



ANNUAL REPORT 2017-2018

**National Agriculture Education Accreditation Council
Higher Education Commission Islamabad**

ABOUT NAEAC

National Agriculture Education Accreditation Council (NAEAC) was established in 2006 by Higher Education Commission (HEC) vide notification 1-4/AGR/QAA/2006-07 dated February 11, 2006 with the mandate to implement a comprehensive program of quality assurance and accreditation of agriculture degree programs in private and public sector agriculture education institutions in Pakistan.

Accreditation of degree programs is mandatory for all academic programs offered by public and private sector institutions. The purpose of such accreditation is to assure quality and enhance recognition of the education institutions among the agriculture community and prospective employers. All institutions in Pakistan which provide a recognized agriculture degree are required to apply to the Council to have their degree programs accredited. The NAEAC is responsible for the accreditation of educational degree programs in all 16 disciplines of agriculture reported in the bye-laws.

There is growing recognition of the importance of accreditation in developing countries to undertake quality assessment and improvement on continuing basis in order to sustain high standard of higher education. The countries and institutions which implement quality assurance program are able to produce graduates which are better qualified and more employable in a competitive market environment.

The major functions of the National Agriculture Education Accreditation Council are to:

- Plan and implement a comprehensive program of accreditation of agriculture programs leading to degrees/diplomas based on HEC approved standards, procedures and evaluation criteria, and publish a list of ranking of degree programs.
- Implement accreditation policies, processes, and procedures for selection of program evaluators.
- Approve the list of evaluators selected based on HEC approved criteria to participate in the process of accreditation of academic programs; and to constitute Accreditation Inspection Committees (AICs) from approved list of evaluators.
- Prepare and upgrade program evaluator's training manual/self-study material, questionnaire, forms and templates.
- Collect information and statistics on accredited programs of higher education of agriculture and its respective institutions and publish them as deemed necessary.
- Provide feedback to HEC and the heads of the agriculture higher education institutions on the quality and accreditation ratings of their programs and recommendations for improvement.

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ACRONYMS

AIC	Accreditation Inspection Committee
BOS	Board of Studies
BZU	Bahauddin Zakariya University
CABB	Centre of Agricultural Biochemistry and Biotechnology
FST	Food Science and Technology
GCUF	Govt. College University, Faisalabad
GCWU	Govt. College Women University
HEC	Higher Education Commission
HOD	Head of Department
HU	Hazara University
IBGE	Institute of Biotechnology and Genetic Engineering
IPFP	Interim Placement of Fresh PhDs
IT	Information Technology
IUB	The Islamia University of Bahawalpur
JUW	Jinnah University for Women
LUAWMS	Lasbela University of Agriculture, Water and Marine Sciences
MNSUA	Muhammad Nawaz Shareef University of Agriculture
MUL	Minhaj University, Lahore
NCRC	National Curriculum Revision Committee
PBG	Plant Breeding and Genetics
PE	Programme Evaluator
PMAS AAUR	Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi
QAA	Quality Assurance Agency
QEC	Quality Enhancement Cell
SWOT	Strengths, Weaknesses, Opportunities and Threats
TTS	Tenure Track System
UAF	University of Agriculture, Faisalabad
UAP	The University of Agriculture, Peshawar
UCA	University College of Agriculture
UET	University of Engineering and Technology
UMT	University of Management and Technology, Lahore
UOS	University of Sargodha
UOL	The University of Lahore
UVAS	University of Veterinary & Animal Sciences

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Chairman's Message

I am pleased to submit the Annual Report of the National Agriculture Education Accreditation Council (NAEAC) for the fiscal year 2017-18. It highlights major activities of the NAEAC during the year and provides details of the accreditation and other related activities undertaken during the year.



The main emphasis of NAEAC during 2017-18 was to achieve the operational targets of work program approved by the Council and resource mobilization in terms of enhanced contribution of the education institutions in meeting the operational cost of accreditation per degree program involving honorarium of experts/external evaluators, transportation, board and lodging.

I am pleased to report that the NAEAC fully met the operational targets in implementing accreditation of 66 degree programs planned for 2017-18 and mobilizing increased financing by the institutions concerned. It is noteworthy that an increase of 73 percent in accreditation fee was received during 2017-18 over 2016-17. In addition, the major universities contributed in kind by providing lodging facilities in their foreign faculty hostels or guest houses etc. for the evaluation teams. These measures have contributed to greater ownership of the accreditation program by the institutions concerned and greater accountability of NAEAC and the evaluators in delivering the high service quality. It is important to report that there has been consistent improvement in the quality of education programs of the well-established old universities and the overall ratings have improved from 13 in 2015-16 to 19 in 2017-18. On the contrary the quality improvement of programmes in the newly established Universities, Colleges and Campuses continue to be slow due to limited teaching and physical infrastructure and lack of adequate support from Provincial Governments.

Lastly, it is my pleasure to acknowledge the guidance of the HEC Management and the excellent cooperation and support of the Council Members, Vice Chancellors, the Deans, and HODs of agriculture institutions concerned including their QECs concerned. I am thankful to Dr. Abdul Rashid and Dr. Ghulam Jilani who are eminent subject experts/program evaluators of NAEAC for their assistance in editing and fine tuning the final draft of the annual report. Also commend the high quality review by the evaluators/experts. Likewise, the NAEAC Secretary and Staff deserves appreciation for consistently demonstrating high standards of performance in achieving the annual operational targets and exercising due diligence and financial prudence in the use of human and financial resources.

A handwritten signature in black ink, appearing to read 'M. E. Tusneem'.

Dr. M. E. Tusneem
Chairman, NAEAC

Executive Summary

National Agriculture Education Accreditation Council (NAEAC) is one of the five HEC established accreditation Councils mandated to improve the standard and quality of agriculture degree programmes based on established policies, procedures and criteria. The Council strives to implement sustainable mechanism of quality assurance to meet emerging challenges of knowledge economy and global competitiveness. The overall objective of the external assessment and accreditation process is to improve the quality of higher education, enhance the capacity of institutions and helps upgrade teaching and physical infrastructure to achieve and sustain academic excellence.

During 2017-18, the Council carried out nine formal accreditation visits, seven follow-up visits for the deferred degree programmes, four visits of the 2nd round of main agriculture universities besides eight pre-accreditation/ zero visits. In all, 28 accreditation related visits were undertaken by the Accreditation Inspection Committees (AICs) of NAEAC for external evaluation and rating of 66 degree programmes in Punjab, Sindh, Khyber-Pakhtunkhwa, Balochistan, Gilgit and AJK.

External assessment and rating of 60 degree programmes is planned for FY 2018-19 in six agriculture universities, eight agriculture faculties/campuses and four agriculture colleges requiring 21 AICs visits.

Pre-accreditation/zero visits initiated in 2015 to assess the level of planning and preparation of the Institution for launching new agriculture degree programmes have become a regular feature of accreditation activities. During 2017-18, eight zero visits were undertaken of various institutions with the objective to sensitise the heads of institutions regarding the process and pre-requisites for initiating new degree programmes as well as to discuss the minimum requirements for accreditation of a degree programme. Four zero visits are planned to the institutions offering new degree programmes during 2018-19.

The Awareness Seminars are an on-going activity of the Council. The objective is to sensitize the academia, students and other stakeholders on the need and importance of quality improvement in higher education. Four seminars were conducted in private and public sector institutions during the year ends report. These were well attended and chaired either by the Vice Chancellor and /or the Dean of the Faculty concerned. The participants of the seminars were explained the purpose, significance, processes, procedures and other pre-requisites of programme accreditation. The Council has planned four awareness

seminars for 2018-19 one each at Khwaja Fareed University, Rahim Yar Khan, Dadabhoy Institute of Higher Education, Karachi, UET, Lahore and University of Sindh, Jamshoro.

Review Meetings with host institutions were held at The University of Poonch, Rawalakot and Gomal University, D.I. Khan. Main objective of these meetings was to assess the status of the implementation of AIC recommendations by the HoDs/Dean for the improvement of the quality of the agriculture degree programmes. Four such review meetings are proposed for FY 2018-19 one each at LUAWMS, Uthal, MNSUA, Multan, Ghazi University, D.G. Khan and University of Swabi.

Quality Enhancement is an ongoing exercise of the Higher Education Commission. The skill development of Programme Evaluators on international best practices is therefore of utmost importance. The Council being cognizant of the value and importance of this activity, has had organized four such workshops over the last 10 years for 120 program evaluators covering all disciplines of agriculture. Foreign resource persons were hired as consultants for these training workshops from Sri Lanka, United Kingdom, and China. Training focused on HEC accreditation processes, procedures, use of toolkits and quality standards/ criteria for rating and assessment. The training also discussed the international best practices and procedures with the participants. The fourth training workshops for 30 programme evaluators of NAEAC was held in October, 2017. It interalia covered the best practices for accreditation and participatory SWOT Analysis and use of NAEAC's toolkit for external peer review. The international resource persons were invariably impressed by the high standard of quality and competence of the evaluators in their respective disciplines. They also admired the HEC and NAEAC management for administering and maintaining high quality of programme evaluation and ratings.

I. Introduction

Accreditation of academic programmes is mandatory as per the Government and HEC rules. The basic purpose of accrediting programmes is to help improve the quality of higher education, enhance capacity of educational institutions and upgrade their infrastructure in order to achieve and sustain academic excellence. The National Agriculture Education Accreditation Council (NAEAC) strives to ensure a consistent and transparent external evaluation and accreditation mechanism of agricultural education degree programmes in Pakistan.

II. Accreditation Activities

2. During 2017-18, main emphasis of the accreditation process was on formal accreditation visits besides non-accredited and sub-standard degree programmes in nine and seven institutions. In the second round, four on-site visits were carried out i.e. PMAS Arid Agriculture University, Rawalpindi; University of Agriculture, Faisalabad; Sindh Agriculture University, Tandojam; and University of Agriculture, Peshawar, wherein 34 degree programmes were evaluated for accreditation. Overall 66 degree programmes were evaluated and rated in four provinces, Gilgit and AJK besides eight pre-accreditation/ zero visits. A summary of these activities is given below:

A. PMAS Arid Agriculture University, Rawalpindi

1. Summary of AIC Visit

Discipline	Agronomy	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	March 3-4, 2010	October 25-26, 2017
Rating	X ₂ (70-74%)	X ₁ with 750 score (75%)
Remarks	Rating improved	

Strengths: (i) Availability of highly qualified and experienced faculty having foreign exposure; (ii) Maintenance of course files, course-teacher evaluation and alumni survey as regular features.

Weaknesses: (i) Insufficient lab equipment and absence of safety measures; (ii) Lack of proper lecture rooms with teaching aids; (iii) Inadequate internship programme at undergraduate level; (iv) Experimental Farm is far away for student training and research; (v) Absence of green/glass house for conducting controlled conditions experiments.



Visit of AICs to PMAS AAU, Rawalpindi

AIC Recommendations: (i) Laboratories need to be strengthened by adding more equipment; (ii) Construction of at least two dedicated lecture rooms with proper teaching aids; (iii) Develop greenhouse/glasshouse facilities for research; (iv) Professional training of the laboratory staff is needed; (v) Strengthening of library facilities; (vi) Arrange students exposure to other research/teaching institutions.

2. Summary of AIC Visit

Discipline	Entomology	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	April 13-14 2009	October 25-26 2017
Rating	X ₁ (75-79%)	X ₁ with 750 score (75%)
Remarks	No improvement	

Strengths: (i) Strong faculty team; (ii) Good lab facilities.

Weaknesses: (i) Little or no space for expansion of laboratories; (ii) Over-crowded /congested labs; (iii) Inadequate support staff; (iv) Far away experimental farm; (v) No/little attention to generic skills.

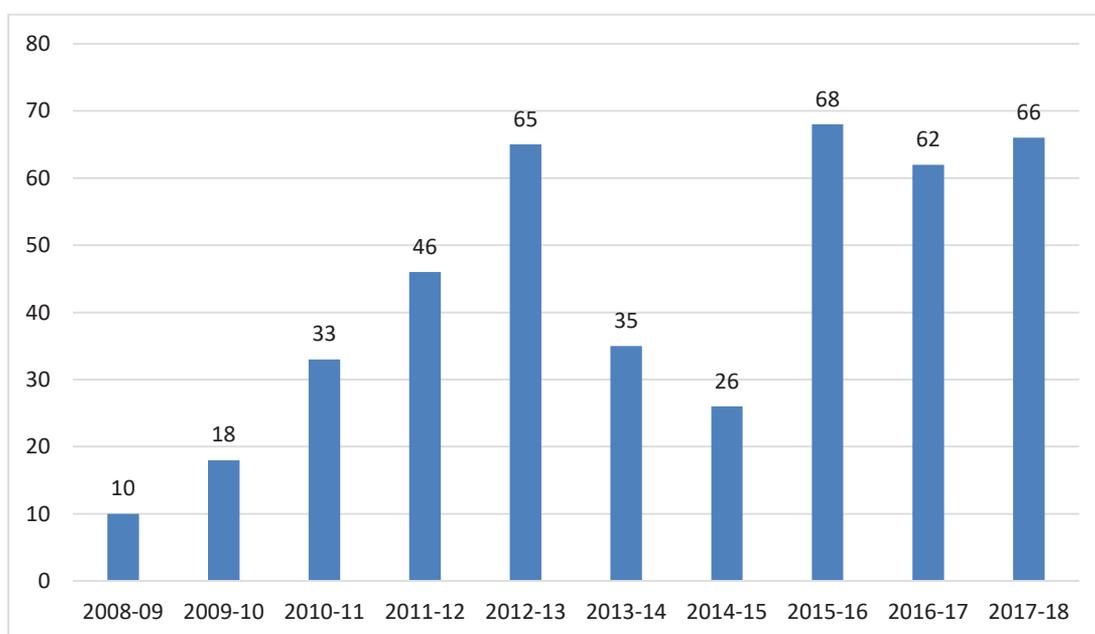
AIC Recommendations: (i) Additional working space is required for laborites, class rooms and offices; (ii) More funds required for the purchase of chemicals and glassware for student practicals; (iii) All the laboratories must be well equipped with first-aid kits/facilities; (iv) Funds should be arranged for faculty members for participation in conferences, seminars and workshops; (v) Linkages must be developed with nation and international universities and R&D institutions.

3. Summary of AIC Visit

Discipline	PBG	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	December 9-10, 2010	October 25-26, 2017
Rating	X ₂ (70-74%)	W ₃ with 850 score (85%)
Remarks	Very significant improvement in rating	

Strengths: (i) The discipline has 10 Ph.D. qualified faculty members; (ii) Course files and lecture breakups are well maintained and observed by all teachers; (iii) Faculty members have more than 50 publications in HEC recognized journals and impact factor journals; (iv) Adequate lab facilities as well as research farm facilities for the conduct of faculty and graduate research; (v) Team work accompanied with a very conducive environment for learning.

Number of Programmes Accredited in a Year



Weaknesses: (i) Laboratory facilities for students training and experiments exist but the undergraduate students are not allowed to operate the equipment for conducting the practicals; (ii) Shortage of class rooms and faculty offices; (iii) Post-graduate research funds are either not available or are out of the reach of research supervisors and are maintained by the central office under the control of Treasurer; (iv) Merit scholarships are also very few, at least 10% students are to be awarded scholarship; (v) Alumni association at the department level is functional but needs to be strengthened; (vi) Only one full professor in the department; (vii) Centralized administrative and financial system under the control of Treasurer.

AIC Recommendations: (i) At least four lecture rooms for undergraduate and masters students are required; (ii) Students field tours must be made mandatory for their field exposure and first-hand knowledge; (iii) Strong system of students' scholarships from the university sources and donor agencies need to be established; (iv) Latest editions of books be purchased/ copied through HEC/ the National Book Foundation; (v) Strengthen laboratory research activities without disturbing closed liaison with sister organizations like NARC and others; (vi) More funds for research activities by empowering the Chairman of PBG to utilize the funds, instead of central control.

4. Summary of AIC Visit

Discipline	Soil Science	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	December 9-10, 2010	October 25-26, 2017
Rating	X ₁ (75-79%)	W ₃ with 822 score (82.2%)
Remarks	Very significant improvement in rating	

Strengths: (i) The discipline has 11 well qualified and trained PhD faculty having vast knowledge of local agriculture production systems; (ii) Adequate and well equipped under-graduate and post-graduate research laboratories, un-interrupted power supply; (iii) Curriculum is periodically reviewed in the Board of Studies and Board of Faculty meetings; (iv) Availability of all required text and reference books; (v) Computer and internet facilities are available to faculty and post-graduate students.

Weaknesses: (i) Teaching faculty needs to develop effective linkages with international and national academic research institutions and agro-industry; (ii) Laboratories support staff is insufficient and un-trained for the job; and (iii) Poor safety arrangements and no fire extinguishers in the labs.

AIC Recommendations: (i) The departmental library needs sufficient space with new editions of text books/national journals; (ii) Internship at the final year of B.Sc. (Hons) degree must be made mandatory and be continued; (iii) Easy access of teachers to participate and present their research in the conferences and seminars; (iv) The faculty and post-graduate research collaborations must be developed at national and international level; (v) Student field tours/study tours must be made mandatory for field exposure; (vi) Continuous monitoring/evaluation of the quality of class room teaching, i.e. students and teachers presence and presentations to be ensured; (vii) Incentive for teachers on research publications, supervision of M.Phil./Ph.D. students and completion of research projects must be introduced.

