QEC

NEWSLETTER
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Sir Syed University of
Engineering and Technology

QEC Newsletter SSUET Karachi

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Editor's Note

Higher Education is an essential element for economic growth of a society. It requires to develop Quality Enhancement for knowledge and growth of society that could guarantee socio-economic development. With this requirement we need to look into Quality Assurance for quality enhancement. Both, Quality Assurance and Quality Enhancement are distinct activities for seeking better Higher Education. Quality Assurance is collection of policies, procedure, system and practice which are designed to achieve, maintain and enhance quality. On the other hand, Quality Enhancement is a process of augmentation or improvement. It has two standards. On the one hand, it enhances individual learner's knowledge, ability, skills and potential. On the other hand, it improves quality of institution and program of study it gives.

Effective University working is source of Quality Assurance. The self-evaluation of faculty, departments, academic programs are responsible for rigorous, systematic and impartial performance with concrete objective of the institution. Quality Enhancement depends upon excellence reliability and consistence in fulfilling the purpose of Higher Education and meeting of its objectives. Thus Quality Enhancement is taken up as a planned step for continued improvement with effectivity and efficiency in the learning process.

Sir Syed University is involved in and exerting hard for achieving excellent academic performance through continuously improving quality of education it imparts. Its quality enhancement functions are performed with guideline established by HEC and PEC. The QEC of SSUET is following an established calendar of its activities around the year. To record its performance, it is presenting a bi-annual newsletter. This QEC Newsletter is the first issue of QEC which covers the major activities of the year 2018 from January to December.

Arshad Syed Karim

Outcome Based Education System

Process and Cycle

Sir Syed University of Engineering and Technology has implemented "Outcome Base Education (OBE) System" to improve the quality of higher education as per the guidelines of the Higher Education Commission and its accreditation bodies. It provides a very systematic process to define and assess the programs.

Program Educational Objective (PEOs)

Program Learning Outcomes (PLOs)

Course Learning Outcomes (CLOs)

Process of Outcome Based Education

Program Educational Objectives (PEOs) describe the accomplishment of graduates during the first several years following graduation, program Learning Outcomes (PLOs) describe what students are expected to know or be able to do by the time of graduation of program, then Course Learning Outcomes (CLOs) define the outcome of a student after the completion of a specific. The relationship between CLOs., PLOs and PEOs is defined in the diagram 1.

The students' performance is assessed in regard to specific outcomes and improvement in program is maintained to increase student achievements in each outcome.

PEOs reflect the career and professional accomplishments of graduates during the first several years after graduation. Input from students, faculty, alumni, employers and the advisory boards is used to validate the definition of PEOs, as well as to assess their achievement. PEOs are revised periodically to ensure that they should reflect the current industrial trends and the contemporary skills required by the market.

Program Learning Outcomes are defined according to the requirements of the program that an institution want to imparts a specific skill. The outcomes are usually comprehensive and relatively difficult to assess and can be analyzed into elements (actions that explicitly demonstrate mastery of the abilities specified).

Course design is very important as CLOs form the foundation of PLOs. Detailed and measurable CLOs of all courses in a right way are defined to build a strong base and further achieve PLOs and PEOs.

Defining Outcomes of Program

Designing Curriculum according to defined Outcomes

OBE

Defining Method and Assessment Criteria to evaluate Outcomes

Defining relationship between curriculum design and employability after evaluation

* Courtesy CUST

Faculty Expression

Prof. Dr. M. A. Haleem
Chairman
Department of Bio-Medical Engineering

Q1- What are your academic achievement?

Received PhD Degree in Biophysics from University of Leeds, United Kingdom
Received Presidential Award (2002) – Eizaz-e-Fazilat
Experience/ teaching, research, administration, planning and policy making:
Subject Teaching in BME: BIOPHYSICS, BIOMATERIALS, BIOINSTII MEDICAL IMAGING, Taught Biophysics and Biophysical technique to graduate and undergraduate students in the Department of Biochemistry, Karachi University (1965-2003).
Editor of Proceedings (1st National Biochemistry Symposium and Island 2nd ISBBP Symposium).
Organized First International conference on Biomedical Engineering and medical Sciences (Oct 24-25 -2017)

Chairman Dept of Biomedical Engineering Sir Syed University of Engineering and
Technology Karachi from January 2003 to Nov 2017
Officiating all matters of Dept of Bioinformatics (Dec2017 to date)
Chairman of the Department of Biochemistry 30th April 1990 to 29th April 1993 3rd Jan 2001 -2003
GUIDED 6 MS students in the DEPT of biomedical Engineering (BME)
Guided five Ph.D. 14 M.Phil and fifty eight M. Sc. Theses in KU
Research publications are more than 122 in national and international journals Established following courses
Molecular Biophysics/Biophysical Chemistry in the Biochemistry Dept. KU.
Quantum Biochemistry in the Biochemistry Dept. KU.
Techniques in Biochemistry in the Biochemistry Dept. KU.
Biophysics and Techniques in Biotechnology in the dept. of Biotechnology KU.
Biophysics in Biomedical Engineering Dept. in Sir Syed University.
Established several original software's for structural analysis/ molecular graphics using computer facilities in the Biophysics Research Unit.
Established techniques like flame photometry, osmometry, spectrofluorimetry, bio-informatics.
X-ray diffraction and molecular model making in the Biochemistry Dept. KU.
Established techniques and projects in Biomedical Engineering Dept:
Spectroscopy, HPLC and Viscometry, Medical Electronics, Medical Electronics training boards, ETABLISHED LABS IN THE DEPT OF BIOMEDICAL ENGINEERING:Biomedical engineering sciences labs, bioinst lab, biomaterials, biomechanics,computer,anatomy, clinical ,

