

3996 course registrants from Faculty of Computing, 3140 course registrants from Faculty of Engineering and 2574 course registrants from Faculty of Management Sciences have participated in the final term course evaluation.



FoC: Faculty of Computing
FoE: Faculty of Engineering
FoMS: Faculty of Management Sciences

Capital University of Science and Technology
Off Kaak Pul, Sihala Road, Zone-V, Islamabad
UAN: 111-555-666
<http://www.cust.edu.pk>