B. University of Agriculture, Faisalabad

1. Summary of AIC Visit

Discipline	CABB	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	December 17-18, 2012	November 6-7, 2017
Rating	W ₃ (80-87%)	W ₃ with 850 (85%) score
Remarks	No improvement	

Strengths: (i) The Center has 21 faculty members, 95% possess Ph.D. degrees; (ii) The Center has won 15 research projects worth more than Rs 90 million; (iii) The faculty members have written a book and five chapters in international books during the last two years; (iv) Faculty contributed more than 19 publications in HEC recognized journals and impact factor journals; (v) Well established labs and research facilities as well as research farm for the conduct of faculty and graduate research; (vi) Students expressed satisfaction with available facilities and facilitation.

Weaknesses: (i) Undergraduate students are not allowed to operate the equipment for conducting practicals; (ii) Shortage of class rooms and faculty offices; (iii) Post-

graduate research funds are inadequate; (iv) Merit scholarships are very few; (v) Only one full time full Professor in the Center; (vi) Centralized administrative and financial system; (vii) Non-availability of trained laboratory staff; (viii) Limited computing and internet facilities for the students.



Visit of AICs to UAF

Weaknesses: (i) Undergraduate students are not allowed to operate the equipment for conducting practicals; (ii) Shortage of class rooms and faculty offices; (iii) Post-graduate research funds are inadequate; (iv) Merit scholarships are very few; (v) Only one full time full Professor in the Center; (vi) Centralized administrative and financial system; (vii) Non-availability of trained laboratory staff; (viii) Limited computing and internet facilities for the students.

AIC Recommendations: (i) There must be at least five lecture rooms for undergraduate and graduate students; use of multimedia to be further promoted; (ii) The students field tours must be made mandatory; (iii) Strong system of students scholarships from the university sources need to be established; (iv) Training of teaching faculty as well as lab staff is required; (v) Strengthen laboratory research activities within the Center as well as closer liaison with sister organizations; (vi) More funds for research activities and empowering the Director to utilize the funds, instead of central control.

2. Summary of AIC Visit

Discipline	Forestry and Range Management	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	March 7-8, 2011	November 6-7, 2017
Rating	X ₂ (70-74%)	X ₂ with 702 score (70.2%)
Remarks	No improvement	

Strengths: (i) Highly qualified and established programme in the field of Forestry and Range Management; (ii) Extensive field area available for demonstration and experimentation purpose.

Weaknesses: (i) Inadequate space for classrooms and laboratories; (ii) Lack of adequate field tours for demonstration and practicals; (iii) Inadequate maintenance of course files by majority of faculty members; (iv) Insufficient resources to procure updated/modern laboratory equipment/repair of non-functional /out of order equipment.

AIC Recommendations: (i) University authorities must allocate more infrastructure and resources for classrooms and laboratories; (ii) Vacant positions of faculty and support staff to be filled on priority; (iii) Subscription of local and international journals be made to enable the students consult latest reviews and articles related to their discipline; (iv) Necessary arrangements required to enable students to undertake extensive field tours; (v) Faculty must be motivated to avail post-doc and short term training and seek funds for research projects in their areas of expertise; (vi) Faculty also must establish close linkages with sister organizations for effective research and extension activities.

3. Summary of AIC Visit

Discipline	Entomology	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	May 12-13, 2010	November 6-7, 2017
Rating	X ₁ (75-79%)	X ₁ with 775 score (77.5%)
Remarks	No improvement	

Strengths: (i) Well qualified and competent faculty with some having post-doc from abroad; (ii) Enabling environment for research in different fields of entomology; (iii) Well maintained farm area, easily approachable for graduate students.

Weaknesses: (i) Inadequate and well-equipped laboratories with safety arrangements and security plan, class rooms, faculty offices, and green house facility; (ii) Course files are not properly maintained; (iii) Shortage of recurring

budget for conducting research and maintenance of labs; (iv) Inadequate number of recommended textbooks; (v) Non-availability of trained lab staff during practicals.

AIC Recommendations: (i) Additional working space is required for laboratories, class rooms and offices; (ii) Operational budget must be enhanced; (iii) At least

30% of farm income must be shared with the department to sustain the running cost on chemicals, glassware, etc.; (iv) Ensure participation of faculty in conferences, seminars; (v) A large greenhouse for Post-



Visit of AICs to UAF

graduate level research/experiments is needed; (vi) The laboratories should also be well equipped with first aid kits/facilities; (vii) One Photostat machine is recommended; (viii) A linkage should be developed with other national universities and research institutions.

4. Summary of AIC Visit

Discipline	Plant Pathology	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	March 28-29, 2011	November 6-7, 2017
Rating	X ₂ (70-74%)	X ₁ with 778 score (77.8%)
Remarks	Rating improved	

Strengths: (i) The faculty is highly qualified (over 90% PhDs) and experienced with vision and capacity to impart quality education; (ii) Sufficient infrastructure with nine functional laboratories, three class rooms, 20 faculty offices, departmental library and computing facility; (iii) Experimental farm and screen-and glasshouse facility is in place; (iv) Eighteen research projects completed and 13 research projects in-hand from various donor agencies.

Weaknesses: (i) The curriculum revised during 2014 has not been fully adopted; (ii) Some of the young faculty members were not fully aware about course files;

- (iii) The laboratories are deficient in safety arrangements and security system;
- (iv) Insufficient financial resources for operational expenses and there is no grant for the improvement of efficiency of the faculty and the supporting staff.

AIC Recommendations: (i) HEC revised curriculum 2014 immediately needs to be adopted; (ii) The young faculty members needed to be trained on significance and importance of maintenance of course files; (iii) The TTS faculty must be appointed on regular basis for job security; (iv) Laboratory staff must be replaced with adequate and trained supporting staff; (v) Financial assistance must be provided to the internship programmes at B.Sc. (Hons) level; (vi) Sufficient financial resources are needed for operational expenses; (vii) HEC recommended textbooks must be purchased; (viii) Participation of faculty members in conferences, seminars and workshops is essential; (ix) Academia-industry linkages have to be established through MOUs.

C. Sindh Agriculture University, Tandojam

1. Summary of AIC Visit

Discipline	Agronomy	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	March 5-6, 2012	December 13-14, 2017
Rating	X ₂ (70-74%)	X ₃ with 680 score (68%)
Remarks	Rating declined	

Strengths: (i) Students preference for admission in agronomy discipline; (ii) Large experimental farm area for field research and practicals.

Weaknesses:

- (i) Obsolete lab equipment for both teaching and research;
- (ii) Least international exposure of faculty;
- (iii) Non-existence access to digital library;
- (iv) Minimum exposure of undergraduate and postgraduate students to other research/ training institutions.



Visit of AICs to SAU, Tandojam

AIC Recommendations: (i) Strengthening teaching/research laboratories for both the students and the faculty; (ii) Restructuring of class rooms with provision of latest teaching aids; (iii) Provision of opportunities for international exposure of faculty; (iv) Up-gradation of farm implements for demonstration/experimentation; (v) Provision of access to digital library through HEC PERN system; (vi) Students exposure to other research/teaching institutions; (vii) Academic/graduate research must be reviewed through weekly seminars; (viii) Establishing links with national research/teaching institutions.

2. Summary of AIC Visit

Discipline	Horticulture	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	March 19-20, 2013	December 13-14, 2017
Rating	Y ₁ (60-64%)	X ₃ with 660 score (66%)
Remarks	Rating improved	

Strength: Ph.D. qualified and experienced teaching faculty.

Weaknesses: (i) Shortage of young faculty, especially lecturers; (ii) Lack of proper infrastructure with only one lecture room, which is also used for seminars; (iii) Shortage of faculty offices and no meeting room; (iv) No separate/ independent recurring budget for the Department to meet day to day requirements as there is centralized financial system at the University level under the control of Director Finance/Treasurer and Vice Chancellor; (v) Limited laboratory and research facilities having very old equipment and shortage of chemicals; (vi) Shortage of lab equipment, particularly for post-harvest management / physiology, plant tissue culture, etc.; (vii) No funds for research or purchase of equipment, instruments, necessary chemicals, glassware and other supplies; (viii) Non-availability of trained laboratory staff; (ix) Lack of research facilities, i.e., greenhouse, screen house, growth chambers, cold store, etc. for faculty research and students' practical work; (x) Curriculum followed, especially for undergraduate degree programme, is old and outdated; (xi) Lack of training facilities for the faculty; (xii) No viable research projects to develop and strengthen existing research facilities; (xiii) No funds are available for faculty research from the University own resources.

AIC Recommendations: (i) Need to upgrade the Department to the level of Institute and equip with modern teaching and research facilities; (ii) Immediate appointment of new and young faculty at the level of Lecturer or Assistant Professor is essential; (iii) Existing curriculum of B.Sc. (Hons.) agriculture must be revised; (iv) At least five classrooms must be arranged besides faculty offices; (v) Further, two more fully-equipped and functional lab must be established; (vi) Greenhouse need to be constructed for faculty research and students' practical work; (vii) Faculty members should be motivated to write and submit viable research projects to strengthen existing lab facilities; (viii) Contribution by faculty in writing of research papers needs improvement; (ix) Students and faculty members be facilitated and encouraged to attend seminars, conferences, symposia; (x) Provision of internet, computing facilities and access to HEC digital library must be ensured; (xi) Need to create more opportunities of scholarships and financial support to the students.

3. Summary of AIC Visit

Discipline	Food Science and Technology	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	March 7-8, 2012	December 13-14, 2017
Rating	X ₂ (70-74%)	X ₁ with 765 score (76.5%)
Remarks	Rating improved	

Strengths: (i) Well-equipped and functional labs; (ii) Big food processing hall for practical training of the students; (iii) Students have a sense of satisfaction as far as teaching methodology of the teachers was concerned.



Visit of AICs to SAU, Tandojam

Weaknesses: (i) Inadequate Industrial visits and industry linkages; (ii) Shortage of text books for students; (iii) Insufficient lab staff.

AIC Recommendations: (i) Faculty development programmes for younger faculty to be introduced; (ii) Available equipment are very expensive, but not functional; (iii) More lab staff is required to meet programme requirements; (iv) Food processing unit available in the Department has to be made fully functional; (v) Industrial visits of the students need be increased; (vi) Linkages with food industry be encouraged through meaningful MOUs; (vii) Efforts be made to win research grants; (viii) University must allocate sufficient funds for the quality improvement of FST degree programmes.

4. Summary of AIC Visit

Discipline	PBG	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	March 19-20, 2013	December 13-14, 2017
Rating	X ₂ (70-74%)	Y ₁ with 610 score (61%)
Remarks	Rating declined	

Strength: PBG discipline has highly qualified well experienced faculty.

Weaknesses: (i) Labs are poorly equipped with lab equipment, instruments, chemicals, glassware, etc. for class practicals; (ii) Inadequate funds for faculty and students research; (iii) Faculty offices are insufficient; (iv) Internet and other ICT facilities are unsatisfactory for the faculty and students; (v) Faculty performance is poor in terms of grant hunting, text books, and linkages with national and international institutions and stakeholders.

AIC Recommendations: (i) Basic lab equipment, like microscopes, electronic balances, seed counters, meter rods, PCR, electrophoresis, gel doc system, chemicals/glassware etc. must be provided; (ii) Training programme to be organized for newly appointed faculty; (iii) Faculty members may be motivated to submit and win research grants; (iv) University administration may do counseling of faculty for establishing team work and conducive/cooperative work environment; (v) Option of specialized elective courses at postgraduate level need to be provided to students; (vi) Enrollment for special problems and seminars must be ensured at postgraduate level as per HEC guidelines; (vii) Faculty must include course review reports in their course files; (viii) More funds and facilities may be provided to faculty and

students for research, participation in seminars/conferences at other institutions; (ix) Study tours and co-curricular activities must be ensured; (x) More focus is required on improving IT skills, counseling of the students and increasing scholarship facilities; (x) Alumni association, placement bureau and counseling for students are required.

5. Summary of AIC Visit

Discipline	Soil Science	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	March 5-6, 2012	December 13-14 2017
Rating	X ₂ (70-74%)	W ₃ with 842 score (84.2%)
Remarks	Very significant improvement in rating	

Strengths: (i) Qualified teaching and research faculty with Ph.D. degrees and Post-Doc; (ii) Labs equipped with sophisticated audiovisual system; (iii) Provision of a good departmental library with essential and latest text and reference books, and journals; (iv) Existence of research and experimentation facilities, like experimental fields, greenhouses, sample preparation room and wire house.

Weaknesses: (i) Lack of repair and maintenance facilities for equipment; (ii) Limited and relatively small space for lecture rooms; (iii) Lack of trained faculty in soil physics and soil survey; (iv) International professional teachers training programmes is not in place.

AIC Recommendations: (i) Three more classrooms are needed; (ii) Periodicals and journals for faculty and students to be procured; (iii) Ensure more computer/internet facilities in the offices of Faculty members and laboratories; (iv) Adequate budget for increasing Dept. facilities; (v) More HEC opportunities, scholarships and financial aids; (vi) Budget allocation for equipment, instruments, chemicals, glassware and books to be increased.

D. The University of Agriculture, Peshawar

1. Summary of AIC Visit

Discipline	Agri. Chemistry	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	June 13-14, 2011	February 7-8, 2018
Rating	X ₃ (65-69%)	X ₃ with 690 score (69%)
Remarks	No improvement	

Strengths: (i) Well qualified Ph.D. faculty in different areas of chemistry; (ii) Strong coordination with other research organizations.

Weaknesses: (i) Non-availability of senior faculty at professor level; (ii) Shortage of class rooms due to increasing enrollment; (iii) No greenhouse facility to conduct experiments under controlled conditions; (iv) Lack of IT training of Faculty and support staff; (v) Non-availability of funds to improve laboratory facilities, i.e., chemicals, latest lab equipment for quality lab experiments; (vi) Classrooms without overhead and multimedia facilities.



Visit of AICs to The UAP

AIC Recommendations: (i) Induction of senior faculty at professor level is needed; (ii) More classrooms equipped with multimedia are required; (iii) Provision of relevant and latest books/journals be ensured; (iv) Specialized trainings on report writing and presentation skills be arranged; (v) Industry-based internship and need-

based research is required to improve the degree programmes; (vi) Faculty career development plan must be introduced; (vii) Efforts are required to promote and encourage the use of innovative teaching methods; (viii) To ensure quality graduate research, the lab and greenhouse facilities may to be upgraded; (ix) Selection of research topics for graduate as well as faculty research should be market demand oriented and relevant to the industry; (x) Adequate operational budget provisions is essential for chemicals, glassware, repair/maintenance of equipment and purchase of conventional instrument, updated text books, reference books and journals.

2. Summary of AIC Visit

Discipline	Horticulture	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	June 13-14, 2011	February 7-8, 2018
Rating	Y ₁ (60-64%)	X ₂ with 720 score (72%)
Remarks	Rating improved	

Strengths: (i) Highly qualified and adequately experienced faculty capable of imparting quality education; (ii) Strong preference of students for horticulture as major subject.

Weaknesses: (i) Inadequate space for class rooms and faculty offices; (ii) Lack of modern lab equipment for advanced research; (iii) Non-availability of greenhouses, tunnels and cold store (post-harvest studies), etc.; (iv) Insufficient funds for research and lab equipment; (v) Inadequate computer and internet facilities for graduate students and faculty.

AIC Recommendations: (i) Laboratory facility must be upgraded with modern equipment; (ii) Infrastructure for post-harvest research, like cold store, greenhouses (2 Nos), plastic tunnels, must be constructed soon; (iii) Latest edition text books and journals of international repute for respective subjects be added every year; (iv) Computer and inter-net facilities must be upgraded; (v) Allocation of sizeable budget for important activities related to quality research and teaching; (vi) Day care facility be established for children of female faculty members; (vii) Department must be upgraded to Institute of Horticultural Sciences.

3. Summary of AIC Visit

Discipline	IBGE	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	May 13-14, 2011	February 7-8, 2018
Rating	X ₁ (75-79%)	W ₃ with 831 score (83.1%)
Remarks	Very significant improvement in rating	

Strengths: (i) Highly qualified faculty with diversified vision and a strong will to work; (ii) Comprehensive infrastructure including state-of-the-art laboratories, class rooms, library and internet facilities; (iii) Departmental library is well organized and has good number of course/reference books equipped with computer, scanner and photocopier; (iv) Quality of research of the faculty members is impressive.

Weaknesses: (i) Students complaints for the non-availability of merit scholarship; (ii) Annual allocation of budget is inadequate for the post-graduate research; (iii) Though first aid boxes are available in the labs but fire extinguishers are not in place; (iv) Medical as well as sports facilities are insufficient; (v) Although computer facilities are adequate but are having problems of continuous connectivity and download speed.



Visit of AICs to The UAP

AIC Recommendations: (i) Commercial entrepreneurship using various fields of biotechnology must be undertaken; (ii) The faculty has published book chapters, but the senior faculty must be encouraged to write text books for graduate and post graduate students; (iii) Sports and co-curricular activities/facilities need to be promoted; (iv) Students must be provided with merit scholarships; (vi) The

Transport facilities for students are required for study tours and other day to day needs.

4. Summary of AIC Visit

Discipline	Plant Pathology	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	1 st Round Visit	2 nd Round Visit
Date of Visit	June 23-24, 2010	February 7-8, 2018
Rating	X ₁ (75-79%)	X ₂ with 732 score (73.2%)
Remarks	Rating declined	

Strengths: (i) The teaching faculty is highly qualified (90% PhDs) with rich teaching experience; (ii) Adequate infrastructure and facilities are available to cater the need of currently enrolled students.