Faculty Expression

pathological and x-ray Labs, medical electronics and PhD lab. Chitin and cellulose are the most plentiful natural polymers. Both have various biotechnological and biomedical engineering applications. In order to understand clearly molecular arrangement in a unit cell determination of 3D structure of these poly sac charides is required. Therefore, attempts have been made to refine the structure by least square method. Electrolyte balance and osmoregulations using Spectroscopy and osmometry techniques. Computer aided drugs and molecular design Clinical and Bioinstrumentation- Neuroscience.

I have achieved following research credits:

a) 3D structure determination of Biomaterials: chitin and other polysaccharides

b) Effects Of Drugs/ Stress On Blood Pressur And Osmoregulation And Electrolyte Homeostatis

c) Studies on the effects of NSAIDs on serum electrolytes and osmolality

d) Computer Aided Drug Design

Q2- In your opinion how Quality of University can be enhanced?

The university has a highly active Quality Enhancement Cell, working in accordance with the guidelines provided by the HEC. The QEC arranged seminars and workshops to enhance the quality in different sectors of working of the university. QEC helped to obtain NOC for initiation of PhD program in the Biomedical engineering department and also supported recent CIEC data preparation. The QEC should hold regular training programs and workshops for teaching and research

methods and on different mechanics for Quality Enchainment.

Q3- What are present progress of your Department?

1. PhD program initiated this year after obtaining NOC from HEC.

2. 15 MS and 4 PhD students were admitted in the department.

3. Ms. Amber Nawaz and Ms. Ambreen Hasnat received PhD degrees from University of Karachi.

4. Research papers published in National and International journals.

5. Department of Biomedical Engineering and IEEE-EMBS, SSUET organized a series of seminars on "Lab on chip". The speaker of seminar was Engr. Dr. M. Asim Faidi from Sweden.

6. Department of Biomedical engineering and IEEE-EMBS, SSUET organized a series of seminars on "International funding for faculty and scholars. The speaker of the seminar was Engr, Dr, Muhammad Ayaz Khan from USA.

7. Established Post-Graduate lab (PhD).

8. Established Project Lab.

9. Purchased new equipment for blood test in Pathological laboratory, SSUET.

10. Reorganized various labs in the department.

Faculty Expression

**Dr. Muhammad Aamir
Chairman, Department of
Telecommunication Engineering**

Q1- What are your academic achievement?

I received MS degree in Electronic Engineering (with specialization in Telecommunication) in 2002 and BS in Electronics Engineering in 1998. I accomplished my PhD in Electronic Engineering from Mehran University of Engineering & Technology. During my PhD studies, I accomplished my research work at the University of Malaga under Erasmus Mundus Scholarship. I have authored and co-authored more than 50 research papers published in various journals and conferences of international repute. I am a life member of Pakistan Engineering Council and professional member of IEEE for last 12 Years. I was also awarded with a grant by the Ministry of Education Spain to teach at the University of Malaga which he availed in May 2012. I am also Member of NCRC in the Higher Education Commission (HEC) for revision of Electronic Engineering Curriculum and Telecommunication Engineering Curriculum at the National Level. I am guest editor for special issue of Springer's Journal with title "Wireless Personal Communication" which had published in May 2015. I am also HEC approved supervisor for PhD candidates.

Q2- In your opinion how Quality of University can be enhanced?

About quality in education sector, I am fully convinced with HEC's view which says, "Quality in higher education is the most significant object that involves interaction among many factors including quality of faculty and students, infrastructure facilities, research and learning environment, governance and leadership, strategic planning, assessment procedures, and career planning".

Q3-What are present progress of your Department?

As chairman of Telecommunication Engineering Department, I have managed following improvements in my department:

- Successful implementation of SAR for YPR to be submitted to the HEC by QEC
- Formation of 07 Research Groups in the department to enhance research culture
- Formation of 09 Departmental Committees to optimize various functions of the Department
- Strengthening of Class Advisory System in coordination with DSA
- Implementation of paper-less internal communication system within the Department (Faculty Email Group, WhatsApp Group, SMS Group)
- Policy making for semester and final year projects
- Upgradation of Digital Electronic Lab with 20 new trainers to meet requirement of the PEC
- Upgradation of Basic Electronic Lab with addition of 12 Oscilloscopes to overcome the shortage of equipment
- Upgradation of Antenna and Wave Propagation Lab

Faculty Expression

Mr. Muhammad Faraz Khan
Assistant Professor
Computer Science (AIT)

Q1- What are your academic achievement?

I have done MS(CS) in software Engineering , M.Ed and currently pursuing Ph.D in software Engineering from Hamdard University . I have a diversified teaching experience of more than 14 years on the whole of school, College and University.

Q2- In your opinion how Quality of University can be enhanced?

Quality Enhancement Cell plays a vital role in any educational institute and specially in University. Department of QEC and faculty development of SSUET along with all departmental teams have streamlined procedures to enhance teaching standards, developed faculty assessment questioners and Course evaluation questioners

but let me remind you we still have a long way to go in achieving international standards in quality. we have also focused on training of our junior faculty members but as far as I think QEC has a direct relation with the transparency of examination, so we need to make sure the transparency especially in

re-sit examination to improve the standard of education in our university.

Q3- What are present progress of your Department?

As far as my area of development is concerned I personally think there is definite need of teacher's training and faculty development, and for me teaching is a specialized job so untrained teachers mustn't need to enter in this profession, because we never no how much lethal would be an untrained teacher for our society and for our beloved country in the long run. So Inshallah as far as I am concerned I will persistently keep on delivering lectures for development of junior faculty and will utilized my experience and concepts what I learned during M. Ed for teaching in the best possible way. Further faculty development workshops develop curiosity in teachers to learn more and more and develop hunger in them to deliver lectures in a best possible way. Last but not least do remember teachers and students are mirror images of each other so being a teacher if our students are not capable enough we also need to look at on our weaknesses and try to enhance our teaching skills and knowledge.

Graduate Student View

Ghulam-e-Mustafa

HIS VIEW ABOUT SSUET ?

"SSUET MS by research Program opened up many doors to me and although it is undoubtedly a huge learning curve it is well worth the journey."

Coming to Sir Syed University of Engineering and Technology Karachi has been one of the defining moments of my academic career. The two year MS (Industrial Automation) by research program allows me to explore my interest in the different areas of control and automation. The variety of courses along with detailed tutorials by the same teacher provided us an insight of the particular course and urged a desire to choose MS by research work under the dynamic supervision of foreign qualified faculty members namely Dr. Zain Anwar Ali and Dr. Tahir Qadri.

SSUET has opened up many opportunities to me and I here acknowledge the full support of my advisors specifically Dr. Zain whose modern teaching methodology and unconventional teaching style boosted me up to complete my research in the modelling and controlling of nonholonomic systems.

Views of Outgoing Students

Shehzil Khan

HER VIEW ABOUT SSUET ?

It's been a great experience so far. Studying here has not only made me academically strong but also caused me to become a better person in life because at the end of the day what important is how you are as a person inside and out. I remember my first day here, I was anxious, scared, nervous and excited but the teachers and the staff were so welcoming that I soon felt very comfortable. Though it's been a rollercoaster ride from the start but I think it's understandable as a student and I cherish every moment here. The teachers never failed to amaze me here, they motivate and encourage me to be the best of me. My 4 years has not been completed yet but I know for sure they will be very exciting and exhilarating. I hope many students come here and experience what I have experienced and make their journeys wonderful by taking away great memories along.

Zia Askari

HIS VIEW ABOUT SSUET ?

Standing in the shoes of a final year student, I feel myself competent and accomplished in securing technical and professional skills necessary for an engineering undergraduate. Along these years I met one of the finest faculty members which provided the necessary technical knowledge and skill set but in this course of action, they also developed problem solving proficiency and interpersonal skills. The credit is also due to the department for providing with state of the art labs equipped with the necessary apparatuses and computers helping in implementing the theoretical knowledge of each subject. The departmental exhibitions also played a vital role as it provided a platform to the students to show their problem solving skills in form of projects which were also correlated with the courses taught.

Although the undergraduate period is of 4 years but surely in the end it feels that it passed away in a glimpse as there is so much learning happening throughout the years and when one tries to acquire, he finds himself at the verge of his university life.

Subaiyal Ahmed

HIS VIEW ABOUT SSUET ?

As going through different stages and phases of an academic life, as when entering the phase of completing a bachelor's degree is entirely different from the previous rest. It is where we strive for our ambitions and dreams and work hard day and night to achieve our goal. This becomes even more interesting when we finally get admission in what we have desired of to become in life.

When entering Sir Syed University of Engineering and Technology (SSUET), I Subaiyal Ahmed who got enrolled in the newly introduced architecture in batch 2014, clearly making me amongst the first ever Architect to graduate from SSUET. Upon getting the result of admission this made me really excited as it was my lifelong dream to become an Architect. When I and my batch mates entered the university, we were completely