Weaknesses: (i) Inadequate research grants; (ii) Limited participation of faculty and students in seminars and conferences, etc.; (iii) Inadequate study tours and trips for the students; (iv) Academia – industry linkages are non-functional.

AIC Recommendations: (i) Strengthening of infrastructure is needed with more laboratories, lecture rooms, computing facilities, offices; (ii) Establishment of plant disease diagnostic facilities to address needs of the farmers community of the province; (iii) Efforts be made for repair out of order equipment; (iv) Induct young faculty to ensure training and capacity building before the retirement of senior faculty; (v) Ensure participation of faculty members and students in conferences, workshops and seminars; (vi) Make alumni association functional and productive; (vii) Faculty must win research grants to improve the quality of research by faculty and students.

E. Jinnah University for Women, Karachi

Summary of AIC Visit

Discipline	Food Science and Technology	
Degree Programme	B.Sc. (Hons)	
Accreditation Visit	Regular Visit	Follow-up Visit
Date of Visit	February 11, 2016	July, 28 2017
Rating	Y ₂ with 590 score (59%)	X ₂ with 728 score (72.8%)
Remarks	Rating improved	

Strengths: (i) Faculty consists of 20 young teachers; (ii) Well established and fully working food engineering lab, food sensory analysis lab, food quality lab and food analytical lab.

Weaknesses: (i) Acute shortage of senior/highly experienced and Ph.D. faculty; (ii) Shortage of some hi-tech equipment and pilot plant units; (iii) Lack of digital library facilities; (iv) Insufficient training programmes for faculty and lab. staff.

AIC Recommendations: (i) Appointment of senior and highly qualified faculty be made and training to young faculty be provided;



Visit of AICs to JUW, Karachi

(ii) Procurement of pilot plants and few hi-tech equipment be made; (iii) Purchase of more subject-related HEC recognized books and journals; (iv) Faculty must be encouraged to

develop and earn research projects for funding; (v) Arrangement of exposure visit to industries for B.Sc. students; (vi) Faculty must be motivated to participate in various national and international seminars and workshops.

F. Govt. College Women University, Faisalabad

Summary of AIC Visit

Discipline	Food Science and Technology	
Degree Programme	B.Sc. (Hons)	
Accreditation Visit	Regular Visit	Follow-up Visit
Date of Visit	January 02, 2017	January 29, 2018
Rating	Y ₁ with 615 score (61.5%)	X ₃ with 680 score (68%)
Remarks	Rating improved	

Strengths: (i) The existing faculty of FST degree programme consist of good number of young Ph.D. degree holders; (ii) The programme is exclusively offered to females who constitute half of the population.

Weaknesses: (i) Absence of senior faculty (Associate Professor and Professor); (ii) Existing single lab being shared with the students of nutrition programme; (iii) Unavailability of adequate supplies and chemical; (iv) Pilot food processing plant is not available at the moment; (v) No arrangements for organizing seminars, conferences, trainings and workshops, visits to industry; (vi) Limited opportunities to develop skill and build their capacity for teaching and research; (vii) Digital library and IT facilities are not in place.



Visit of AICs to GCWU, Faisalabad

AIC Recommendations: (i) Senior faculty is urgently needed to run the Programme effectively; (ii) Two independent labs exclusively for the students of Food Science must be in place; (iii) Some sophisticated equipment must be purchased to meet practical course requirement; (iv) Supply of glass-ware and chemicals need to be ensured; (v) Allocation of operational budget for purchase of consumables is required; (vi) Sustainable faculty development programmes must be executed; (vii) Industrial exposure of the students must be ensured; (viii) Proper course file maintenance is needed; (ix) More classrooms and space for pilot food processing plant be provided with necessary tools and processing machines for hands-on-training of students.

G. Bahauddin Zakariya University, Multan

1. Summary of AIC Visit

Discipline	Plant Pathology	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	Regular Visit	Follow-up Visit
Date of Visit	February 25-26, 2013	February 26, 2018
Rating	Y ₂ with 580 score (58%)	X ₃ with 690 score (69%)
Remarks	Rating improved	

Strengths: (i) Faculty members are highly qualified and well experienced; (ii) Reasonable funds for laboratory equipment, chemicals, supplies, operational and day-to-day expenditure.

Weaknesses: (i) Shortage of labs and greenhouses for teaching and research; (ii) Limited number of HEC prescribed textbooks and reference material; (iii) Inadequate collaborations at national and international level; (iv) No MOUs with local agri. R&D institutions; (v) Inadequate external research grants won by the faculty; (vi) Academia – industry linkages hardly established; (vii) Insufficient opportunities for participation in national and international seminars/ conferences; (viii) Students’ financial aid system is inadequate; (ix) Lack of promotion policy for support staff.

AIC Recommendations: (i) Few more labs as well as up-gradation and improvement of the existing labs are required; (ii) Two sets of HEC recommended textbooks for undergraduate and postgraduate students/faculty are needed; (iii) Ensure excellent access to internet facilities and HEC digital library; (iv) Make efforts for establishing academia–industry linkages; (v) Adequate external research grants (national and international) must be earned by the faculty; (vi) Effective collaboration is essentially needed with local R&D institutions of mango, cotton through formal MOUs; (vii) Promotion of at least two more teachers at the level of Associate Professor.

2. Summary of AIC Visit

Discipline	Forestry and Range Management	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	Regular Visit	Follow-up Visit
Date of Visit	February 25-26, 2013	February 26, 2018
Rating	Y ₁ with 620 (62%) score	X ₂ with 700 score (70%)
Remarks	Rating improved	

Strength: Majority of faculty is Ph.D. qualified, competent and highly motivated.

Weaknesses: (i) Unavailability of senior faculty at Professor level; (ii) Inadequate lecture rooms, laboratories and offices for students, faculty and staff; (iii) Non-availability of a wire-house / greenhouse to conduct research and student

practical; (iv) Inadequate opportunities for stipends, alumni association and placement bureau.

AIC Recommendations:

- (i) Induction of senior faculty at Professor level is required;
- (ii) Wildlife museum and well-equipped wood lab is needed;
- (iii) Provision of at least one more class room and few faculty offices;
- (iv) Access to IT facilities and HEC digital library must be improved and strengthened;
- (v) Strengthening of research facilities and promotion of study tours for students.



Visit of AICs to BZU, Multan

H. University of Sargodha (UOS) – Lyallpur Campus, Faisalabad

Summary of AIC Visit

Discipline	Food Science and technology	
Degree Programme	B.Sc. (Hons)	
Accreditation Visit	Regular Visit	Follow-up Visit
Date of Visit	March 28, 2017	March 7, 2018
Rating	Y ₂ with 575 score (57.5%)	Y ₁ with 630 score (63%)
Remarks	Rating improved	

Strength: Infrastructure is the main strength of Lyallpur Campus of UOS.

Weaknesses: (i) Available lab equipment are not properly functionalized and calibrated; (ii) Processing hall lacks state of the art processing equipment; (iii) The existing Food Science Faculty is not only insufficient but also needs endorsement /approved by the UOS; (iv) Industrial and academic linkages are missing; (v) Inadequate involvement of students in extra-curricular and co-curricular activities.

AIC Recommendations: (i) Faculty members with expertise in relevant discipline need to be hired; (ii) At least one faculty member from Lyallpur campus must be deputed as member of Board of Studies of Institute of Food Science and Nutrition at main campus of University of Sargodha to ensure proper harmonization; (iii) Directorate of Academics and Quality Enhancement Cell (QEC) need to be



Visit of AICs to UOS-Lyallpur Campus, Faisalabad

established; (iv) The labs and processing hall requires state of the art equipment; (v) Department of Food Science and Technology needs a well-equipped library having relevant books, scientific journals and magazines; (vi) IT and other digital facilities must be upgraded to ensure access to online literature; (vii) MOUs with related industry and academia be made to enhance the knowledge and development of skills for students and faculty; (viii) Separate budget must be allocated for FST Department.

I. Govt. College University, Faisalabad – Layyah Campus

Summary of AIC Visit

Discipline	Food Science	
Degree Programme	B.Sc. (Hons)	
Accreditation Visit	Regular Visit	Follow-up Visit
Date of Visit	February 22, 2016	March 12, 2018
Rating	Y ₃ with 540 score (54%)	Y ₂ with 570 score (57%)
Remarks	Rating improved	

Weaknesses: (i) Shortage of teaching faculty; (ii) Existing faculty is young and junior having negligible teaching experience; (iii) Weak industrial and academic interactions; (iv) Labs are deficient in equipment while existing equipment are not properly functional and calibrated; (v) Number of labs and classrooms are less than required; (vi) Limited number of books; (vii) No Director Academics at the Campus.

AIC Recommendations:

(i) Faculty members need to be hired through a contract appointment committee chaired by the Vice Chancellor; (ii) At least one faculty person must be the member of Board of Studies of Institute of Home and



Visit of AICs to GCUF-Layyah Campus

Food Science, GC University, Faisalabad; (iii) Laboratory facilities must be strengthened by adding new labs along with relevant equipment; (iv) Processing hall must be established with state of the art equipment for students' practical work; (v) The Department of Food Science requires classrooms and a good library with HEC recommended textbooks, scientific journals and magazines; (vi) IT and other digital facilities need to be improved to ensure the students access to HEC digital library; (vii) Strong collaboration is needed by signing MOUs with food industry and research organizations; (viii) Financial aid office should be established for student financial support; (ix) Efficient Quality Enhancement cell and Director Academics are essential for ensuring well-planned teaching practices; (x) Appointment of Director Academics by GCUF is urgently needed for effective academic and administrative control and to ensure transparency, merit and unbiasedness in the teaching–learning process of the sub-campus.

J. Muhammad Nawaz Shareef University of Agriculture, Multan

1. Summary of AIC Visit

Discipline	Agronomy	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	Regular Visit	Follow-up Visit
Date of Visit	April 18, 2016	February 13-14, 2018
Rating	Z ₁ with 490 score (49%)	X ₂ with 700 score (70%)
Remarks	Rating improved	

Strengths: (i) Faculty of one Associate Professor, five Assistant Professors (TTS) and three Lecturers, most of them are holding Ph.D. degree; (ii) Good publication record in national /international journals.

Weaknesses: (i) Lack of position of Professor in the Department with strong academic background for experienced and dynamic leadership; (ii) Existing class rooms are insufficient; (iii) Inadequate laboratory equipment and controlled condition facilities; (iv) Latest editions of text/reference books are insufficient; (v) Digital library facility is not available to meet the need of the students and the faculty; (vi) Insufficient support staff (clerical and technical); (vii) Faculty offices are inadequate and lack workable environment; (viii) No research funds are available for the faculty; (ix) Examination and course files record is unsatisfactory.

AIC Recommendations: (i) Appointment of a Professor in the Department, with strong academic record and adequate administrative experience is required; (ii) Establishment of two good standard functional teaching and research labs and a greenhouse; (iii) Ph.D. faculty needs to win external research grants to promote faculty as well as graduate students research; (iv) Provision of IT facilities, access to HEC digital library, textbooks and reference material; (v) Research farm must be equipped with requisite machinery and implements; (vi) Provision of at least three class rooms, a seminar room, and a committee/conference; (vii) Provision of recreational as well as indoor/outdoor sports facilities for students; (viii) Up-gradation of library of the University into E. library with enhanced number of books, journals and reference materials is required; (ix) Rules & Regulations related to admission before the completion of degree program of current students must be made available to students and followed in true letter and spirit.

2. Summary of AIC Visit

Discipline	Entomology	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	Regular Visit	Follow-up Visit
Date of Visit	April 18, 2016	February 13-14, 2018
Rating	Y ₁ with 606 score (60.6%)	X ₂ with 735 score (73.5%)
Remarks	Rating improved	

Strengths: (i) Well qualified and experienced faculty; (ii) Linkages and cooperative research projects with international universities and research institutes; (iii) Research grants secured from national and international funding agencies.

Weaknesses: (i) Shortage of required number of books and journals in the library; (ii) Shortage of properly qualified and trained laboratory staff; (iii) Inadequate office space for the faculty; (iv) Non-availability of auditorium on campus; (v) Inadequate facility of internet; (vi) Shortage of recreational facilities for the students.



Visit of AICs to MNSUA, Multan

AIC Recommendations: (i) Equip the library with more books and regular subscription to impact factor journals; (ii) Development and provision of IT services for faculty and students, particularly access to HEC Digital Library; (iii) Addition of more equipment in the laboratories; (iv) Provision of suitable faculty offices; (v) Sports facilities must be developed; (vi) In-service training for staff and faculty must be planned; (vii) Fully developed agricultural farm and a greenhouse are required.

3. Summary of AIC Visit

Discipline	PBG	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	Regular Visit	Follow-up Visit
Date of Visit	April 18, 2016	February 13-14, 2018
Rating	Y ₁ with 635 score (63.5%)	X ₂ with 720 score (72%)
Remarks	Rating improved	

Strengths: (i) Experienced and qualified faculty; (ii) Linkages with national and international organizations/institutes; (iii) Research projects funded by national and international funding agencies.

Weaknesses: (i) Non-availability of greenhouse facilities for controlled environment experiments; (ii) Limited number of text books and reference materials; (iii) Lack of trained lab. staff to handle glassware and equipment; (iv) Inadequate office space for faculty; (v) Auditorium and seminar rooms are unavailable; (vi) Inadequate internet facility for the students and faculty.

AIC Recommendations: (i) Infrastructure strengthening and up-gradation of library and laboratories are required; (ii) Provision of requisite IT facilities, access to HEC digital library, and provision of adequate textbooks and journals must be ensured; (iii) At least three class rooms, a seminar room, a committee/conference room are essential; (iv) Well-developed experimental farm and a greenhouse are needed; (v) Faculty development programme must be initiated; (vi) Improvement of recreational as well as indoor/outdoor sports facilities for students is needed.

4. Summary of AIC Visit

Discipline	Soil Science	
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)	
Accreditation Visit	Regular Visit	Follow-up Visit
Date of Visit	April 18, 2016	February 13-14, 2018
Rating	Y ₁ with 620 score (62%)	X ₃ with 690 score (69%)
Remarks	Rating improved	

Strength: Ph.D. qualified, competent and enthusiastic young faculty.

Weaknesses: (i) Induction of a senior faculty member at Professor level is needed; (ii) Inadequate lecture rooms, laboratories and offices for students, faculty and staff; (iii) Lack of a wire house / green house to conduct research and practicals; (iv) Inadequate qualified and skilled support staff; (v) Lack of students stipends, alumni association and placement bureau; (vi) Inadequate operational budget.

AIC Recommendations: (i) Induction of senior faculty and skilled supporting staff; (ii) Provision of adequate class room and laboratory facilities; (iii) Adoption of latest curriculum approved by HEC; (iv) Arrange access to IT facilities and HEC

digital library; (v) Allocate sufficient operational budget to the Department; (vi) Research facilities need to be strengthened.

5. Summary of AIC Visit

Discipline	Food Science and Technology
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)
Date of Visit	February 13-14 2018
Rating	X ₃ with 668 score (66.8%)

Strength: Adequate and skilled faculty to meet the programme requirements.

Weaknesses: (i) Lack of senior teaching faculty at Professor level; (ii) No food processing pilot units, (iii) Lack of space for performing academic and research activities; (iv) Insufficient trained support staff; (v) Non-availability of journals in the library and the absence of HEC digital library; (vi) Non-availability of independent operational budget.

AIC Recommendations: (i) Induction of senior faculty at Professor level is needed; (ii) Urgent provision of enough space for faculty offices and spacious classrooms; (iii) Must install food processing pilot plant units; (iv) More trained support staff is needed; (v) Improved industrial links with the department; (vi) Two more classrooms are required; (vii) Allocation of operational budget must be ensured; (viii) HEC curriculum must be adopted to ensure consistency and uniformity.

6. Summary of AIC Visit

Discipline	Horticulture
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)
Date of Visit	February 13-14 2018
Rating	X ₃ with 655 score (65.5%)

Strength: Faculty is well qualified, competent and actively involved in teaching and research.

Weaknesses: (i) Inexperienced faculty with no experience of supervising graduate research; (ii) Out of total seven faculty members, five are with specialization in Pomology / Postharvest Technology of Fruits; (iii) Curriculum followed for undergraduate programme is not as per HEC guidelines; (iv) Limited research facilities due to budget constraints; (v) Inadequate facilities of greenhouse, growth chambers, cold store; (vi) Non-availability of trained laboratory staff to operate and maintain the equipment and instruments; (vii) Faculty offices and lecture rooms are not spacious; (viii) No local or foreign journal has been subscribed; (ix) Limited computing and internet facilities especially for undergraduate students; (x) Students dissatisfied with hostel, sports and medical facilities.



Visit of AICs to MNSUA, Multan

AIC Recommendations: (i) Appointment of at least one senior faculty member at Associate Professor level is needed; (ii) Faculty development / training programme should be initiated for new faculty members; (iii) Curriculum for undergraduate degree programme must be revised as per HEC guidelines; (iv) Well trained administrative/ clerical staff be appointed; (v) Qualified and well-trained laboratory staff be appointed to operate and maintain the equipment and instruments; (vi) Budget for purchase of equipment, instruments, chemicals, glassware and other supplies must be increased; (vii) Establish an experimental orchards of all important tropical and subtropical fruit plants of the region; (viii) Demonstration blocks for vegetables and annual flowers, a greenhouse / screen house and a nursery of modern fruit and ornamental plants nursery must be established; (ix) Field staff including Field Assistants, Gardeners and Beldars be appointed on regular/ contract/ daily wages; (x) More prescribed/recommended text books are needed in the

Department library; (xi) Provision of IT facilities to students and access to HEC digital library to faculty members and students must be ensured; (xii) Create more opportunities of scholarships and financial support to the students; (xi) Accommodation facilities must be arranged at the campus for boy as well as girl students.