astonished as life's changed. Having to witness new faces, new style of teaching and the completely different environment, we slowly began to sunk in as we knew lifewon't be that easy. But for me and my classmates, the story was a bit different from the rest as we came to newly formed department, we had a completely different experience from the rest of batch 2014. Our journey transitioned from complete nothing to having that everything we needed at the end. The department was being set up, and at the beginning we did we had to struggle. The department didn't had any specific studio which is a major requirement of Architecture, we didn't have much any place to practice our design, not enough faculty to guide us through the difficult times we had in the beginning. As we entered our next years of university life, teachers began to slowly increase, we had our own studio next which was once shared, then we as second year came close to an end started having the facilities the department needed. We had a short trip to Makli Graveyard where we had a sketching workshop led by Zain Mustafa. We finally got Sir Fazal Noor as chairmen when we were in the 4th semester, things began to drastically change as we started having seminars, conferences, more experience Architects from the field such as Arif Hasan, Shahab Ghani etc. started coming and interacting with students. The paradigm completely shifted when we moved to our very own block, having two floors for just architecture. The faculty started to increase, our batch then had a first major trip to Sukkur. This led the doors open to coming years of how a student can experience to travel and explore the Architecture of different regions. Our academic and both administrations started to get strong, we finally had complete knowledge of our results of the work we did throughout the semesters.

The department now had faulty for every subject, experienceteachers, professors, lecturers from different university all started to visit more often and this started to benefit the whole department. In final year with the help and struggle of department, we were able to make another major trip to Kashmir, where students had the opportunity to explore much greater things before ending the fiver-year bachelor's degree with thesis research.

To conclude this journey, I would describe this experience of five-years as life changing as it motivated me to strive and hold on to our goals as we had many ups and downs during our five-year era but still this department survived and each time escalated to new heights. Due to this major reason I was able to complete and achieve my Bachelor's Degree and hope to become a successful architect. As we enter the university we are full of energy and determination we have big dreams and goals which are eager to accomplish, we are high desires to reach to the top and become something that we have always dreamed about but the journey is not just about dreams and imagination and fantasy this journey requires courage and your will to stay firm in the toughest of situations that how you hold on to them.

Aisha Hussain

HER VIEW ABOUT SSUET ?

I Aisha Hussain student of Sir Syed University of Engineering and Technology of Architecture Department of batch 2014 sharing some glimpses of my journey here. While initiating the process of learning we think that we are going to become what we have dreamed of but we become way more than that, the lessons the knowledge just makes you a completely different person in many ways. Studying in SSUET in Architecture has mended my life in many ways it has not only just taught me architecture and designing but taught me how to think in ways I could not even imagine. The best part here which I experienced is that the teachers here are highly cooperative they are available in the time of need when you are struggling with studies or with other issues they are always there to guide you which gives you a feeling that you are in the right hands even if you are falling they are there to catch you. The people I met here friends I made are have just made my journey so memorable and amazing that I cannot even express through words the amount of love I have for them. Our trips whether it is Makli or Moenjo Daro or the Northern areas we have collected so many memories together that they will always hold a special place in my heart.

The time we used in our design studios working together while listening to songs and eating and at the same time designing helping each other in their time of needs were just amazing. The times we used to work up till evening in university to complete work making models together designing simultaneously visiting sites, making models, working whole nights having sleepless days at friend's homes working and enjoying at the same time was just amazing.

But most importantly apart from all that most gratitude not just my heart but in the heart of every architecture student here is for our HOD sir Fazal Noor he was the mentor, the guide he taught us a lot motivated us and above all stood right beside us at every moment we can never really thank him through our words.

In short, studying here has completely changed my life how I used to think, the way I see things and definitely made my vision a lot broader than before. I now look more sensitively to the matters of society and happening in our environment. I really am grateful for the experience and the amount of knowledge I gained from here because now it has made me a person who I should be because in the end we just do not have to provide benefit to ourselves but we have bigger responsibilities as architects we are obliged to concern in the matters happening in our society and environment and how we can resolve them.

I hope everyone's journey here will be as exciting as mine but for the ones who are here and for the upcoming students here I wish them luck that they don't worry at all because they will be in the right hands BEST OF LUCK.

Views of Incoming Students

Ammar Sheikh | HIS VIEW ABOUT SSUET ?

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AREEJ ASIF ALI | HER VIEW ABOUT SSUET ?

"Education is an ornament in prosperity and a refugee in adversity"- ARISTOLE

Being a student isn't all about studying; it's also about learning to live independently and making the most of your new found universe. I, being the undergrad of SSUET, have entered here with a lot of expectation, dreams and wishes.

SSUET is considered as one of the top engineering universities of Pakistan and after entering it, I would definitely second that. The cooperative faculty, helping staff, friendly environment and amazing peers really helped me in digesting the flavor of being a new inductee. I was inducted in the department of software engineering and the reason I choose this field is, because this era is a digital age. Computer programmers' have infiltrated every aspect of our lives, Computer theories, design, develop and apply the software and hardware for the programs, we use day in day out. The environment of SSUET is helping me in making new friends, who encourage me for a healthy competition with our growth. I hope that this relationship with the university helps me grow as per my expectations.