7. Summary of AIC Visit

Discipline	Seed Science and Technology
Degree Programme	B.Sc. (Hons)
Date of Visit	February 13-14 2018
Rating	X ₃ with 660 score (66%)

Strengths: (i) Experienced and well qualified senior professors and young regular teaching faculty are available in the associated Departments; (ii) Appreciable foreign and local funding for research and development.

Weaknesses: (i) Insufficient number of faculty specialized in Seed Science & Technology; (ii) Absence of well-equipped seed technology Labs. for quality and result-oriented research; (iii) Inadequate class rooms and laboratory space; (iv) Lack of glass house facility for conducting experiments under controlled conditions; (v) Agricultural farm needs improvements; (vi) Insufficient transport facilities; (vii) Text books are insufficient and are of old editions; (viii) Internet, computer, photocopier and scanners facilities are inadequate; (ix) Limited hostel facility for students; (x) Technically trained laboratory staff is not available.

AIC Recommendations: (i) Induction of more experienced specialized faculty; (ii) Establishment of well-equipped seed science labs; (iii) Recruitment of trained and qualified support staff; (iv) HEC digital library facilities must be provided; (v) Individual offices for faculty are necessary for healthy working environment; (vi) Green house facilities are required for controlled environments and efficient experimentation; (vii) Agricultural farm needs improvements; (viii) Student support and extra-curricular activities/ facilities must be initiated.

K. University College of Agriculture & Environmental Sciences, The Islamia University of Bahawalpur

Summary of AIC Visit

Discipline	Horticulture
Degree Programme	B.Sc. (Hons)
Date of Visit	September 12-13 2017
Rating	X ₃ with 655 score (65.5%)

Strength: Ph.D. qualified and highly motivated young faculty.

Weaknesses: (i) No senior faculty at Associate Professor or Professor level; (ii) Centralized administrative and financial system; (iii) Limited research facilities due to budget constraints; (iv) Lack of greenhouse, growth chamber, cold store facilities; (v) Non-availability of trained laboratory staff; (vi) Faculty offices, lecture room and laboratory facilities are insufficient; (vii) In the library, number of books inadequate and are of old editions; (viii) Limited computing and internet facilities for the students; (ix) Weak linkages with relevant institutions and stakeholders; (x) Shortage of research projects to develop and strengthen existing lab facilities.

AIC Recommendations:

(i) The College of Agriculture and Environmental Sciences may be upgraded to Faculty of Agriculture; (ii) Urgent induction of at least one senior faculty member at Professor or Associate Professor level; (iii) Well-trained support staff be appointed to operate and



Visit of AIC to UCA&ES, IUB

maintain the equipment; (iv) Two more labs. with tissue culture facilities need to be established; (v) Budget for equipment, instruments, chemicals, glassware and books must be increased; (vi) Separate Board of Studies be constituted to deal with academic matters of Horticulture; (vii) Prescribed/ recommended text and reference books and research journals must be purchased; (viii) All the university orchards (citrus, mango, guava, falsa, etc.) must be declared as experimental orchards and be

given under the administrative control of Department of Horticultural Sciences; (ix) ICT facilities and access to HEC digital library must be ensured for the students; (x) Faculty should be motivated to write and win viable research projects.

L. The University of Lahore

Summary of AIC Visit

Discipline	Food Science and Technology
Degree Programme	M.Sc. (Hons)
Date of Visit	October 17 2017
Rating	X ₂ with 710 score (71%)

Strengths: (i) Available infrastructure at UOL in terms of labs and human resource is good; (ii) Access of students to HEC digital library, and textbooks and reference materials relevant to the subject is satisfactory.

Weaknesses: (i) The programme needs to have its own recognition and identity with dedicated faculty and staff; (ii) Lack of senior faculty for this programme; (iii) No research linkages with other renowned research-based universities/ institutions and food industry; (iv) Dedicated



Visit of AIC to University of Lahore

labs are missing for Cereals Technology, Meat Technology, Dairy Technology, Fruits and Vegetables, etc.; (v) Budget allocation is inadequate; (vi) Lack of pilot-scale food processing plants for students' orientation and training.

AIC Recommendations: (i) Appointment of experienced faculty including a Professor in Food Science and Technology; (ii) Allocation of sufficient separate budget for the discipline of Food Science; (iii) Industry/ academia collaboration to attract more funds; (iv) Faculty development programme be launched; (v) Periodical organization of conferences and seminars to attract the stakeholders; (vi) Writing of more research projects to win grants.

M. Shaheed Z.A. Bhutto Agriculture College, Dokri**1. Summary of AIC Visit**

Discipline	Entomology
Degree Programme	B.Sc. (Hons)
Date of Visit	December 11-12 2017
Rating	Y ₂ with 560 score (56%)

Strength: Sufficient land and infrastructure is available for teaching and research activities.

Weaknesses: (i) Inexperienced and non-Ph.D. faculty; (ii) Grossly insufficient laboratory equipment to perform practicals at undergraduate level; (iii) Limited number of text books and reference books.

AIC Recommendations: (i) Appointment of senior, highly qualified and experienced faculty is strongly recommended; (ii) To enhance uniform distribution of students on merit in major subjects is needed; (iii) New models of basic and advanced laboratory equipment must be provided; (iv) A conference room, and a seminar hall and class rooms having multimedia and new furniture and fixture are urgently required; (v) Experimental farm, green house and glass house facilities must be provided; (vi) Budget needs to be enhanced to meet basic requirements of the staff and the students for research, study tours, excursions, etc.

2. Summary of AIC Visit

Discipline	Plant Pathology
Degree Programme	B.Sc. (Hons)
Date of Visit	December 11-12 2017
Rating	Y ₃ with 500 score (50%)

Weaknesses: (i) No senior faculty at Associate Professor or Professor level; (ii) Centralized administrative and financial system at College level under the control of Principal; (iii) Limited research facilities due to budget constraints for purchasing equipment, instruments, chemicals, glassware etc.; (iv) Lack of basic and essential equipment used in Plant Pathology; (v) Lack of greenhouse, growth

chambers, etc.; (vi) Poor library and no book bank facility; (vii) Non-availability of trained laboratory staff; (viii) Faculty offices, lecture room and laboratory facilities are insufficient; (ix) Inadequate internet facilities for the students; (x) Weak linkages with relevant institutions and stakeholders; (xi) Shortage of research projects to develop and strengthen lab facilities.

AIC Recommendations: (i) Senior faculty member at Professor or Associate Professor level must be appointed; (ii) Two well-equipped laboratories with essential equipment, supplies, chemicals and reagents are required; (iii) Budget for equipment, instruments, chemicals, glassware and books must be increased; (iv) Medical and sports facility for students be provided; (v) Board of Studies for Plant Pathology must be constituted; (vi) The laboratories must be equipped with fire extinguishers, first aid kits/facilities; (vii) Provision of IT facilities and access to HEC digital library for students must be arranged; (viii) Faculty be motivated to write and win viable research projects.

3. Summary of AIC Visit

Discipline	Plant Protection
Degree Programme	B.Sc. (Hons)
Date of Visit	December 11-12 2017
Rating	Y ₃ with 540 score (54%)

Weaknesses: (i) Inexperienced and non-Ph.D. faculty; (ii) Serious shortage of laboratory equipment to perform practicals at undergraduate level; (iii) Deficiency of latest editions of text books in the library.



Visit of AIC to S.Z.A. Bhutto Agriculture College, Dokri

AIC

Recommendations:

(i) Appointment of senior and experienced faculty is essential; (ii) Enhance uniform distribution of students on merit in major subjects; (iii) Basic and advanced laboratory equipment of new models must be provided; (iv) A conference room, a seminar hall and class rooms having multimedia and

new furniture and fixture must be provided; (v) Experimental farm, green house and glass house facilities must be provided immediately.

N. Hazara University, Mansehra

Summary of AIC Visit

Discipline	PBG
Degree Programme	B.Sc. (Hons)
Date of Visit	January 2 2018
Rating	Y ₂ with 565 score (56.5%)

Weaknesses: (i) Non-availability of proper infrastructure for teaching and faculty research; (ii) Well equipped, functional labs are unavailable; (iii) Spacious class rooms with multi-media are lacking; IT facilities are not up to the mark; (iv) Lack of furnished offices for faculty members; (v) Limited number (five only) of textbooks and reference books recommended by NCRC of HEC; (vi) Machinery is lacking for field experiments, green house and growth chamber facility.

AIC Recommendations: (i) Extra efforts are needed to make new building fully functional as early as possible with well-equipped labs, class rooms and faculty offices; (ii) Establish a green house, and growth chamber facility for accelerating the pace of research; (iii) Merit based induction of relevant faculty; (iv) Well established experimental farm having proper implements/ machinery for faculty and students research is needed; (v) Ph.D. faculty need to be motivated and encouraged to write project proposals for funding.

O. Govt. College University, Faisalabad – Sahiwal Campus

Summary of AIC Visit

Discipline	Food Science and Technology
Degree Programme	B.Sc. (Hons)
Date of Visit	March 13 2018
Rating	Y ₂ with 585 score (58.5%)

Strength: Tuition fee structure is affordable by majority of the students.

Weaknesses: (i) The FST programme has huge enrollment of about 500 students which is very hard to manage; (ii) Inadequate faculty of junior level with no teacher at even Associate Professor level; (iii) Number of labs less than required and existing labs are short of needed equipment; (iv) Lack of state of the art processing hall with the needed facilities;



Visit of AIC to GCUF – Sahiwal Campus

(v) Establishment of independent QEC with proper staff reporting directly to the Vice Chancellor; (vi) Non-availability of Director Academics for effective academic control and ensuring quality education; (vii) Lack of academia–industry linkages through functional MOUs; (viii) Limited opportunities for students and the faculty for study tours and participation in conferences; (ix) Lack of operational funds with HoD for purchase of chemicals and glassware; (x) Internship programme of 8th semester students is ineffective and least useful.

AIC Recommendations: (i) Senior faculty members need to be hired; (ii) An efficient quality enhancement cell (QEC) and Director Academics are essential for well-planned teaching practices; (iii) Laboratory facilities must be strengthened by adding new labs along with relevant equipment; (iv) The processing hall must be established with state of the art equipment; (v) Strong collaboration with organizations of food industry by signing MOUs is needed; (vi) Operational budget must be allocated for Department of Food Science purchase of chemicals and glassware; (vii) Access to HEC digital library and purchase of more textbooks must be ensured; (viii) Students financial aid office is required for streamlining scholarships and other facilities; (ix) Infrastructure; including classrooms, conference room and cafeteria, need improvement and up-gradation.

P. Abdul Wali Khan University, Mardan**Summary of AIC Visit**

Discipline	Entomology
Degree Programme	B.Sc. (Hons)
Date of Visit	April 3 2018
Rating	Y ₂ with 581 score (58.1%)

Weaknesses: (i) Lack of senior faculty at Professor level; (ii) The programme lacks basic research equipment for undergraduate practicals; (iii) Inadequate number (15 only) of recommended books; (iv) Admission response in B.Sc. (Hons) major Entomology was inadequate; (v) Very low student–teacher ratio i.e. almost 1:1; (vi) Non-availability of greenhouse and glass house facilities; (vii) Under developed and unplanned experimental farm; (viii) Non-qualified technical and lab staff; (ix) Limited opportunities for study tours and trips; (x) Inadequate funds for participation in seminars, conferences; (xi) Shortage of recurring budget for conducting research and maintenance work.

AIC Recommendations: (i) Senior faculty members at Professor level be inducted soon; (ii) Immediate need to strengthen the labs and basic research equipment for undergraduate practicals; (iii) Provision of recommended books be ensured; (iv) Urgent need to increase the intake of students to improve student–teacher ratio; (v) For ensuring quality graduate research, greenhouse and glasshouse facilities must be upgraded; (vi) Well established research farm with requisite machinery be developed for faculty and students research; (vii) Relevant qualified technical and lab staff be inducted; (viii) More focus on study tours and out-reach activities, involving students; (ix) Operational budget is required for participation in seminars and conferences.

Q. Institute of Agricultural Sciences, University of the Punjab, Lahore**Summary of AIC Visit**

Discipline	Entomology
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)
Date of Visit	April 16-17 2018
Rating	X ₃ with 684 score (68.4%)

Strength: Well-equipped classrooms with all facilities.

Weaknesses: (i) Senior faculty at Professor and Associate Professor level is unavailable; (ii) The faculty and staff offices are grossly inadequate; (iii) Academia-industry linkages are weak; (iv) Too small an agriculture farm for faculty and graduate research; (v) Very few research grants for strengthening and up-gradation of teaching-learning facilities; (vi) Limited study tours/trips for graduate and undergraduate students; (vii) Students alumni association is lacking; (viii) Greenhouses / glass house facilities are unavailable.

AIC Recommendations: (i) Appointment of senior faculty at Professor and Associate Professor level on priority; (ii) Under construction building of another Academic Block must be completed; (iii) Provision of offices for faculty and staff; (iv) Academia-industry linkages be established; (v) Establishment of a sizable agriculture research farm (10-15 acre) needed for faculty and graduate research; (vi) Research grants for strengthening and up-gradation of teaching-learning facilities must be ensured; (vii) Study tours/trips for graduate and undergraduate students must be arranged for field exposure; (viii) Students alumni association need formed; (ix) Greenhouses/glass house facilities must be provided.

R. Minhaj University, Lahore

Summary of AIC Visit

Discipline	Food Science and Technology
Degree Programme	B.Sc. (Hons)
Date of Visit	April 18 2018
Rating	Y ₁ with 620 score (62%)

Strength: Adequate laboratories and classrooms for FST degree programme.

Weaknesses: (i) Shortage of senior FST faculty at the level of Associate Professor and Professor; (ii) Admission of a high number of Diploma of Associate Engineering (DAE) qualified students against Minhaj University, Lahore (MUL) admission policy; (iii) Laboratories not upgraded with advanced instruments; the existing equipment are not functional and un-calibrated; (iv) The Processing Hall not properly established with state of the art pilot scale units; (v) Dedicated

classrooms are insufficient; (vi) Lack of academia–Industry linkages; (vii) Inappropriate composition of Board of Studies.



Visit of AIC to Minhaj University, Lahore

AIC Recommendations: (i) Present teaching faculty is insufficient. More qualified faculty, in hierarchical order, must be appointed; (ii) The existing labs should be strengthened as well as some area-specific new labs be established to support this degree programme; (iii) The proposed Processing Hall needs to be furnished with state of the art pilot scale units; (iv) Admission policy of MUL for FST degree programme (2016) must be adopted in true letter and spirit; (v) MOUs must be signed to promote collaboration with relevant industry and research organizations; (vi) Strengthening of the respective Board of Studies by adding relevant stakeholders; (vii) Efficient Quality Enhancement Cell and Directorate of Academics are essentially needed for improving quality of education; (viii) IT facilities need to be upgraded to ensure students access to HEC digital library efficiently; (ix) Financial Aid Office and Counseling Center be established; (x) Ph.D. faculty to be encouraged to write projects for winning research grants; (xi) Ensure study tours of faculty–students for useful exposure and rewarding interaction.

III. Pre – Accreditation/ Zero Visits

3. Pre-accreditation/ zero visit is basically conducted like pilot testing to check assessment and level of planning designed by the institution before launching a full degree programme. It is meant to assess the level of planning and preparation for initiation of new degree programmes. Pre-accreditation/ zero visit does not qualify the institution for any interim or conditional accreditation to that specific degree programme; it is only an assessment made well before formally assessing/accrediting the full degree programme.

4. During 2017-18, NAEAC performed eight zero visits. These included Horticulture at Karakoram International University, Gilgit; Agronomy and Soil Science at Arid Agriculture University, Rawalpindi, Sub – Campus Attock; Plant Pathology at University College of Agriculture & Environmental Sciences, The Islamia University of Bahawalpur; Food Technology at University of Management and Technology Lahore; Food Science and Technology at Minhaj University, Lahore; Agri. Economics and Food Science & Technology at Gomal University D.I. Khan; Food Science and Nutrition at University of Veterinary and Animal Sciences, Lahore and Plant Pathology at The University of Poonch Rawalakot. A summary of external assessments and recommendations is reproduced below:

1. Karakoram International University, Gilgit

Summary of Zero Visit

Discipline	Horticulture
Degree Programme	B.Sc. (Hons)
Date of Visit	August 21-22, 2017

AIC Assessment: (i) Gilgit–Baltistan is highly suitable area for production of high value horticultural crops; (ii) Adequate access to HEC digital library and IT facilities; (iii) Titles of agri. degree programme are not according to the other agri. universities of Pakistan; (iv) Limited faculty (one regular Assistant Professor, one on contract and one visiting Lecturer are available for Horticulture B.Sc. (Hons) degree programme, but not for introductory courses in first four semesters such as Agronomy, Plant Pathology, Entomology, PBG, and Animal Science, etc.; (v) Insufficient office space for the faculty and class rooms; (vi) Shortage of supporting staff for lab and field work; (vii) Field experimental area, nursery area, orchards of apple, cherry, apricot and Russian olive are available for training of

students; and (viii) Self-assessment reports, teacher evaluation process and course files are intact.