Major Events of QEC

1- Yearly Progress Report (YPR)

Yearly Progress Report (YPR) is a required document for HEC to be prepared by the University in a detailed form on the prescribe HEC Performa. It also requires evidence for all claims made by the University in filling the Performa. Accordingly, HEC gives the point on each standard mentioned in the Performa totaling 100 points. Till the years 2014-2015, the SSUET got the lowest grade which is "Z" because unfortunately the YPR was never submitted to HEC by the QEC of SSUET. It was for the first time that QEC completed YPR in 2015-2016 and secured the highest grade "W" with 85.4 point out of 100. In the year 2016-2017 the YPR of SSUET secured much higher marks of 92.3, again seeking "W" grade by HEC, this shows the continued efforts of QEC in enhancing the overall Quality of Education at SSUET. The QEC has now prepared and sent the YPR of 2017-2018 to the HEC awaiting its results to come in Feb-March 2019.

2- University Portfolio Report (UPR)

The University Progress Report (UPR) is to be prepared by the QEC every two years which is based on the HEC Performa. QEC prepared YPR for the year 2017-2018 with its introduction by HEC. The UPR is overall Progress Report regarding University performance for Quality Enhancement. It is an extensive exercise for the QEC as it requires the depth of information about the university progress in each and every part such as academic, administrative and student's extra-curricular activities, finance, postgrad program etc. 2017-2018 UPR was prepared by QEC presenting a comprehensive report on SSUET's overall performance. After its preparation as per requirement of HEC, the UPR was evaluated by the internal examiners outside SSUET from two Universities of Karachi, NED Engineering University and IoBM.

The two examiners of these two Institutions spent one whole day in going through the UPR for its evaluation and submitted a positive report. They also met senior officials, senior faculty and some junior faculty members, Chancellor, Vice Chancellor, the Registrar and the Deans.

They also met students and visited some class rooms. They visited Library, Medical and Sports facilities also. In short, they saw the whole functioning of the University and then prepared the report. Thus their report presented very comprehensive evaluation.

3- HEC Team Visited SSUET for Institutional Performance Evaluation

The Institutional Performance Evaluation (IPE) Team of HEC made its 2 days visit to SSUET for its evolution in October 2018. The team went through entire procedure of IPE during its visit. It made aa comprehensive and busy schedule touching all aspects of SSUET performance which included Academic, Administrative and Students extra-curricular activities, Finance, QEC, ORIC and Postgraduate Program etc.

The team met the Chancellor, Vice Chancellor, the Registrar, the Deans, the Chairmen, some senior and junior faculties and students including all administrative directors. The focal person of IPE from SSUET was Prof. Dr. Arshad Syed Karim, Director QEC and Faculty Development. They also visited SSUET Library Medical and Sports facilities, few of department classrooms and Labs. Their reports will be sent through HEC in time to come. However, they in their verbal meeting with the Vice Chancellor expressed their satisfactory remarks about the evaluation.

4- AUDIT OF PGP

In accordance with the requirements laid down by the HEC, a yearly review of the Postgraduate Programs of SSUET was carried out by the University-nominated panel with external reviewers. Accordingly, a 5-member Review Panel (RP) at the University was nominated to carry out the Self-Review of the Postgraduate Programs of the SSUET on 30th October 2018. The Self-Review was performed taking into account the three parameters comprising

(i) Review of the University-wide programs' data

(ii) Interactions with the administration, faculty and students of the SSUET and

(iii) Visit to the SSUET facilities. Prior the visit, the SSUET had provided required data/information to the RP members.

The team also went through the relevant records, made on spot queries from the facilitators and checked the samples from the records. The Review Panel comprised the following members:

1. Dr. Muhammad Aslam Bhutto (External Reviewer) Director QEC NED University of Engineering & Technology (NEDUET), Karachi.

2. Dr. Muhammad Wasif (External Reviewer) Deputy Director-II QEC NED University of Engineering & Technology (NEDUET), Karachi

3. Dr. Riaz Uddin (External Reviewer) Deputy Director-III QEC NED University of Engineering & Technology (NEDUET), Karachi

4. Prof. Dr. Najeeb Siddiqui (Internal Reviewer) Associate Dean, Faculty of Engineering (FOE) Sir Syed University of Engineering & Technology (SSUET), Karachi.

5. Dr. Rehan Inam Qureshi (Internal Reviewer) Chairperson Dept. of Software Engineering Sir Syed University of Engineering & Technology (SSUET), Karachi

The following officials of the SSUET performed as Facilitators to the Review Panel (RP).

1. Dr. Muhammad Tahir Qadri, In-charge PG Programs, SSUET

2. Prof. Dr. Arshad Syed Karim, Director QEC, SSUET

3. Dr. Muhammad Tahir (Assistant In-charge PG Programs, SSUET

4. Mr. Aamir Hussain , Manager Operations PGP, SSUET

5. Mr. Amjad Naqvi, Assistant Registrar , PGP, SSUET.

5- PNQAHE is Established

In December 2017 QEC International Conference was held at Khyber Medical University (KMU) Peshawar. In this conference proposal for Pakistan, Network of Quality Assurance in Higher Education (PNQAHE) was made. In September 2018, KMU invited its Executive Committee for PNQAHE final approval and elections of its office bearers. Prof. Dr. Arshad Syed Karim, Director QEC, SSUET was also elected one of the members of the Executive Committee. In that meeting the Executive

Committee elected Prof. Dr. Arshad Syed Karim as the Vice President of PNQAHE, whereas the Vice Chancellor of Khyber Medical University, Prof. Dr. Arshad Jawaid was elected as its President and Syeda Asiyah Bukhari, Deputy Director of QEC, KMU as its General Secretary. It is honor for SSUET to be elected as first Vice President of PNQAHE.