AIC Recommendations: (i) Title of the degree programme be modified/adapted according to other agri. universities; (ii) Induction of faculty on regular basis including Professor and Associate Professor and technical support staff for labs and field; (iii) Two separate “Departments of Horticulture” and “Food Technology” be established; (iv) The MOU be signed with Agricultural Department of Gilgit to get teaching aid from subject specialists during first four semesters of B.Sc. (Hons) agri. programme; (v) Establishment of at least a lath house and green house for horticulture nursery; (vi) Strengthen existing library with provision of HEC recommended textbooks; and (vii) Availability of good quality class rooms with multimedia facility and adequate office space for the faculty.

2. PMAS Arid Agriculture University Rawalpindi Sub–Campus Attock

I. Summary of Zero Visit

Discipline	Agronomy
Degree Programme	B.Sc. (Hons)
Date of Visit	September 7, 2017

AIC Assessment: (i) Serious shortage of faculty with only one Assistant Professor on contract. Most of the courses are being taught by visiting faculty from local Agriculture Extension Department; (ii) Hardly any facility for practical training of the students both in field and laboratory;



Visit of AIC to AAUR – Attock Campus

(iii) Only a few recommended/ reference books of old editions are available in the library; (iv) The Campus has access to HEC digital library and IT facilities; and (v) Attock is a large district with huge scope of activities in agriculture sector.

AIC Recommendations: (i) Induction of faculty on regular basis at senior level, and supporting field and lab staff for practical training of the students; (ii) Establishing a farm facility for field training of the students; (iii) MOU need to be signed with Agricultural Department to get teaching aid from subject specialists during first four semesters of B.Sc. (Hons.) agri. programme; (iv) Strengthening of the library with fresh editions of the recommended text books; and (v) Availability of good quality class rooms with multimedia facility and office space for the faculty.

II. Summary of Zero Visit

Discipline	Soil Science
Degree Programme	B.Sc. (Hons)
Date of Visit	September 7, 2017

AIC Assessment: (i) The area is suitable for developing rainfed agriculture to improve livelihood of small land holders in the region; (ii) Teaching faculty (one Lecturer on contract and two Visiting Lecturers) available for the Soil Science courses. Same faculty has to teach soil science courses of two academic years (B.Sc. 5th and 7th Semester) during Fall Semester 2017-18; (iii) Access to modern IT laboratory under the supervision of IT expert; (iv) Laboratory facilities for practical training of the students are available, but not for all the disciplines of Soil Science; and (v) Shortage of recommended / reference books in the library.

AIC Recommendations: (i) A senior faculty member must be appointed as Project Director of University Sub-Campus; (ii) Induction of teaching faculty on regular basis according to HEC student: teacher ratio and also technical support staff for labs and field; (iii) Strengthening of existing lab facilities with provision of needed equipment for practical training (as per NCRC approved practicals); (iv) Provision of field research / experimental area for practical training of the students; (v) Strengthening of existing library with provision of latest editions of HEC recommended Soil Science books; and (vi) Construction of spacious class rooms with multimedia facility and office space for the faculty and staff in the under-construction Sub-Campus building.

3. University College of Agriculture & Environmental Sciences, The Islamia University of Bahawalpur

Summary of Zero Visit

Discipline	Plant Pathology
Degree Programme	B.Sc. (Hons)
Date of Visit	September 12-13, 2017

AIC Assessment: (i) Teaching faculty of five comprising four Assistant Professors (TTS) and one Lecturer with student–teacher ratio of 9:1; (ii) Current semester-wise enrollment of students in the discipline of Plant Pathology is 20 and 22 in 5th and 7th semester, respectively; (iii) Joint laboratory facilities are available for practical training of the students but not for all the sub-disciplines of Plant Pathology, i.e., Mycology, Bacteriology, Nematology and Virology; (iv) Good collection of recommended/reference Plant Pathology books in the main library; (v) Access to modern IT laboratory under the supervision of IT expert; (vi) First batch of B.Sc. (Hons.) Agriculture (Plant Pathology) 20 students has passed out in the early 2017; (vii) The cultivated area in the Campus is 232 acres, out of total 1257 acres belonging to IUB; and (viii) Internship programme of the students in 8th semester of studies seems hazy.



Visit of AIC to UCA&ES, IUB

AIC Recommendations: (i) Induction of existing faculty on regular basis; (ii) At least one Associate Professor of Plant Pathology be inducted on priority basis; (iii) Plant Pathology discipline should be equipped with at least two more labs; (iv) Separate glass house and more field area for experimentation are required; (v) Internship programme of the students in 8th semester of studies needs a holistic review; and (vi) Budget allocations for operational expenses is insufficient and needs upward revision.

4. University of Management and Technology, Lahore

Summary of Zero Visit

Discipline	Food Technology
Degree Programme	BS (Hons)
Date of Visit	October 16, 2017

AIC Assessment: (i) Food Science degree programme has been launched in Fall Semester 2017 with an intake of 43 students; (ii) Teaching faculty of three members consisting of one Associate Professor, one Assistant Professor and one Lecturer; (iii) Presently, the discipline has limited equipment being mostly shared; (iv) Food Science laboratories, including a Food Processing Hall are being established; (iv) Moderate level of NCRC recommended textbooks available in the library; (v) Adequate access to IT facilities together with HEC digital library; (vi) The statutory bodies such as Board of Studies and Faculty Board, hopefully shall start functioning soon; and (vii) HEC/QEC evaluation mechanism exists for the evaluation of teachers and the courses by the students; however, the reports shall be provided after 1st Semester evaluation by QEC.

AIC Recommendations: (i) Teaching faculty should be strengthened including one senior and experienced Professor; (ii) Urgent need to establish well-equipped Food Science labs on priority basis; (iii) UMT library be stocked with at least two sets of NCRC prescribed and recommended textbooks of Food Science; (iv) Statuary bodies are pre-requisite for the semester system; functional and well represented statutory bodies be established; and (v) QEC of the UMT being the independent body is obliged to undertake continuing evaluation of the courses and the teachers for useful feedback from parents, students and other stakeholders.

5. Minhaj University, Lahore

Summary of Zero Visit

Discipline	Food Science and Technology
Degree Programme	B.Sc. (Hons)
Date of Visit	October 18, 2017

AIC Assessment: (i) The teaching faculty for FST degree programme is young, junior with negligible teaching experience and only one faculty member is Ph.D. recently inducted; (ii) The HoD has impersonated himself as PhD qualified teacher; (iii) No criteria for admission in B.Sc. (Hons) four years programme of FST and most of the students enrolled in the programme possess DAE qualifications; (iv) The curriculum offered is obsolete and the degree programme has deviated the adoption of HEC approved curriculum; (v) Food Science labs are deserted with nominal equipment; (vi) Very few books are available; (vii) Hardly any academia–industry linkage was noticed; (viii) The management even could not define the work load of the faculty members as per standards; and (ix) The faculty is under-paid; hence, has no incentive for teaching.

AIC Recommendations: (i) Appointment of senior Ph.D. faculty member of at least Associate Professor level with sufficient teaching experience is immediately required; (ii) The current HoD needs replacement with a Ph.D. qualified teacher; (iii) Well-equipped and fully functional 3 to 4 labs (separate labs of Food Processing, Food Microbiology and Sensory Evaluation) should be established for FST degree programme; (iv) HEC recommended textbooks (190) to be procured for the University library on priority basis; (v) HEC approved curriculum need to be followed at all levels; (vi) The admission criteria and number of seats are to be approved by the University authorities and HEC, depending upon availability of the teaching and support staff; (vii) Pay package of the faculty be made lucrative and comparable with the package of other private sector universities in Pakistan; (viii) Academia–industry linkages need to be established through MOUs; and (ix) The university is required to adhere to all HEC policies/criteria/guidelines including acquisition of NOC.

6. Gomal University, D.I. Khan

I. Summary of Zero Visit

Discipline	Agri. Economics
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)
Date of Visit	October 31, 2017

AIC Assessment: (i) Shortage of faculty to offer B.Sc. (Hons) and M.Sc. (Hons) degree programmes; (ii) Low intake of students at post-graduate level; (iii) Very

few HEC NCRC prescribed textbooks are available in the Department/Main Library; (iv) Limited number of resource material and journals; (v) Grossly inadequate access to IT facilities and learning resources; (vi) Exposure of students and the faculty is modest; (vii) The faculty has negligible publications in international professional journals of repute; (viii) The discipline has hardly any external funding project in agri. economics; (ix) Inadequate classrooms and faculty offices; (x) Insufficient operational funds for day-to-day activities.

AIC Recommendations: (i) Faculty of at least six teachers is required to offer degree programmes; (ii) Efforts are needed to increase the intake of students both in B.Sc. (Hons) and M.Sc. (Hons) degree programmes; (iii) Two sets of HEC NCRC recommended textbooks are needed; (iv) Subscription to at least two discipline journals is essential; (v) Measures to be undertaken for organizing excellent access to IT facilities; (vi) Ensure study tours/field trips of students to various institutions and participation in seminars and conferences; (vii) Faculty needs to strive for producing research publications of high quality; (viii) Ph.D. faculty must win research grants through research projects; and (ix) Adequate classrooms and faculty offices are required in newly established University of Agriculture, D.I. Khan.

II. Summary of Zero Visit

Discipline	Food Science and Technology
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)
Date of Visit	October 31, 2017

AIC Assessment: (i) Only five teachers, two with Ph.D. and three non-Ph.D. No senior faculty could be appointed at Associate Professor and Professor level over a long time; (ii) Insufficient space to meet the requirements for library, computer labs,



Visit of AIC to Gomal University, D.I. Khan

class rooms and laboratories; (iii) Main Library of the Faculty lacks recommended books for a variety of courses in Food Science. No journal of Food Science and

Technology has been subscribed; (iv) Non-adoption of latest HEC approved curriculum for B.Sc. (Hons) Food Science; (v) Non-availability of any single high tech equipment for practicals. Available equipment are now irreparable/redundant and cannot be utilized. Chemicals for research and practicals are expired and glassware/ supplies are not available; (vi) The Programme is devoid of any kind of digitization and even sufficient facilities for internet were not available; (vii) The faculty lacked motivation to promote the programme to the higher standards of quality teaching and research; (viii) The faculty and students showed serious concern regarding teaching-learning environment, such as punctuality, discipline, completion of course work and conduct of all practicals; and (ix) No operational budget is provided for the purchase of glassware, chemicals and stationery, etc.

AIC Recommendations: (i) Induction of experienced and senior faculty at Professor and Associate Professor level is urgently required; (ii) Teaching faculty need to be further strengthened with more Ph.D. qualified teachers; (iii) Establishment of five well-equipped functional teaching and research labs of Food Science on priority basis; (iv) Procurement of more HEC recommended textbooks, reference books and subscription of journals; (v) Adoption of HEC approved curriculum is mandatory; (vi) Ensure provision of funds for the procurement of glassware, chemicals and stationary etc; (vii) Punctuality and discipline in the teaching-learning process is essential; (viii) Efforts are required for the completion of contact hours as well as theory and practical components of all courses; and (ix) University authorities to ensure academia-industry linkages through MOUs.

7. University of Veterinary and Animal Sciences (UVAS), Lahore

Summary of Zero Visit

Discipline	Food Science and Nutrition
Degree Programme	BS (Hons) and M.Phil.
Date of Visit	November 23, 2017

AIC Assessment: (i) The teaching faculty is adequate but without any senior faculty at Associate and Professor level; (ii) Shortage of lecture rooms; are shared with other Departments; (iii) Sufficient number of books for Food Science in main UVAS library; (iv) Students have access to HEC digital library in well-equipped IT

labs; (v) Laboratory facilities are of preliminary nature and there is need for more equipment and with more Food labs as well; (vi) Linkages with hospitals for training of students exist but linkages with industry are not strong; (vii) Lack of technical support staff in the labs and very limited office support; and (viii) Teaching–learning process of Food Science degree programmes is satisfactory with reference to faculty and their training; Quality Enhancement Cell, and admission criteria are intact.

AIC Recommendations:

(i) Appointment of full time regular senior faculty, i.e. Associate Professor and Professor is required; (ii) Well-equipped designated lecture rooms for these degree programme are required;



Visit of AIC to UVAS, Lahore

(iii) All equipment in Food Analysis Lab, Food Safety Lab and Clinical Nutrition Lab should be functional; (iv) At least 1-2 qualified and trained laboratory staff, i.e., Lab Technicians and Lab Assistants are immediately required in all labs; (v) Departmental library is required with all needed books and journals for various Food Sciences degree programmes; (vi) Processing Halls/ labs for baking, fruits and vegetable processing, canning, beverage, dairy and meat, fermentation, fats and oil, sensory evaluation, etc are needed on priority basis; (vii) Sensory Evaluation Lab must be established for practical training of the students; (viii) Enhancement in the operational budget is essential; (ix) Some Food Science Journals (hard copy/printed) are needed; (x) The whole curriculum should be revised and upgraded as per recommendations of NCRC-HEC; (xi) M.Phil. and PhD curriculum for Food and Nutrition degree programmes must be separated; and (xii) Academia–industry linkages required to be established through MOUs.

8. The University of Poonch, Rawalakot

Summary of Zero Visit

Discipline	Plant Pathology
Degree Programme	B.Sc. (Hons) and M.Sc. (Hons)
Date of Visit	March 28, 2018

AIC Assessment: (i) The discipline has six full time faculty comprising of one Professor, two Assistant Professors, two Lecturers and a Research Associate with student-teacher ratio of 2:1 and 1:2, for undergraduate and Post-graduate levels respectively, (ii) Out of

six faculty members, three have Ph. D and other three possess M.Sc. (Hons) degrees in relevant subjects. Four of them are permanent while one each has IPFP and visiting faculty status;



Visit of AIC to The University of Poonch, Rawalakot

(iii) Three support staff, one each as Lab Supervisor, Junior Clerk and Lab Attendant, have F.A. qualification; (iv) Only two laboratories, one each as undergraduate and post-graduate, are equipped with modest essential equipment; (v) Out of four class rooms, only one is equipped with multimedia facility; and five faculty offices are equipped with computers and internet facility; (vi) During last three years, student enrollment in the degree programmes in B.Sc. (Hons) and M.Sc. (Hons) were 13 and three, respectively; (vii) Reasonable collection of HEC recommended/reference books in

Plant Pathology are available in the Faculty library, but no international research journal is subscribed; (viii) The University does not have access to HEC digital library; and (ix) The semester system has adopted HEC revised curriculum (2014); (x) The internship B.Sc. (Hons) and thesis research at M.Sc. (Hons) degrees programme needs careful review for improvement of quality.

AIC Recommendations: (i) Immediate induction of qualified faculty required particularly in sub-discipline of Plant Virology and at least one Associate Professor in Plant Pathology; (ii) Establish requisite Laboratory facilities to train under- and post-graduate students in areas of Virology, Bacteriology and Nematology; (iii) Class rooms need to be upgraded for science teaching with latest audiovisual equipment including multimedia; (iv) Establish at least one screen house, an environmentally controlled glasshouse and experimental farm having machinery and implements, including precision land leveling facility for faculty and graduate research work; (v) Up-grade library facilities with NCRC recommended books and research

journals. Students/faculty need to have access to HEC digital library; (vi) Internship programmes at 8th semester of B.Sc. (Hons) and M.Sc. (Hons) thesis research need to be upgraded and strengthened; and (vii) Operational budget allocation be enhanced to cater for internship programmes, thesis research and travel grants.

IV. Review Meetings with Institutions

5. The Council has initiated review meetings with host institutions since 2014-15. So far, 11 review meetings have been convened at major Agriculture institutions. The main objectives of these meetings are:

- (i) Review the current status of implementation of AIC recommendations.
- (ii) Assessment of constraints to and opportunities for quality improvement.

6. During 2017-18, the review meetings were held at the following two higher education institutions;

1. Faculty of Agriculture, The University of Poonch, Rawalakot

7. External evaluation and accreditation of agriculture degree programmes of six disciplines of the Faculty of Agriculture, the University of Poonch, Rawalakot was undertaken during 2012 and 2016. In order to assess the implementation status of the AIC recommendations, a review meeting was held in the committee room of Faculty of Agriculture on August 11, 2017. All the HoDs and Dean of the Faculty attended the meeting, chaired by Chairman NAEAC. The Dean and



Review Meeting at The University of Poonch, Rawalakot

HoDs of the teaching

Departments were urged to implement the actionable recommendations of the Accreditation Inspection Committees (AICs) for the up-gradation and improvement of quality of agriculture degree programmes.

8. A summary of major recommendations, emerged out of the meeting deliberations, are as follows:

- The faculty of six disciplines of agriculture consists of 11 Professors, two Associate Professors, 16 Assistant Professors and 19 Lecturers. Sixty five percent of the faculty holds Ph.D. degree with more than five years teaching experience. Almost 70 percent of the faculty is regular while 20 percent are on Interim Placement of Fresh PhDs (IPFP). The agriculture faculty has a few Associate Professors and the number of Lecturers and Assistant Professors is almost the same. There is a need to induct more Associate Professors and Lecturers. Student-teacher ratio is as low as 5:1.
- There is substantial improvement in the labs and lab equipment. However, paucity of space was noticed which will be resolved with the newly under-completion Academic Block of the Faculty. The Faculty however, needs to upgrade its learning resources in terms of more HEC prescribed textbooks, journals and other reference materials.
- The students and the faculty have limited access to IT-facilities and HEC digital library. Visible and significant improvements in the availability and access to learning resources and facilities are essential.
- The faculty and staff offices still lack adequate office space and facilities. The faculty may urgently be placed /accommodated in spacious and well-equipped offices in the newly construed Academic Block of the University.
- The Agriculture Faculty has very limited field research facilities for graduate students and the faculty. Adequate arrangements are necessary for the establishment of a well-planned as well as well-equipped Research Farm with an appointment of Farm Manager along with adequate field staff.
- There is an urgent need to promote research culture among the young faculty. All Ph.D. faculty members must write research projects and win research grants for strengthening lab and field research facilities.
- All the teaching departments may be provided financial autonomy. Adequate operational funds may be allocated and placed at the disposal of Dean / HoDs for the purchase of chemicals and glassware.
- Local stakeholders may be associated with the Board of Studies (BoS) and Faculty Board for useful and problem-oriented feedback.

- Academia-Industry linkages may be promoted in the areas of Food Science, Soil Science and Entomology, etc. Joint ventures may be initiated to promote R&D activities in the faculty of Agriculture.
- There should be a functional and vibrant Alumni Association of Agriculture College/Agriculture Faculty of the University. Alumni and peers may be taken on-board for curricular and extra-curricular activities of the Faculty.

2. Faculty of Agriculture, Gomal University, D.I. Khan

9. Established in 1980 Faculty of Agriculture of Gomal University, D.I. Khan has now purpose-built building with 52 teaching faculty including five Professors, two Associate Professors, 34 Assistant Professors and 11 Lecturers for eight disciplines of Agriculture. Students enrollment in B.Sc. (Hons) and M.Sc. (Hons) is 150 and 102 respectively. Faculty composition indicates that some of the teaching departments don't have Professor with very few positions of Associates and Lecturers. Student-teacher ratio is just 5:1.

10. Formal accreditation visit and subsequent follow-up visit to the degree programmes of these disciplines were carried-out during 2013 and 2016, respectively. Degree programmes of Entomology and Agronomy discipline were consistently rated sub-standard



Review Meeting at Gomal University, D.I. Khan

in category Y₁ of accreditation. Similarly, Agri. Economics and FST degree programmes were also noticed substandard not meeting some of the major criteria and standards required for programme accreditation.

11. A summary of major recommendations of review meeting deliberations are as follows:

- The review meeting noticed little improvement overtime despite AIC actionable recommendations. Majority of the degree programmes of the disciplines of the Agriculture Faculty are short of senior faculty having large number of Assistant Professors and 20 percent Lecturers. Negligible improvements were noticed in the infrastructure and learning resources, as well as establishment and functioning of at

least two well-equipped and functional laboratories for each discipline. There were grossly insufficient teaching-learning resources and facilities. Very poor access to internet facilities for the students and faculty.

- At least one greenhouse and lath house particularly for Horticulture crops is urgently needed to control environmental effects and produce a disease free certified nursery of fruit and ornamental plants as well as experimental orchards.
- Very few textbooks, reference books and research/ reference material in the main library. None of the teaching departments receives any subscribed scientific international/ national journal of the respective discipline was a duplication.
- The students and faculty have limited access to IT facilities and HEC digital library. Visible, significant improvement in the availability along with access to learning resources and facilities is essential on immediate basis.
- Almost all eight teaching departments require Research Farm for faculty and graduate research. Upgradation of the Research Farm with requisite machinery, implements and manpower, including Farm Manager, should be ensured.
- All PhD faculty must be encouraged and motivated to win research grants through mega projects for strengthening and upgradation of teaching-learning facilities and resources.
- Academia-industry linkages need to be further strengthened for meaningful and result-oriented collaboration.
- The faculty must participate in the national and international conferences and seminars to share their experience and knowledge with their counterparts.
- Study tours/ trips for students must be organised on regular basis to enhance their exposure and vision about agriculture.
- All the teaching departments must be provided financial autonomy. Adequate operational funds should be allocated and placed at the disposal of HoDs.
- More local stakeholders to be associated with the BoS and Faculty Board for useful and problem-oriented feedback.
- Student alumni association is lacking, so; also a well-established and functional alumni office is essential.
- Internship programme in the eighth semester for undergraduate students needs a holistic review to make it more effective and meaningful. Some of the disciplines

are retaining the students in their own departments for this purpose, which is negation of the spirit of this programme.

- Faculty of Agriculture was upgraded to University of Agriculture in 2017. Seed money has been provided and a Project Director appointed to look after development work of the newly established University. About 1000 kanals land area is provided by Gomal University besides the existing Faculty buildings. Significant improvement of quality and standard of the agriculture degree programme is expected with the functioning of the newly established University of Agriculture at D.I. Khan.

V. Teaching Faculty and Students Enrollment

12. Strength and quality of the teaching faculty is the cornerstone of any degree awarding academic program. It is the most important and one of four major evaluation criteria for degree programme assessment and accreditation. National Agriculture Education Accreditation Council (NAEAC) maintains database of key parameters of Higher Education Institutions of Agriculture such as teaching faculty, students intake, physical infrastructure, learning resources and allied facilities since 2008-09. Following is a comparative view of teaching faculty and students enrollment in various Agriculture Education Institutions from 2008-09 to 2016-17.

13. Teaching faculty in the Agriculture Institutions showed almost twofold increase over a period of eight years from 2008-09 to 2016-17. The proportion of increase in the Ph.D. faculty was higher in the Agriculture Faculties and Agriculture Colleges compared to Agriculture Universities. In all, almost three-fold increase in Ph.D. faculty was noticed over the corresponding period. Non-Ph.D. faculty declined in Agriculture Universities and Agriculture Colleges but registered increase in the Agriculture Faculties/ Campuses.

Table 1. Teaching Faculty by Qualification during 2008-09 and 2016-17

Institution	Ph.D.		Non – Ph.D.		Total	
	2008-09	2016-17	2008-09	2016-17	2008-09	2016-17
Agriculture Universities	286	582	235	143	521	725
Agriculture Faculties/ Campuses/ Institutions	38	194	47	106	85	300
Agriculture Colleges	36	132	130	86	166	218
Agriculture Departments in General Universities	12	113	11	81	23	194
Total	372	1021	423	416	795	1437

14. Students enrollment in B.Sc. (Hons) and M.Sc. (Hons) degree programmes is given in table 2. It indicates that enrollment in the undergraduate programme has doubled during the last eight years. Students enrollment in the postgraduate programme also increased significantly. The increase in the intake was the result of incremental admission of 10% each year in the undergraduate programme. This approach was adopted by Institutes because of linking HEC grant with the enhancement in the intake of students. The policy adopted by HEC and Agriculture Institutions has adversely affected the quality of the degree programmes in terms of physical infrastructure, learning resources, facilities and financial support to the students.

Table 2. Students Enrollment in B.Sc. (Hons) and M.Sc. (Hons) during 2008-09 and 2016-17

Institution	B.Sc. (Hons)		M.Sc. (Hons)		Total	
	2008-09	2016-17	2008-09	2016-17	2008-09	2016-17
Agriculture Universities	5246	5835	2294	6431	7540	12266
Agriculture Faculties/ Campuses/ Institutions	294	2236	119	1014	413	3250
Agriculture Colleges	802	1101	372	282	1174	1383
Agriculture Departments in General Universities	113	1676	633	498	746	2174
Total	6455	10848	3418	8225	9873	19073

VI. Quality Assurance and Accreditation Awareness Seminars

15. The Council organized and conducted four quality assurance and accreditation awareness seminars during 2017-18 with the collaboration of host institutions. The objective of these seminars is to create awareness among the stakeholders for better understanding of the significance and process of accreditation. Secretary, NAEAC was the main seminarian who presented a brief introduction of Council's mission, mandate, scope of work and functions. He also discussed vital ingredients of accreditation process such as eligibility criteria, self-assessment reports (SAR), standards, criteria and procedures. Roster of Program Evaluators, toolkit and accreditation framework. It was conveyed to the participants that all possible efforts are made to ensure a transparent, neutral, unbiased and fair review and accreditation process. All the seminars were chaired either by the VC or any other senior officer of the Institution and attended by majority of the faculty members and students.

Quality Assurance and Accreditation Awareness Seminars, 2017-18

S. No	Institution	Date	Venue	Chairperson	No. of Participants
1	Minhaj University, Lahore	31-7-17	Auditorium	VC	52
2	AIMS Institute of Management Sciences, Lahore	1-8-17	Committee Room	Registrar	24
3	Afro-Asian Institute, Lahore	19-10-17	Committee Room	Director	31
4	UAF Sub-Campus, Depalpur-Okara	22-11-17	Seminar Room	Project Director	100

VII. Council Meetings

16. The 13th Meeting of the NAEAC was held on January 15, 2018 at 10:30 A.M. at the Mural Hall, HEC. Dr. M. E. Tusneem, Chairman, NAEAC chaired the meeting attended by 19 members including three proxies. There were two apologies.

17. The meeting commenced with the recitation from the Holy Quran. The Chair in his opening remarks welcomed the Members to the 13th Meeting of the Council. He complimented the Council Members for their support and commitment to the objectives of the Council. He also complimented Prof. Dr. Riaz Hussain Qureshi, Ex-Advisor HEC and Council Member of NAEAC since its inception for making significant contributions to the evolution of the Council to its current status. His continuing support and involvement in the activities of the Council were highly appreciated and commended.



13th Council Meeting

18. The Chairman highlighted major activities and achievements of the Council during 2016-17 including the accreditation and evaluation visits by the Accreditation Inspection Committees (AICs), review meetings with the Heads of agriculture education institutions. He observed that majority of the substandard degree programs are from newly established institutions and departments and expressed serious concerns about their predominantly substandard ratings. The Chair noted that main reasons for low ratings are that most of the

newly established institutions are set up without need assessment and inadequate resources allocation. The large enrollment of students without adequate and qualified faculty and physical infrastructure facilities like class rooms, laboratories, faculty offices, etc. are the main cause of poor quality of education. He emphasized the need to ensure adequate human and financial resources to the newly established institutions to enable them to meet the required education standard and produce graduates who are competitive nationally and internationally. Dr. Riaz Hussain Qureshi suggested continuous follow-up by the Council and comparison of evaluation ratings of these degree programs overtime to monitor the improvements. After the introductory remarks by the Chair; Secretary NAEAC presented item-wise agenda of the meeting for consideration of the Council members. A summary of the decisions taken in the meeting is given in Annexure – II.

VIII. Capacity Building of Programme Evaluators of NAEAC

19. One of the functions of the Council is to develop and update the roster of program experts/evaluators. Since 2007-08. Council has been maintaining the roster that consists of experts of more than 16 disciplines of agriculture. The nominations are invited from Agriculture Education Institutions and R&D organizations. These program evaluators/experts are generally senior professors and scientists having rich experience in teaching, research and program review. Currently, the NAEAC roster consists of about 132 experts/program evaluators. These are Agri. Biotechnology (5), Agri. Chemistry (5), Agriculture Economics (11), Agricultural Education Extension (8), Agricultural Entomology (14), Agronomy and Crop Physiology (12), Animal Science (4), Food Science and Technology (8), Forestry, Range Management and Wildlife (9), Horticulture (12), Agribusiness and Marketing (4), Plant Breeding and Genetics (15), Plant Pathology (9), Plant Protection (2), Soil and Environmental Sciences (12), and Weed Science (2).

Chairman, NAEAC is empowered to constitute an accreditation inspection committee (AIC) comprising of two program evaluators/experts and the Secretary NAEAC as Member Secretary of AIC for the on-site visit to the degree programs of agri. education



4th Training Workshop for P.Es of NAEAC

institutions in Pakistan.

20. Capacity building of human resource is one of the priority areas of the Government of Pakistan. International Research has indicated that investment in human resource has the highest rate of return and human capital of a country is the in-valuable resource. Given the fact that Quality Enhancement is a relatively new initiative in Higher Education, the need for training of PEs can hardly be overemphasized. Training workshops enable program evaluators to learn the quality assurance mechanism involved in the external review process of agriculture degree programs. The National Agriculture Education Accreditation Council (NAEAC) while cognizant of the value and importance of this activity, has so far organized four workshops for the program evaluators/assessors. The duration of each training workshop was three-days. Foreign resource persons expertise were acquired for these training workshops from Sri Lanka, United Kingdom, and China. These resource persons were experts in quality assurance and accreditation with considerable international experience of institutional and program review. Training focused on accreditation procedures, etiquettes, toolkit and quality standards and criteria for assessment, international best practices and accreditation of agriculture degree programs.

21. Four such training workshops were conducted in June 2011, December 2012, July 2015 and September 2017 in which about 120 participants participated. The experts/program evaluators of NAEAC were drawn from 16 different disciplines who possessed diversified academic backgrounds. Post-workshop feedback from the participants was very encouraging. Majority of the participants rated the workshop deliberations as very useful and rewarding and expressed full satisfaction on the teaching-learning process and desired that such workshops may be regularly organized for orientation and updating the knowledge and skills of the PEs. As such the workshops help them prepare objective, concise and evidence based AIC reports. Main objectives of these workshops were to improve the relevant skills of PEs in undertaking external evaluation and accreditation process and to understand participatory SWOT Analysis and NAEAC best practices for external peer review.

22. Following are the criteria and procedure for the selection of Program Evaluators:

(a) Selection Criteria

- i. PhD in relevant fields of Agriculture education with minimum of five years teaching experience at university level.
- ii. Strong technical and analytical skills.

- iii. Strong communication and interpersonal skills.
- iv. Eminent Scientist /Professional with 10-15 years' experience related to agriculture research or agriculture education.
- v. Experience/familiarity with international best practices in program evaluation at university level.
- vi. Experience in the assessment/evaluation of degree level academic program shall be preferred.

(b) Selection Procedure

- i. Nominations of suitable faculty members as Program Evaluators by the Vice Chancellors of Agriculture Universities.
- ii. Nominations by the Chairperson/Members of the Council.
- iii. Invitation of Expression of Interest (EOI) through website or advertisement.
- iv. Selection of the evaluators by a selection committee comprising of three to four members and chaired by Chairman NAEAC.

IX. Registration Policy for Professionals and Agriculture Graduates

23. Quality Assurance Agency had given a task to National Computing Education Accreditation Council (NCEAC) to prepare a general software to cater the needs of the degree programs which will help other Councils to register their students and professionals. In this regard, a number of meetings were held under the chairmanship of Dr. Mukhtar Ahmed, Chairman, HEC. It was decided that all the five HEC established Accreditation Councils would prepare their registration policies and same will be submitted to QAA, HEC.

24. Following is the National Agriculture Education Accreditation Council (NAEAC) proposed registration policy for “Agriculture Graduates and Professional Agriculturists”:

1. The registration of agriculture graduates and professional agriculturists needs to be mandatory/incorporated in the bye-laws/functions of NAEAC.
2. NAEAC shall maintain the registration of agriculture related degree programs. The registration will be carried-out in respect of agriculture graduates holding four years B.Sc. (Hons) agriculture degree (under-graduates) and two years M.Sc. (Hons) degree (post-graduates) from HEC's recognized Higher Education Institutions and the same program is accredited with NAEAC.

3. Registration by NAEAC shall be open to the agriculture degree programs that fall in the purview of NAEAC as per its bye-laws. Detailed information is available at www.naeac.org.
4. The registration is subject to nominal fee for the following categories:

Agriculture Graduates

- i. Registration fee of Rs.500/- one time on Admission.
- ii. Registration fee of Rs.1,000/- one time on Graduation.

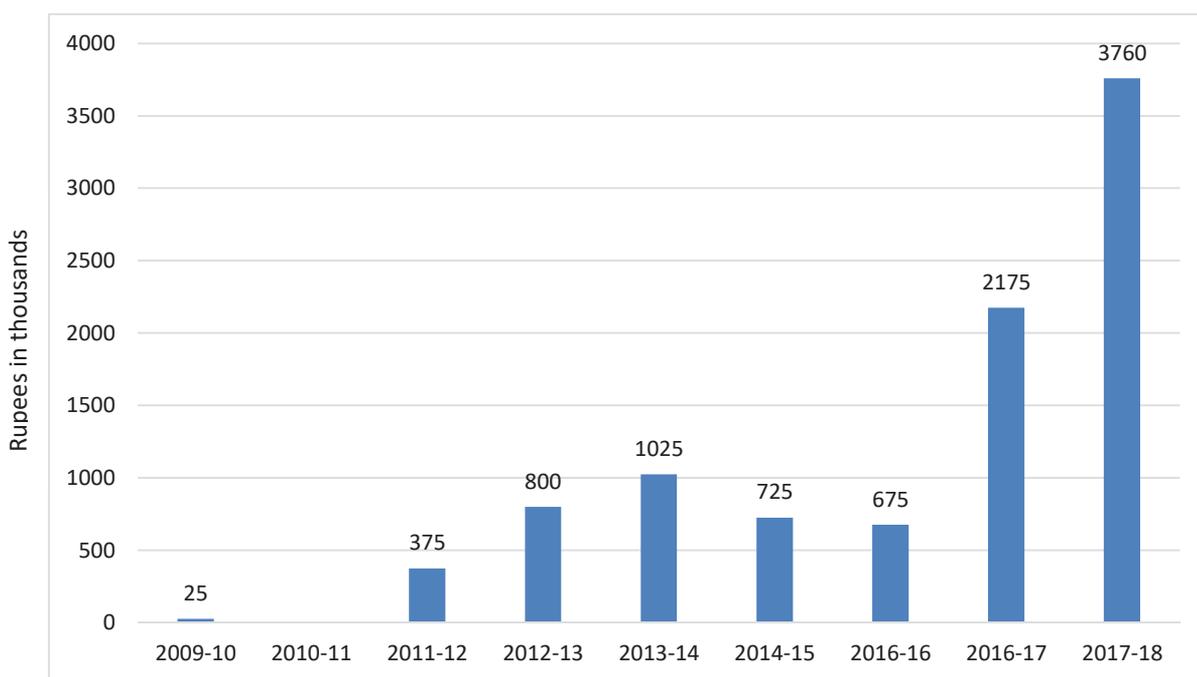
Professional Agriculture Graduates

- iii. Registration as 'Professional Agriculturist' after acquiring experience of five years in the relevant agriculture discipline on production of HEC's attested degree and transcript along with experience certificates issued by the competent authority of the concerned organization.
 - iv. Registration as 'Professional Agriculturist' on payment of Rs.1,000/- one time, Renewal fee of Rs.500/- every year and Rs.5,000/- for lifetime subscription.
 - v. The foreign degree holders shall also be registered on production of HEC's equivalence certificate. The registration fee is proposed as Rs.2,000/- one time, Renewal Fee of Rs.1,000/- every year and Rs.10,000/- for lifetime subscription.
5. Registration number will be allocated to each graduate /Professional Agriculturist and registration certificate shall be issued to this effect.
 6. On approval, the applicant's data will be entered in NAEAC record and he/she will be subsequently issued a registration card. The registration card, will be issued only once.
 7. HEC will provide the requisite software and hardware requirements.
 8. The proposed registration policy shall be subject to change as and when so required/ directed by HEC.