6- Electronics Department Evaluation of SAR, 2018

An audit of SAR-EED was carried out on 28th of November 2018. The meeting was conducted by the external auditor, Dr. Seema Ansari (Chairperson Electrical Engineering Department, IoBM) followed by DR. Lubna Fari (Chairperson Electronics Engineering Department, SSUET) and lead by the team members; Mr. Waseem Ahmed Siddique, Mr. Jawad Ali Bhatti & Ms. Sarah Ahmed. The Electronics Department team worked extremely hard to make this audit successful and it clearly reflected in the result, which was 99.9%.

PNQAHE Write-up

QEC, KMU organized 1st International Conference on Quality Assurance in Higher Education and theme of the conference was **"Impact of Quality Enhancement Practices "**. Higher Education Commission (HEC) awarded One Million Rupees as grant for this Conference in the response to QEC, KMU. On the second day, in the final session of the conference way forward was discussed. It was chaired by the following panel members:

I.   Prof. Dr. Arshad Javaid, Vice Chancellor, Khyber Medical University, Peshawar
II. Dr. Heinz-Ulrich Special Representative of Foundation for International Business Administration Accreditation (FIBAA), Bonn (former Managing Director)
III. Dr. Bassam Al hamad, Director of the Quality Assurance & Accreditation Center, Bahrain
IV. Khalid M. El-Hassan, Ph.D., Higher Education Consultant, Qatar
V.   Asst. Prof. Dr. Donald Francis Staub, Bandirma Onyedi Eylul University, Turkey
VI. Dr. Abdul Wahid Usmani, Consultant Quality Assurance, King Saud University, Riyadh, Saudi Arabia.

Syeda Asiyah Bukhari, Deputy Director presented the proposal of **Pakistan Network of Quality Assurance in Higher Education (PNQAHE)** with following justification:

1. More than 170 QECs have been established and have QA experts but they are not connected with each other on one forum.
2. These QA Experts are invited regularly by QAA, HEC for presenting their progress. However, they are invited phase wise and there are five different phases so they never have a chance to interact with each other.
3. QAA requires them to get membership of international QA network but all of them offer INSTITUTIONAL MEMBERSHIP which does not have any significant status in the network. Thus it costs a reasonable amount of money and there is no/little output achieved so far.
4. QAA, HEC is playing a supervisory role but mentoring or sharing of good practices in QA is not observed.
5. There are instances from other countries where similar networks are established and they are functional such as
a. Oman Quality Network: this network connects different institutes of higher education in OMAN. http://www.oac.gov.om/oqn/members/
b. Irish Higher Education Quality Network: This network connects different higher education institutions http://www.iheqn.ie/member_organisations/default.asp?NCID=133
c. Arab Network for Quality in Higher Education connects different QA bodies from different Arab countries.

News

Quality Enhancement Cell of Khyber Medical University (KMU) proposed Pakistan Network of Quality Assurance in Higher Education in First International Conference on Quality Assurance in December 2017. In the response of that members of the Network (Director QECs of Pakistani HEIs) applied for the Executive Committee of the meeting and first meeting of the Executive Committee held on September 27, 2018 in the KMU. Executive members belong to the provinces of Sindh, Punjab and Khyber Pakhtunkhwa. In the presence of the Interim Committee constituted for the election of positions of the Network including President, Vice President, General Secretary, Joint Secretary and Finance Secretary.