X. Accreditation Fee Structure

25. As per bye-laws of the National Agriculture Education Accreditation Council (NAEAC), payment of accreditation fee is obligatory for the accreditation of agriculture degree programs. Agriculture education institutions/degree programs intending to be accredited are required to pay the prescribed accreditation fee to the Council. The amount and structure of accreditation fee varies among five HEC established accreditation Councils. Other four Accreditation Councils have far higher accreditation fee than NAEAC. Following is the trend of the receipt of accreditation fee received by NAEAC from year 2009-10 to year 2017-18.

Trend of the Receipts of Accreditation Fee, 2009-10 to 2017-18



26. Accreditation Fee Structure was decided in the second meeting of the Council held on March 31, 2008. It was agreed to charge Rs.25,000/- and Rs.10,000/- per degree program from University and College, respectively. During third Council meeting held on January 12, 2009, the accreditation fee structure was revised at the Faculty level. Minimum of Rs.50,000/- with at least Rs.10,000/- per discipline accredited and maximum of Rs.100,000/- for ten and more disciplines. In the ninth meeting of Council held on December 9, 2013, the accreditation fee structure was further revised to minimum of Rs.75,000/- with at-least Rs.25,000/- per discipline accredited; maximum of Rs.150,000/- for up-to ten disciplines and maximum of Rs.200,000/- for more than 10 disciplines.

Keeping in view the budget constraints of the Council, during its 12th meeting held on October 24, 2016 upward revision of the accreditation fee structure was approved.

27. NAEAC charges very modest and affordable accreditation fee as compared to other HEC established Councils. However, in the recent years, the accreditation related costs have increased due to price escalation, TA/DA of program evaluators, etc. Recently, a few private as well as public-private partnership institutions of higher learning have initiated a single degree program (Food Science) in agriculture and Council desires to charge the accreditation fee on full cost recovery basis from such institutions. It was discussed during 13th Meeting of NAEAC held on January 15, 2018. Following is the revised accreditation fee structure for the public, private and public-private partnership institutions with effect from January 15, 2018.

S#	Existing Accreditation Fee Structure 2016-17		Proposed Accreditation Fee Structure * 2017-18		
	Public Institutions	Private Institutions	Public Institutions	Private Institutions	Public – Private Partnership Institutions
i.	Rs. 100,000 up-to three disciplines	Rs. 150,000 per discipline. (Based on full cost recovery)	Rs. 120,000 up- to three disciplines	Rs. 150,000 per discipline. (Based on full cost recovery)	Rs. 120,000 per discipline
ii.	Rs.150,000/- Four to six disciplines	Rs.200,000/- two to four disciplines	Rs.200,000/- Four to six disciplines	Rs.200,000/- two to three disciplines	Rs.150,000/- two to four disciplines
iii.	Rs. 200,000/- Seven to Ten disciplines	Rs. 250,000/- five to seven disciplines	Rs. 250,000/- Seven to Ten disciplines	Rs. 250,000/- four to six disciplines	Rs. 200,000/- five to seven disciplines
iv.	Rs.250,000/- more than ten disciplines	Rs.300,000/- more than seven disciplines	Rs.300,000/- 11-12 disciplines	Rs.300,000/- 7-9 disciplines	Rs.250,000/- 8-10 disciplines

* Accreditation Fee for zero visits, formal visits, and follow-up visits.

XI. NAEAC Budget Allocation and Utilization from FY 2009-10 to FY 2016-17

28. Higher Education Commission (HEC) established four accreditation Councils in 2006-07. Initially, these Councils were provided an annual grant of Rs.2.0-2.5 million for a period of three years and later on extended for another two years. After few years, the Commission realized that NAEAC and NACTE would not be able to attain financial sustainability due to low fee structure of government run universities. Hence, the Commission in its 26th meeting in 2012 agreed to enhance the annual grant of these two Councils from Rs.2.00 million to Rs.4.00 million per annum for a period of ten years. The

NAEAC is also generating revenue through Accreditation Fee, which is very low as almost all the agriculture institutions are in public sector charging low tuition fee. Following is the budget allocation and utilization pattern of NAEAC since 2008-09.

NAEAC Budget Allocation and Utilization Scenario

Rupees (in million)

Financial Year	Budget Allocation	Budget Utilization	Percent of allocation
2008-09	2.00	2.05	103
2009-10	2.00	1.89	95
2010-2011	3.00	2.97	99
2011-2012	2.85	2.84	99.6
2012-2013	4.53	4.02	88.7
2013-2014	4.50	3.89	86.4
2014-2015	4.59	3.87	84.3
2015-2016	5.48	5.39	98.4
2016-2017	6.20	5.99	96.6

29. The available funds are used with utmost financial prudence. As a result, the ratio of 40:60 between the establishment and operational budget is much better than the norm of 60:40. NAEAC receives one-line budget (grant) from HEC and has internal arrangement to allocate head-wise and re-appropriation, as necessary, with the approval of Chairman, NAEAC. Since FY 2015-16, budgetary requirements of NAEAC exceed the annual grant of Rs.4.00 million received from HEC. During FY 2016-2017, the budget allocation was Rs.6.20 million and for FY 2017-18, the budget allocation is Rs.6.76 million. The Council is continuously revising the accreditation fee upward for the last five years. As 95% agriculture institutions are in public sector, it is not possible to further revise the accreditation fee. In this regard, the Council in its 13th meeting held on January 15, 2018 decided to approach HEC authorities with a request to enhance its current annual grant from Rs.4.00 million to at-least Rs.7.00 million for a period of three to five years as the span of Council accreditation activities has also increased significantly.

30. The NAEAC financial statements are regularly audited by the Commercial Auditors each year and Audit Report submitted to HEC. The Council members appreciated the Secretariat Staff commitment and hard work in achieving the annual operational targets and exercising due diligence and financial prudence in the use of human and financial resources of the Council.

XII. Proposed Work Plan and Budget for FY 2018-19

Annual Work Plan of NAEAC – FY 2018-19

S. No	Institution	Discipline	Proposed Visit Schedule
1. 2nd Round Accreditation Visits			
i.	University of Agriculture, Faisalabad	Agri. Econ, Agri. Extension, FST, Livestock Mgt.	November last week, 2018
ii.	The University of Agriculture, Peshawar	Agri. Econ, Agri. Extension, FST, Plant Prot.	March 1 st week, 2019
iii.	Arid Agriculture University, Rawalpindi	Agri. Econ, Agri. Extension, Horticulture, Plant Path	March, 2019
iv.	Sindh Agriculture University, Tandojam	Agri. Econ, Agri. Extension Entomology, Plant Prot.,	December 2018
v.	Gomal University, D.I. Khan	Agronomy, Entomology, PBG, Soil Science	November 3 rd week 2018
vi.	The University of Poonch, Rawalakot	Agronomy, Horticulture, PBG, Soil Science	April 3 rd week, 2019
vii.	Bahauddin Zakariya University, Multan	Agronomy, Horticulture, PBG, Soil Science	October last week 2018
2. Formal Accreditation Visits			
i.	Gomal University, D.I. Khan	Agri. Economics, FST	November 3 rd week, 2018
ii.	The University of Poonch, Rawalakot	Plant Pathology	April 3 rd week, 2019
iii.	Arid Agriculture University, Rawalpindi – Attock Campus	Agronomy, Soil Science	February last week, 2019
iv.	The Islamia University of Bahawalpur	Plant Pathology	November 3 rd /4 th week, 2018
v.	Karakoram International University, Gilgit	Horticulture	July, 2018
vi.	Shaheed Benazir Bhutto University Sheringal, Dir	Forestry	July last week, 2018
vii.	University of Management and Technology, Lahore	Food Technology	April 1 st week, 2019
viii.	University of Veterinary and Animal Sciences, Lahore	Food Science and Technology	November last week, 2018
3. Follow – Up Visits			
i.	UAF Sub – Campus, Burewala	Agronomy, Horticulture, Plant Pathology, Soil Sci.	October 23 to 26, 2018
ii.	Allama Iqbal Open University, Islamabad	Forestry Ext., Livestock Mgt	January 14, 2019
iii.	Karakoram International University, Gilgit	Food Science and Technology	July, 2018

Contd...

S. No	Institution	Discipline	Proposed Visit Schedule
4. Pre-Accreditation/Zero Visits			
i.	Muhammad Nawaz Shareef University of Agriculture, Multan	Agri. Econ, Agribusiness, Biotechnology, Plant Path	December 1 st /2 nd week, 2018
ii.	UAF Sub – Campus Depalpur, Okara	Agronomy, Soil Science, Horticulture, PBG	March 3 rd /4 th week, 2019
iii.	Khwaja Fareed University of Engineering and Technology, Rahim Yar Khan	Food Science and Technology	January/February, 2019
iv.	University of Swat	Forestry	July last week, 2018
5. Review Meetings with Host Institutions			
i.	Lasbela University of Agriculture, Water and Marine Science, Uthal	Agronomy, Ento, PBG, Hort, Soil Sc., Plant Path	December last week, 2018
ii.	Muhammad Nawaz Shareef University of Agriculture, Multan	Agronomy, Entomology, PBG, Soil Science	February, 2019
iii.	Ghazi University, D.G. Khan	Agronomy, Ento, PBG, Horticulture, Soil Science	March/April, 2019
iv.	University of Swabi	Agronomy, Entomology, PBG, Horticulture, FST	July 11/24, 2018
6. Accreditation Awareness Seminars			
i.	Khwaja Fareed University of Engineering and Technology, Rahim Yar Khan		January/February, 2019
ii.	Dadabhoy Institute of Higher Education, Karachi		Schedule not yet received
iii.	University of Engineering and Technology, Lahore		September 2 nd week, 2018
iv.	The University of Sindh, Jamshoro		Schedule not yet received
7. Parent Alert		NAEAC Student/Parent Alert	September, 2018
8. Annual Report 2017-18			July, 2018
9. Council Meetings		14 th Council Meeting	July, 2018
10. Council Annual Audit		Annual Audit of NAEAC Accounts	July, 2018

Budget Utilisation for FY 2017-18 and Proposed Allocation for FY 2018-19

Code	Object	Budget Utilization 2017-18	Proposed Budget Allocation 2018-19
71-1	Establishment Costs	4,286,339	4,552,890
71-20	a. Honorarium for Programme Evaluators	655,000	698,500
	b Other Benefits	486,000	300,000
72-10	TA/ DA (Accreditation visits; 2 Council Meetings & Conference of Deans/ HoDs)	1,872,983	1,900,000
72-14	*Transportation	319,020	320,000
72-15	Vehicle Expenses	5,902	10,000
72-2	Communication	54,674	55,000
72-31	Stationery & other supplies	45,420	50,000
72-32	Printing and Publications	119,250	130,000
72-37	**Other Misc. Expenses (OE & RM)	40,418	42,000
72-43	Computer & Office equipment	0	15,000
72-44	Furniture & Fixture	0	20,000
72-50	***Audit Expenses	30,460	33,000
72-60	Publicity & Advertisement	49,627	290,000
72-63	Meetings/Seminars	82,405	100,000
Total		8.047 million	8.516 million

* Transportation (includes Car Rental, local travel charges, movement of goods)

** Other Miscellaneous Expenses (include Operating Expenses and Repair & Maintenance)

*** Audit expenses include out of pocket expenses of auditors.

Budgetary Sources for FY 2018-19

- | | | |
|------|------------------------------------|-------------------|
| i. | Opening balance as of July 1, 2018 | Rs. 1.593 million |
| ii. | Expected HEC Grant for FY 2018-19 | Rs. 4.000 million |
| iii. | Accreditation Fee (Estimate) | Rs. 3.000 million |

Total

Rs. 8.593 million

NAEAC Membership

Dr. M.E. Tusneem Chairman National Agriculture Education Accreditation Council, Higher Education Commission (HEC)	Prof. Dr. Nadeem Akhtar Abbasi Vice Chairperson, NAEAC and Dean, Faculty of Crop & Food Sciences PMAS Arid Agriculture University, Rawalpindi
1-Prof. Dr. Riaz Hussain Qureshi Ex-Advisor (HRD) Higher Education Commission (HEC), Islamabad	2-Prof. Dr. Muhammad Amjad Aulakh Dean, Faculty of Agriculture University of Agriculture, Faisalabad
3-Prof. Dr. Saghir Ahmed Sheikh Dean, Faculty of Crop Production Sindh Agriculture University, Tandojam	4-Prof. Dr. Ghulam Jilani Pro – VC, Labella University of Agriculture, Water and Marine Sciences, Uthal
5-Prof. Dr. Saifullah Dean, Faculty of Crop Protection The University of Agriculture, Peshawar	6-Dr. Nadeem Amjad Member (Coordination & Monitoring Division) Pakistan Agricultural Research Council, Islamabad
7-Prof. Dr. Ishtiaq Ahmad Rajwana Pro – VC Muhammad Nawaz Shareef University of Agriculture, Multan	8-Dr. Abid Mahmood Director General (Research) Ayub Agriculture Research Institute, Faisalabad
9-Dr. Muhammad Javed Tareen Director General (Research) Agriculture Research Institute, Quetta	10-Dr. Naveed Akhtar Director General (Research) Agriculture Research Institute, Tarnab, Peshawar
11-Mr. Muhammad Zafar Yab Haider Director General (Agri. Extension) Agriculture House, 21 Davis Road, Lahore	12-Prof. Muhammad Aslam Niazi Principal Balochistan Agriculture College, Baleli, Chaman Road, Quetta
13-Dr. Qazi Fayaz ud Din Director, Model Farm Agriculture, Livestock, Fisheries & Cooperative Department, Govt. of Khyber Pakhtunkhwa	14-Mr. Abid Hussain Qureshi Director, Agri. Extension and Farms Shahbaz Building, Hyderabad
15-Mr. Abdullah Gaddani Baloch Principal Research Officer Pakistan Council for Science and Technology, Sector G-5/2, Islamabad	16-Dr. Liaqat Ali Bhutto Cotton Botanist Agriculture Research Institute, Tandojam
17-Mr. Waseem Amjad Mahmood Secretary, Pak. Fruit Processors Association Shezan Intl. Ltd, 56 Bund Road, Lahore	18-Mr. Iskandar M. Khan Director Premier Sugar Mills & distillery Co. Ltd 20-A, Markaz, F-7, Islamabad
19-Mr. Sheikh M. Akmal Director M/s Acro Spinning & Weaving Mills Ltd Lahore Cantt	20-Mr. Karim Aziz Malik Chief Executive M/s Barkat Rice Mills (Pvt) Ltd Plot No. 220-221, Street#1, I-10/3, Islamabad

Annexure-II

Minutes of 13th Meeting of NAEAC**Item# I: Confirmation of the Minutes of the Twelfth Meeting of NAEAC**

1. Secretary NAEAC presented minutes of 12th meeting of the Council for confirmation of the Council members. In the absence of any comments and objection, the minutes of twelfth Meeting of the Council were approved as presented.

Item# II: Approval of the Accreditation Ratings of Agriculture Degree Programs Evaluated During 2016-17

Decision: The Council members examined the evaluation ratings of 62-degree programs in 13 institutions reviewed by NAEAC during 2016-17 and approved the ratings as recommended. They however, expressed their concern over the HEC policy regarding ten percent annual increase in the students' enrollment without corresponding increase in teaching-learning infrastructure and resources considered a major factor in the decline of quality. The Council Members emphasized that HEC policy regarding Vice Chancellor evaluation criteria needs to be reviewed to include quality rating aspects to safeguard and encourage quality improvement of higher education.

Item# III: Review Meetings with Directors and HODs regarding Implementation Status of AIC Recommendations

2. The Secretary, NAEAC briefed the Council on the review meetings conducted during 2016-17. The recommendations of these three review meetings were shared with the meeting. It was noted that the Council needs a continuous follow-up to ensure the implementation of these recommendations with focus on the strength and quality of faculty, infrastructure, and learning resources. All newly established institutions are encouraged to prepare development projects and motivate their PhD qualified faculty to win the research grants to establish labs, procure chemicals and glassware, etc.