The members of the Executive Committee nominated Prof. Dr. Arshad Javaid ,Vice Chancellor KMU as a President because of his visionary approach and support for Quality Assurance at Higher Education , Syeda Asiyah Bukhari Deputy Director QEC was nominated as General Secretary due to her entire efforts and coordination for the national interest and pioneer of QEC, Prof. Dr. Syed Arshad Karim Director QEC Sir Syed University Karachi nominated as Vice President from the Sindh chapter , Dr. Muhammad Mansha ,Director QEC University of Education Lahore Punjab, nominated as Joint Secretary and Ms. Fareena Iqbal from PIDE, Islamabad nominated as Finance Secretary . Other members of the Executive Committee were Prof. Dr. Farmaullah Director QEC of Agriculture University Peshawar, Dr. Aslam Bhutto Director QEC NED University of Engineering & Technology Karachi, Prof. Dr. Waseeullah Malik Director QEC CUST, Dr. Jahangir Director QEC, Malakand University Dir Lower, Prof. Dr. Imtiaz Ali Shah, Vice Chancellor University of Swabi and Prof. Dr. Abid Ali Shah, Vice Chancellor University of Science & Technology Bannu performed role as Interim Committee members. The Executive Committee appreciated their efforts.
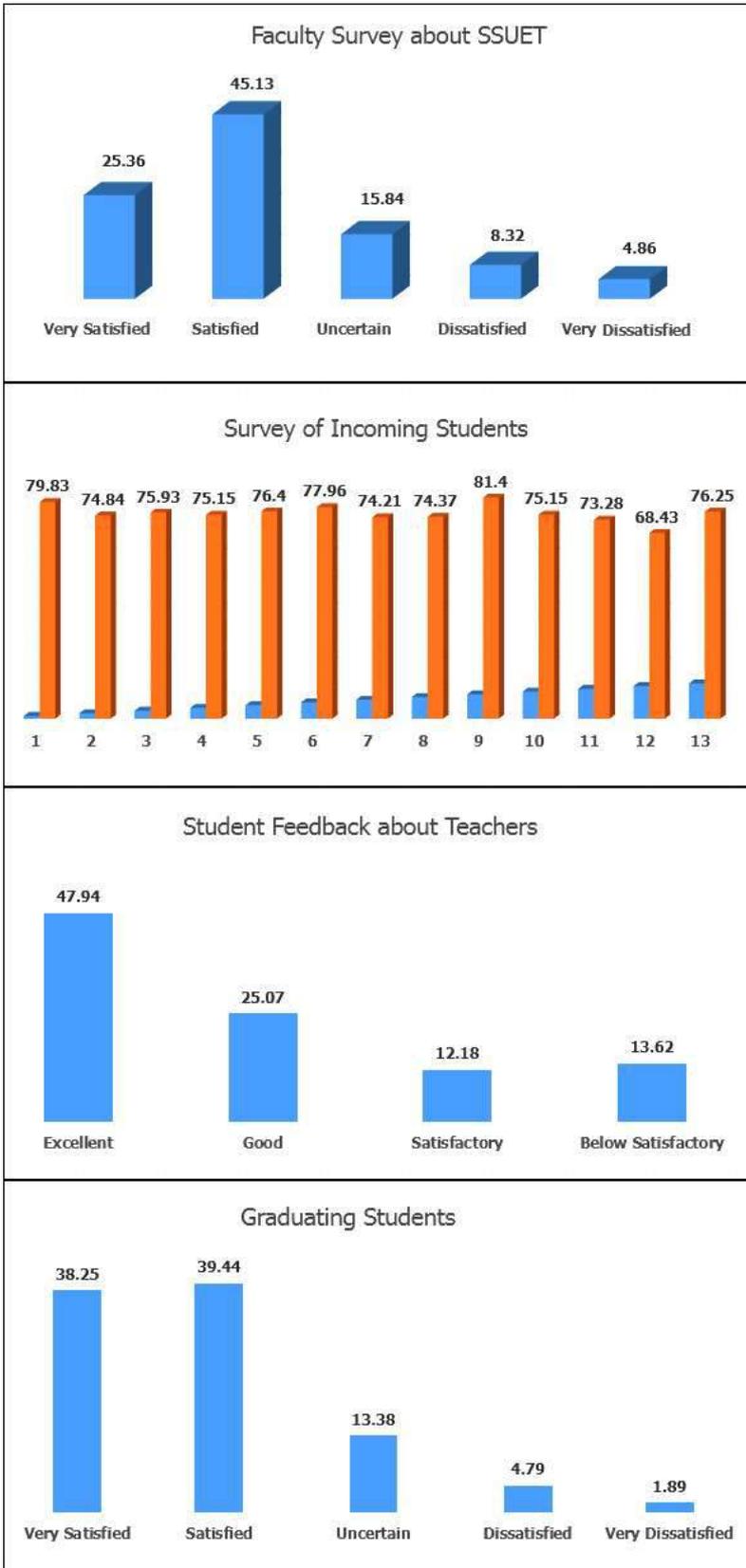
The PNQAHE will be a platform where the entire Quality Assurance practitioner will share their QA practices and way forward for the quality education. In the constitution of the Executive Committee there are total 11 members (two from each province and two from Federally Administered Tribal Area (FATA) and one from QAA, HEC, Pakistan will be responsible to participate in day–to-day activities of the Network. The President of the Network Prof. Dr. Arshad Javaid and members of the committee agreed to organize the second International Conference on Quality Assurance in Higher Education in Pakistan Institute of Development Economics. It was also discussed the aim and objective of the Network will be shared with the Chairman of Higher Education Commission, Islamabad for their support in light of HEC slogan of Quality. Meeting ended with the vote of thanks.

Faculty Development Programs
Held 2018

Sr.No.	Title of Programs	Date	Speaker Name
1.	Scope & Opportunities of Higher Education Abroad	Dec, 31-2018	Dr. Amir (Associate Prof.SSUET)
2.	Thoughts of Sir Syed Ahmed Khan	Dec, 21-2018	Dr. Arshad Javed Rizvi (Associate Prof. SSUET)
3.	Preparation of QEC News Letter	Dec, 15-2018	Editor, Prof. Arshad Syed Karim, (Director QEC)
4.	Meeting of QEC Liaison Officers	Dec, 11-2018	Prof. Arshad Syed Karim, (Director QEC)
5.	P.T Members Training	Nov, 05-2018	Asst. Prof. Waleej Haider (Incharge I.T Deptt.)
6.	Workshop Teaching & Learning through Case Studies	Nov, 07-2018	Asstt. Prof. Rehan, SSUET
7.	Workshop on Outcome Based Education and Learning	Nov, 20-2018	Asst. Prof.Tausif Mubeen
8.	Teaching and Learning through Case Studies	Nov, 29-2018	Dr.Zia Moinuddin (Associate Prof. SSUET)
9.	External review for Self-Assessment Report (EED-SSUET)	Nov, 28-2018	Dr.Seema Ansari (Head of Deptt. EE IoBM)
10.	Meeting of QEC Liaison Officers	Oct, 8-2018	Prof.Arshad Syed Karim (Director QEC)
11.	Awareness of QEC Functioning	Sep, 10-2018	Engr. Faizan Saleem (Asst. Prof .SSUET)
12.	Awareness of QEC Functioning	Sep, 5-2018	Dr. Amir (Associate Prof.SSUET)
13.	Meeting of QEC Liaison Officers	July, 10-2018	Engr. Faizan Saleem (Asst. Prof .SSUET)
14.	IPE a Concrete Foundation for Quality Assurance	June, 21-2018	Prof. Muhammad Sajiad (Advisor QEC, Jinnah University)
15.	My Experience with Institutional Performance Evaluation Exercise	Jun, 29-2018	Ms. Sanam Soomro (Director QEC,Dow University)
16.	Analysis of Evaluation Feedback Performa	May, 2018	QEC, Sir Syed University of Engineering & Technology

17.	Review of SAR of Computer Engg.	May, 2018	QEC, Sir Syed University of Engineering & Technology
18.	Civil Engineering SAR with External Examine	May, 07-2018	QEC, Sir Syed University of Engineering & Technology
19.	Analysis of Evaluation Feedback Performa	Apr, 2018	QEC, Sir Syed University of Engineering & Technology
20.	Preparation of SAR of Civil Engg. Deptt.	Apr, 2018	QEC, Sir Syed University of Engineering & Technology
21.	Work shop on Testing, Evaluation and Assessment of Student	Apr, 18-2018	Dr. Moin Khan (loMB)
22.	Analysis of Evaluation Feedback Performa	Mar, 2018	QEC, Sir Syed University of Engineering & Technology
23.	Preparation of SAR of Civil Engg. Deptt	Mar, 2018	QEC, Sir Syed University of Engineering & Technology
24.	Preparation of UPR for IPE	Feb, 2018	QEC, Sir Syed University of Engineering & Technology
25.	Analysis of Evaluation Feedback Performa	Feb, 2018	QEC, Sir Syed University of Engineering & Technology
26.	Preparation of SAR of Civil Engg. Deptt.	Feb, 2018	QEC, Sir Syed University of Engineering & Technology
27.	Communication Skill One Month Workshop	Feb, 2018	Dr. Arshad Karim (Director QEC. SSUET)
28.	English Language & Official Correspondence course for administrative staff.	Jan, 8to10 -2018	Prof. Hamidullah Farooqui and Amir Hussain (Additional Registrar)
29.	Preparation of UPR for IPE	Jan, 2018	QEC, Sir Syed University of Engineering & Technology
30.	Analysis of Evaluation Feedback Performa	Jan, 2018	QEC, Sir Syed University of Engineering & Technology
31.	Review of SAR of Computer Engg.	Jan, 2018	QEC, Sir Syed University of Engineering & Technology
32.	Computer Engineering SAR with External Examiner	Jan, 09-2018	QEC, Sir Syed University of Engineering & Technology
33.	Workshop On Office Management for Official Correspondence	January, 18-2018	Mr. Amir Hussain
34.	Training Workshop on Word Processing	January18 to 22, 2018	Ms. Fraheen Qazi & Dur-e-Shawar (Lecturers CED)

Survey for Spring 2018

Faculty Survey about SSUET

Very Satisfied	Satisfied	Uncertain	Dissatisfied	Very Dissatisfied
25.36	45.13	15.84	8.32	4.86

Survey of Incoming Students

1	2	3	4	5	6	7	8	9	10	11	12	13
79.83	74.84	75.93	75.15	76.4	77.96	74.21	74.37	81.4	75.15	73.28	68.43	76.25

Student Feedback about Teachers

Excellent	Good	Satisfactory	Below Satisfactory
47.94	25.07	12.18	13.62

Graduating Students

Very Satisfied	Satisfied	Uncertain	Dissatisfied	Very Dissatisfied
38.25	39.44	13.38	4.79	1.89

Reasons

1. The work in the program is educative.
2. The program is effective in enhancing team-working abilities.
3. The program administration is effective in supporting learning.
4. The program is effective in developing analytical and problem solving skills.
5. The program is effective in developing independent thinking.
6. The program is effective in developing written communication skills.
7. The program is effective in developing planning abilities.
8. Whether the contents of curriculum are advanced and meet program objectives.
9. Faculty is well educated and groomed.
10. Environment is conducive for learning.
11. Whether the Infrastructure of the department is good.
12. Whether the program is comprised of Co-curricular and extra-curricular activities.
13. Whether scholarships/ grants are available to students in case of hardship.