Decision: Members appreciated the review meeting process as this involves concerned VCs, Deans, HoDs and the Council to discuss the issues in detail that need improvement and recommended its continuation and follow-up.

Item# IV: Proposed Annual Work Plan and Budget Allocations FY 2017-18

3. Secretary NEAC presented annual work plan for FY 2017-18 consisting of four major activities of accreditation process covering external evaluation and assessment of 74-degree programs comprising on-site visits of 19 institutions, follow-up visits and on-site visits. In addition, four review meetings, eight zero visits, and four awareness seminars are also planned for FY 2017-18. In all, the Council plans to undertake at least 35 visits of the concerned institutions. Based on the budget utilization of FY 2016-17 and as per operational plan of work, the estimated budget for FY 2017-18 is Rs.6.764 million, compared to budget utilization of 6.00 million during 2016-17.

Decision: The Council members noted the work plan activities and endorsed the same along with proposed budget allocations for FY 2017-18.

Item# V: Proposal for Enhancement in NAEAC Annual Grant Received from HEC

4. In 2012, HEC increased Council grant from Rs. 2.00 million to Rs. 4.00 million for next ten years. However, this amount has been falling short due to inflation, rise in the salary and benefits of the staff and higher logistics related costs of accreditation. It may be noted that NAEAC exercises maximum financial prudence in its budget utilization and maintains record and submits annual financial and audit reports in a timely manner.

5. In the previous meetings of the Council, the Council Members showed reluctance to increase the accreditation fees for the agriculture degree programs beyond a certain limit due to the following reasons; i). All the agriculture education institutions are in the public sector having low tuition fee structure; ii). Public sector institutions receive funding/grants from HEC to make up their budgetary deficits; iii). As such need for additional funding due to annual increase in the staff salaries and benefits, and accreditation related costs should be met through additional budgetary allocations from HEC.

6. Accordingly, the proposal is submitted for consideration and approval of the Council for NAEAC to approach HEC authorities for the increase in the HEC annual grant from Rs.4.00 million to at least Rs.7.00 million to ensure the timely implementation of NAEAC annual work plan envisaged for FY 2017-18 onward.

Decision: The Council members agreed that enhancement in the HEC grant is required based on the current costs for next 4-5 years and endorsed the proposal for enhancement of NAEAC grant from Rs. 4.00 million to Rs. 7.00 million for the next four years. At the same time, it agreed to review the Accreditation Fee and revise it to off-set part of the additional cost.

Item# VI: Revision of the Accreditation Fee Structure

7. Payment of accreditation fee is obligatory for the accreditation of agriculture degree programs. The amount and structure of accreditation fee varies among five HEC established accreditation Councils. NAEAC charges very modest and affordable accreditation fee as compared to other HEC established Councils. However, in the recent years, the accreditation related costs have increased due to price escalation, TA/DA of program evaluators, etc. Recently, a few private as well as public-private partnership institutions of higher learning have initiated a single degree program (Food Science) in agriculture and Council desires to charge the accreditation fee on full cost recovery basis from such institutions. Following is the proposed revised accreditation fee structure for the **public, private and public-private** partnership institutions.

S#	Existing Accreditation Fee Structure 2016-17		Proposed Accreditation Fee Structure *		
	Public Institutions	Private Institutions	Public Institutions	Private Institutions	Public – Private Partnership Institutions
i.	Rs. 100,000 up-to three disciplines	Rs. 150,000 per discipline. (Based on full cost recovery)	Rs. 120,000 up-to three disciplines	Rs. 150,000 per discipline. (Based on full cost recovery)	Rs. 120,000 per discipline
ii.	Rs.150,000/- Four to six disciplines	Rs.200,000/- two to four disciplines	Rs.200,000/- Four to six disciplines	Rs.200,000/- two to three disciplines	Rs.150,000/- two to four disciplines
iii.	Rs. 200,000/- Seven to Ten disciplines	Rs. 250,000/- five to seven disciplines	Rs. 250,000/- Seven to Ten disciplines	Rs. 250,000/- four to six disciplines	Rs. 200,000/- five to seven disciplines
iv.	Rs.250,000/- more than ten disciplines	Rs.300,000/- more than seven disciplines	Rs.300,000/- 11-12 disciplines	Rs.300,000/- 7-9 disciplines	Rs.250,000/- 8-10 disciplines

* Accreditation Fee for zero visits, formal visits, and follow-up visits.

Decision: The Council Members agreed that the proposed increase in the accreditation fee structure is duly justified based on actual costs incurred and inflation factors in case of both public, private/ public-private partnership institution and endorsed the same.

Annual Audit Report of NAEAC, 2017-18



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Independent Auditor's Report to the Members of Council**Opinion**

We have audited the financial statement of National Agriculture Education Accreditation Council which comprise the statement of cash receipts and expenditure (here-in after referred to as the financial statement) for the year then ended, and notes to the financial statement, including a summary of significant accounting policies.

In our opinion, the accompanying financial statements of the National Agriculture Accreditation Council is prepared, in all material respects, in accordance with cash receipts and expenditure basis of accounting described in note 3 to the financial statements.

Basis for Opinion

We conducted our audit in accordance with the International Standards on Auditing (ISAs) as applicable in Pakistan. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are independent of the 'National Agriculture Education Accreditation Council' in accordance with the International Ethics Standards Board for Accountants' Code of Ethics for Professional Accountants as adopted by the Institute of Chartered Accountants of Pakistan (the Code) and we have fulfilled our other ethical responsibilities in accordance with the Code. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and Those Charged with Governance for the Financial Statement

The Management is responsible for the preparation of the financial statement in accordance with cash receipts and expenditure basis of accounting described in note 3 to the financial statement, and for such internal control as the Management determine is necessary to enable the preparation of the financial statement that is free from material misstatement, whether due to fraud or error.

In preparing the financial statement Management is responsible for assessing the National Agriculture Education Accreditation Council ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless Management either intends to liquidate the National Agriculture Education Accreditation Council or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the National Agriculture Education Accreditation Council financial reporting process.

Auditor's Responsibilities for the Audit of the Financial Statement

Our objectives are to obtain reasonable assurance about whether the financial statement as a whole is free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs as applicable in Pakistan will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of this financial statement.





As part of an audit in accordance with ISAs as applicable in Pakistan, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the financial statement, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the National Agriculture Education Accreditation Council internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by Management.
- Conclude on the appropriateness of Management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the National Agriculture Education Accreditation Council ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the financial statement or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the National Agriculture Education Accreditation Council to cease to continue as a going concern.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

ISLAMABAD

Date 19/7/18

ZIA MASOOD KIANI & CO
(Chartered Accountants)

Engagement Partner
ZIAULLAH-FCA



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NATIONAL AGRICULTURE EDUCATION ACCREDITATION COUNCIL

NOTES TO THE RECEIPTS AND EXPENDITURES STATEMENT FOR THE YEAR ENDED JUNE 30, 2018

Note 1

Council and its Operations

National Agriculture Education Accreditation Council (NAEAC) was established by Higher Education Commission (HEC) in October, 2006. Its scope of work is to accredit degree programs of institutions and their departments, faculties and disciplines of agricultural education by giving them appropriate ratings.

Note 2

Statement of Compliance

The Receipts and Expenditures Statement has been prepared in accordance with the basis of accounting as described in Note 3.

Note 3

Basis Of Preparation

The Receipts and Expenditures Statement has been prepared under the cash basis. In cash basis of accounting revenue is recognized when received rather than when earned and expenses are recognised when payments are made rather than when incurred.

Note 4

Receipts

	Note	2018 Rupees
Annual grant from Higher Education Commission		4,000,000
Accreditation fee	4.1	<u>3,760,000</u>
		<u>7,760,000</u>
4.1 Accreditation fee		
Institute of Agricultural Sciences (IAGS), Lahore		120,000
Muhammad Nawaz Sharif University of Agriculture, Multan		250,000
University of Sargodha, Lyallpur Campus, Faisalabad		220,000
Hazara University, Mansehra		100,000
The University of Lahore, Lahore		150,000
The Islamia University of Bahawalpur		100,000
GCUF Sahiwal Campus		120,000
Abdul Wali Khan University, Mardan		220,000
Gomal University, D.I. Khan		100,000
Minhaj University, Lahore		300,000

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NATIONAL AGRICULTURE EDUCATION ACCREDITATION COUNCIL*Notes to the Receipts and Expenditures Statements**Note 4.1, Accreditation Fee - Continued.*

Karakoram International University, Gilgit	100,000
Shaheed Z.A.Bhutto Agriculture College, Dokri	100,000
Shaheed Benazir Bhutto University, Sheringal	100,000
Sindh Agriculture University, Tandojam	150,000
Government College Women University, Faisalabad	120,000
University of Agriculture, Faisalabad	150,000
Balochistan Agriculture College, Quetta	150,000
Arid Agriculture University, Rawalpindi	250,000
UVAS Lahore	100,000
GCUF Layyah Campus	120,000
University of Poonch, Rawlakot	120,000
Bahauddin Zakariya University, Multan	120,000
University of Management and Technology, Lahore	150,000
Jinnah University for Women, Karachi	150,000
The University of Agriculture, Peshawar	200,000
	<u>3,760,000</u>

Note 5

Variance Analysis

	Budgeted	Actual	Variance	
	Rupees	Rupees	Rupees	Percentage
Establishment costs	3,965,339	4,286,339	(321,000)	-8%
Honorarium for program evaluators	445,500	655,000	(209,500)	-47%
Other benefits	165,000	486,000	(321,000)	-195%
TA/DA	1,050,000	1,872,983	(822,983)	-78%
Transportation	250,000	319,020	(69,020)	-28%
Vehicle expenses	8,000	5,902	2,098	26%
Communication	50,000	54,674	(4,674)	-9%
Stationery and other supplies	50,000	45,420	4,580	9%
Printing and publications	174,000	119,250	54,750	31%
Miscellaneous expenses	40,000	40,418	(418)	-1%
Computer and office equipment	30,000	-	30,000	100%
Furniture and fixtures	15,000	-	15,000	100%
Audit expenses	32,000	30,460	1,540	5%
Publicity and advertisement	390,000	49,627	340,373	87%
Meetings / seminars	100,000	82,405	17,595	18%
	<u>6,764,839</u>	<u>8,047,498</u>	<u>(1,282,659)</u>	

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NATIONAL AGRICULTURE EDUCATION ACCREDITATION COUNCIL

Notes to the Receipts and Expenditures Statements

Note 6
Cash and Bank

	Note	2018 Rupees
Cash in hand		2,383
Cash at bank		<u>1,593,202</u>
		<u>1,595,585</u>

Note 7
Tax Payable

	Note	2018 Rupees
Withholding Tax Payable		
- Salaries		75,352
- Others		<u>35,436</u>
		<u>110,788</u>

Note 8
General

- 8.1 Figures in these financial statements have been rounded off to the nearest rupee.
- 8.2 These financial statements were authorized for issue by council on _____.


SECRETARY


FINANCE OFFICER

Annexure-IV

Press Releases



Accreditation Inspection Committee Visits Arid University

The National Agriculture Education Accreditation Council (NAEAC) recently convened its first on-site visit of second round of external evaluation and accreditation to Pir Mehr Ali Shah Arid Agriculture University, Rawalpindi. The objective is to improve standard and quality of agriculture degree programmes to make them globally competitive.

Four accreditation inspection committees (AICs) of subject experts and programme evaluators were constituted to undertake external peer-review of the degree programmes of Agronomy, Soil Science,

Plant Breeding and Genetics and Entomology to carry-out the review process.

Dr. Nadeem Akhtar Abbasi, Dean, Faculty of Crop and Food Sciences, PMAS AAU, Rawalpindi briefed the members of Committees on the recent developments in the Faculty of Crop and Food Sciences prior their visit of the respective departments for peer review and participatory SWOT analysis. The Committees in the end had a wrap-up meeting with Dr. Nadeem Akhtar Abbasi and shared their findings and observations.



NEWS FLASH

The Accreditation Inspection Committees (AICs) of National Agriculture Education Accreditation Council (NAEAC) recently carried out 2-day follow-up visit of degree programmes of Agronomy, Entomology, Plant Breeding & Genetics and Soil Science disciplines and on-site visit to Horticulture, Food Science and Technology and Seed Science and Technology disciplines at Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUA).

The AICs consisted of senior Professors of all seven disciplines of agriculture drawn from the NAEAC roster of Programme Experts/Subject Experts belonging to various Higher Education Institutions of agriculture in the Punjab headed by Dr. M. E. Tusneem, Chairman, NAEAC. The on-site and follow-up visit commenced with a meeting with the Dr. Asif Ali, Vice Chancellor, Dr. Ishtiaq A. Rajwana, Pro- Vice Chancellor, and respective Deans and Heads of Department.

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Picture Gallery



13th Council Meeting



4th Training Workshop for Programme Evaluators of NAEAC



Visit of AICs to Jinnah University for Women, Karachi



Visit of AICs to Balochistan Agriculture College, Quetta



Visit of AICs to UCA&ES, The Islamia University of Bahawalpur



Visit of AIC to The University of Lahore



Visit of AICs to PMAS Arid Agriculture University, Rawalpindi



Visit of AICs to University of Agriculture, Faisalabad



Visit of AICs to Sindh Agriculture University, Tandojam



Visit of AIC to Govt. College Women University, Faisalabad



Visit of AICs to The University of Agriculture, Peshawar



Visit of AICs to Muhammad Nawaz Shareef University of Agriculture, Multan



Visit of AIC to Govt. College University Faisalabad – Layyah Campus



Visit of AIC to Govt. College University Faisalabad – Sahiwal Campus



Visit of AIC to Abdul Wali Khan University, Mardan



Visit of AICs to Gomal University, D.I. Khan



Visit of AIC to UVAS, Lahore



Visit of AIC to The University of Poonch, Rawalakot



Awareness Seminar at Minhaj University, Lahore



Awareness Seminar at Afro Asian Institute, Lahore



Awareness Seminar at UAF – Sub Campus Depalpur - Okara



Agriculture Education Institutions in Pakistan

Agriculture Universities

1. University of Agriculture, Faisalabad
2. Sindh Agriculture University, Tandojam
3. The University of Agriculture, Peshawar
4. PMAS Arid Agriculture University, Rawalpindi
5. Lasbela University of Agriculture, Water & Marine Sciences, Uthal
6. Muhammad Nawaz Shareef University of Agriculture, Multan

Agriculture Faculties/Campuses/Institutes

1. Faculty of Agriculture, Gomal University, D. I. Khan
2. Faculty of Agriculture, University of Poonch, Rawalakot
3. Faculty of Agriculture, Ghazi University, D.G. Khan
4. Faculty of Agricultural Sciences and Technology, BZU, Multan
5. UAP-Amir Muhammad Khan Campus, Mardan
6. UAF Sub – Campus, Burewala
7. PMAS AAUR – Attock Campus
8. Institute of Agricultural Sciences (IAGS), University of the Punjab, Lahore
9. Pakistan Forest Institute, Peshawar
10. UAF Sub – Campus Depalpur – Okara
11. SAU Sub – Campus, Umerkot

Agriculture Colleges

1. BZ University Agriculture College, Bahadur Campus, Layyah
2. Balochistan Agriculture College, Quetta
3. University College of Agriculture & Env. Sciences, The Islamia University of Bahawalpur
4. University College of Agriculture, University of Sargodha
5. Shaheed Z.A Bhutto Agriculture College Dokri, Larkana

Contd...



Agriculture Departments

1. Department of Agricultural Sciences Allama Iqbal Open University, Islamabad
2. Department of Agriculture & Agribusiness Mgt, University of Karachi, Karachi
- ★3. Department of Food Science & Technology, University of Karachi, Karachi
4. Department of Agricultural Sciences, University of Haripur
5. Department of Agriculture, Bacha Khan University, Charsadda
6. Department of Agriculture, Abdul Wali Khan University Mardan
- ★7. Department of Home and Food Sciences, G.C. University, Faisalabad
8. Department of Agriculture Sciences, University of Swabi
- ★9. Department of Food Science and Technology, GCUF – Layyah Campus
- ★10. Department of Food Science and Technology, GCUF – Sahiwal Campus
- ★11. Department of Food Science and Technology, G.C. Women University, Faisalabad
- ★12. Department of Food Science and Technology, Jinnah University for Women, Karachi
- ★13. Department of Food Science and Technology, UOS – Lyallpur Campus
14. Department of Agriculture and Food Technology, K.I. University, Gilgit
- ★15. Department of Agriculture, Hazara University, Mansehra
- ★16. Department of Forestry, Shaheed Benazir Bhutto University, Sheringal, Dir
- ★17. School of Food and Agricultural Sciences, University of Management and Technology, Lahore
- ★18. Department of Food Science and Technology, The University of Lahore
- ★19. Department of Food Science and Technology, Minhaj University, Lahore
- ★20. Department of Food Science and Human Nutrition, UVAS, Lahore
- ★21. Department of Food Science and Technology, Khwaja Fareed University of Engineering and Technology, Rahim Yar Khan
- ★22. Department of Nutrition and Food Technology, The University of Sindh, Jamshoro
- ★23. Department of Food Science and Technology, Dadabhoy Institute of Higher Education, Karachi
- ★24. Department of Forestry, University of Swat
- ★25. Department of Food Science, University of Engineering and Technology, Lahore

★ Departments with mono discipline of agriculture



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